

CITY OF HAM LAKE

15544 Central Avenue NE
Ham Lake, Minnesota 55304
(763) 434-9555
info@ci.ham-lake.mn.us

CITY OF HAM LAKE CITY COUNCIL AND ECONOMIC DEVELOPMENT AUTHORITY AGENDA MARCH 4, 2024

- 1.0 CALL TO ORDER - 6:00 P.M. – Pledge of Allegiance**
- 2.0 PUBLIC COMMENT**
- 3.0 SPECIAL APPEARANCES/PUBLIC HEARINGS – None**
- 4.0 CONSENT AGENDA**

These items are considered to be routine and will be enacted in one motion. There will be no separate discussion of these items unless a Councilmember or citizen so requests, in which event the item will be removed from the Consent Agenda and considered in normal sequence. (All items listed on the Consent Agenda are recommended for approval.)

- 4.1 Approval of minutes of February 20, 2024
- 4.2 Approval of claims
- 4.3 Approval of a Resolution scheduling a public hearing to vacate a portion of the right-of-way and drainage and utility easements on Lot 11, Block 2 and Lot 9, Block 3 of Hidden Forest East
- 4.4 Approval of not waiving the monetary limits on municipal tort liability coverage
- 4.5 Approval of recommendation to Chief Judge of the 10th Judicial District to appoint Al Stauffacher, Brenda Reiner, David Ross and Tara Lanigan for a term of February 4, 2024 to February 4, 2028 to the Ham Lake Charter Commission
- 4.6 Approval of a Resolution for the fiscal year 2025 Community Project funding application for construction of the East Frontage road from 171st Avenue NE to 334 feet south of Crosstown Boulevard NE
- 4.7 Approval of acceptance of a Water Quality Grant from the Coon Creek Watershed District for the construction of the East Frontage road from 171st Avenue NE to 334 feet south of Crosstown Boulevard NE
- 4.8 Approval of Plans and Specifications and authorization to advertise for bids for the replacement of County Ditch 58 cross-culvert underneath 152nd Avenue NE
- 4.9 Approval of Anoka Conservation District preparing a mitigation plan for the TH 65 East Frontage Road and Crosstown Shopping Center road reconstruction projects

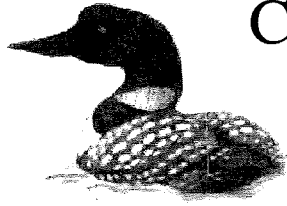
- 5.0 PLANNING COMMISSION RECOMMENDATIONS – None**
- 6.0 ECONOMIC DEVELOPMENT AUTHORITY – None**
- 7.0 APPEARANCES**

7.1 Fire Chief Mike Raczkowski – discussion of purchasing a used Pumper Tanker

- 8.0 CITY ATTORNEY**
- 9.0 CITY ENGINEER**
- 10.0 CITY ADMINISTRATOR**
- 11.0 COUNCIL BUSINESS**

- 11.1 Committee Reports
- 11.2 Announcements and future agenda items

CLOSED MEETING - Pursuant to Minn. Stat. §13D.05, Subd. 3(c)(3) to discuss the purchase of a temporary easement for a cul-de-sac at real property identified as PIN #19-32-23-41-0012 (during a recess of the regularly scheduled City Council meeting)



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CITY OF HAM LAKE CITY COUNCIL AND ECONOMIC DEVELOPMENT AUTHORITY MINUTES TUESDAY, FEBRUARY 20, 2024

The Ham Lake City Council and Economic Development Authority met for its regular meeting on Tuesday, February 20, 2024 at 6:00 p.m. in the Council Chambers at the Ham Lake City Hall located at 15544 Central Avenue NE in Ham Lake, Minnesota.

MEMBERS PRESENT: Mayor Brian Kirkham and Councilmembers Gary Kirkeide, Jim Doyle, and Al Parranto

MEMBERS ABSENT: Councilmember Jesse Wilken

OTHERS PRESENT: City Attorney, Mark Berglund; City Engineer, Dave Krugler; Finance Director, Angela Brumbaugh; and Deputy City Clerk, Dawnette Shimek

1.0 CALL TO ORDER - 6:00 P.M. – Pledge of Allegiance

Mayor Kirkham called the meeting to order and the Pledge of Allegiance was recited by all in attendance.

2.0 PUBLIC COMMENT – None

3.0 SPECIAL APPEARANCES/PUBLIC HEARINGS

3.1 Anoka County Sheriff Brad Wise and Lt. Anthony Mendoza – Anoka County Sheriff's Office – Introduction of Deputies assigned to the City of Ham Lake for 2024 and the Monthly Report

Lt. Anthony Mendoza; Chief Deputy, Bill Jacobson; and Sheriff Brad Wise were present before the City Council. Lt. Mendoza introduced the Deputies assigned to the City of Ham Lake for 2024: Nathan Arcand, Michael Redman, Grant Olson, Cory Bowker, Tanner Shipman and Spencer Rawlinson. The Mayor and Councilmembers thanked the Deputies for their service.

Sheriff Wise stated that they are working on trying to replace the current jail and asked the City Council to support the project. Sheriff Wise invited the Mayor and Councilmembers to look at the current jail. Sheriff Wise stated that there are four things that make a great law enforcement agency: good culture in the office; competitive wages; support of citizens; and especially supported the elected officials. The Mayor and City Council thanked Sheriff Wise.

Lt. Mendoza gave a summary of the Sheriff's Report for the month of January 2024. Councilmember Doyle asked about the experimental testing equipment being used to test for marijuana. Lt. Mendoza stated that he will let the City Council know if the equipment is deployed.

4.0 CONSENT AGENDA

These items are considered to be routine and will be enacted in one motion. There will be no separate discussion of these items unless a Councilmember or citizen so requests, in which event the item will be removed from the Consent Agenda and considered in normal sequence. (All items listed on the Consent Agenda are recommended for approval.)

- 4.1 Approval of minutes of February 5, 2024
- 4.2 Approval of claims in the amount of \$349,224.02
- 4.3 Approval of the 2024 service contract with SafeAssure for safety training
- 4.4 Approval of Resolution 24-07 to grant a Temporary Certificate of Occupancy to H&H Contracting for building located at 15454 Central Avenue NE

Motion by Doyle, seconded by Parranto, to approve the consent agenda as written. All present in favor, motion carried.

5.0 PLANNING COMMISSION RECOMMENDATIONS – None

6.0 ECONOMIC DEVELOPMENT AUTHORITY – None

7.0 APPEARANCES

7.1 Finance Director, Angela Brumbaugh – 4th Quarter Financial Report

Finance Director Brumbaugh gave the 2023 4th Quarter Financial Report stating this was unaudited and subject to change due to audit entries. Finance Director Brumbaugh reported on the Overall Cash Position by Fund Type, Cash Balances by Fund Compared to Prior Year, General Fund Cash Balances, and General Fund Budget and Actual. Finance Director Brumbaugh stated that investments are at approximately \$11,300,000.00 and she is working to stager the maturity dates of these investments. Finance Director Brumbaugh stated that the City's budget is on track. The City Council thanked Finance Director Brumbaugh.

8.0 CITY ATTORNEY

Attorney Berglund stated that he has been negotiating with the property owners for a temporary easement on 152nd Avenue NE for a cul-de-sac until the collapsed culvert is repaired.

Attorney Berglund stated that he had a follow-up meeting with Noel Foster, Foster Trucking, and it went well. Attorney Berglund stated that they will meet again and then they will have some kind of projection of Mr. Foster working with the City. Attorney Berglund stated that perhaps another workshop should be held to bring a conclusion to what needs to be done.

9.0 CITY ENGINEER

Engineer Krugler updated the City Council on the status of the construction of Fire Station 3. Engineer Krugler stated that they are waiting for the electrical panel as currently they are still on temporary power.

10.0 CITY ADMINISTRATOR – None

11.0 COUNCIL BUSINESS

11.1 Committee Reports – None

11.2 Announcements and future agenda items

Mayor Kirkham stated that he recently spoke with Congressman Emmers regarding Community Project Funding and he suggested that the City apply for \$ 900,000.00 to go towards the construction of the East frontage road from 171st Avenue NE to 334 feet South of Crosstown Boulevard NE.

Mayor Kirkham stated he has been contacted by ACEIT (The Anoka County Election Integrity Team) a group that attended a meeting a few months ago to talk about voting rights and the election system and they want to do a presentation to the City Council. The group has already made presentations at the City of Oak Grove and the City of Nowthen; and have had talks with East Bethel, Lino Lakes, St. Francis and Bethel. Mayor Kirkham stated he would like to hold a workshop meeting on March 5, 2024 at 5:00 p.m. for the 45-minute presentation by ACEIT before the City Council meeting. Mayor Kirkham stated he would like Attorney Berglund to be at the meeting because the City of Oak Grove had their attorney present to ask questions if needed.

Mayor Kirkham stated that state legislatures are currently discussing taking away City rights for zoning and looking for higher density and more houses. They are also discussing to allow less parking restrictions for all properties. Mayor Kirkham added that the League of Minnesota Cities are opposed to these changes. Councilmember Kirkeide stated that cities without city sewer or water should be exempt from these provisions or should be able to opt out.

Motion by Kirkeide, seconded by Parranto, to adjourn the meeting at 6:31 p.m. All present in favor, motion carried.

Dawnette Shimek, Deputy City Clerk

**CITY OF HAM LAKE
CLAIMS SUBMITTED TO COUNCIL**

March 4, 2024

CITY OF HAM LAKE

EFTS, CHECKS, AND BANK DRAFTS		01/31/24 & 02/21/24 - 03/04/24	
EFT	# 2006 - 2011	\$	4,247.18
REFUND CHECKS	# 65874 - 65875	\$	300.00
CHECKS	# 65876 - 65903	\$	53,939.59
BANK DRAFTS	DFT0002671 -DFT0002680	\$	32,167.14
TOTAL EFTS, CHECKS, AND BANK DRAFTS		<u>\$</u>	<u>90,653.91</u>
PAYROLL CHECKS			
02/23/24	Direct Deposits	\$	46,779.21
02/23/24	CK#65873	\$	77.62
TOTAL PAYROLL CHECKS		<u>\$</u>	<u>46,856.83</u>
VOID CHECKS			
ZERO CHECKS	#65901	\$	-
ZERO EFT		\$	-
BANK DRAFTS	#2670 (NOV '23 REVERSED DEC '23)	\$	-
TOTAL VOIDS		<u>\$</u>	<u>-</u>
TOTAL OF ALL PAYMENTS		<u>\$</u>	<u>137,510.74</u>

APPROVED BY THE HAM LAKE CITY COUNCIL THIS 4TH DAY OF MARCH 2024

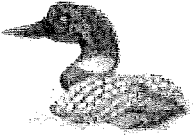
MAYOR

COUNCILMEMBER

COUNCILMEMBER

COUNCILMEMBER

COUNCILMEMBER



Packet: ARPKT01008 - 02/23/24 TRUST REFUND

Refund Detail

Account Number	Name	Check Date	Check Number	Amount
00491	MIKALA MIHALOW	2/23/2024	65874	150.00
Total Refund Amount:				150.00

Revenue Totals

Revenue Code	Total Distribution
TRUST DEPOSITS - TRUST DEPOSITS	150.00
Revenue Totals:	150.00

General Ledger Distribution

Posting Date: 02/22/2024

Account Number	Account Name	Posting Amount	IFT
Fund: 890 - TRUST FUND			
890-10101	Cash-claim on pooled cash	-150.00	Yes
890-11501	Misc receivables	150.00	
	890 Total:	0.00	
Fund: 999 - POOLED CASH			
999-10100	Pooled Cash	-150.00	
999-20702	Due to other funds	150.00	Yes
	999 Total:	0.00	
	Distribution Total:	0.00	



Packet: ARPKT01016 - 02/27/24 TRUST REFUND

Refund Detail

Account Number	Name	Check Date	Check Number	Amount
00496	BILLY XIONG	2/27/2024	65875	150.00
			Total Refund Amount:	150.00

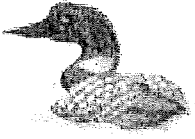
Revenue Totals

Revenue Code	Total Distribution
TRUST DEPOSITS - TRUST DEPOSITS	150.00
Revenue Totals:	150.00

General Ledger Distribution

Posting Date: 02/27/2024

Account Number	Account Name	Posting Amount	IFT
Fund: 890 - TRUST FUND			
890-10101	Cash-claim on pooled cash	-150.00	Yes
890-11501	Misc receivables	150.00	
	890 Total:	0.00	
Fund: 999 - POOLED CASH			
999-10100	Pooled Cash	-150.00	
999-20702	Due to other funds	150.00	Yes
	999 Total:	0.00	
	Distribution Total:	0.00	



City of Ham Lake, MN

Council Approval List

By (None)

Payment Dates 1/31/2024 - 1/31/2024

Payment Number	Vendor Name	Description (Item)	Account Name	Account Number	Amount
DFT0002677	US POSTMASTER	SR CENTER POSTAGE	Postage Liability	100-20204	42.20
DFT0002679	US POSTMASTER	FEB HAM LAKER POSTAGE	Postage	211-41704-2120	1,304.52
				Grand Total:	1,346.72

Report Summary

Fund Summary

Fund	Payment Amount
100 - GENERAL	42.20
211 - HAM LAKER	1,304.52
Grand Total:	<u>1,346.72</u>

Account Summary

Account Number	Account Name	Payment Amount
100-20204	Postage Liability	42.20
211-41704-2120	Postage	1,304.52
Grand Total:		<u>1,346.72</u>

Project Account Summary

Project Account Key	Payment Amount
None	1,346.72
Grand Total:	<u>1,346.72</u>



City of Ham Lake, MN

Check Register

Packet: APPKT01961 - 2023 SALES TAX PAYMENT

By Check Number

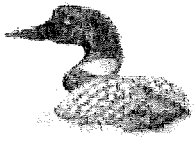
Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
MNSTATETAX	MN STATE DEPT OF REVENUE-PAYR	02/05/2024	Bank Draft	0.00	435.00	DFT0002680
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
<u>2023 SALES TAX</u>	Invoice	02/05/2024	2023 SALES TAX DUE	0.00	435.00	
<u>100-21801</u>	Sales tax		2023 SALES TAX DUE		435.00	

Bank Code APBNK Summary

Payment Type	Payable Count	Payment Count	Discount	Payment
Regular Checks	0	0	0.00	0.00
Manual Checks	0	0	0.00	0.00
Voided Checks	0	0	0.00	0.00
Bank Drafts	1	1	0.00	435.00
EFT's	0	0	0.00	0.00
	1	1	0.00	435.00

Fund Summary

Fund	Name	Period	Amount
999	POOLED CASH	2/2024	435.00
			<hr/>
			435.00



Payment Dates 2/21/2024 - 3/4/2024

Payment Number	Vendor Name	Description (Item)	Account Name	Account Number	Amount
2006	ARAMARK UNIFORM & CAREE	PW UNIFORMS	Clothing & personal protectiv	100-43101-2210	93.73
2006	ARAMARK UNIFORM & CAREE	FIRST AID CABINET	Safety supplies	100-43101-2240	14.99
2006	ARAMARK UNIFORM & CAREE	PARK UNIFORMS	Clothing & personal protectiv	100-44101-2210	58.45
2006	ARAMARK UNIFORM & CAREE	PW UNIFORMS	Clothing & personal protectiv	100-43101-2210	92.94
2006	ARAMARK UNIFORM & CAREE	FIRST AID CABINET	Safety supplies	100-43101-2240	14.99
2006	ARAMARK UNIFORM & CAREE	PARK UNIFORMS	Clothing & personal protectiv	100-44101-2210	58.45
2006	ARAMARK UNIFORM & CAREE	PW UNIFORMS	Clothing & personal protectiv	100-43101-2210	92.94
2006	ARAMARK UNIFORM & CAREE	FIRST AID CABINET	Safety supplies	100-43101-2240	14.99
2006	ARAMARK UNIFORM & CAREE	PARK UNIFORMS	Clothing & personal protectiv	100-44101-2210	58.45
2007	BLAINE BROTHERS INC	#78 DOT INSPECTION	Inspections	100-43101-3460	165.00
2008	BRODIN PRESS	MARCH HAM LAKER	Editing	211-41704-3125	900.00
2009	CMT JANITORIAL SERVICES	SHERIFF'S OFFICE CLEANING	Cleaning service	100-41702-3430	153.00
2009	CMT JANITORIAL SERVICES	CITY HALL CLEANING	Cleaning service	100-41702-3430	612.00
2009	CMT JANITORIAL SERVICES	FIRE #2 CLEANING	Cleaning service	100-42202-3430	151.00
2009	CMT JANITORIAL SERVICES	FIRE #1 CLEANING	Cleaning service	100-42202-3430	161.00
2009	CMT JANITORIAL SERVICES	PW CLEANING	Cleaning service	100-43104-3430	148.00
2009	CMT JANITORIAL SERVICES	SR CENTER CLEANING	Cleaning service	100-44202-3430	300.00
2010	DELTA DENTAL PLAN OF MINN	MARCH COBRA - DK	COBRA receivable	100-11502	51.04
2010	DELTA DENTAL PLAN OF MINN	MARCH DENTAL	Dental Insurance	100-21711	810.03
2011	O'REILLY AUTOMOTIVE STORE	#75 MARKER LIGHT	Vehicle parts & supplies	100-43101-2340	4.23
2011	O'REILLY AUTOMOTIVE STORE	#48 OIL FILTER	Vehicle parts & supplies	100-43101-2340	6.74
2011	O'REILLY AUTOMOTIVE STORE	OIL	Vehicle parts & supplies	100-43101-2340	83.97
2011	O'REILLY AUTOMOTIVE STORE	#54 PORT BEARING PACKER	Vehicle parts & supplies	100-43101-2340	23.99
2011	O'REILLY AUTOMOTIVE STORE	#127 WHEEL SEAL	Equipment parts & supplies	100-43101-2320	19.92
2011	O'REILLY AUTOMOTIVE STORE	#127 SPINDLE NUT/WASHER K	Equipment parts & supplies	100-43101-2320	13.43
2011	O'REILLY AUTOMOTIVE STORE	#89 BLOWER MOTOR	Vehicle parts & supplies	100-43101-2340	25.38
2011	O'REILLY AUTOMOTIVE STORE	#89 BLOWER MOTOR	Vehicle parts & supplies	100-43101-2340	25.38
2011	O'REILLY AUTOMOTIVE STORE	#127 LED, BEAR BUDDY, WHE	Equipment parts & supplies	100-43101-2320	93.14
65876	AKER DOOR SALES INC	RECEIVER	Operating supplies	100-43101-2290	-51.00
65876	AKER DOOR SALES INC	8 REMOTES	Operating supplies	100-43101-2290	309.04
65877	ANOKA COUNTY PROPERTY	TRUTH IN TAXATION	Assessing/property tax admin	100-41101-3105	1,937.86
65877	ANOKA COUNTY PROPERTY	SPECIAL ASSESSMENTS	Assessing/property tax admin	232-43701-3105	1,686.00
65877	ANOKA COUNTY PROPERTY	SPECIAL ASSESSMENTS - FRAZ	Assessing/property tax admin	431-43301-3105	55.54
65877	ANOKA COUNTY PROPERTY	SPECIAL ASSESSMENTS - ROSE	Assessing/property tax admin	431-43301-3105	48.40
65877	ANOKA COUNTY PROPERTY	SPECIAL ASSESSMENTS - 155T	Assessing/property tax admin	431-43301-3105	60.64
65878	ANOKA COUNTY TREASURY D	FEB BROADBAND FIRE #2	Internet & website	100-41301-3220	75.00
65878	ANOKA COUNTY TREASURY D	FEB BROADBAND	Internet & website	100-41301-3220	37.50
65879	ASTLEFORD INT'L TRUCKS INC	#93 AIR TEMP SENSOR	Vehicle parts & supplies	100-43101-2340	72.52
65879	ASTLEFORD INT'L TRUCKS INC	#93 PRESSURE SENSOR & TUR	Vehicle repair & maintenance	100-43101-3470	2,339.70
65880	CITY OF COLUMBUS	JAN SIGNAL LEXINGTON & BR	Electricity	100-43401-3610	24.65
65881	COMCAST BUSINESS	MAR FIRE #1 ADD'L CABLE BO	Rentals-other	100-42201-3390	11.33
65882	CRYSTEEL TRUCK EQUIP INC	#93 LATCH PLATE	Vehicle parts & supplies	100-43101-2340	226.45
65883	DEARBORN LIFE INS CO	MARCH VOL LIFE	Life Insurance	100-21714	171.60
65883	DEARBORN LIFE INS CO	MARCH LIFE	Life Insurance	100-21714	54.40
65884	DEHN OIL CO	227.1 GAL GASOLINE	Fuel	100-43101-2230	581.46
65884	DEHN OIL CO	300 GAL DIESEL	Fuel	100-43101-2230	874.26
65885	ERIK SKOGQUIST	1ST QTR ASSESSING	Assessing/property tax admin	100-41403-3105	10,382.27
65886	HAM LAKE HARDWARE INC	MISC TOOLS	Small tools	100-42201-2410	95.81
65886	HAM LAKE HARDWARE INC	MISC TOOLS	Small tools	100-42201-2410	-27.58
65886	HAM LAKE HARDWARE INC	GROUNDING SCREW	Operating supplies	100-43101-2290	1.29
65887	HEALTH PARTNERS INC	FEB EAP	Other professional services	100-41701-3190	25.50
65888	KINGS III EMERGENCY COMM	MAR ELEVATOR PHONE	Phones/radios/pagers	100-41701-3210	39.17
65889	LINCOLN NATIONAL LIFE INSU	DEC ST DISABILITY - JC	STD/LTD	100-21713	4.05
65889	LINCOLN NATIONAL LIFE INSU	MARCH LT DISABILITY	STD/LTD	100-21713	771.33

Council Approval List

Payment Dates: 2/21/2024 - 3/4/2024

Payment Number	Vendor Name	Description (Item)	Account Name	Account Number	Amount
65889	LINCOLN NATIONAL LIFE INSU	MARCH ST DISABILITY	STD/LTD	100-21713	865.62
65890	MARY WELLS	1ST QTR ASSESSING	Assessing/property tax admin	100-41403-3105	10,382.27
65891	MENARDS-BLAINE	COAX, COUPLER, CONNECTOR	Building repair & maintenanc	100-43104-2310	11.86
65892	MINNESOTA PYROTECHNICS L	FREEDOM FEST FIREWORKS D	Community celebrations	100-41701-4115	6,000.00
65893	MN METRO NORTH TOURISM	NOV LODGING TAX	Convention bureau	263-46101-4120	1,380.26
65893	MN METRO NORTH TOURISM	DEC LODGING TAX	Convention bureau	263-46101-4120	1,398.38
65893	MN METRO NORTH TOURISM	JAN LODGING TAX	Convention bureau	263-46101-4120	1,276.86
65894	MN/WI PLAYGROUND INC	BLEACHER - TWIN BIRCH PARK	Controllable assets	440-44103-5120	2,245.00
65894	MN/WI PLAYGROUND INC	BLEACHER - PINGER'S PARK	Controllable assets	440-44103-5120	2,245.00
65894	MN/WI PLAYGROUND INC	BLEACHER - PATRICIA'S WILDE	Controllable assets	440-44103-5120	1,675.00
65895	OCCUPATIONAL HEALTH CENT	DRUG TESTING	Personnel testing & recruitme	100-43101-3150	91.00
65896	PTL TIRE INC	#78 TIRE BALANCING	Vehicle repair & maintenance	100-43101-3470	245.96
65897	RIVARD COMPANIES	TREE WASTE	Operating supplies	100-43101-2290	312.50
65897	RIVARD COMPANIES	TREE WASTE	Operating supplies	100-43101-2290	1,000.00
65897	RIVARD COMPANIES	TREE WASTE	Operating supplies	100-43101-2290	375.00
65898	TASC	APRIL COBRA ADMINISTRATIO	Other professional services	100-41701-3190	26.74
65899	TRI TECH DISPENSING INC	ICE MACHINE REPAIR	Equipment repair & maintena	100-44201-3440	450.00
65900	US BANK CORPORATE PAYME	ZOOM-FEB ZOOM-DW	Dues & subscriptions	100-41201-3920	13.83
65900	US BANK CORPORATE PAYME	IOS-floor mat-NW	Office supplies	100-41401-2110	81.06
65900	US BANK CORPORATE PAYME	IOS-staple remover, paper, pa	Office supplies	100-41701-2110	261.32
65900	US BANK CORPORATE PAYME	IOS-scissor, paper, pen cup, ta	Office supplies	100-41701-2110	39.56
65900	US BANK CORPORATE PAYME	AMAZON-air freshner-NW	Operating supplies	100-41701-2290	12.57
65900	US BANK CORPORATE PAYME	PANTHEON-website-NW	Software licenses & upgrades	100-41701-2510	300.00
65900	US BANK CORPORATE PAYME	MENARDS-stand up desks-N	Computer supplies/small equi	100-41701-2520	79.98
65900	US BANK CORPORATE PAYME	HOLIDAY-FUEL-MR	Fuel	100-42201-2230	15.95
65900	US BANK CORPORATE PAYME	AMAZON-soap dispensers-N	Operating supplies	100-42201-2290	56.59
65900	US BANK CORPORATE PAYME	BRIMAR INDUSTRIES-STOP/SL	Operating supplies	100-42201-2290	108.23
65900	US BANK CORPORATE PAYME	EBAY-GENERATOR LIGHT KIT-	Operating supplies	100-42201-2290	237.80
65900	US BANK CORPORATE PAYME	AMAZON-soap refills-NW	Operating supplies	100-42201-2290	132.51
65900	US BANK CORPORATE PAYME	AMAZON-drill punch tool-NW	Small tools	100-42201-2410	17.81
65900	US BANK CORPORATE PAYME	AMAZON-natural gas detector	Small tools	100-42201-2410	79.99
65900	US BANK CORPORATE PAYME	MN EQUIPMENT- BACKPACK B	Controllable assets	100-42201-5120	395.99
65900	US BANK CORPORATE PAYME	MN EQUIPMENT-CHAINSAW	Controllable assets	100-42201-5120	468.96
65900	US BANK CORPORATE PAYME	AMAZON-date stamp-NW	Office supplies	100-42401-2110	15.71
65900	US BANK CORPORATE PAYME	IOS-floor mat-NW	Office supplies	100-42401-2110	167.34
65900	US BANK CORPORATE PAYME	IOS-building folders-NW	Office supplies	100-42401-2110	49.00
65900	US BANK CORPORATE PAYME	AMAZON-wall clock-NW	Operating supplies	100-42401-2290	7.88
65900	US BANK CORPORATE PAYME	HOLIDAY-Bucket truck fuel-JW	Fuel	100-43101-2230	169.09
65900	US BANK CORPORATE PAYME	good customer rebate	Fuel	100-43101-2230	-202.22
65900	US BANK CORPORATE PAYME	AMAZON-trailer document ho	Operating supplies	100-43101-2290	48.99
65900	US BANK CORPORATE PAYME	AMAZON-zipper pouches-NW	Operating supplies	100-43101-2290	42.99
65900	US BANK CORPORATE PAYME	AMAZON-spindle washers-N	Equipment parts & supplies	100-43101-2320	10.99
65900	US BANK CORPORATE PAYME	AMAZON-laptop charger-NW	Computer supplies & small eq	100-43101-2520	21.69
65900	US BANK CORPORATE PAYME	KWIK TRIP-Chainsaw training-	Training/conferences/schools	100-43101-3510	39.18
65900	US BANK CORPORATE PAYME	MN STATE PATROL-DOT Sticke	Professional licenses & certifi	100-43101-3520	54.50
65900	US BANK CORPORATE PAYME	APPLIANCE SOLUTIONS-APPLI	Capital assets	420-42201-5110	200.00
65902	VERIZON WIRELESS	MR	Phones/radios/pagers	100-42201-3210	41.24
65902	VERIZON WIRELESS	TD, MJ & 2 LAPTOPS	Phones/radios/pagers	100-42401-3210	162.50
65902	VERIZON WIRELESS	JK, JW, JC, CS, EH, & 2 LAPTOP	Phones/radios/pagers	100-43101-3210	294.23
65902	VERIZON WIRELESS	DH, AC, MS	Phones/radios/pagers	100-44101-3210	123.70
65903	WITMER PUBLIC SAFETY GRO	IRONS STRAP, OXYGEN RESPO	Clothing & personal protectiv	100-42201-2210	601.99
DFT0002671	COMPENSATION CONSULTAN	Health Savings Account	HSA Account	100-21712	150.00
DFT0002672	EMPOWER	Deferred Compensation	Deferred compensation	100-21704	2,160.00
DFT0002672	EMPOWER	Roth IRA	Deferred compensation	100-21704	200.00
DFT0002673	IRS-Payroll Tax	Federal Withholding	Federal WH/FICA/MC	100-21701	6,444.80
DFT0002673	IRS-Payroll Tax	Medicare Payable	Federal WH/FICA/MC	100-21701	1,972.70
DFT0002673	IRS-Payroll Tax	Social Security Payable	Federal WH/FICA/MC	100-21701	7,795.58
DFT0002674	MN STATE DEPT OF REVENUE-	MN State Withholding	State W/H	100-21702	2,780.11
DFT0002675	PERA	Retirement-Coordinated	PERA	100-21703	7,332.96
DFT0002675	PERA	Retirement-Elected Officials	PERA	100-21703	81.68

Council Approval List

Payment Dates: 2/21/2024 - 3/4/2024

Payment Number	Vendor Name	Description (Item)	Account Name	Account Number	Amount
DFT0002675	PERA	Retirement-Police & Fire	PERA	100-21703	1,280.53
DFT0002676	MN STATE DEPT OF REVENUE-	JAN FUEL TAX	Fuel	100-43101-2230	144.78
DFT0002678	US POSTMASTER	SR CENTER POSTAGE	Postage Liability	100-20204	42.28
Grand Total:					88,572.19

Report Summary

Fund Summary

Fund	Payment Amount
100 - GENERAL	75,401.11
211 - HAM LAKER	900.00
232 - STREET LIGHT	1,686.00
263 - LODGING TAX	4,055.50
420 - FIRE EQUIPMENT	200.00
431 - REVOLVING STREET	164.58
440 - PARK & BEACH LAND	6,165.00
Grand Total:	88,572.19

Account Summary

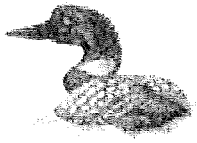
Account Number	Account Name	Payment Amount
100-11502	COBRA receivable	51.04
100-20204	Postage Liability	42.28
100-21701	Federal WH/FICA/MC	16,213.08
100-21702	State W/H	2,780.11
100-21703	PERA	8,695.17
100-21704	Deferred compensation	2,360.00
100-21711	Dental Insurance	810.03
100-21712	HSA Account	150.00
100-21713	STD/LTD	1,641.00
100-21714	Life Insurance	226.00
100-41101-3105	Assessing/property tax a	1,937.86
100-41201-3920	Dues & subscriptions	13.83
100-41301-3220	Internet & website	112.50
100-41401-2110	Office supplies	81.06
100-41403-3105	Assessing/property tax a	20,764.54
100-41701-2110	Office supplies	300.88
100-41701-2290	Operating supplies	12.57
100-41701-2510	Software licenses & upgr	300.00
100-41701-3190	Other professional servi	52.24
100-41701-3210	Phones/radios/pagers	39.17
100-41701-4115	Community celebrations	6,000.00
100-41702-3430	Cleaning service	765.00
100-41707-2520	Computer supplies/smal	79.98
100-42201-2210	Clothing & personal prot	601.99
100-42201-2230	Fuel	15.95
100-42201-2290	Operating supplies	535.13
100-42201-2410	Small tools	166.03
100-42201-3210	Phones/radios/pagers	41.24
100-42201-3390	Rentals-other	11.33
100-42201-5120	Controllable assets	864.95
100-42202-3430	Cleaning service	312.00
100-42401-2110	Office supplies	232.05
100-42401-2290	Operating supplies	7.88
100-42401-3210	Phones/radios/pagers	162.50
100-43101-2210	Clothing & personal prot	279.61
100-43101-2230	Fuel	1,567.37
100-43101-2240	Safety supplies	44.97
100-43101-2290	Operating supplies	2,038.81
100-43101-2320	Equipment parts & suppl	137.48
100-43101-2340	Vehicle parts & supplies	468.66
100-43101-2520	Computer supplies & sm	21.69
100-43101-3150	Personnel testing & recr	91.00
100-43101-3210	Phones/radios/pagers	294.23
100-43101-3460	Inspections	165.00
100-43101-3470	Vehicle repair & mainten	2,585.66
100-43101-3510	Training/conferences/sc	39.18

Account Summary

Account Number	Account Name	Payment Amount
100-43101-3520	Professional licenses & c	54.50
100-43104-2310	Building repair & mainte	11.86
100-43104-3430	Cleaning service	148.00
100-43401-3610	Electricity	24.65
100-44101-2210	Clothing & personal prot	175.35
100-44101-3210	Phones/radios/pagers	123.70
100-44201-3440	Equipment repair & mai	450.00
100-44202-3430	Cleaning service	300.00
211-41704-3125	Editing	900.00
232-43701-3105	Assessing/property tax a	1,686.00
263-46101-4120	Convention bureau	4,055.50
420-42201-5110	Capital assets	200.00
431-43301-3105	Assessing/property tax a	164.58
440-44103-5120	Controllable assets	6,165.00
	Grand Total:	88,572.19

Project Account Summary

Project Account Key	Payment Amount
None	88,572.19
Grand Total:	88,572.19



City of Ham Lake, MN

EFT Payroll Check Register

Report Summary

Pay Period: 2/4/2024-2/17/2024

Packet: PYPKT01588 - PPE 02/17/24 PAID 02/23/24

Payroll Set: City of Ham Lake - 01

Type	Count	Amount
Regular Checks	1	77.62
Manual Checks	0	0.00
Reversals	0	0.00
Voided Checks	0	0.00
Direct Deposits	78	46,779.21
Total	79	46,856.83

Meeting Date: March 4, 2024



***CITY OF HAM LAKE
STAFF REPORT***

To: Mayor and Councilmembers

From: Dawnette Shimek, Deputy City Clerk

Item/Title/Subject: Vacation of right-of-way and drainage and utility easements on portions of property located within the plat of Hidden Forest East

Introduction/Discussion:

A temporary cul-de-sac was constructed on Packard Street NE within the plat of Hidden Forest East when the property was developed. Hidden Forest East is now connecting to Hidden Forest East Second Addition and the cul-de-sac is no longer needed and therefore needs to be vacated. Engineer Collins has reviewed the legal descriptions and has no issue with this vacation.

Recommendation:

I recommend approval of a Resolution scheduling a Public Hearing for March 18, 2024 at 6:01 p.m. to consider vacation of right-of-way and drainage and utility easements on portions of property located within Hidden Forest East.

RESOLUTION NO. 24-XX

WHEREAS, the Ham Lake City Council, on its own motion, wishes to consider the vacation of the following described land in the City of Ham Lake, pursuant to Minnesota Statutes Chapter 412.851:

**RIGHT OF WAY VACATION DESCRIPTION
FOR LOT 11, BLOCK 2, HIDDEN FOREST EAST**

That part of Packard Street NE, as created and dedicated in the plat of HIDDEN FOREST EAST, according to the recorded plat thereof, Anoka County, Minnesota, lying adjacent to the easterly line of Lot 11, Block 2, of said HIDDEN FOREST EAST, and lying westerly of a line parallel with and distant 33.00 feet westerly of the centerline of said Packard Street NE. Reserving a public drainage and utility easement over, under and across the easterly 10.00 feet thereof.

**RIGHT OF WAY VACATION DESCRIPTION
FOR LOT 9, BLOCK 3, HIDDEN FOREST EAST**

That part of Packard Street NE, as created and dedicated in the plat of HIDDEN FOREST EAST, according to the recorded plat thereof, Anoka County, Minnesota, lying adjacent to the westerly line of Lot 9, Block 3, of said HIDDEN FOREST EAST, and lying easterly of a line parallel with and distant 33.00 feet easterly of the centerline of said Packard Street NE. Reserving a public drainage and utility easement over, under and across the westerly 10.00 feet thereof and that part lying northerly of a line parallel with and distant 20.00 feet southerly of the north line of said Lot 9, Block 3.

**DRAINAGE AND UTILITY EASEMENT VACATION
DESCRIPTION FOR LOT 11, BLOCK 2, HIDDEN FOREST EAST**

All of the drainage and utility easements as created and dedicated over, under, and across Lot 11, Block 2, HIDDEN FOREST EAST, according to the recorded plat thereof, Anoka County, Minnesota, lying parallel with, adjacent to, and distant 10.00 feet westerly of the westerly right of way line of Packard Street NE, as created and dedicated in said plat.

EXCEPT those parts lying easterly of a line parallel with and distant 43.00 feet westerly of the centerline of said Packard Street NE.

ALSO EXCEPT that part embraced within the north 10.00 feet of said Lot 11, Block 2.

**DRAINAGE AND UTILITY EASEMENT VACATION
DESCRIPTION FOR LOT 9, BLOCK 3, HIDDEN FOREST EAST**

All of the drainage and utility easements as created and dedicated over, under, and across Lot 9, Block 3, HIDDEN FOREST EAST, according to the recorded plat thereof, Anoka County, Minnesota, lying parallel with, adjacent to, and distant 10.00 feet easterly of the easterly right of way line of Packard Street NE, as created and dedicated in said plat.

EXCEPT those parts lying westerly of a line parallel with and distant 43.00 feet easterly of the centerline of said Packard Street NE.

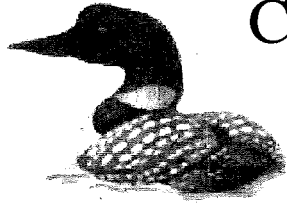
ALSO EXCEPT that part embraced within the north 20.00 feet of said Lot 9, Block 3.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Ham Lake, that the City Clerk is directed to post in a conspicuous place in the City Hall between the dates of March 7, 2024 and March 18, 2024 and to cause publication of a NOTICE OF PUBLIC HEARING, a copy of which is attached to this Resolution, for a public hearing to be held on March 18, 2024, with publication to occur in the Star Tribune on March 7, 2024.

Adopted by the City Council of the City of Ham Lake this 4th day of March, 2024.

Brian Kirkham, Mayor

Denise Webster, City Clerk



CITY OF HAM LAKE

15544 Central Avenue NE
Ham Lake, Minnesota 55304
(763) 434-9555
info@ci.ham-lake.mn.us

NOTICE OF PUBLIC HEARING VACATION OF PUBLIC LAND

NOTICE IS HEREBY GIVEN, that a Public Hearing will be held before the Ham Lake City Council on March 18, 2024 at 6:01 p.m. in the City Council Chambers, City Hall, 15544 Central Avenue N.E. Ham Lake, Minnesota 55304, to hear comments and questions concerning the proposed vacation of the following described land within the City of Ham Lake, Minnesota:

RIGHT OF WAY VACATION DESCRIPTION FOR LOT 11, BLOCK 2, HIDDEN FOREST EAST

That part of Packard Street NE, as created and dedicated in the plat of HIDDEN FOREST EAST, according to the recorded plat thereof, Anoka County, Minnesota, lying adjacent to the easterly line of Lot 11, Block 2, of said HIDDEN FOREST EAST, and lying westerly of a line parallel with and distant 33.00 feet westerly of the centerline of said Packard Street NE. Reserving a public drainage and utility easement over, under and across the easterly 10.00 feet thereof.

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DRAINAGE AND UTILITY EASEMENT VACATION DESCRIPTION FOR LOT 11, BLOCK 2, HIDDEN FOREST EAST

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EXCEPT those parts lying easterly of a line parallel with and distant 43.00 feet westerly of the centerline of said Packard Street NE.

ALSO EXCEPT that part embraced within the north 10.00 feet of said Lot 11, Block 2.

DRAINAGE AND UTILITY EASEMENT VACATION DESCRIPTION FOR LOT 9, BLOCK 3, HIDDEN FOREST EAST

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Minnesota, lying parallel with, adjacent to, and distant 10.00 feet easterly of the easterly right of way line of Packard Street NE, as created and dedicated in said plat.
EXCEPT those parts lying westerly of a line parallel with and distant 43.00 feet easterly of the centerline of said Packard Street NE.

ALSO EXCEPT that part embraced within the north 20.00 feet of said Lot 9, Block 3.

Said hearing is conducted pursuant to Minnesota Statutes Chapter 412.851.

Dated: March 7, 2024

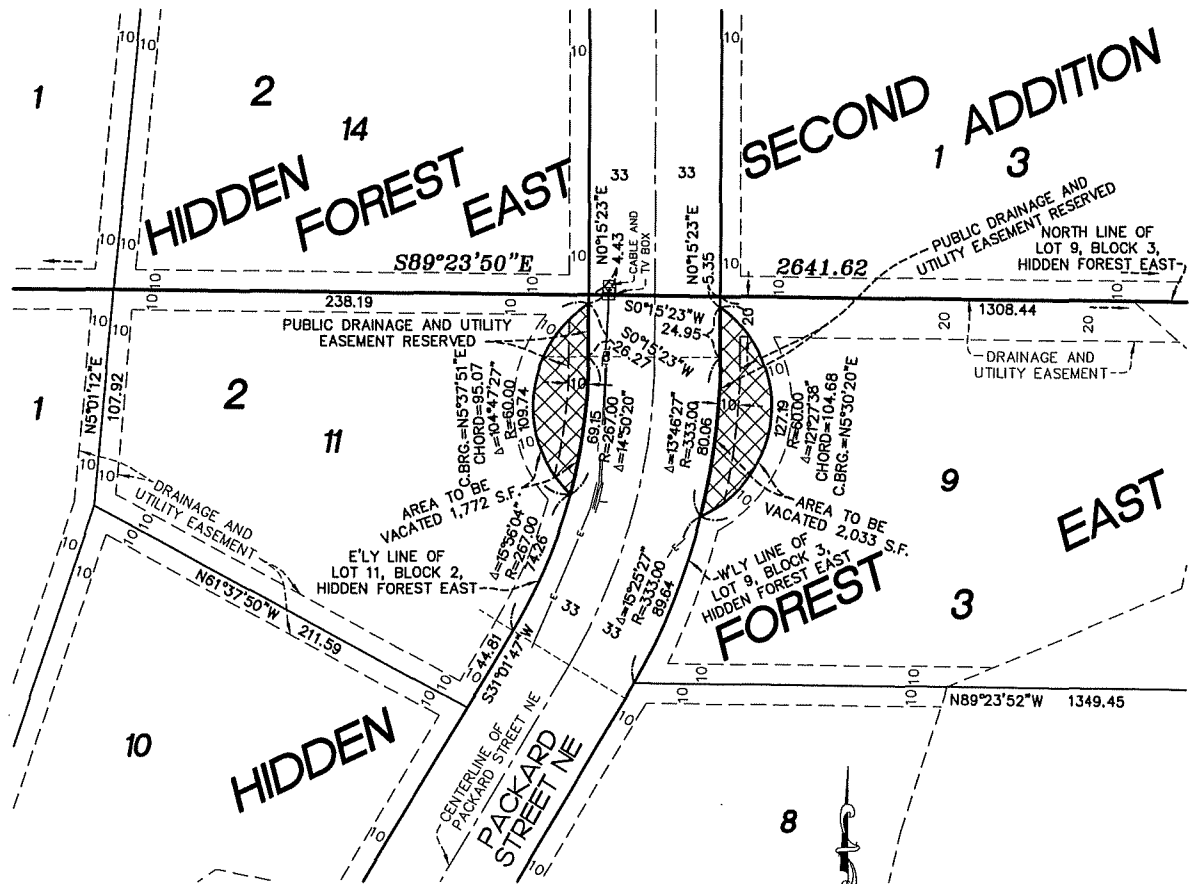
Dawnette Shimek, Deputy City Clerk

Posted at City Hall between the dates of March 7, 2024 and March 18, 2024

Published in the Star Tribune on March 7, 2024

SKETCH AND DESCRIPTION

~for~ HFN PROPERTIES, LLC
 ~of~ PACKARD STREET N.E. VACATION



NOTE

- Field survey was completed by E.G. Rud and Sons, Inc. on 12/18/2023.
- Location of utilities existing on or serving the surveyed property determined by:
 - * Observed evidence collected pursuant to Section 5.E.iv.
 - * Markings requested by E.G. Rud & Sons, Inc. per Gopher State One Call Ticket No. 233460050.
 Excavations were not made during the process of this survey to locate underground utilities and/or structures. The location of underground utilities and/or structures may vary from locations shown hereon and additional underground utilities and/or structures may be encountered. Contact Gopher State One Call Notification Center at (651) 454-0002 for verification of utility type and field location, prior to excavation.
- See Sketch and Description prepared by E.G. Rud & Sons, Inc. dated 02/19/2024 for proposed Drainage and Utility Easement vacations.

NORTH

LEGEND

- DENOTES CABLE PEDESTAL
- DENOTES TELEPHONE PEDESTAL
- DENOTES UNDERGROUND ELECTRIC LINE
- DENOTES UNDERGROUND GAS LINE
- DENOTES UNDERGROUND CABLE LINE
- DENOTES UNDERGROUND TELEPHONE LINE
- STREET VACATION AREA

RIGHT OF WAY VACATION DESCRIPTION FOR LOT 11, BLOCK 2, HIDDEN FOREST EAST

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Location: HAM LAKE

Scale 1" = 60'

Drawn By: JEN

Project Manager: MMD

Job No.: 16045PP

○ Denotes Iron Set

● Denotes Iron Found

Bearings shown are on Anoka County Coordinate System.

I hereby certify that this plan, survey or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota. Dated this 19th day of February, 2024.

E. G. Rud

License No. 41578



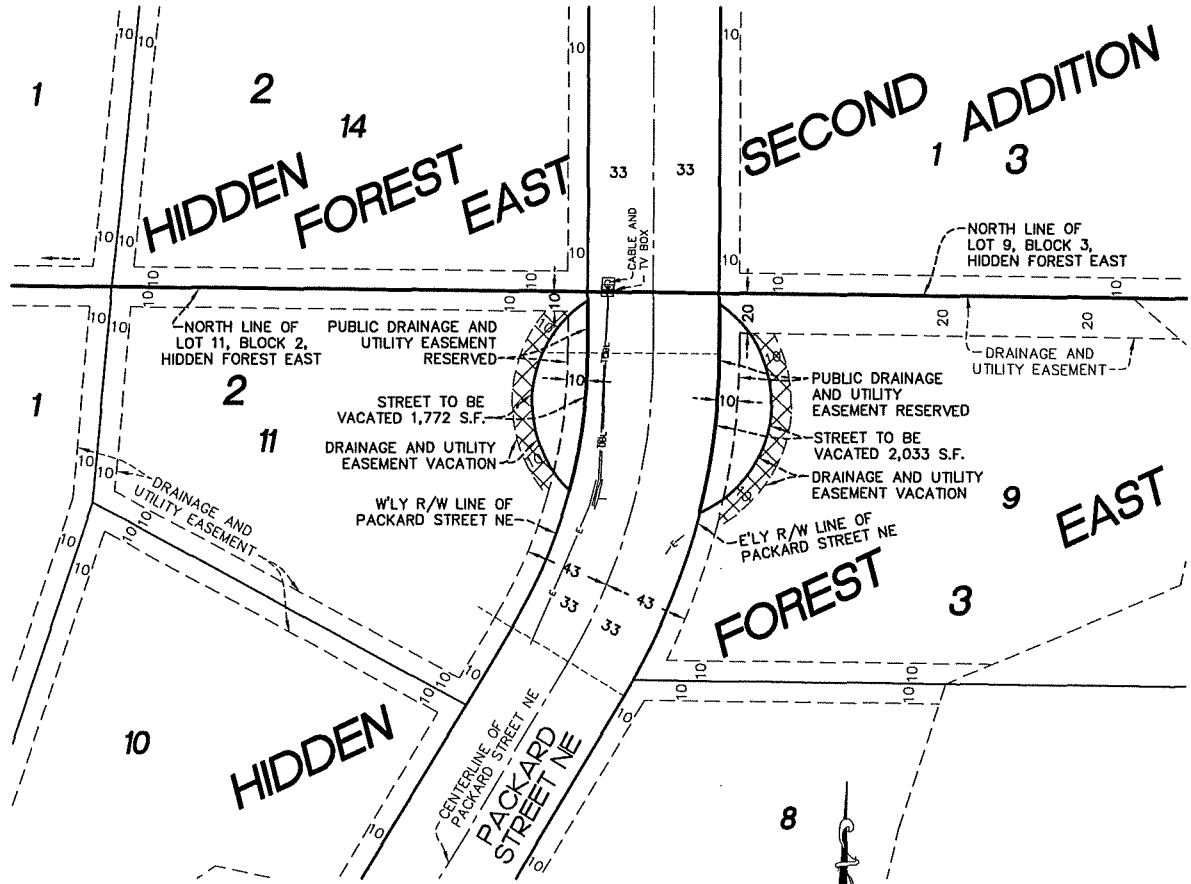
E.G. RUD & SONS, INC.

Professional Land Surveyors
 6776 Lake Drive NE, Suite 110
 Lino Lakes, MN 55014
 Tel. (651) 361-8200 Fax (651) 361-8701

www.egrud.com

SKETCH AND DESCRIPTION

~for~ HFN PROPERTIES, LLC
 ~of~ PACKARD STREET N.E. DRAINAGE
 AND UTILITY EASEMENT VACATION



NOTE

- Field survey was completed by E.G. Rud and Sons, Inc. on 12/18/2023.
- Location of utilities existing on or serving the surveyed property determined by:
 - * Observed evidence collected pursuant to Section 5.E.iv.
 - * Markings requested by E.G. Rud & Sons, Inc. per Gopher State One Call Ticket No. 233460050.
- Excavations were not made during the process of this survey to locate underground utilities and/or structures. The location of underground utilities and/or structures may vary from locations shown hereon and additional underground utilities and/or structures may be encountered. Contact Gopher State One Call Notification Center at (651) 454-0002 for verification of utility type and field location, prior to excavation.
- See Sketch and Description prepared by E.G. Rud & Sons, Inc. dated 02/19/2024 for proposed street vacations.

NORTH LEGEND

- DENOTES CABLE PEDESTAL
- DENOTES TELEPHONE PEDESTAL
- DENOTES UNDERGROUND ELECTRIC LINE
- DENOTES UNDERGROUND GAS LINE
- DENOTES UNDERGROUND CABLE LINE
- DENOTES UNDERGROUND TELEPHONE LINE
- DRAINAGE AND UTILITY EASEMENT VACATION AREA

DRAINAGE AND UTILITY EASEMENT VACATION DESCRIPTION FOR LOT 11, BLOCK 2, HIDDEN FOREST EAST

All of the drainage and utility easements as created and dedicated over, under, and across Lot 11, Block 2, HIDDEN FOREST EAST, according to the recorded plat thereof, Anoka County, Minnesota, lying parallel with, adjacent to, and distant 10.00 feet westerly of the westerly right of way line of Packard Street NE, as created and dedicated in said plat.

EXCEPT those parts lying easterly of a line parallel with and distant 43.00 feet westerly of the centerline of said Packard Street NE.

ALSO EXCEPT that part embraced within the north 10.00 feet of said Lot 11, Block 2.

DRAINAGE AND UTILITY EASEMENT VACATION DESCRIPTION FOR LOT 9, BLOCK 3, HIDDEN FOREST EAST

All of the drainage and utility easements as created and dedicated over, under, and across Lot 9, Block 3, HIDDEN FOREST EAST, according to the recorded plat thereof, Anoka County, Minnesota, lying parallel with, adjacent to, and distant 10.00 feet easterly of the easterly right of way line of Packard Street NE, as created and dedicated in said plat.

EXCEPT those parts lying westerly of a line parallel with and distant 43.00 feet easterly of the centerline of said Packard Street NE.

ALSO EXCEPT that part embraced within the north 20.00 feet of said Lot 9, Block 3.

Location: HAM LAKE

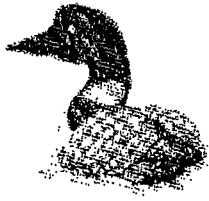
Scale 1"= 60' | Drawn By: JEN | Project Manager: MMD | Job No.: 16045PP

○ Denotes Iron Set | ● Denotes Iron Found | Bearings shown are on Anoka County Coordinate System.

I hereby certify that this plan, survey or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota. Dated this 19th day of February, 2024.

License No. 41578

E.G. RUD & SONS, INC.
 Professional Land Surveyors
 6776 Lake Drive NE, Suite 110
 Lino Lakes, MN 55014
 Tel. (651) 381-8200 Fax (651) 381-8701



CITY OF HAM LAKE

STAFF REPORT

To: Mayor and Councilmembers

From: Angela Brumbaugh, Finance/Human Resource Director

Subject: Liability Coverage Waiver Form

Introduction/Discussion:

The City Council must decide each year if they wish to not waive the statutory tort liability limits. In the past, the Council has decided not to waive the statutory tort limits which means an individual claimant could recover no more than \$500,000 per claim or \$1,500,000 total for all claimants for a single occurrence.

If the Council chose to waive the limits, a claimant could recover up to \$2,000,000 for one claim.

Recommendations:

I recommend the City not waive the monetary limits on municipal tort liability established by Minnesota Statutes § 466.04.



LIABILITY COVERAGE WAIVER FORM

Members who obtain liability coverage through the League of Minnesota Cities Insurance Trust (LMCIT) must complete and return this form to LMCIT before their effective date of coverage. Email completed form to your city's underwriter, to pstech@lmc.org, or fax to 651.281.1298.

Members who obtain liability coverage from LMCIT must decide whether to waive the statutory tort liability limits to the extent of the coverage purchased. The decision to waive or not waive the statutory tort limits must be made annually by the member's governing body, in consultation with its attorney if necessary. The decision has the following effects:

- If the member does not waive the statutory tort limits, an individual claimant could recover no more than \$500,000 on any claim to which the statutory tort limits apply. The total all claimants could recover for a single occurrence to which the statutory tort limits apply would be limited to \$1,500,000. These statutory tort limits would apply regardless of whether the member purchases the optional LMCIT excess liability coverage.
If the member waives the statutory tort limits and does not purchase excess liability coverage, a single claimant could recover up to \$2,000,000 for a single occurrence (under the waive option, the tort cap liability limits are only waived to the extent of the member's liability coverage limits, and the LMCIT per occurrence limit is \$2,000,000). The total all claimants could recover for a single occurrence to which the statutory tort limits apply would also be limited to \$2,000,000, regardless of the number of claimants.
If the member waives the statutory tort limits and purchases excess liability coverage, a single claimant could potentially recover an amount up to the limit of the coverage purchased. The total all claimants could recover for a single occurrence to which the statutory tort limits apply would also be limited to the amount of coverage purchased, regardless of the number of claimants.

Claims to which the statutory municipal tort limits do not apply are not affected by this decision.

LMCIT Member Name: City of Ham Lake

Check one:

The member DOES NOT WAIVE the monetary limits on municipal tort liability established by Minn. Stat. § 466.04.

The member WAIVES the monetary limits on municipal tort liability established by Minn. Stat. § 466.04, to the extent of the limits of the liability coverage obtained from LMCIT.

Date of member's governing body meeting: March 4, 2024

Signature:

Position: Mayor

Dawnette Shimek

From: ✓Brenda Reiner <queenwannab@comcast.net>
Sent: Wednesday, February 28, 2024 8:09 AM
To: Dawnette Shimek
Subject: Re: Charter Commission terms expiring

You don't often get email from queenwannab@comcast.net. [Learn why this is important](#)

Caution: This email originated outside our organization; please use caution.

Good Morning Dawnette- I hope you are doing well and enjoying this winter weather (except for today). Yes I am interested in another 4 year term. Those 4 years sure do go quick! Have a wonderful Wednesday!

Brenda :-)

On 02/28/2024 7:52 AM CST Dawnette Shimek <dshimek@ci.ham-lake.mn.us> wrote:

Good Morning,

We have four terms expiring on the charter commission:

Tara Lanigan

David Ross

Brenda Reiner

Al Stauffacher

Let me know asap if you are interested in another 4 year term on the Charter Commission. I look forward to hearing from you!

Thanks!!!

Dawnette Shimek

Dawnette Shimek

From: ✓ Stauffacher@comcast.net
Sent: Wednesday, February 28, 2024 8:08 PM
To: Dawnette Shimek
Subject: Re: Charter Commission terms expiring

You don't often get email from stauffacher@comcast.net. [Learn why this is important](#)

Caution: This email originated outside our organization; please use caution.

Hi Dawnette

Yes-I would be willing to serve another 4-year term. Is our meeting this year on March 27th?

thanks
Al

On 02/28/2024 7:43 AM CST Dawnette Shimek <dshimek@ci.ham-lake.mn.us> wrote:

Good Morning,

We have four terms expiring on the charter commission:

Tara Lanigan

David Ross

Brenda Reiner

Al Stauffacher

Let me know asap if you are interested in another 4 year term on the Charter Commission. I look forward to hearing from you!

Thanks!!!

Dawnette Shimek

Dawnette Shimek

From: ✓David Ross <rossduluth@icloud.com>
Sent: Wednesday, February 28, 2024 1:04 PM
To: Dawnette Shimek
Subject: Re: Charter Commission terms expiring

You don't often get email from rossduluth@icloud.com. [Learn why this is important](#)

Caution: This email originated outside our organization; please use caution.

Dawnette,

It is an honor and a privilege to serve on the Charter Commission. I greatly appreciate the opportunity to serve on the Commission.

Therefore, I am highly motivated to continue my service on the Commission.

Please know that I wish to, and am prepared to, serve another four year term on the Commission.

Yours in service to the beautiful City of Ham Lake,

David Ross

Sent from my iPhone

On Feb 28, 2024, at 7:43 AM, Dawnette Shimek <DShimek@ci.ham-lake.mn.us> wrote:

Good Morning,

We have four terms expiring on the charter commission:

Tara Lanigan
David Ross
Brenda Reiner
Al Stauffacher

Let me know asap if you are interested in another 4 year term on the Charter Commission. I look forward to hearing from you!

Thanks!!!

Dawnette Shimek
Deputy City Clerk
Direct Phone Number 763-235-1673
Email Address: dshimek@ci.ham-lake.mn.us



Ham Lake City Hall – 15544 Central Avenue NE, Ham Lake, MN 55304

Dawnette Shimek

From: ✓ Tara Lanigan <ta4466@gmail.com>
Sent: Wednesday, February 28, 2024 1:40 PM
To: Dawnette Shimek
Subject: Re: Charter Commission terms expiring

You don't often get email from ta4466@gmail.com. [Learn why this is important](#)

Caution: This email originated outside our organization; please use caution.

Good afternoon,

I am still interested in serving on the charter commission.

Please let me know if you need anything.

Thanks! Tara Lanigan

Sent from my iPhone

On Feb 28, 2024, at 7:43 AM, Dawnette Shimek <DShimek@ci.ham-lake.mn.us> wrote:

Good Morning,

We have four terms expiring on the charter commission:

Tara Lanigan
David Ross
Brenda Reiner
Al Stauffacher

Let me know asap if you are interested in another 4 year term on the Charter Commission. I look forward to hearing from you!

Thanks!!!

Dawnette Shimek
Deputy City Clerk
Direct Phone Number 763-235-1673
Email Address: dshimek@ci.ham-lake.mn.us


<image001.png>

Ham Lake City Hall – 15544 Central Avenue NE, Ham Lake, MN 55304
Hours: Monday through Thursday 7:00 am to 4:30 pm; and Friday 7:00 am to 11:00 am

Memorandum

Date: February 29, 2024

To: Mayor and Councilmembers

From: David A. Krugler, City Engineer 

Subject: Request for Funding - Trunk Highway 65 East Frontage Road from 171st Avenue to 334 feet south of Crosstown Boulevard

Introduction:

Ham Lake's representative Congressman Emmer has requested projects for potential Fiscal Year (FY) 2025 Community Project Funding appropriations legislation for projects within the 6th District.

Discussion:

The improvements to the East Frontage Road are planned to begin late spring of 2024. The improvement will extend Baltimore Street from 171st Avenue to 173rd Lane, 173rd Lane from Baltimore Street to Chisholm Street and Chisholm Street from 173rd Lane to 334 feet south of Crosstown Boulevard. The City already received grants from MnDOT with the Local Participation Program (\$710,000) and from the Coon Creek Watershed District Cost Share Program (\$25,000). Construction costs are also reimbursable to the City using the Housing and Redevelopment Authority funding and MnDOT State Aid funding.

The FY 2025 Community Project Funding grant application will include the attached aerial photo layout. The pond locations are finalized and the design is complete. Congressman Emmer is able to submit up to 15 projects from District #6. The maximum amount for any one project is \$10 million. FY 2025 operates from October 2024 thru September 2025. Per discussions with an Emmer aid there is no restriction with regards to the multiple funding sources already in place. Multiple funding sources actually aids our request as they look favorably on projects that have already secured grant money as being a worthy project. If successful in obtaining Community Project Funding grant funding, notification is anticipated this summer and grant funding will be available between December 2024 and March 2025. The only restriction on the funding is that it is spent within one-year after paperwork is finalized and there is no restriction that construction cannot commence prior to the December date. It is proposed to request Community Project Funding in the amount of \$900,000.

Part of the submittal is providing a resolution of support in applying for the federal grant funding. The FY 2025 Community Project Funding application deadline is March 11th.

Recommendation:

It is recommended that the Council adopt the attached Resolution and that the Mayor signs the attached letter of recommendation.

March 4, 2024

The Honorable Tom Emmer
United States House of Representatives
315 Cannon House Office Building
Washington, DC 20515

Re: Trunk Highway 65 East Frontage Road – FY 2025 Community Project Funding

Dear Representative Emmer:

The City of Ham Lake requests your support for our request for \$900,000 in Community Project Funding for the East Frontage Road located along Trunk Highway (TH) 65 North of 171st Avenue. This project will add a connection that will complete one of the two missing frontage road segments between 169th Avenue and Viking Boulevard (CSAH 22). The addition of the frontage road will improve local traffic circulation and bicycle/pedestrian access and safety across and along the corridor, while at the same time providing the ability for new economic development.

The community's vision for the TH 65 corridor is one of improved vehicle mobility, greater safety and access. The current TH 65 corridor configuration creates a significant barrier within our community, dividing our residents living on the east side from the goods, services, and employment on the west side. It has been a constant impediment for public safety such as Police, Fire and Ambulance services to quickly respond as needed through our community. The project, which will combine federal, state and local funds, will address these issues and significantly improve the lives of the citizens of Ham Lake as well as our visitors.

We would greatly appreciate your support for our Community Project Funding request, and we thank you for all of your hard work and dedication on our behalf in Washington.

Sincerely,

Brian Kirkham
Mayor City of Ham Lake

RESOLUTION NO. 24-XX

A RESOLUTION AUTHORIZING SUBMITTAL OF A FEDERAL FUNDING APPLICATION FOR THE TRUNK HIGHWAY 65 EAST FRONTAGE ROAD FROM 171ST AVENUE NE TO 334 FEET SOUTH OF CROSSTOWN BOULEVARD NE (CSAH 18)

WHEREAS, Minnesota Trunk Highway 65 is a principal arterial route that provides an important north-south transportation connection in Anoka County, and,

WHEREAS, traffic volumes on Minnesota Trunk Highway 65 have been increasing over the past decade and are expected to continue to increase in the future as the cities in and around the roadway continue to grow, and,

WHEREAS, existing and future traffic volumes are such that safety is a concern at intersections and along some segments of the corridor, and,

WHEREAS, existing and future traffic volumes are such that congestion is and will continue to negatively impact the ability of the corridor to move traffic, and

WHEREAS, the Minnesota Department of Transportation has identified this corridor as needing safety and capacity improvements, and,

WHEREAS, the Minnesota Department of Transportation and the City of Ham Lake have worked together in the past to make capacity and safety improvements to other segments of Trunk Highway 65 to serve long-term growth and development along the corridor, and,

WHEREAS, The City of Ham Lake has already received funding for the Trunk Highway 65 East Frontage Road north of 171st Avenue NE from the MnDOT Local Participation Program, the Coon Creek Watershed Cost Share Program, and from the Housing and Redevelopment Authority, and,

WHEREAS, The Trunk Highway 65 East Frontage Road north of 171st Avenue NE is also known as the Crosstown Business Park, and,

NOW THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF HAM LAKE, MINNESOTA:

Such improvement is necessary, cost-effective, and feasible as detailed in the feasibility report.

That the City of Ham Lake supports preparing and submitting an application for East Frontage Road to the FY 2025 Community Project Funding

Adopted by the Ham Lake City Council this 4th day of March, 2024


Brian Kirkham, Mayor

Denise Webster, City Clerk

Memorandum

Date: February 29, 2024

To: Mayor and Councilmembers

From: David A Krugler, City Engineer 

Subject: Trunk Highway 65 East Frontage Road from 171st Avenue to 334 feet South of Crosstown Boulevard (CSAH 18)

Introduction:

The Trunk Highway 65 East Frontage Road from 171st Avenue to 334 feet south of Crosstown Boulevard (CSAH 18) is planned to commence late spring, with completion next construction season. A permit with the Coon Creek Watershed District (CCWD) has been applied for and approved. The permit comes with conditions such as treating the site runoff for Total Suspended Solids (TSS), runoff volume control that leaves the site and infiltrating site runoff where possible.

Discussion:

In addition to the minimum requirements required for a CCWD permit, the CCWD offers additional funding for projects that implement additional water treatment practices to increase the amount and quality of the runoff being treated. The CCWD's Water Quality Cost Share Program has \$215,000 available in grant funds to award projects within the District that go above and beyond the minimum permit requirements. An application for the East Frontage Road was submitted to the CCWD's Water Quality Cost Share Program. The East Frontage Road was selected by CCWD Board of Managers to be awarded \$25,000 in grant funds to install oversized storm ponds with the construction of the East Frontage Road.

Recommendation:

It is recommended that the attached Water Quality Cost-Share Agreement be approved.

**COON CREEK WATERSHED DISTRICT
WATER QUALITY COST-SHARE AGREEMENT**

This Agreement is entered into _____, 2024 (Effective Date), by the Coon Creek Watershed District, a metropolitan watershed district and political subdivision of the State of Minnesota (District), and the City of Ham Lake, a Minnesota municipal corporation (City).

RECITALS

A. The District and the City share a common interest in water-resource protection and improving water quality within the City of Ham Lake and the Coon Creek Watershed District.

B. The City intends to undertake a water quality improvement project in conjunction with a planned road construction project: oversizing the stormwater ponds designed to treat runoff from Trunk Highway 65 East Frontage Road from 171st Avenue to Chisholm Street and future development of nine commercial lots along this roadway (Project). The City has designed these stormwater ponds and associated sumps to maximum storage volume and total suspended solids and phosphorus removal.

C. The City has applied to the District for a permit for this Project, Permit Application No. P-23-032, and has submitted to the District accompanying plans and specifications for its construction.

D. The water quality treatment features of the above City Project will improve water quality within the City and the Coon Creek Watershed District by reducing sediment and phosphorus loading to Coon Creek.

E. The City has applied to the District for cost-share assistance in implementing this Project.

F. The District under its Water Quality Cost-Share Program desires to provide the City cost-share assistance for the above water-quality improvement features, as more particularly set forth below.

THEREFORE, in consideration of mutual promises set forth below and other good and valuable consideration, the District and City agree as follows:

1. Scope of Work.

The City will provide for the planning, engineering, construction and construction administration of the Project as set forth in the City's Grant Application attached as Exhibit A. The City will construct the Project in accordance with the District's permit requirements and approved plans and specifications submitted with CCWD Permit Application No. P-23-032. The City is responsible for obtaining all required permits and approvals, and for complying with all applicable laws in constructing and implementing this Project. The City will ensure that future development of the nine commercial lots is performed in a manner consistent with the

information provided in the City's Grant Application attached as Exhibit A. Minor changes in Project design that maintain the same or greater level of water quality treatment are allowable by amending this Agreement with both parties' written mutual consent.

2. Project Completion.

The City will complete the above Project by December 31, 2025, unless this Agreement is amended by the parties' written mutual consent to reschedule the work and funding.

3. Cost-Share Funds.

To defray the Project costs to the City, the District will provide the City cost-share assistance up to the total amount of \$25,000.

4. Terms of Payment.

The District upon the Effective Date of this Agreement will disburse to the City 80% of the Project's above cost-share amount.

On District receipt of the certification of completion and review of such Project documentation as it may require, including invoices and receipts documenting Project costs, the District will disburse to the City the remaining District approved cost-share funds.

The City is to provide the District as-built records, an operations and maintenance plan, and documentation of pollution reductions achieved in accordance with the stated water quality outcomes included in Exhibit A.

5. Term of Agreement; Survival of Terms; Incorporation of Exhibits.

This Agreement will be effective on _____, 2024, and will expire on December 31, 2025, or when all obligations have been satisfactorily fulfilled, whichever occurs first.

All clauses which impose obligations continuing in their nature and which must survive in order to give effect to their meaning will survive the expiration or termination of this Agreement, including, without limitation, the following clause: 7(E) Government Data Practices.

Exhibit A is attached and incorporated by reference.

6. Contingencies.

The District's obligation to provide cost-share funds is contingent on the City's compliance with the terms of this Agreement, including but not limited to Project completion in accordance with the District-approved plans and specifications, by the December 31, 2025 completion date. The City will return to the District any cost-share funds already received if this condition is not satisfied.

7. Miscellaneous.

A. Relationship of Parties. Nothing in this Agreement creates or establishes a partnership, joint venture or agency relationship between the parties. District review or approval of design plans and specifications, and any other Project-related documents is solely for the District's own accounting for funds expended. As between the parties, the City is solely responsible for selection of the Project design and the means, method and manner of construction. Nothing in this Agreement creates a right in any third-party or affects any immunity, defense or liability limitation enjoyed by either party.

B. Employees. The City represents that it has or will secure, at its own expense, all personnel and/or contractors required for the performance of this Agreement. No City personnel or contractor will be considered an agent, representative or employee of the District.

C. Assignment or Modification. This Agreement binds and inures to the benefit of the City and the District, and their respective successors and assigns. Neither party may assign this Agreement without the prior written consent of the other. Any modification of the Agreement must be in writing and signed by both parties.

D. Notices. Any notice provided under this Agreement will be sent by certified mail, return receipt requested, or by personal service at the following address:

City of Ham Lake
13635 Johnson Street NE
Ham Lake, MN 55304

Coon Creek Watershed District
13632 Van Buren Street NE
Ham Lake, MN 55304

E. Government Data Practices Act. The District and City will comply with the Minnesota Government Data Practices Act, Minnesota Statutes Chapter 13, as amended, as it applies to all data created, collected, received, stored, used, maintained or disseminated by the District or the City under this Agreement.

F. Recitals. The Recitals stated above are incorporated as part of this Agreement.

COON CREEK WATERSHED DISTRICT:

CITY OF HAM LAKE:

By _____
President, Board of Managers

By _____
Mayor

Dated: _____

Dated: _____

By _____
City Manager

Dated: _____

Exhibit A



Coon Creek Watershed District
 13632 Van Buren St NE
 Ham Lake, MN 55304
 763.755.0975

CCWD Water Quality Cost Share Program Grant Application- Water Quality Improvement Projects & Practices Category

Applicant Information	
Name, Title	Tom Collins, City Engineer
Organization	City of Ham Lake
Address	13635 Johnson St. NE Ham Lake, MN 55304
Email	tcollins@rfcengineering.com
Phone	763-862-8000

Project Information- <i>Be clear & concise; attach additional pages if necessary</i>	
Title	TH 65 East Frontage Road Construction from 171st Avenue to Chisholm Street
Brief Description <i>What?</i> <i>Where?</i> <i>Why?</i>	The project involves the construction of a new 0.47-mile-long frontage road paralleling the east side of Trunk Highway 65 in Ham Lake running from the intersection of 171st Avenue and Baltimore Street to 334 feet South of the intersection of Crosstown Boulevard (County State Aid Highway 18) and Chisholm Street. The street will be 14.5-foot bituminous driving lanes with concrete curb and gutter. There will be four new storm ponds constructed with the project, along with the addition of storm sewer across the site. All four storm ponds will be over-sized prior to the development of the surrounding area. The storm ponds are over-sized to provide additional dead and live storage for both pre-development and post-development of the area, along with maximizing TSS and phosphorus removal. After the surrounding area is developed, it is estimated that Pond 2 and Pond 4 will still remain over-sized. Pond 1 will be too close to the pond design requirements for live and dead storage to be considered over-sized post-development. An ultimate Pond 3 shall be designed/constructed by the future site developer to meet ponding requirements for a fully developed site; therefore, this pond cannot be claimed as over-sized with its current design post-development. However, the site has been modeled as a fully developed site for all TSS and phosphorus removals.
Proposed Timeline	Start of construction will be in the spring of 2024, with all major work being completed by fall of 2024.
Water Quality Outcomes <i>Target pollutant/stressor(s)?</i> <i>Volume, Sediment, Nutrients, Bacteria, Habitat, Other</i> <i>Receiving waters?</i> *Please quantify reductions when possible & cite method	The main pollutants and stressors for the project include phosphorus, TSS and water volume. All treatment and control options within the site have not only been designed to meet the requirements of the proposed roadway. This includes increasing the size of the storm ponds to hold not only the runoff of the roadway, but also the runoff of the potential 9 future commercial lots along the roadway. The sumps that are being installed with the project have also been designed to treat the runoff of both the road and the future commercial lots. For the commercial lots a very conservative impervious area of 85% was used for modeling. Using SHSAM for the modeling of the TSS treatment by sumps, an overall TSS removal efficiency of 43.7% is achieved. The sumps release the excess TSS and water into storm ponds. Using MIDS to model the TSS and phosphorus removal within the ponds, an additional removal efficiency of 87% is achieved for TSS and a removal efficiency of 57% is achieved for phosphorus. An overall removal efficiency of 96% is achieved for TSS and a phosphorus removal efficiency of 57% is achieved for the new roadway and fully developed commercial lots. Water that leaves the storm ponds flow to adjacent wetlands that will further treat the water for phosphorus before the water leaves the site. The water volume control and pond sizing were designed to try and match existing conditions as closely as possible.

<p>Secondary Benefits <i>List any additional benefits (e.g., flood mitigation, public safety, reduced maintenance)</i></p>	<p>A secondary benefit of this project is to improve public safety along Trunk Highway 65. One condition of this project is to remove uncontrolled accesses along Trunk Highway 65 and direct the traffic to controlled accesses at 169th Avenue and at CSAH 18. The collected traffic on the frontage road and the increased spacing between access points on Trunk Highway 65 will be beneficial to both public safety and the level of service for Trunk Highway 65. The construction of the frontage road will also provide treatment to the current runoff from Jake's Auto Mall that is located within the middle of the project. The current untreated runoff flows directly into adjacent wetlands. The runoff will be treated for TSS and phosphorus with the proposed frontage road.</p>
<p>Notes <i>Please include any other relevant information</i> <i>If the project is subject to a District permit, describe how the proposed work goes above & beyond any permit requirements</i></p>	<p>This project is subject to a District permit. The District permit number is 23-32. Per the permit application requirements, a minimum TSS removal efficiency of 80% is required. An overall TSS removal efficiency of 96% is achieved with the combination of sumps and storm ponds. The storm ponds also treat phosphorus, which is not a requirement on the permit, resulting in a removal efficiency of 57%. The storm ponds have been designed to handle additional runoff volume. This is done by providing both additional dead storage and live storage of the storm ponds. Of the combined volume of the four proposed storm ponds, the ponds provide two to eight times the amount of dead storage required by the standard design requirements for storm ponds. The storm ponds also provide between three to twelve times the amount of live storage that is required by the standard design requirements for storm ponds.</p>
<p>Total Estimated Project Cost</p>	<p>\$ 2,429,272.64</p>
<p>Total Amount Requested (cannot exceed 50% of total cost)</p>	<p>\$ 75,000.00</p>


<p>Signature</p>	<p><i>Thomas P. Collins</i></p>
<p>Date</p>	<p><i>1/23/24</i></p>

Note: Application is considered incomplete without signature. Please attach concept design, calculations, photos, or other related documents as needed

Memorandum

Date: February 29, 2023

To: Mayor and Councilmembers

From: David A. Krugler, City Engineer 

Subject: County Ditch #58 cross culverts under 152nd Avenue

Introduction:

The twin 72-inch corrugated metal pipes (CMPs) installing in 1994 with the Brook View Meadows subdivision have been separating and need to be replaced.

Discussion:

The Coon Creek Watershed District performed an analysis of the culverts to ensure the replacement culvert causes no upstream flooding. The replacement size was determined to be either similar twin 72-inch culverts or one 10-foot-wide by 6-foot-tall concrete box culvert. The Public Works Superintendent and MnDOT has requested replacement of twin culverts with a single box culvert. This is due to the nature of maintenance for two culverts versus a single box culvert.

The bid form alternative between twin 72-inch culverts and a 10-foot by 6-foot box culvert discussed at the October 2, 2023 Council meeting has been removed. Plans and cost estimates have been prepared to install a single 10-foot by 6-foot box culvert. The current configuration meets MnDOT's bridge definition with an open span of 10 feet. State transportation funds are available for costs associated with bridge replacement, rehabilitation, or removal. MnDOT has reviewed the project and determined that all construction costs will be funded by the MnDOT Bridge Funding Program. Other project related costs such as surveying, engineering, attorney and temporary cul-de-sac easement acquisition are not eligible.

Negotiations with the adjacent property owner have nearly completed in obtaining temporary easement for a cul-de-sac on the southeast side of the culvert. Public Works will remove the topsoil and place an aggregate cul-de-sac to allow residents and other services to turn around. Removal and restoration of the temporary cul-de-sac will be completed by the contractor.

Recommendation:

Approve the Plans and authorize the advertisement for bids for the replacement of the twin culverts with a 10-foot by 6-foot box culvert at the County Ditch #58 under 152nd Avenue.

CONSTRUCTION COST ESTIMATE
COUNTY DITCH #58 CROSSING UNDER 152ND AVENUE
2/29/2024

ITEM NUMBER	ITEM DESCRIPTION	UNIT	EST QTY	UNIT PRICE	TOTAL
2021.501	MOBILIZATION	LUMP SUM	1	\$50,000.00	\$50,000.00
2101.505	CLEARING	ACRE	0.1	\$8,703.90	\$870.39
2101.505	GRUBBING	ACRE	0.1	\$4,201.90	\$420.19
2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	21	\$5.00	\$105.00
2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	57	\$3.00	\$171.00
2104.503	REMOVE PIPE CULVERTS	LIN FT	173	\$29.00	\$5,017.00
2104.503	REMOVE SILT FENCE	LIN FT	140	\$0.85	\$119.00
2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	20	\$12.30	\$246.00
2104.505	REMOVE BITUMINOUS PAVEMENT	SQ YD	175	\$2.50	\$437.50
2104.507	REMOVE AGGREGATE CLASS 5	CU YD	52	\$10.00	\$520.00
2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	57	\$5.55	\$316.35
2106.507	EXCAVATION - COMMON	CU YD	30	\$23.00	\$690.00
2106.507	GRANULAR EMBANKMENT (CV)	CU YD	430	\$15.00	\$6,450.00
2106.507	SELECT GRANULAR EMBANKMENT (CV)	CU YD	110	\$30.00	\$3,300.00
2211.501	AGGREGATE BASE CLASS 5	TON	40	\$14.50	\$580.00
2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (2;C)	TON	11	\$95.00	\$1,045.00
2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (2;C)	TON	21	\$82.00	\$1,722.00
2412.502	10X6 PRECAST CONCRETE BOX CULVERT END SECTION TYPE 1	EACH	1	\$27,000.00	\$27,000.00
2412.502	10X6 PRECAST CONCRETE BOX CULVERT END SECTION TYPE 3	EACH	1	\$37,500.00	\$37,500.00
2412.503	10X6 PRECAST CONCRETE BOX CULVERT	LIN FT	87	\$1,990.00	\$173,130.00
2531.504	4" CONCRETE DRIVEWAY PAVEMENT	SQ YD	20	\$100.00	\$2,000.00
2535.503	BITUMINOUS CURB	LIN FT	110	\$4.00	\$440.00
2563.601	TRAFFIC CONTROL	LUMP SUM	1	\$9,770.20	\$9,770.20
2573.501	STABILIZED CONSTRUCTION EXIT	LUMP SUM	1	\$4,403.60	\$4,403.60
2573.502	SILT FENCE, TYPE HEAVY DUTY	LIN FT	140	\$2.20	\$308.00
2573.502	STORM DRAIN INLET PROTECTION	EACH	2	\$180.00	\$360.00
2573.503	FLOTATION SILT CURTAIN TYPE MOVING WATER	LIN FT	50	\$25.00	\$1,250.00
2573.601	TEMPORARY EROSION CONTROL	LUMP SUM	1	\$5,208.30	\$5,208.30
2574.507	COMMON TOPSOIL BORROW	CU YD	60.1	\$31.30	\$1,881.13
2575.504	ROLLED EROSION PREVENTION CATEGORY 20	SQ YD	591	\$5.00	\$2,955.00
2575.605	TURF AND WETLAND ESTABLISHMENT	ACRE	0	\$6,938.50	\$2,775.40
	TOTAL ESTIMATED CONSTRUCTION COST				\$340,991.06
	PROJECT DEVELOPMENT, CONST ENGINEERING, AND INSPECTION (20%)				\$68,198.21
	TOTAL PROJECT COST				\$409,189.27

MINNESOTA DEPARTMENT OF TRANSPORTATION

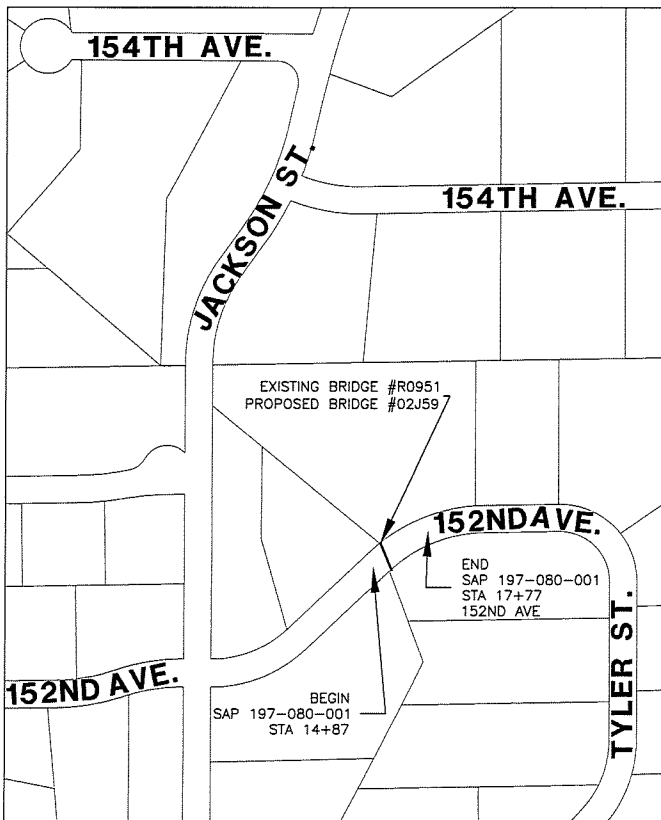
City of Ham Lake, Minnesota

CONSTRUCTION PLAN FOR GRADING, AGGREGATE BASE, PLANT MIXED BITUMINOUS SURFACE, DITCH CULVERT AND ASPHALT CURB

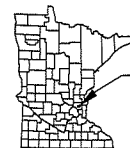
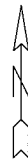
LOCATED ON 152ND AVENUE FROM 487 EAST OF JACKSON STREET TO 328 WEST OF TYLER STREET

HAM LAKE PROJECT NO. 2302.038

GROSS LENGTH	160 FEET	0.03 MILES
BRIDGES LENGTH	0 FEET	0 MILES
EXCEPTIONS LENGTH	0 FEET	0 MILES
NET LENGTH	160 FEET	0.03 MILES



ADT (2022)	100	ADT (2043)	150
Design Speed	30 MPH		
NO. OF TRAFFIC LANES	2	NO. OF PARKING LANES	0
FUNCTIONAL CLASSIFICATION	COLLECTOR, LOW DENSITY		
SOIL FACTOR	50%	HCA DT	<150
TON DESIGN	7 TON		
STOPPING SIGHT DISTANCE BASED ON:			
HEIGHT OF EYE	3.5'		
HEIGHT OF OBJECT	2.0'		
Design Speed not achieved at:			
STA.	N/A	TO STA.	N/A



PROJECT LOCATION
ANOKA COUNTY METRO DISTRICT

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MN MUTCD, INCLUDING FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

THE UTILITIES SHOWN ARE BASED UPON THE BEST INFORMATION AVAILABLE AND MAY NOT REFLECT THE ACTUAL EFFECTS ON THE UTILITIES BY CONSTRUCTION. ACTUAL DETERMINATIONS WILL BE MADE IN THE FIELD DURING CONSTRUCTION.

STATE AID PROJ. NO.	CHARGE	IDENTIFIER
.....
.....

GOVERNING SPECIFICATIONS
THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3-9	MNDOT STANDARD PLANS
10	PRECAST CONCRETE BARREL DETAIL
11-12	PRECAST CONCRETE END SECTION
13	EMBANKMENT FOR BOX CULVERTS
14-15	BOX CULVERT DETAILS
16	REMOVAL PLAN
17-18	BOX CULVERT PLAN AND PROFILE
19	STORMWATER POLLUTION PREVENTION PLAN

ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

THIS PLAN CONTAINS 19 SHEETS

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNED: David A. Krugler

DATE: REG. NO. 48768

APPROVED: DATE: CITY ENGINEER - HAM LAKE

PLAN SYMBOLS

---	EXISTING	CENTERLINE
---	PROPOSED	
---	EXISTING	RIGHT-OF-WAY LINE
---	PROPOSED	
---	CONSTRUCTION PERMANENT	EASEMENT LINE
---	LOT SECTION	PROPERTY LINE
---	CONSTRUCTION LIMITS CLEAR ZONE	
---	EXISTING CONTOURS	
---	PROPOSED CONTOURS	
---	EXISTING DITCH LINE	
---	PROPOSED DITCH LINE	
X X X	FENCE LINE - ANY TYPE	
○ ○ ○	SILT FENCE	
W W W	WETLAND BOUNDARY	
FF FF FF	FLOOD PLAIN	
○ ○ ○	EXISTING TREES (TO REMAIN)	
X BM	BENCH MARK / IRON MONUMENT	
⊙	LIGHT POLE / BOLLARD	
○	SOIL BORING	
□	BUILDING	
▨	PROPOSED RIPRAP	
MB	MAILBOX	
---	EXISTING SIGN	
---	PROPOSED SIGN	

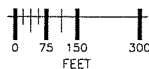
UTILITY SYMBOLS

---	GAS	GAS LINE
---	PETRO	PETROLEUM LINE
---	OHE	OVERHEAD ELECTRIC
---	UICE	UNDERGROUND ELECTRIC
---	T	UNDERGROUND TELEPHONE LINE
---	CATV	UNDERGROUND CABLE TV LINE
---	FC	PRIVATE UNDERGROUND FIBER OPTIC LINE
---	MNDOT FC	MNDOT UNDERGROUND FIBER OPTIC LINE
⊙	MANHOLE	TELEPHONE STRUCTURES
⊙	JUNC. BOX	ELECTRIC JUNC. BOX
⊙	JUNC. BOX	CABLE TV JUNC. BOX
⊙	JUNC. BOX	FIBER OPTIC STRUCTURES
---	EXISTING	POWER POLE AND GUY WIRE
---	EXISTING	STORM DRAIN LINE
---	PROPOSED	
---	EXISTING	FLARED END SECTION
---	PROPOSED	
---	EXISTING	CATCH BASIN
---	PROPOSED	
---	EXISTING	MANHOLE
---	PROPOSED	
---	EXISTING	WELL
---	PROPOSED	

HATCH LEGEND

---	BITUMINOUS	CONCRETE
---	EROSION CONTROL	HYDROMULCH
---	GRAVEL	CONCRETE
---	GRAVEL	BITUMINOUS

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY



RFC ENGINEERING, INC.

Consulting Engineers

13635 Johnson Street NE Telephone 763-862-8000
Ham Lake, MN 55304 Fax 763-862-8042

JOB NO. 2302.038 SHEET NO. 1 OF 19 SHEETS
FILE: 37-2-150

STATEMENT OF ESTIMATED QUANTITIES

NOTES	ITEM NO.	ITEM	UNIT	ENTIRE PROJECT	197-080-001	NON-PARTICIPATING
				ESTIMATED QUANTITIES	ESTIMATED QUANTITIES	ESTIMATED QUANTITIES
	2021.501	MOBILIZATION	LUMP SUM	1	1	
	2101.505	CLEARING	ACRE	0.1	0.1	
	2101.505	GRUBBING	ACRE	0.1	0.1	
	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	21	21	
	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	57	57	
	2104.503	REMOVE PIPE CULVERTS	LIN FT	173	173	
	2104.503	REMOVE SILT FENCE	LIN FT	140	140	
	2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	20	20	
5	2104.505	REMOVE BITUMINOUS PAVEMENT	SQ YD	175	175	
7	2104.507	REMOVE AGGREGATE CLASS 5	CU YD	52	52	
	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	57	57	
3	2108.507	EXCAVATION - COMMON	CU YD	30	30	
	2108.507	GRANULAR EMBANKMENT (CV)	CU YD	430	430	
	2108.507	SELECT GRANULAR EMBANKMENT (CV)	CU YD	110	110	
	2211.501	AGGREGATE BASE CLASS 5	TON	40	40	
	2380.509	TYPE SP 6.5 WEARING COURSE MIXTURE (2C)	TON	11	11	
	2380.509	TYPE SP 12.5 WEARING COURSE MIXTURE (2C)	TON	21	21	
1	2412.502	10X6 PRECAST CONCRETE BOX CULVERT END SECTION TYPE 1	EACH	1	1	
1	2412.502	10X6 PRECAST CONCRETE BOX CULVERT END SECTION TYPE 3	EACH	1	1	
1	2412.503	10X6 PRECAST CONCRETE BOX CULVERT	LIN FT	87	87	
	2531.504	14" CONCRETE DRIVEWAY PAVEMENT	SQ YD	20	20	
	2535.503	BITUMINOUS CURB	LIN FT	110	110	
6	2563.601	TRAFFIC CONTROL	LUMP SUM	1	1	
6	2573.501	STABILIZED CONSTRUCTION EXIT	LUMP SUM	1	1	
6	2573.502	SILT FENCE, TYPE HEAVY DUTY	LIN FT	140	140	
6	2573.502	STORM DRAIN INLET PROTECTION	EACH	2	2	
6	2573.503	FLOTATION SILT CURTAIN TYPE MOVING WATER	LIN FT	50	50	
	2573.601	TEMPORARY EROSION CONTROL	LUMP SUM	1	1	
2	2574.507	COMMON TOPSOIL BORROW	CU YD	60	60	
	2575.504	ROLLED EROSION PREVENTION CATEGORY 20	SQ YD	591	591	
2	2575.605	TURF AND WETLAND ESTABLISHMENT	ACRE	0.4	0.4	

PLATE NO.	STANDARD PLATES - RFC ENGINEERING (IN THE PLANS)
RFC-654A	BOX CULVERT BEDDING AND PLASTIC SOIL CAP
RFC-363A1	PRIVATE DRIVEWAY/FIELD ENTRANCE

BASIS FOR ESTIMATED QUANTITIES

AGGREGATE BASE 105 LBS/S.Y./INCH
 BITUMINOUS MIXTURE 110 LBS/S.Y./INCH
 TRUCK COAT 0.05 GAL./S.Y.
 TYPE 1 OR 3 MULCH 2 TONS/ACRE

NOTES:

- SELECT GRANULAR BORROW, STRUCTURAL EXCAVATION, AND GRANULAR BACKFILL FOR STORM PIPES ARE INCIDENTAL.
- ALL DISTURBED AREAS DETERMINED NOT TO BE PAVED, AGGREGATE SURFACE, CONCRETE SURFACE OR RIPRAPPED SHALL HAVE 4 INCHES OF TOPSOIL, FERTILIZER TYPE 2, MULCH MATERIAL TYPE 1 OR 3, AND SEED MIXTURE NO. 34-261 PER MHDOT STANDARD SPECIFICATION 3B76. APPLY TYPE 1 OR 3 MULCH AT THE RATE OF 2 (TWO) TONS PER ACRE (TO ACHIEVE A 90% UNIFORM GROUND COVERAGE). SEED MIXTURE, WATER, TYPE 2 FERTILIZER, TYPE 1 OR 3 MULCH, AND DISK ANCHORING ARE INCIDENTAL. SOIL TESTING TO DETERMINE FERTILIZER MIXTURE RATIO AND RATE OF APPLICATION IS INCIDENTAL.
- MATERIAL FOUND IN THE SUBCUTS THAT IS UNSUITABLE FOR FILL IN THE ROADBED SHALL BE REMOVED OFF-SITE.
- THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE CONSTRUCTION LIMITS.
- AVERAGE DEPTH OF EXISTING BITUMINOUS PAVEMENT IS 4.9".
- INSTALLATION AND MAINTENANCE ARE INCIDENTAL.
- TEMPORARY CUL-DE-SAC TO BE REMAIN UNTIL AFTER CLASS 5 FOR ROADWAY HAS BEEN INSTALLED.

DATE _____ REVISION HISTORY _____
 I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 DATE _____ REG. NO. _____

RFC ENGINEERING, INC.
 Consulting Engineers

13635 Johnson Street
 Horn Lake, MN 55304
 Telephone 763-862-8000
 Fax 763-862-8042

SAP - 197-080-001
 COUNTY DITCH #58 CROSS CULVERT
 STATEMENT OF ESTIMATED QUANTITIES

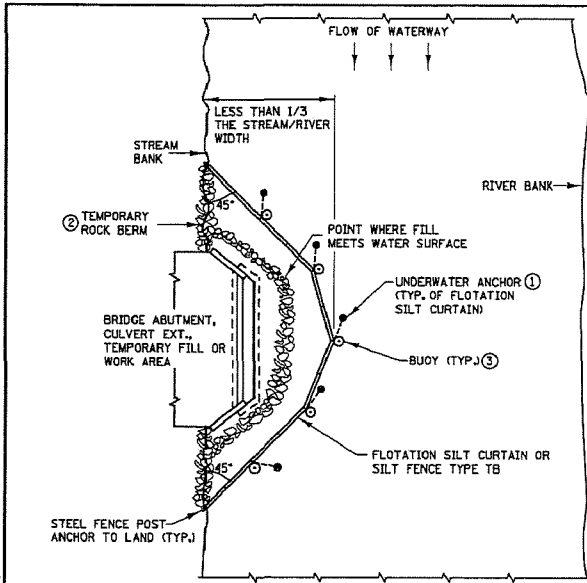
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 DATE: 02/16/24
 JOB NUMBER: 2302.038
 SHEET: 2 OF 19
 FILE: 37-2-151



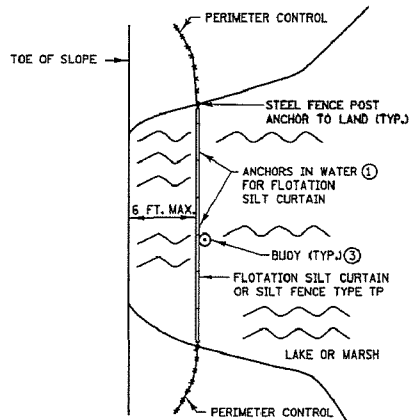
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UTILITIES: CENTURYLINK (763) 712-5017
 CENTERPOINT ENERGY (763) 323-2760
 COMCAST (952) 607-4078
 CONNEXUS ENERGY (763) 323-4268
 XCEL ENERGY (612) 528-4508

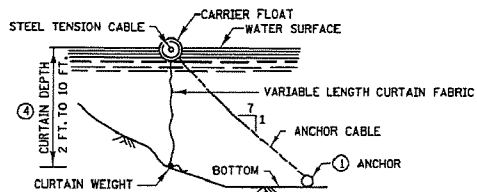
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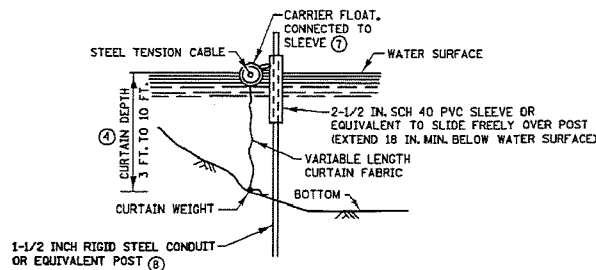
PLAN VIEW FOR STREAM ⑤



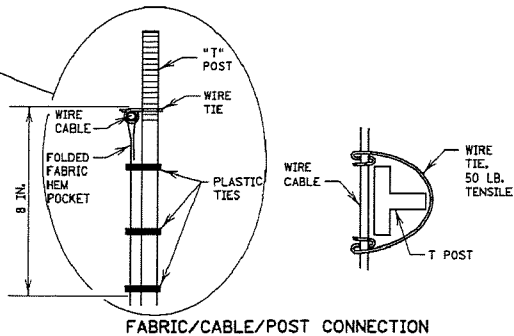
PLAN VIEW FOR LAKE OR MARSH ⑤



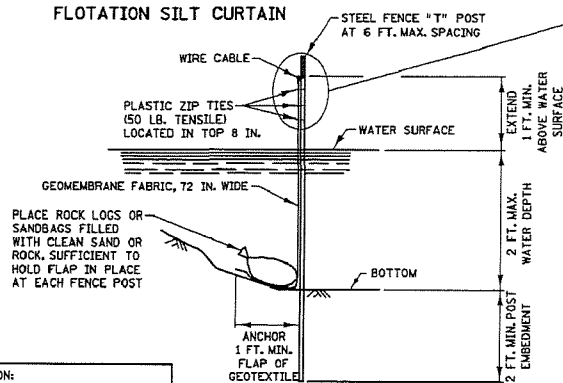
FLOTATION SILT CURTAIN



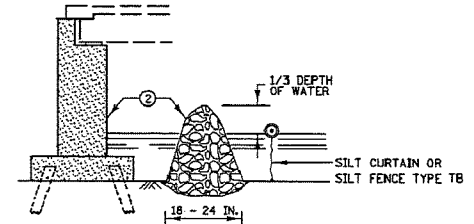
ALTERNATE FLOTATION SILT CURTAIN



FABRIC/CABLE/POST CONNECTION



SILT FENCE TYPE TB ⑥



TEMPORARY ROCK BERM FOR SEDIMENT CONTROL

INSTALLATION GUIDELINES SILT FENCE TYPE TB

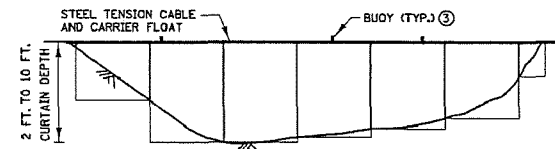
MINIMUM WATER DEPTH: 1 FT.
 MAXIMUM WATER DEPTH: 3 FT.
 MAXIMUM WATER VELOCITY: 5 FT./SEC.

INSTALLATION GUIDELINES FLOTATION SILT CURTAIN TYPE: STILL WATER

MINIMUM WATER DEPTH: 3 FT.
 MAXIMUM WATER DEPTH: 10 FT.
 MAXIMUM WATER VELOCITY: 2 FT./SEC.
 MAXIMUM WAVE HEIGHT: 1 FT.

INSTALLATION GUIDELINES FLOTATION SILT CURTAIN TYPE: MOVING WATER

MINIMUM WATER DEPTH: 3 FT.
 MAXIMUM WATER DEPTH: 10 FT.
 MAXIMUM WATER VELOCITY: 5 FT./SEC.
 MAXIMUM WAVE HEIGHT: 2 FT.



FRONT VIEW FOR FLOTATION SILT CURTAIN

NOTES:

- ① SEE SPECS. 2573, 3886, 3887 & 3893.
- ② FOR ANCHOR SPACING AND WEIGHT REQUIREMENTS, SEE SPEC. 2573.
- ③ IN AREAS WHERE THE PLAN CALLS FOR RIPRAP AT A BRIDGE, CULVERT, OR SLOPE, A TEMPORARY ROCK BERM CONSTRUCTED FROM THE RIPRAP CAN BE USED TO PROVIDE ADDITIONAL PROTECTION. WHEN THE WORK IS COMPLETE THE RIPRAP CAN THEN BE MOVED TO THE PERMANENT LOCATION INDICATED IN THE PLANS. THE TEMPORARY ROCK BERM IS INCIDENTAL.
- ④ ON U.S. COAST GUARD OR OTHER MOTORIZED WATERWAYS, BUOYS ARE REQUIRED TO MARK THE ENDS AND SPECIAL AREAS FOR VISIBILITY. PLACE BUOYS AS REQUIRED FOR NAVIGATIONAL PURPOSES.
- ⑤ MINIMUM WATER DEPTH APPLIES TO THE DEEPEST POINT ALONG THE FLOTATION SILT CURTAIN OR SILT FENCE TYPE TB FOR DETERMINING APPLICABILITY OF FLOTATION SILT CURTAIN OR SILT FENCE TYPE TB.
- ⑥ SILT CURTAIN SHOULD BE REMOVED WHEN THE AREA CONTRIBUTING DIRECT RUNOFF HAS BEEN TEMPORARILY OR PERMANENTLY STABILIZED. SILT CURTAIN SHOULD ALSO BE REMOVED BEFORE WINTER IF ICE UP OR ICE FLOW IS ANTICIPATED.
- ⑦ EMBED POST INTO BOTTOM A MINIMUM OF 40% OF THE WATER DEPTH (INCLUDING WAVE HEIGHT), BUT IN NO CASE SHALL EMBEDMENT BE LESS THAN 2 FEET.
- ⑧ ANCHOR FLOAT MUST BE CONNECTED SECURELY TO SLEEVE WITH A MINIMUM TENSILE STRENGTH OF 100 LBS. CONNECTION METHOD MUST ALLOW FOR SLEEVE TO MOVE FREELY ON POST.
- ⑨ PROVIDE SUFFICIENT NUMBER OF POST ANCHORS TO MAINTAIN SILT CURTAIN POSITION.

REVISION:
 APPROVED: 2-28-2017
 Chief Environmental Officer



STANDARD PLAN 5-297.405 | 1 OF 8

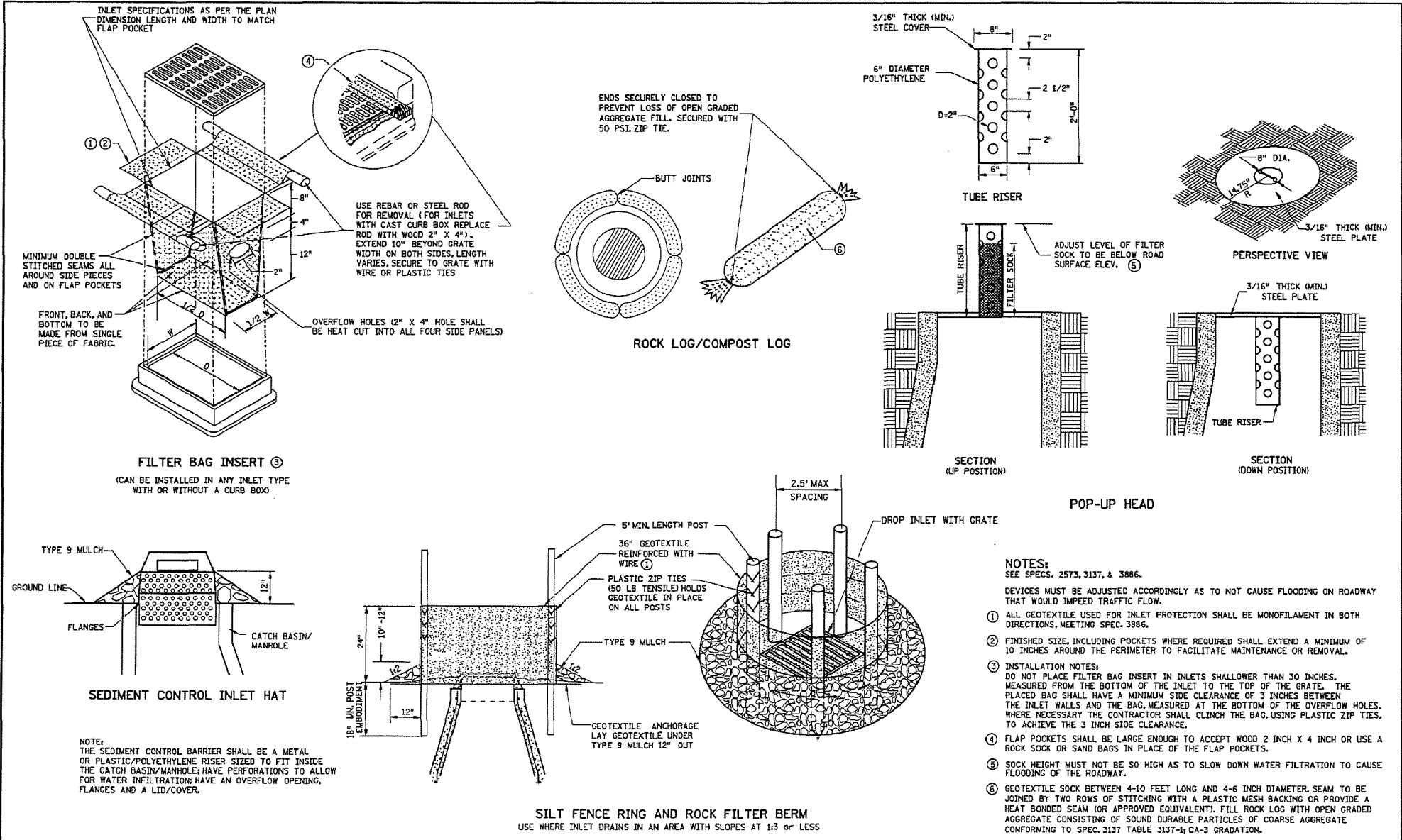
APPROVED: 2-28-2017
 REVISION:
 STATE DESIGN ENGINEER

STATE PROJ. NO.

TEMPORARY SEDIMENT CONTROL

SILT CURTAIN OR SILT FENCE TYPE TB

(T.H.) SHEET NO. 3 OF 19 SHEETS



- NOTES:**
SEE SPECS. 2573, 3137, & 3886.
- DEVICES MUST BE ADJUSTED ACCORDINGLY AS TO NOT CAUSE FLOODING ON ROADWAY THAT WOULD IMPEDE TRAFFIC FLOW.
- ① ALL GEOTEXTILE USED FOR INLET PROTECTION SHALL BE MONOFILAMENT IN BOTH DIRECTIONS, MEETING SPEC. 3886.
 - ② FINISHED SIZE, INCLUDING POCKETS WHERE REQUIRED SHALL EXTEND A MINIMUM OF 10 INCHES AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
 - ③ INSTALLATION NOTES:
DO NOT PLACE FILTER BAG INSERT IN INLETS SHALLOWER THAN 30 INCHES. MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. THE PLACED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE OF 3 INCHES BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES. WHERE NECESSARY THE CONTRACTOR SHALL CLINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3 INCH SIDE CLEARANCE.
 - ④ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2 INCH X 4 INCH OR USE A ROCK SOCK OR SAND BAGS IN PLACE OF THE FLAP POCKETS.
 - ⑤ SOCK HEIGHT MUST NOT BE SO HIGH AS TO SLOW DOWN WATER FILTRATION TO CAUSE FLOODING OF THE ROADWAY.
 - ⑥ GEOTEXTILE SOCK BETWEEN 4-10 FEET LONG AND 4-6 INCH DIAMETER. SEAM TO BE JOINED BY TWO ROWS OF STITCHING WITH A PLASTIC MESH BACKING OR PROVIDE A HEAT BONDED SEAM (OR APPROVED EQUIVALENT). FILL ROCK LOG WITH OPEN GRADED AGGREGATE CONSISTING OF SOUND DURABLE PARTICLES OF COARSE AGGREGATE CONFORMING TO SPEC. 3137 TABLE 3137-1; CA-3 GRADATION.

REVISION:
APPROVED: 2-28-2017
[Signature]
CHIEF ENVIRONMENTAL OFFICER

m MINNESOTA
DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.405 | 4 OF 8

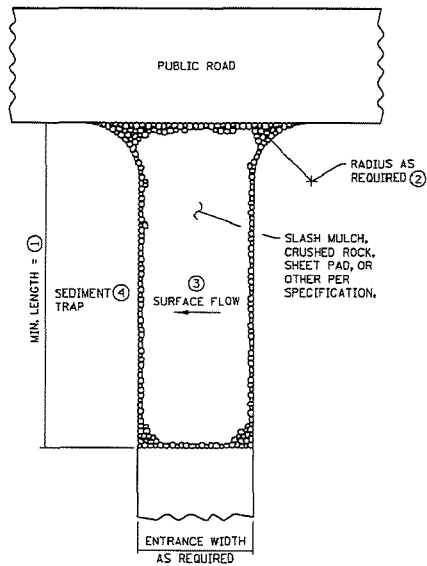
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STATE DESIGN ENGINEER

APPROVED: 2-28-2017
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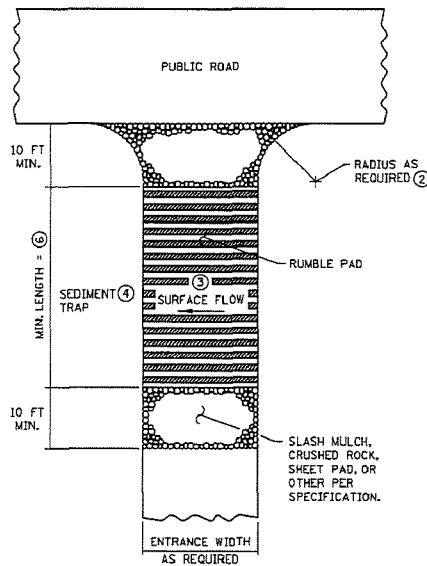
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TEMPORARY SEDIMENT CONTROL
STORM DRAIN INLET PROTECTION

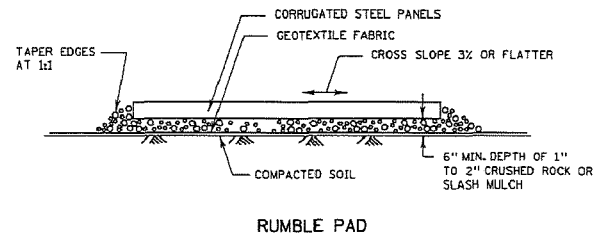
(T.H.) SHEET NO. 4 OF 19 SHEETS



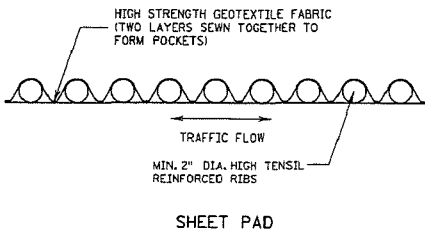
SLASH MULCH, CRUSHED ROCK, OR SHEET PAD CONSTRUCTION EXIT ⑤⑦



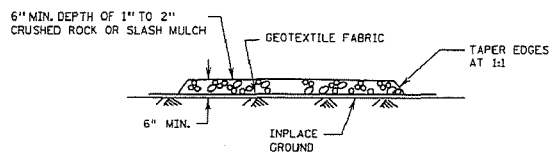
RUMBLE PAD CONSTRUCTION EXIT ⑥⑦



RUMBLE PAD



SHEET PAD



SLASH MULCH OR CRUSHED ROCK

NOTES:

SEE SPECS. 2573 & 3882.

- ① MINIMUM LENGTH SHALL BE THE GREATER OF 50 FEET OR A LENGTH SUFFICIENT TO ALLOW A MINIMUM OF 5 TIRE ROTATIONS ON THE PROVIDED PAD. MINIMUM LENGTH SHALL BE CALCULATED USING THE LARGEST TIRE WHICH WILL BE USED IN TYPICAL OPERATIONS.
- ② PROVIDE RADIUS OR WIDEN PAD SUFFICIENTLY TO PREVENT VEHICLE TIRES FROM TRACKING OFF OF PAD WHEN LEAVING SITE.
- ③ IF RUNOFF FROM DISTURBED AREAS FLOWS TOWARD CONSTRUCTION EXITS, PREVENT RUNOFF FROM DRAINING DIRECTLY TO PUBLIC ROAD OVER CONSTRUCTION EXIT BY CROWNING THE EXIT OR SLOPING TO ONE SIDE. IF SURFACE GRADING IS INSUFFICIENT, PROVIDE OTHER MEANS OF INTERCEPTING RUNOFF.
- ④ IF RUNOFF FROM CONSTRUCTION EXITS WILL DRAIN OFF OF PROJECT SITE, PROVIDE SEDIMENT TRAP WITH STABILIZED OVERFLOW.
- ⑤ IF A TIRE WASH OFF IS REQUIRED THE CONSTRUCTION EXITS SHALL BE GRADED TO DRAIN THE WASH WATER TO A SEDIMENT TRAP.
- ⑥ MINIMUM LENGTH OF RUMBLE PAD SHALL BE 20 FEET, OR AS REQUIRED TO REMOVE SEDIMENT FROM TIRES. IF SIGNIFICANT SEDIMENT IS TRACKED FROM THE SITE, THE RUMBLE PAD SHALL BE LENGTHENED OR THE DESIGN MODIFIED TO PROVIDE ADDITIONAL VIBRATION. WASH-OFF LENGTH SHALL BE AS REQUIRED TO EFFECTIVELY REMOVE CONSTRUCTION SEDIMENT FROM VEHICLE TIRES.
- ⑦ MAINTENANCE OF CONSTRUCTION EXITS SHALL OCCUR WHEN THE EFFECTIVENESS OF SEDIMENT REMOVAL HAS BEEN REDUCED. MAINTENANCE SHALL CONSIST OF REMOVING SEDIMENT AND CLEANING THE MATERIALS OR PLACING ADDITIONAL MATERIAL (SLASH MULCH OR CRUSHED ROCK) OVER SEDIMENT FILLED MATERIAL TO RESTORE EFFECTIVENESS.

REVISION:
 APPROVED: 2-28-2017
[Signature]
 CHIEF ENVIRONMENTAL OFFICER



STANDARD PLAN 5-297.405 5 OF 8

DEPARTMENT OF TRANSPORTATION
[Signature]
 STATE DESIGN ENGINEER

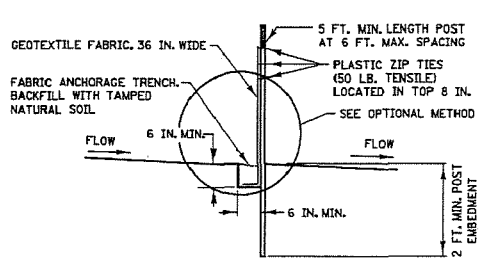
APPROVED: 2-28-2017
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STATE PROJ. NO.

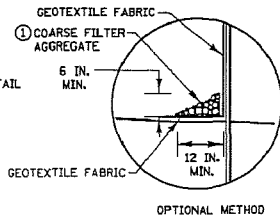
TEMPORARY SEDIMENT CONTROL

STABILIZED CONSTRUCTION EXIT

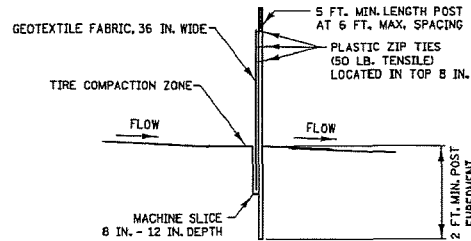
(T.H.) SHEET NO. 5 OF 19 SHEETS



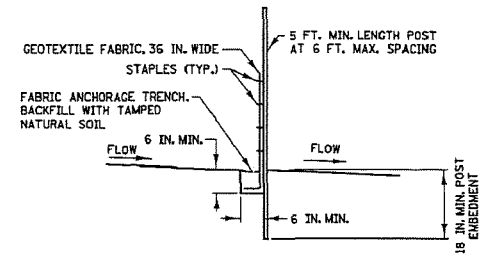
SILTS FENCE TYPE HI ②
(HAND INSTALLED)



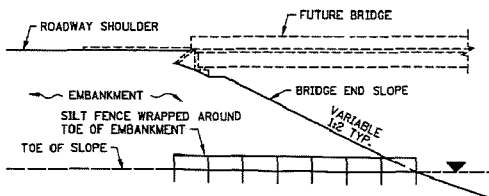
OPTIONAL METHOD



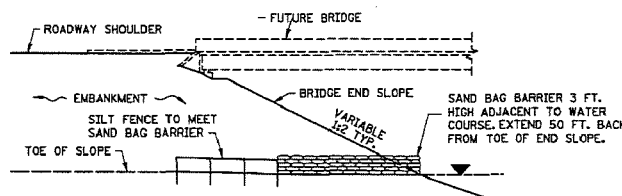
SILTS FENCE TYPE MS ②
(MACHINE SLICED)



SILTS FENCE TYPE PA ③
(PREASSEMBLED)

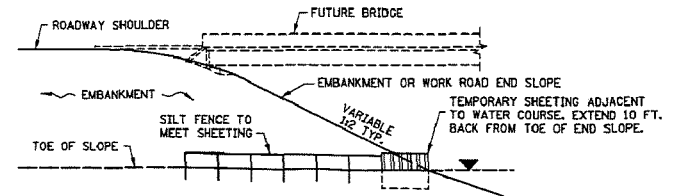


SILTS FENCE ONLY ④

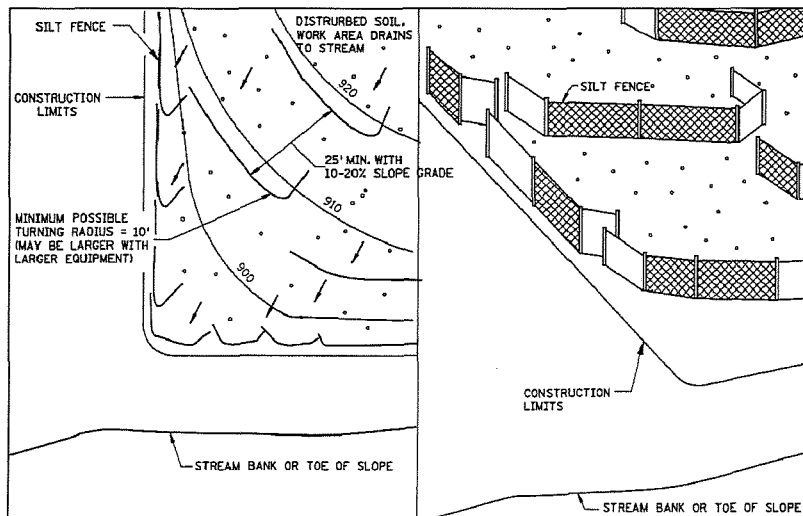


SILTS FENCE WITH SAND BAGS ⑤

INSTALLATION AT BRIDGE EMBANKMENT ADJACENT TO WATER



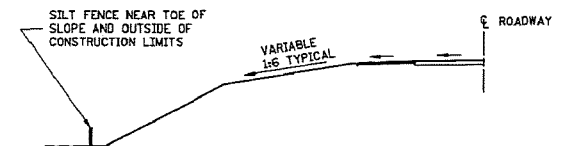
SILTS FENCE WITH SHEETING ⑥



PLAN VIEW

PERSPECTIVE VIEW

J-HOOK INSTALLATION



LOCATION AT TOE OF ROADWAY EMBANKMENT

NOTES:

- SEE SPECS. 2573, 3149 & 3886.
- ① COARSE FILTER AGGREGATE (SPEC. 3149) SHALL BE INCIDENTAL.
- ② TO PROTECT AREAS FROM SHEET FLOW, MAXIMUM CONTRIBUTING AREA: 1 ACRE.
- ③ TO PROTECT AREAS FROM SHEET FLOW, MAXIMUM CONTRIBUTING AREA: 0.25 ACRE.
- ④ WATER COURSE FLOW VELOCITY: STANDING. CONTRIBUTING SLOPE AREA: 1/2 ACRE.
- ⑤ WATER COURSE FLOW VELOCITY: 1 TO 7 FT./SEC. CONTRIBUTING SLOPE AREA: 1 ACRE.
- ⑥ WATER COURSE FLOW VELOCITY: 8 TO 15 FT./SEC. CONTRIBUTING SLOPE AREA: 3 ACRES.

REVISION:
APPROVED: 2-28-2017
[Signature]
GEO ENVIRONMENTAL OFFICER

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MINNESOTA
DEPARTMENT
OF
TRANSPORTATION

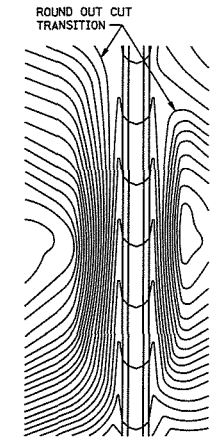
STANDARD PLAN 5-297.405 | 6 OF 8
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APPROVED: 2-28-2017
REVISED:
STATE PROJ. NO.

TEMPORARY SEDIMENT CONTROL
SILTS FENCE

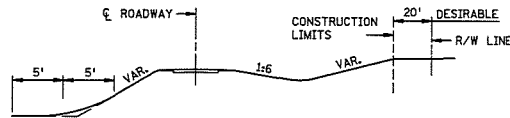
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PLOTTED/REVISED: 4-APR-2018

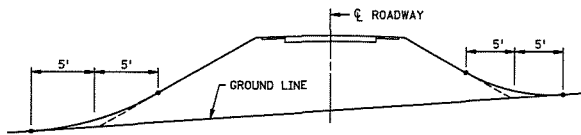
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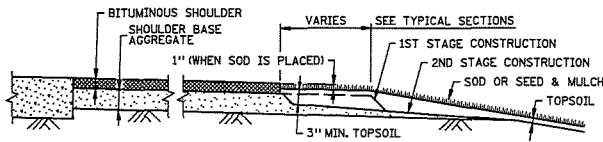
CONTOURING ROAD CUTS



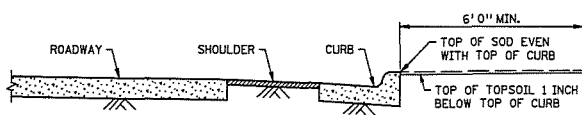
ROUNDING SHOULDERS AND BACKSLOPES



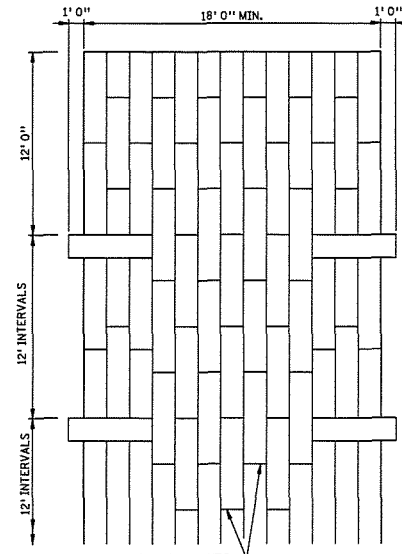
SHAPING FOR DRAINAGE ALONG THE TOE OF FILL SLOPES



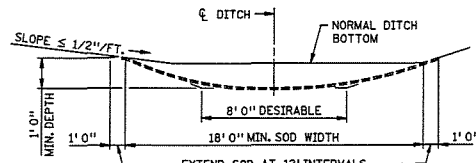
SHAPING AND TOPSOILING INSLOPES



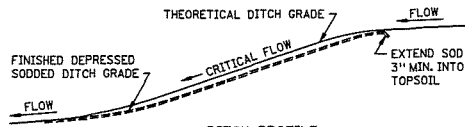
SHAPING ADJACENT TO CURBS WHEN SOD IS PLACED



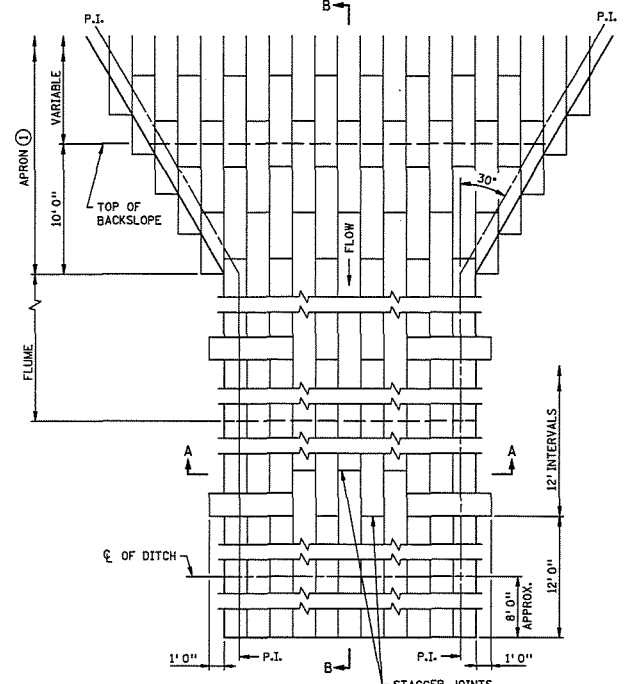
STAGGER JOINTS
PLAN VIEW



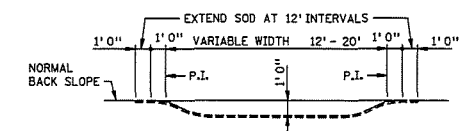
SODDED DITCH CROSS SECTION
WHERE FRONT OR BACK SLOPE IS FLAT (LESS THAN 1/2"/FT.),
FIRST NOTCH DITCH AND THEN PROVIDE ROUNDING.



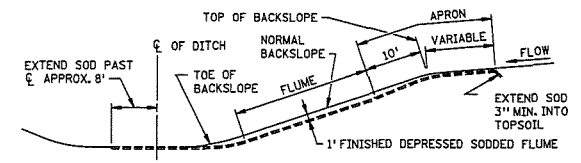
DITCH PROFILE
SODDED DITCH DETAILS



PLAN VIEW



SECTION A-A



SECTION B-B
SODDED FLUME DETAILS

NOTES:
SEE SPEC. 2575.3 FOR ADDITIONAL INFORMATION.
① CONSTRUCT TAPER AS DIRECTED BY THE ENGINEER.

REVISION:
APPROVED: 2-28-2017
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CHIEF ENVIRONMENTAL OFFICER

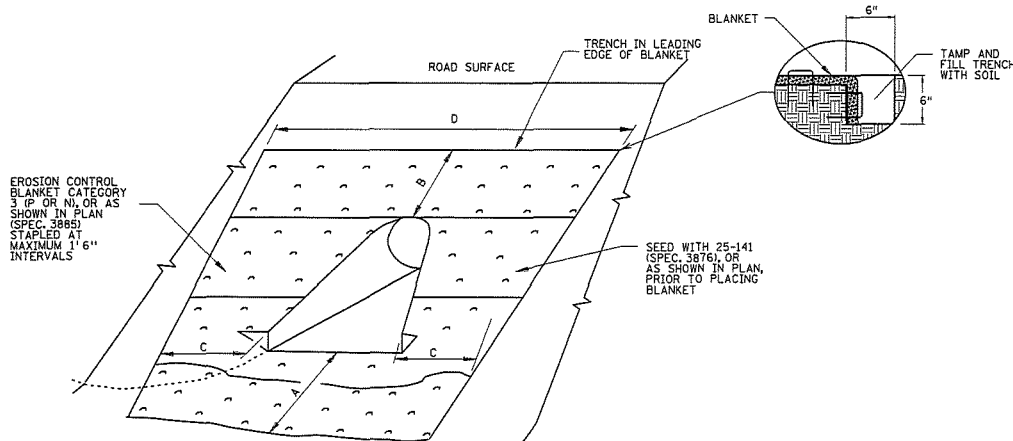
S.A.P. 197-124-004 S.P. 0208-143 (TH 65)

m MINNESOTA DEPARTMENT OF TRANSPORTATION
STANDARD PLAN 5-297.404 1 OF 3
[Signature] STATE DESIGN ENGINEER
APPROVED: 2-28-2017
REVISED:

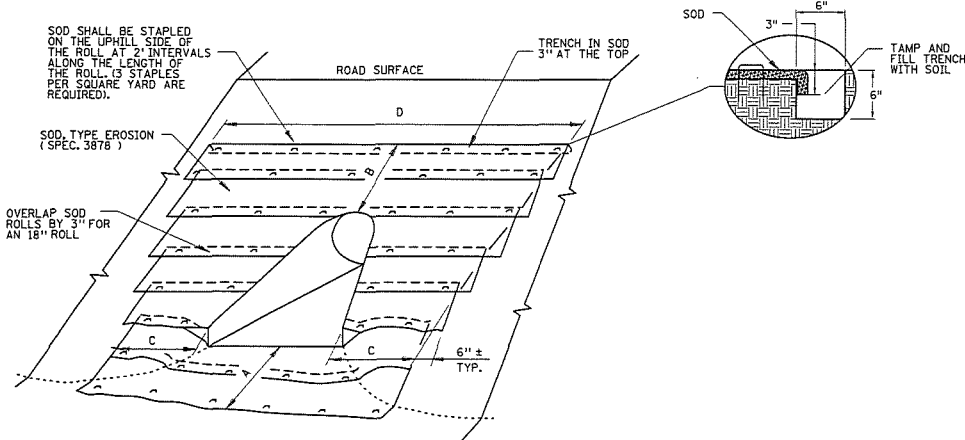
PERMANENT EROSION CONTROL
ALONG ROADWAYS, DITCHES AND FLUMES
(T.H.) SHEET NO. 7 OF 19 SHEETS

PLOTTED/REVISED: 4-APR-2018

PATH & FILENAME: OTS\DesignStandards\Development\Borden\400_Series\404_2_spm.dgn



EROSION CONTROL BLANKET & SEED DETAIL



SODDING DETAIL

CULVERT DIAMETER ②	SOD OR EROSION CONTROL BLANKET (SQ. YDS.)						"A"	"B"	"C"	"D"
	CIRCULAR AND ARCH PIPE METAL APRON (PLATE 3123)	CIRCULAR AND ARCH PIPE CONCRETE APRON (PLATE 3100, PLATE 3110)	CIRCULAR AND ARCH PIPE METAL SAFETY APRON (PLATE 3148)	CIRCULAR AND ARCH PIPE METAL SAFETY APRON (PLATE 3148)	CIRCULAR CORRUGATED METAL PIPE SAFETY APRON (PLATE 3128)	CIRCULAR CORRUGATED METAL PIPE SAFETY APRON (PLATE 3128)				
15"	9	9	8	8	N/A	N/A	3'	1.5'	3'	13'
18"	13	12	12	14	16	N/A	3'	3'	3'	16'
21"	14	14	14	16	18	14	3'	3'	3'	17'
24"	16	15	16	19	21	17	3'	3'	3'	18'
27"	N/A	20	N/A	N/A	N/A	N/A	3'	4.5'	3'	20'
30"	23	22	25	30	32	N/A	3'	4.5'	3'	22'
36"	34	34	39	48	51	37	4.5'	4.5'	4.5'	27'
42"	43	40	51	64	N/A	N/A	4.5'	6'	4.5'	30'
48"	54	50	66	82	N/A	N/A	4.5'	7.5'	4.5'	34'
54"	65	58	81	102	N/A	N/A	4.5'	9'	4.5'	37'
60"	69	59	91	115	N/A	N/A	4.5'	9'	4.5'	39'
66"	69	63	N/A	N/A	N/A	N/A	4.5'	9'	4.5'	39'
72"	78	72	99	122	N/A	N/A	4.5'	10.5'	4.5'	41'

CULVERT DIAMETER ②	SOD OR EROSION CONTROL BLANKET (SQ. YDS.)						"A"	"B"	"C"	"D"
	CIRCULAR AND ARCH PIPE METAL APRON (PLATE 3123)	CIRCULAR AND ARCH PIPE CONCRETE APRON (PLATE 3100, PLATE 3110)	CIRCULAR AND ARCH PIPE METAL SAFETY APRON (PLATE 3148)	CIRCULAR AND ARCH PIPE METAL SAFETY APRON (PLATE 3148)	CIRCULAR CORRUGATED METAL PIPE SAFETY APRON (PLATE 3128)	CIRCULAR CORRUGATED METAL PIPE SAFETY APRON (PLATE 3128)				
15"	10	10	9	10	N/A	N/A	4.5'	1.5'	3'	13'
18"	13	13	12	14	15	N/A	6'	1.5'	3'	14'
21"	16	14	16	18	19	15	6'	1.5'	3'	15'
24"	18	18	18	21	22	18	7.5'	1.5'	3'	16'
27"	N/A	19	N/A	N/A	N/A	N/A	7.5'	1.5'	3'	17'
30"	23	23	24	28	29	N/A	9'	1.5'	3'	18'
36"	36	35	38	47	48	37	10.5'	1.5'	4.5'	23'
42"	43	40	47	58	N/A	N/A	12'	1.5'	4.5'	25'
48"	50	46	57	70	N/A	N/A	13.5'	1.5'	4.5'	27'
54"	57	50	67	84	N/A	N/A	15'	1.5'	4.5'	29'
60"	74	63	90	113	N/A	N/A	16.5'	1.5'	6'	33'
66"	75	67	N/A	N/A	N/A	N/A	16.5'	1.5'	6'	33'
72"	77	70	92	114	N/A	N/A	16.5'	1.5'	6'	34'

NOTES:

- AREA SHOWN IN SQUARE YARDS IS FOR ONE CULVERT END.
- QUANTITIES ARE CALCULATED TO INCLUDE SOD REQUIRED TO PROVIDE A 3" OVERLAP ON ALL 18" WIDE ROLLS. THIS ALLOWS FOR SHRINKAGE OF THE SOD.
- FOR PIPE ARCHES USE EQUIVALENT PIPE DIAMETER TO APPROXIMATE AREA.
- FOR CORRUGATED POLYETHYLENE PIPE METAL APRON (PLATE 3129), USE THE METAL APRON COLUMN (PLATE 3123).
- AREAS AND DIMENSIONS ARE APPROXIMATE AND ARE BASED ON APRON SIDE SLOPES OF NO STEEPER THAN 1:2, UNLESS INDICATED AS FOR SAFETY APRONS.
- CARE SHOULD BE TAKEN IN SELECTING SOD TO STABILIZE THE APRON. RIP-RAP SHOULD BE USED FOR FLOW VELOCITIES GREATER THAN 6 FPS.

- ① ADDITIONAL QUANTITIES MAY BE SHOWN IN THE PLAN OR REQUIRED BY THE ENGINEER.
- ② FOR ARCH PIPE USE CLOSEST CIRCULAR PIPE DIAMETER AND APRON SLOPE. (DIAMETERS LARGER THAN 72" REQUIRE SPECIAL DESIGNS.)

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APPROVED: 2-28-2017
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STANDARD PLAN 5-297.404 2 OF 3
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APPROVED: 2-28-2017
REVISED:
STATE DESIGN ENGINEER

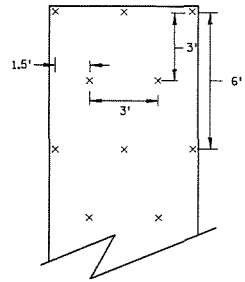
PERMANENT EROSION CONTROL
TURF ESTABLISHMENT DETAIL AT CULVERT ENDS

S.A.P. 197-124-004 S.P. 0208-143 (TH 65)

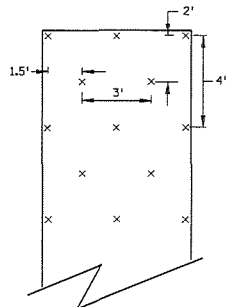
STATE PROJ. NO. (T.H.) SHEET NO. g OF 19 SHEETS

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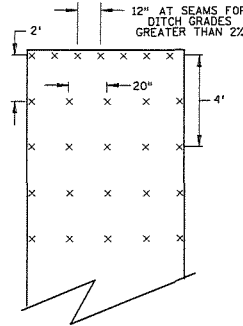
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SLOPES FLATTER THAN 1:2
(120 STAPLES PER 100 SQ YD)

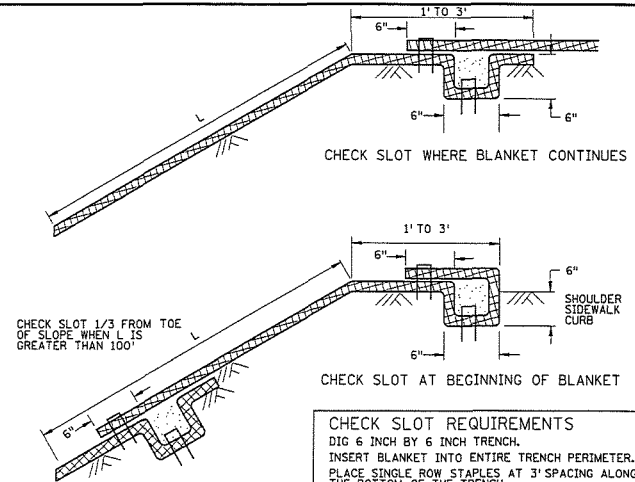


SLOPES 1:2 TO 1:1
(170 STAPLES PER 100 SQ YD)



CHANNEL AND DITCH APPLICATIONS
(350 STAPLES PER 100 SQ YD)

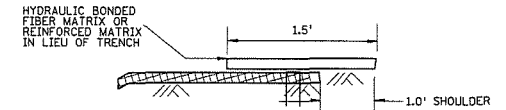
BLANKET STAPLE PATTERN



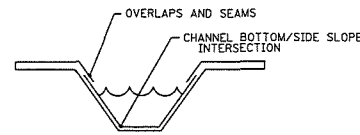
CHECK SLOT WHERE BLANKET CONTINUES

CHECK SLOT AT BEGINNING OF BLANKET

CHECK SLOT REQUIREMENTS
DIG 6 INCH BY 6 INCH TRENCH.
INSERT BLANKET INTO ENTIRE TRENCH PERIMETER.
PLACE SINGLE ROW STAPLES AT 3' SPACING ALONG THE BOTTOM OF THE TRENCH.
BACKFILL TRENCH WITH SOIL AND TAMP.
PLACE SINGLE ROW STAPLES AT 3' SPACING ON OVERLAP.



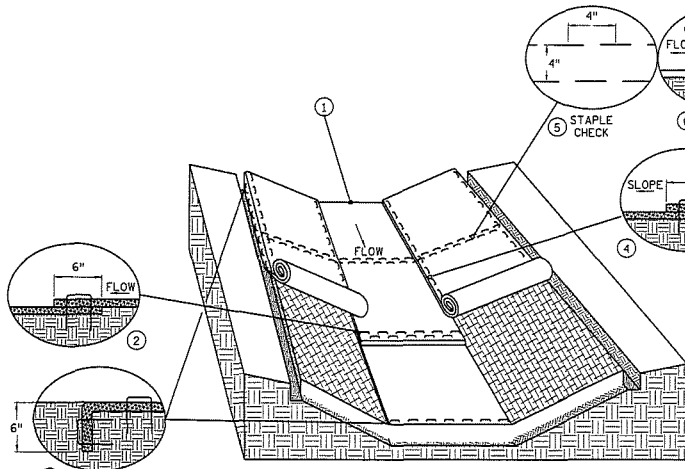
CHECK SLOT ALTERNATIVE
PLACE SINGLE ROW STAPLES AT 12\"/>



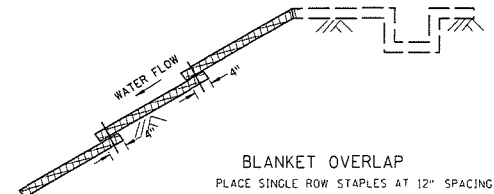
DITCH BLANKET CRITICAL POINTS ⑦

DITCH BLANKET STAPLE DETAIL NOTES

- ① USE CHECK SLOT DETAIL (NO ALTERNATES).
- ② PLACE DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER.
- ③ USE 6" X 6" TRENCH TO PLACE BLANKET. PLACE SINGLE ROW OF STAPLES ON TOP AND TRENCH SIDES AT 12" SPACING. BACKFILL TRENCH WITH SOIL AND TAMP.
- ④ PLACE SINGLE ROW OF STAPLES AT 12" SPACING.
- ⑤ USE STAPLE CHECK FOR CHANNEL SLOPES LESS THAN 2.5% GRADE AT 100 FOOT INTERVALS. PLACE DOUBLE ROW OF STAPLES STAGGERED 4" APART AND AT 4" SPACING.
- ⑥ USE BLANKET CHECKS FOR THE FOLLOWING SLOPES:
2.5%-5% 100 FT INTERVALS
5%-7% 50 FT INTERVALS
5%-7% 25 FT INTERVALS
- ⑦ CRITICAL POINTS SHALL BE SECURED WITH PROPER STAPLE PATTERNS.



DITCH BLANKET STAPLE DETAIL



BLANKET OVERLAP
PLACE SINGLE ROW STAPLES AT 12" SPACING

GENERAL BLANKET INSTALLATION REQUIREMENTS

PREPARE SOIL AS PER SPECIFICATION 2574.
LAY PARALLEL OR PERPENDICULAR TO THE DIRECTION OF WATER FLOW.
OVERLAP ADJACENT STRIP EDGES A MINIMUM OF 4 INCHES.
OVERLAP BLANKET 6" (MIN.) AT EACH END. OVERLAP BOTTOM END OF UPPER BLANKET OVER TOP END OF LOWER BLANKET. STAPLE ALONG OVERLAP EVERY 1.5'.
THE UPPERMOST BLANKET OF ALL SLOPE APPLICATIONS MUST START IN A CHECK SLOT. IF SLOPE LENGTH (L) IS 100' OR GREATER, INSERT BLANKET INTO A CHECK SLOT 1/3 FROM THE BOTTOM OF THE SLOPE.

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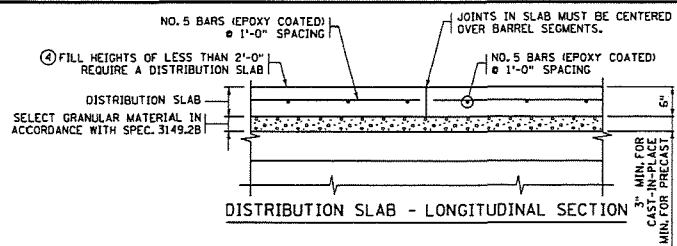
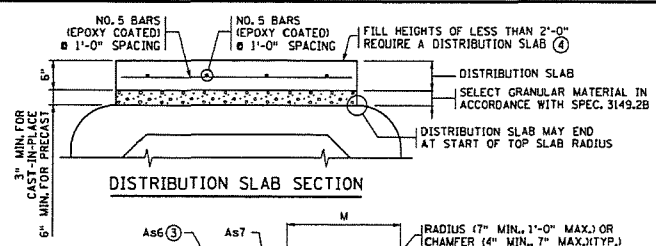


STANDARD PLAN 5-297.404 3 OF 3
[Signature]
APPROVED: 2-28-2017
REVISER:
STATE DESIGN ENGINEER

STATE PROJ. NO.

PERMANENT EROSION CONTROL
BLANKET STAPLE PATTERN FOR SLOPES

(T.H.) SHEET NO. 9 OF 19 SHEETS



CONSTRUCTION NOTES
 CONSTRUCT CULVERTS IN ACCORDANCE WITH SPEC. 2412 EXCEPT AS NOTED.
 REFER TO THE GENERAL PLAN AND ELEVATION SHEET FOR THE DISTANCE BETWEEN BARRELS OF ADJACENT BOXES AND TO STANDARD FIGURE 5-395.115 FOR MATERIAL REQUIREMENTS FOR FILL BETWEEN ADJACENT BOXES.

PROVIDE WELDED WIRE REINFORCEMENT, SHEAR REINFORCEMENT AND REINFORCEMENT BARS IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M259.
 1/2" MIN. AND 2" MAX. CONCRETE COVER ON ALL REINFORCEMENT, INCLUDING SHEAR REINFORCEMENT, EXCEPT FOR TONGUE AND GROOVE DETAIL.

ANY OF THE FOLLOWING COMBINATIONS OF STEEL REINFORCEMENT MAY BE USED:
 (a) 1 OR 2 LAYERS OF WELDED WIRE REINFORCEMENT OR
 (b) 1 LAYER OF WELDED WIRE REINFORCEMENT AND 1 LAYER OF REINFORCEMENT BARS OR
 (c) 1 LAYER OF REINFORCEMENT BARS.
 DEVELOP REINFORCEMENT IN ACCORDANCE WITH AASHTO "LRFD BRIDGE DESIGN SPECIFICATIONS". IF BAR REINFORCEMENT IS SUBSTITUTED FOR WELDED WIRE REINFORCEMENT, INCREASE THE AREA OF REINFORCEMENT BY 8% AND SUBMIT DESIGN CALCULATIONS VERIFYING COMPLIANCE WITH AASHTO 5.7.3.4, "CONTROL OF CRACKING BY DISTRIBUTION OF REINFORCEMENT".

MAXIMUM SIZE OF REINFORCEMENT BARS IS NO. 6. THE MAXIMUM WELDED WIRE REINFORCEMENT SIZE IS W23 PER LAYER (MAXIMUM OF 2 LAYERS).
 SPACE CENTER TO CENTER OF TRANSVERSE WIRES NOT LESS THAN 2" NOR MORE THAN 4". SPACE CENTER TO CENTER OF LONGITUDINAL WIRES NOT MORE THAN 8".

WHEN USING As1, As7, AND As8 REINFORCEMENT AS ONE CONTINUOUS CAGE WITH SPLICES OCCURRING IN THE CENTER OF THE TOP AND BOTTOM OF THE BOX SECTION, THE MIN. LAP LENGTH FOR THE As7 AND As8 IS 15".

WELDING IS NOT PERMITTED ON REINFORCEMENT BARS OR WELDED WIRE REINFORCEMENT, EXCEPT THAT THE ORIGINAL WELDING REQUIRED TO MANUFACTURE WIRE REINFORCEMENT IS ACCEPTABLE.

WHEN REINFORCEMENT IS CUT, PLACE ADDITIONAL REINFORCEMENT ON BOTH SIDES OF THE CUT MEMBER TO REPLACE OR EXCEED THE CUT STEEL.

USE CONCRETE MIX NO. 3WB2 WITH NO CALCIUM CHLORIDE ALLOWED.
 SHOP DRAWING APPROVAL IN ACCORDANCE WITH SPEC. 323B-2A IS NOT REQUIRED UNLESS OPENINGS OR ATTACHMENTS ARE PLACED ON A BARREL SEGMENT.

COMPACT THE FIRST 1.5' (LOOSE) OF FILL ABOVE THE BOX WITH LIGHT COMPACTION EQUIPMENT SUCH AS PLATE COMPACTORS OR WALK BEHIND ROLLERS.
 TRANSVERSE REINFORCEMENT IS PARALLEL TO THE CULVERT SPAN, LONGITUDINAL REINFORCEMENT IS PERPENDICULAR TO THE CULVERT SPAN.

- ① USE 1" DIAMETER CULVERT TIES, SEE STANDARD PLATE NO. 3145 FOR DETAILS.
- ② USE 12" VERTICAL, 12" HORIZONTAL HAUNCHES ON ALL BOX SIZES.
- ③ PLACE LONGITUDINAL REINFORCEMENT DENOTED AS As6 IN ALL SLABS AND WALLS WITH A MINIMUM OF 0.06 SQ. IN./FT.
- ④ ROADWAY OR SHOULDER FILL HEIGHTS OF LESS THAN 2'-0" REQUIRE A 6" THICK DISTRIBUTION SLAB WITH CONCRETE MIX 3552.

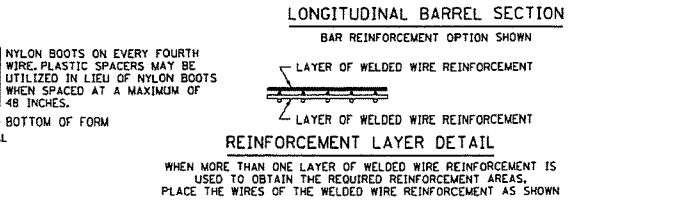
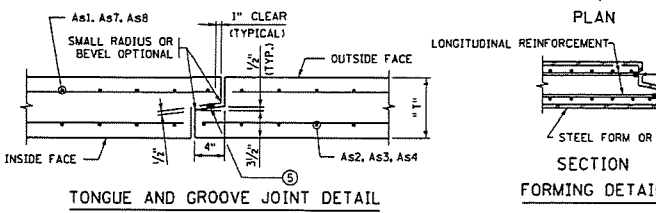
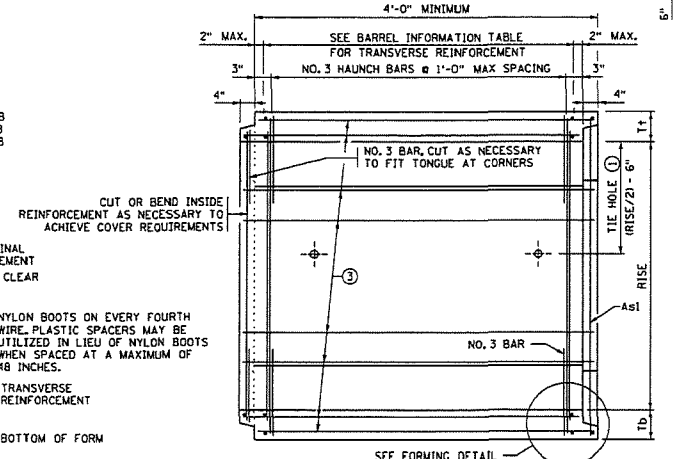
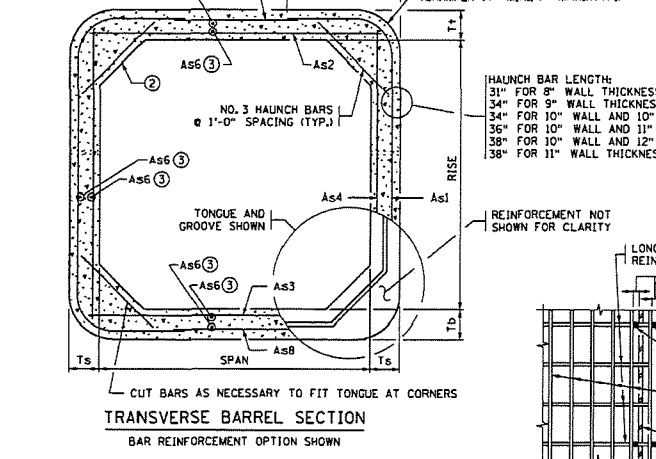
PLACE CAST-IN-PLACE DISTRIBUTION SLABS WITH 3" MIN. SELECT GRANULAR MATERIAL IN ACCORDANCE WITH SPEC. 3149.2B BETWEEN BARREL AND DISTRIBUTION SLAB.

PRECAST DISTRIBUTION SLABS MAY BE USED FOR FILL HEIGHTS OVER 1'-0". PROVIDE 6" MINIMUM SELECT GRANULAR MATERIAL IN ACCORDANCE WITH SPEC. 3149.2B BETWEEN BARREL AND SLAB.

EXTEND THE WIDTH OF THE DISTRIBUTION SLAB TO THE OUTSIDE EDGES OF THE ROADWAY SHOULDERS UNLESS DIRECTED BY THE ENGINEER.

REDESIGN THE DISTRIBUTION SLAB PER THE MnDOT PAVEMENT DESIGN MANUAL IF IT IS USED AS PAVEMENT SURFACE.

PAYMENT FOR THE DISTRIBUTION SLAB AND SELECT GRANULAR MATERIAL BETWEEN THE SLAB IS INCLUDED IN THE PRECAST CONCRETE BOX CULVERT PAY ITEM.
 ⑤ REFER TO SPEC. 2412 FOR SEALANT REQUIREMENTS.



LOCATION	SIZE	CLASS	f'c (P.S.I.)	FILL HEIGHT RANGE (FT.)	DISTRIBUTION SLAB REQUIRED *	RECESSED TIE RODS REQUIRED **	DIMENSIONS										WEIGHT (LBS./FT.)	WELDED WIRE REINFORCEMENT											
							SPAN					RISE						As1		As2		As3		As4		As7		As8	
							SPAN (FT.)	RISE (FT.)	T+ (IN.)	Td (IN.)	Ts (IN.)	AREA (IN. ² /FT.)	LENGTH (FT.)	AREA (IN. ² /FT.)	LENGTH (FT.)	AREA (IN. ² /FT.)		LENGTH (FT.)	AREA (IN. ² /FT.)	LENGTH (FT.)	AREA (IN. ² /FT.)	LENGTH (FT.)	AREA (IN. ² /FT.)	LENGTH (FT.)					
15+15	10X6	2	5000	3'-7"	YES	NO	10	6	9	10	8	4200	0.45	12'-8"	2'-10"	0.56	10'-6"	0.59	10'-6"	0.20	6'-6"	0.24	8'-3"	0.24	8'-3"				
					YES	NO																							

REVISION: DECEMBER 21, 2022
 APPROVED: MARCH 24, 2011
 Nancy Auerberger
 STATE BRIDGE DESIGNER

* ALL CLASS 1 CULVERTS WITH FILL HEIGHTS OF LESS THAN 2'-0" REQUIRE A DISTRIBUTION SLAB. IF A DISTRIBUTION SLAB IS NOT REQUIRED, INDICATE "NO" IN THIS BOX.
 ** FOR PEDESTRIAN CULVERT APPLICATIONS WIDE-AWAY OR RECESSED TIE CONNECTIONS ARE REQUIRED. SEE STANDARD PLATE 3145. IF REQUIRED, INDICATE "YES" IN THIS BOX.
 *** BOX CULVERTS WITH SPANS FROM 6 TO 14 FT. ARE DESIGNED FOR HL-93 LIVE LOADS (AASHTO LRFD 3.6.2.1) NOT INCLUDING THE DESIGN LANE LOAD. BOXES WITH SPANS OF 16 FT. ARE DESIGNED FOR HL-93 LIVE LOADS INCLUDING THE DESIGN LANE LOAD.

STATE PROJ. NO. - (T.H.) STA. + .

FIG. 5-395.101(A)

DES: OAK DR: JAB APPROVED: BRIDGE NO. 02J59

CHK: TPC CHK: SHEET NO. 10 OF 19 SHEETS

PRECAST CONCRETE BARREL DETAILS

I HEREBY CERTIFY THAT THIS PLAN 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

CERTIFIED BY: _____ DATE: _____ LITC. NO. _____

CONSTRUCTION NOTES

SEE STANDARD FIG. 5-395.10(A) AND FIG. 5-395.10(B) FOR ADDITIONAL DIMENSIONS AND CONSTRUCTION NOTES.

ON ALL END SECTIONS FOR WATERWAYS, USE DROPWALLS ON INLET AND OUTLET ENDS. FINISH ALL EXPOSED EDGES OF CONCRETE WITH 1/2" OR 3/4" CHAMFER OR RADIUS UNLESS OTHERWISE NOTED.

USE CONCRETE MIX 3W82 WITH NO CALCIUM CHLORIDE ALLOWED.

USE DROPWALL CONCRETE MIX 3S52, OR 3Y82 IF PRECAST. LIMITS FOR DROPWALL EXCAVATION TO BE APPROXIMATELY THE SAME AS DROPWALL DIMENSIONS. FURNISHING AND INSTALLATION OF DROPWALL IS INCLUDED IN PRICE BID FOR END SECTIONS.

PLACE LONGITUDINAL REINFORCEMENT WITH A MINIMUM OF 0.06 SQ. IN. PER FT. ON BOTH FACES.

NO TONGUE OR GROOVE REQUIRED IN WALLS BETWEEN END SECTIONS.

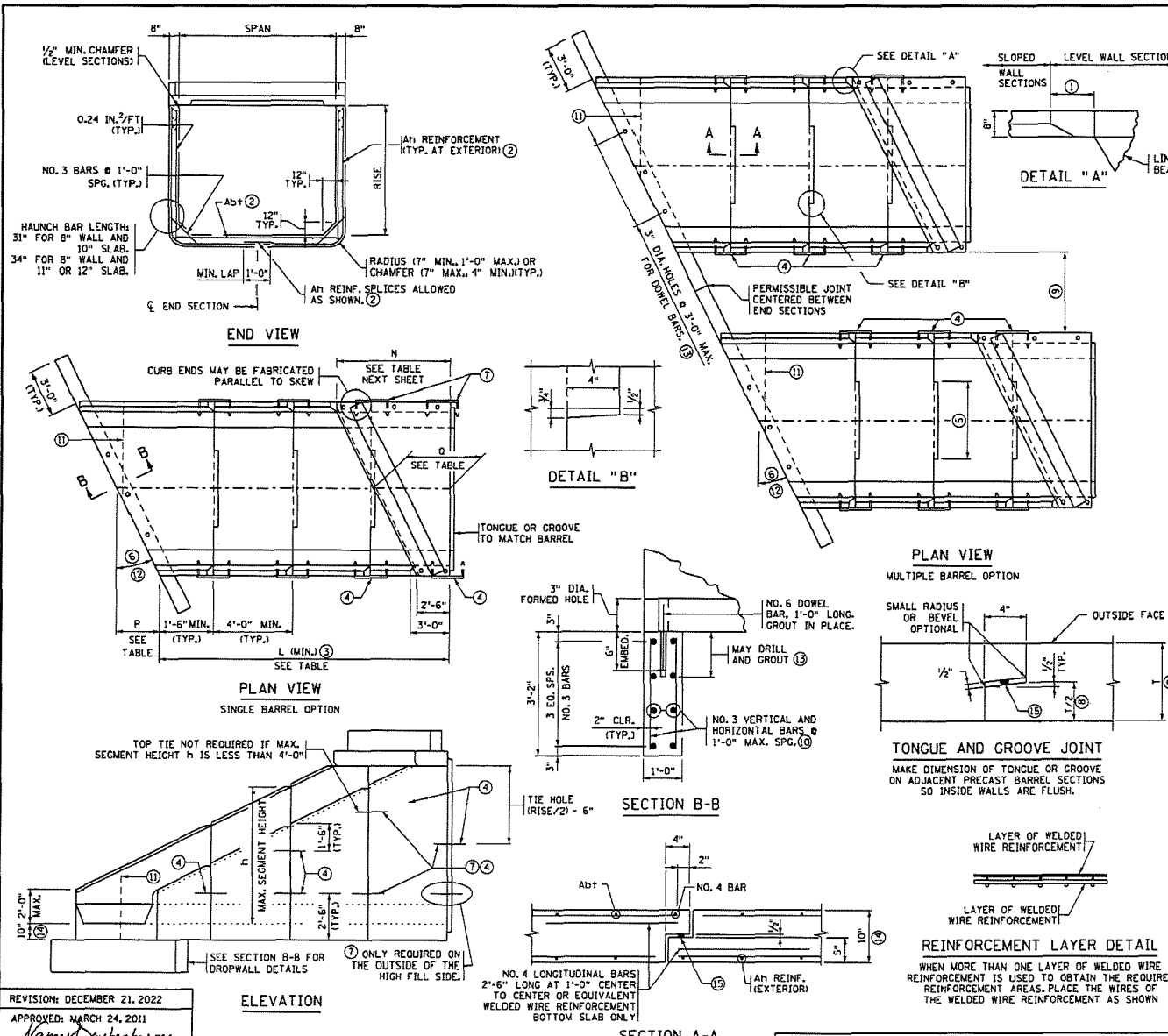
SEE STANDARD FIG. 5-395.115 FOR EMBANKMENT PROTECTION.

- ① 8 1/4" @ 15"; 10 3/8" @ 30"; 1'-2" @ 45"
- ② SEE STANDARD FIG. 5-395.110 (2 OF 2) FOR REINFORCEMENT TABLES.
- ③ NUMBER OF SECTIONS VARIES WITH CULVERT RISE.
- ④ EXCEPT AS NOTED, USE 1" DIA. CULVERT TIES. SEE STANDARD PLATE NO. 3145 FOR DETAILS. TWO TIES ARE REQUIRED PER JOINT WHERE h IS GREATER THAN 4'.
- ⑤ 3'-6" MIN. TONGUE AND 3'-7" MIN. GROOVE FOR CULVERTS WITH 6'-0" SPANS, 5'-0" MIN. TONGUE AND 5'-1" MIN. GROOVE FOR CULVERTS WITH SPANS GREATER THAN 6'-0". CENTER TONGUE AND GROOVE ON C OF EACH APRON JOINT. TONGUE AND GROOVE JOINT ON ALL THREE SIDES OF APRON IS PERMISSIBLE.
- ⑥ FOR SKEW ANGLES OVER 7 1/2° UP TO 22 1/2°, USE A 15° SKEW END SECTION. FOR SKEW ANGLES OVER 22 1/2° UP TO 37 1/2°, USE A 30° SKEW END SECTION. FOR SKEW ANGLES OVER 37 1/2° UP TO 45°, USE A 45° SKEW END SECTION.
- ⑦ PROVIDE EXTRA STRONG CONNECTION AT LOCATION SHOWN REQUIRED ONLY ON HIGH FILL SIDE FOR 45° SKEW END SECTIONS OVER 6'-0" HIGH. FOR MULTIPLE BARREL OPTION, ONLY INCLUDE EXTRA STRONG TIES ON THE OUTSIDE OF THE HIGH FILL SIDE. SEE STANDARD FIG. 5-395.110 (2 OF 2) FOR DETAILS.
- ⑧ DIMENSION "T" IS EQUAL TO T1, T2 OR T3.
- ⑨ REFER TO THE GENERAL PLAN AND ELEVATION SHEET FOR THE DISTANCE BETWEEN BARRELS OF ADJACENT BOXES AND TO STANDARD FIGURE 5-395.115 FOR MATERIAL REQUIREMENTS FOR FILL BETWEEN ADJACENT BOXES.
- ⑩ WELDED WIRE REINFORCEMENT OF EQUAL AREA MAY BE SUBSTITUTED FOR REBAR.
- ⑪ ON THE LAST SEGMENT OF THE 45° SKEWED APRONS, A TRANSVERSE JOINT IN THE BOTTOM IS PERMITTED. A SPECIAL TIE, SIMILAR TO THE SIDE TIE, MUST BE PROVIDED. THE TIE SHALL BE INSET AND THE SPACE FILLED WITH AN APPROVED GROUT.
- ⑫ FOR BOX CULVERTS WITH SPANS OF 16' THE MAXIMUM SKEW SHALL BE 30°.
- ⑬ FILL HOLE WITH GROUT. GROUT CONSISTS OF 1 PART CEMENT AND 2 PARTS SAND. USE TYPE IA AIR ENTRAINED PORTLAND CEMENT. GROUT MIX MAXIMUM SLUMP IS 4".
- ⑭ APRON BOTTOM SLAB THICKNESS MAY BE 8" FOR CULVERTS WITH 6' SPANS ONLY. BOTTOM SLAB THICKNESS MAY BE INCREASED UP TO 2" MAX. PROVIDED COVER IS 1 1/2" MIN., 2" MAX.
- ⑮ REFER TO SPEC. 2412 FOR SEALANT REQUIREMENTS.

LENGTH P			
SPAN (FT.)	15° SKEW	30° SKEW	45° SKEW
6	0'-11 3/4"	2'-1 3/8"	3'-8"
8	1'-3"	2'-8 1/4"	4'-8"
10	1'-6 1/4"	3'-3 1/4"	5'-8"
12	1'-9 3/4"	3'-10 1/4"	6'-8"
14	2'-0 5/8"	4'-5 1/4"	7'-8"
16	2'-3 3/4"	5'-0"	(12)

MIN. LENGTH L			
RISE (FT.)	15° SKEW	30° SKEW	45° SKEW
4	7'-1 1/2"	7'-7 3/8"	8'-7 3/4"
5	9'-2 1/4"	9'-11 1/4"	11'-5 3/4"
6	11'-3 3/4"	12'-2 1/4"	14'-3 3/4"
7	13'-4 1/4"	14'-6 3/4"	17'-1 1/4"
8	15'-5 1/4"	16'-10 1/4"	19'-11 1/4"
9	17'-5 3/4"	19'-2"	22'-9 3/4"
10	19'-6 3/4"	21'-5 3/4"	25'-7 1/4"
11	21'-7 3/4"	23'-9 3/4"	28'-5 1/4"
12	23'-8 3/4"	26'-1 1/4"	31'-3 3/4"
13	25'-9 3/4"	28'-4 1/4"	34'-1 1/4"
14	27'-10 3/4"	30'-8 1/4"	36'-11 1/4"

LENGTH Q			
SPAN (FT.)	15° SKEW	30° SKEW	45° SKEW
6	3'-5 3/4"	4'-7 3/4"	6'-2"
8	3'-9"	5'-2 3/4"	7'-2"
10	4'-0"	5'-9 1/4"	8'-2"
12	4'-3 3/4"	6'-4 1/4"	9'-2"
14	4'-6 3/4"	6'-11 1/4"	10'-2"
16	4'-9 3/4"	7'-6 1/4"	(12)



REVISION: DECEMBER 21, 2022			
APPROVED: MARCH 24, 2011			
<i>Nancy A. Sauterberg</i> STATE BRIDGE ENGINEER			
REV. NO.	DATE	REVISION DESCRIPTION	BY
	09/08/23		

I HEREBY CERTIFY THAT THIS PLAN 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.

CERTIFIED BY _____
LICENSED PROFESSIONAL ENGINEER
DATE _____
LIC. NO. _____

STATE PROJ. NO. - (T.H.) STA. +
PRECAST CONCRETE END SECTION
TYPE III - SINGLE OR MULTIPLE BARREL
FOR SKEWS 7 1/2° TO 45°

FIG. 5-395.110 (1 OF 2)
APPROVED: _____
BRIDGE NO. 02J59
SHEET NO. 11 OF 19 SHEETS

Ah REINFORCEMENT		
HEIGHT h (FT.)	Ah (IN ² /FT.)	
	15° & 30° SKEW	45° SKEW
7 OR LESS	0.192	0.192
8	0.20	0.24
9	0.29	0.36
10	0.42	0.53
11	0.60	0.75
12	0.78	0.98
13	1.03	1.36
14	1.38	1.85

AD† REINFORCEMENT	
SPAN (FT.)	AD† (IN ² /FT.)
6-10	0.20
12	0.30
14	0.39
16	0.39

LINTEL BEAM REINFORCEMENT		
SPAN (FT.)	BOTTOM REINFORCEMENT	
	A1	A2
6	NO. 4 @ 1'-0"	NO. 4 @ 9"
8	NO. 4 @ 1'-1"	NO. 4 @ 6"
10	NO. 4 @ 9"	NO. 5 @ 6"
12	NO. 5 @ 9"	NO. 6 @ 6"
14	NO. 6 @ 9"	NO. 8 @ 6"
16	NO. 6 @ 9"	NO. 8 @ 6"

LENGTH N			
SPAN (FT.)	15° SKEW	30° SKEW	45° SKEW
6	4'-3 3/4"	6'-4 1/4"	9'-2"
8	4'-9 3/4"	7'-6"	11'-2"
10	5'-4 1/4"	8'-7 1/4"	13'-2"
12	5'-10 3/4"	9'-9 3/4"	15'-2"
14	6'-5 1/4"	10'-11 1/4"	17'-2"
16	6'-11 3/4"	12'-1 1/2"	NA (7)

LINTEL BEAM THICKNESS			
SPAN (FT.)	15° SKEW	30° SKEW	45° SKEW
≤ 12	9"	9"	9"
14	10" (8)	10" (8)	10" (8)
16	10" (8)	10" (8)	NA (7)

CONSTRUCTION NOTES

SEE STANDARD FIG. 5-395.101(A) AND FIG. 5-395.101(B) FOR ADDITIONAL DIMENSIONS AND CONSTRUCTION NOTES.

ALL END SECTIONS REQUIRE CURB ON LINTEL BEAM.

GROUT CONSISTS OF 1 PART CEMENT AND 2 PARTS SAND. USE TYPE 1A AIR ENTRAINED PORTLAND CEMENT. GROUT MIX MAXIMUM SLUMP IS 4".

STRUCTURAL STEEL IN ACCORDANCE WITH SPEC. 3306.

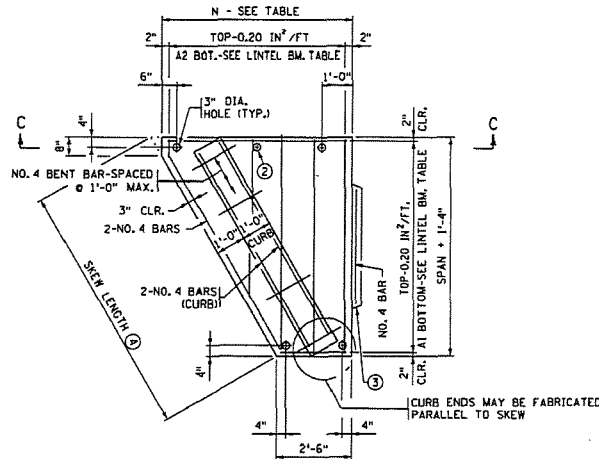
WELDING IN ACCORDANCE WITH SPEC. 2471.

GALVANIZE STRUCTURAL STEEL IN ACCORDANCE WITH SPEC. 3394.

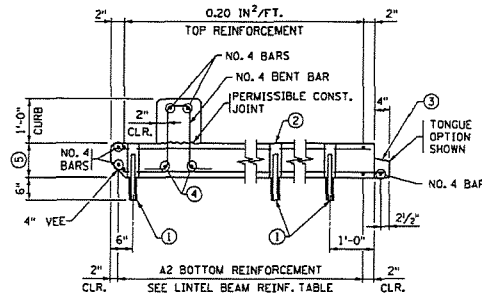
GALVANIZE BOLTS, NUTS AND WASHERS IN ACCORDANCE WITH SPEC. 3392.

- NO. 8 DOWEL, 1'-0" LONG, 2" DIA. HOLE IN THE TOP OF THE WALL SECTION AND 3" DIA. HOLE IN THE LINTEL. FILL HOLE WITH GROUT.
- PROVIDE ADDITIONAL 3" HOLES AT 4'-0" MAXIMUM SPACING WHEN SIDE OF LINTEL BEAM IS OVER 6 FT.
- CHECK THE LOCATION TO DETERMINE WHETHER A TONGUE OR A GROOVE IS USED. TONGUE AND GROOVE TO TERMINATE AT CURB RADIUS.
- FOR SKEW LENGTH UNDER 10' USE NO. 8 BARS. FOR SKEW LENGTH OF 10' TO 14' USE NO. 9 BARS. FOR SKEW LENGTH OVER 14' TO 18' USE NO. 10 BARS. FOR SKEW LENGTH OVER 18' TO 22' USE NO. 11 BARS OR EQUAL. SKEW LENGTH IS DISTANCE BETWEEN OUTSIDE FACES OF END SECTION ALONG LINTEL BEAM.
- SEE LINTEL BEAM THICKNESS TABLE ON THIS SHEET. USE LINTEL BEAMS WITH 5000 PSI 3WB2 CONCRETE UNLESS OTHERWISE SPECIFIED.
- ALTERNATE BAR BEND MAY BE USED FOR NO. 4 BENT BARS.
- FOR CULVERTS WITH SPANS OF 16' THE MAXIMUM SKEW IS 30°.
- ALTERNATIVELY A 9" THICKNESS MAY BE USED WITH 6500 PSI 3WB2 CONCRETE.

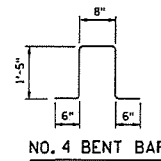
NOTE: h IS THE LARGEST VERTICAL DIMENSION OF THE SEGMENT.



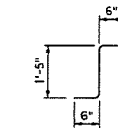
PLAN VIEW
LINTEL BEAM WITH INTEGRAL CURB



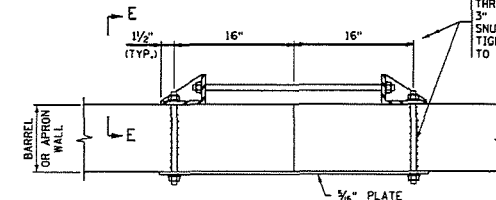
SECTION C-C
LINTEL BEAM WITH INTEGRAL CURB



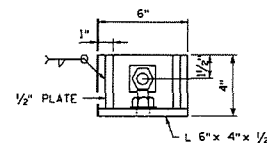
NO. 4 BENT BAR



NO. 4 BENT BAR
ALTERNATE
(8)
2 REQUIRED



PLAN VIEW



SECTION E-E

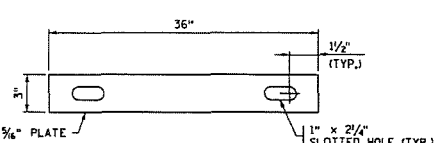


PLATE DETAIL

EXTRA STRONG CONNECTION DETAILS

IN ACCORDANCE WITH SPEC. 3385, TYPE C, 1/2" DIA. THREADED ROD WITH TWO HEX NUTS AND TWO 3/4 x 3/4 x 3/16 PLATE WASHERS, A36 STEEL (TYP.). SNUG TIGHTEN BOLTS THROUGH WALL BEFORE TIGHTENING CONNECTION BOLT. TORQUE ALL BOLTS TO 20 FT.-LBS.

REVISION: DECEMBER 21, 2022

APPROVED: MARCH 24, 2011

Nancy Auberberger
STATE BRIDGE ENGINEER

REV. NO.	DATE	REVISION DESCRIPTION	BY
1	09/08/23		

I HEREBY CERTIFY THAT THIS PLAN 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

CERTIFIED BY

LICENSED PROFESSIONAL ENGINEER DATE

NAME:

STATE PROJ. NO. - (T.H.) STA. + .

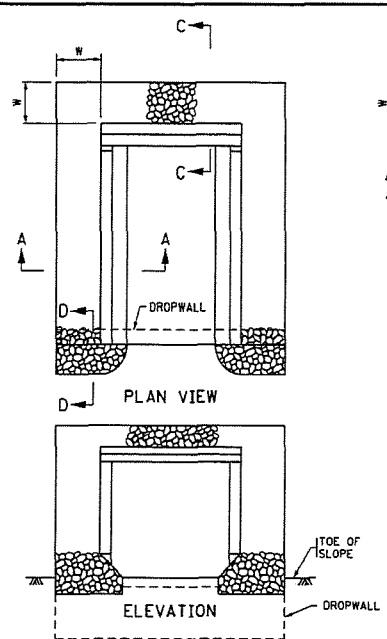
FIG. 5-395.110 (2 OF 2)

PRECAST CONCRETE END SECTION
TYPE III - SINGLE OR MULTIPLE BARREL
FOR SKEWS 7 1/2 TO 45°

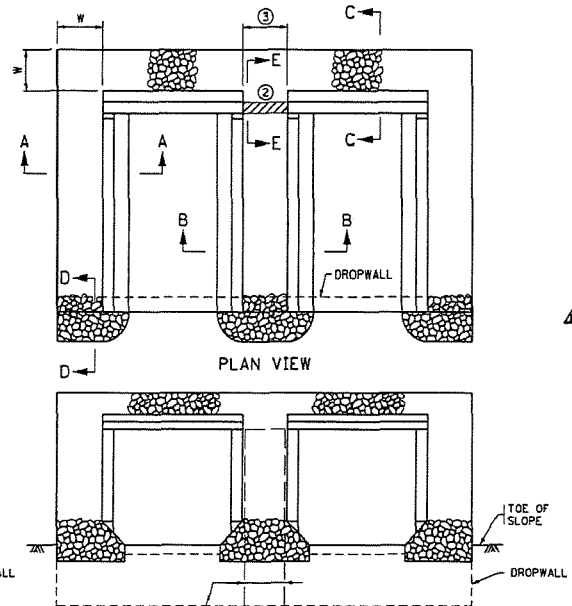
DES: DAK
CHK: TPC
DW: JAB
CHK: JAB
APPROVED:

BRIDGE NO.
02J59

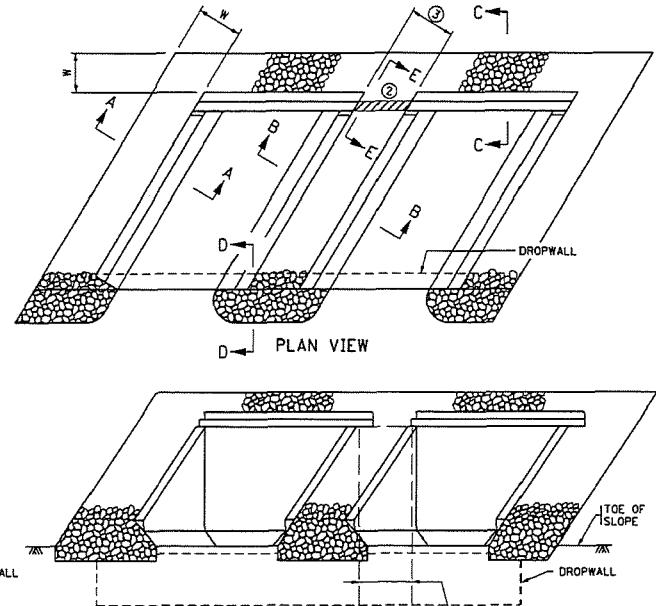
SHEET NO. 12 OF 19 SHEETS



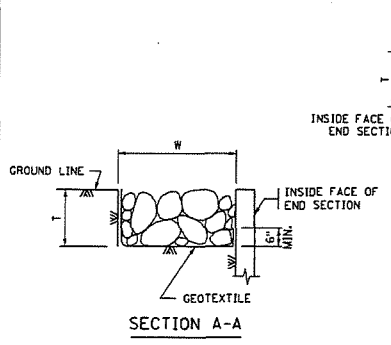
SINGLE BARREL
CLASS III OR IV SHOWN
FOR SKEWS UP TO 7 1/2°



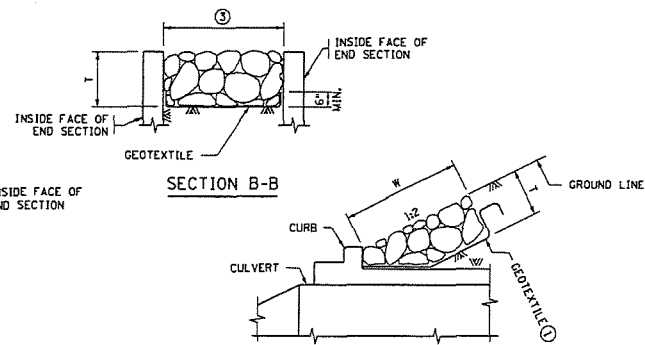
MULTIPLE BARREL
FOR SKEWS UP TO 7 1/2°
CLASS III OR IV SHOWN
DOUBLE BARREL SHOWN



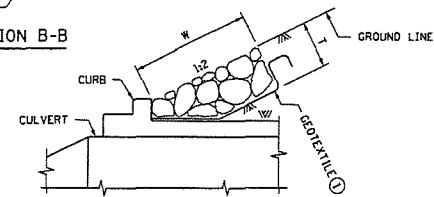
MULTIPLE BARREL
FOR SKEWS OVER 7 1/2°
CLASS III OR IV SHOWN
DOUBLE BARREL SHOWN.
OTHER BARREL CONFIGURATIONS SIMILAR.



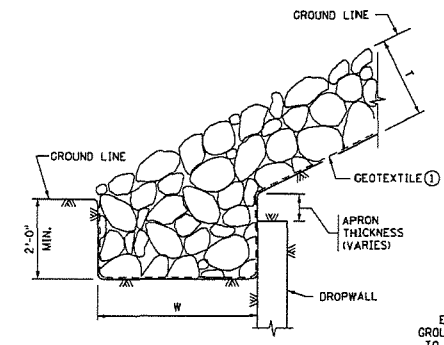
SECTION A-A



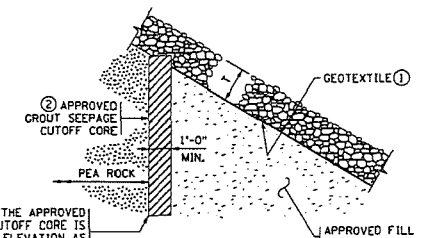
SECTION B-B



SECTION C-C



SECTION D-D



SECTION E-E

CONSTRUCTION NOTES

- THIS PLAN SHEET IS FOR CULVERT EMBANKMENT PROTECTION ONLY. REFER TO THE GRADING PLANS FOR ADDITIONAL RIPRAP OR OTHER SCOUR PROTECTION MEASURES.
- PROVIDE RIPRAP IN ACCORDANCE WITH SPECS. 2511 AND 3601.
- EMBANKMENT PROTECTION, INCLUDING MATERIAL PLACED BETWEEN BARRELS THAT ARE LESS THAN 2'-0" APART, IS INCLUDED IN THE PRECAST CONCRETE BOX CULVERT PAY ITEMS.
- PROVIDE TYPE 7 GEOTEXTILE IN ACCORDANCE WITH SPEC. 3733. PROVIDE GEOTEXTILE STRIPS CONTINUOUS WITHOUT OVERLAPS, EXCEPT FOR THE TOP STRIP, WHICH SHOULD SHINGLE VERTICAL STRIPS. BURY THE TOP EDGE TO PREVENT UNDERMINING.
 - IF THE DISTANCE BETWEEN MULTIPLE BARRELS IS LESS THAN 2'-0" USE EITHER PEA ROCK OR LEAN MIX BACKFILL (SPEC. 2520) BETWEEN THE CULVERTS AS APPROVED BY THE ENGINEER. IF PEA ROCK IS USED PROVIDE APPROVED GROUT SEEPAGE CUTOFF CORE, MINIMUM 12" THICK BETWEEN THE CULVERT'S TWO ENDS AND PROVIDE CLASS I GROUTED RIPRAP IN LIEU OF CLASS III RIPRAP.
 - REFER TO THE GENERAL PLAN AND ELEVATION SHEET FOR THE DISTANCE BETWEEN BARRELS OF ADJACENT BOXES.

RIPRAP CLASS

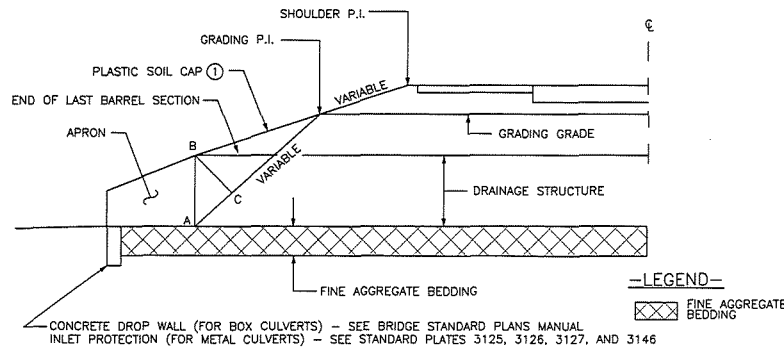
RIPRAP CLASS	RIPRAP CLASS	T	W
<input type="checkbox"/>	III	1'-6"	3'-0"
<input type="checkbox"/>	IV	2'-0"	4'-0"

DESIGNER NOTE:
REMOVE PRIOR TO PRINTING FINAL PLAN
DESIGNER TO SELECT EITHER CLASS III OR IV RIPRAP USING CHECK BOX ABOVE.

REVISION: DECEMBER 21, 2022			
APPROVED: SEPTEMBER 11, 2014 <i>Nancy Subenberger</i> STATE BRIDGE ENGINEER			
REV. NO.	DATE	REVISION DESCRIPTION	BY
1	09/08/23		

I HEREBY CERTIFY THAT THIS PLAN 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

STATE PROJ. NO. - (T.H.) STA. + .		FIG. 5-395.115	
CERTIFIED BY	DATE	DES: DAK	DR: JAB
NAME:	LIC. NO.	CHK: TPC	CHK:
EMBANKMENT PROTECTION FOR BOX CULVERTS		APPROVED:	BRIDGE NO. 02J59
		SHEET NO. 13 OF 19 SHEETS	



① PLASTIC SOIL CAP CONSIST OF 50% MIN. PASSING THE NO. 200 SIEVE AND 20% MIN. CLAY SIZE PARTICLES

NOTES:
THE TREATMENT WILL BE RECOMMENDED BY THE DISTRICT MATERIALS/SOILS ENGINEER.

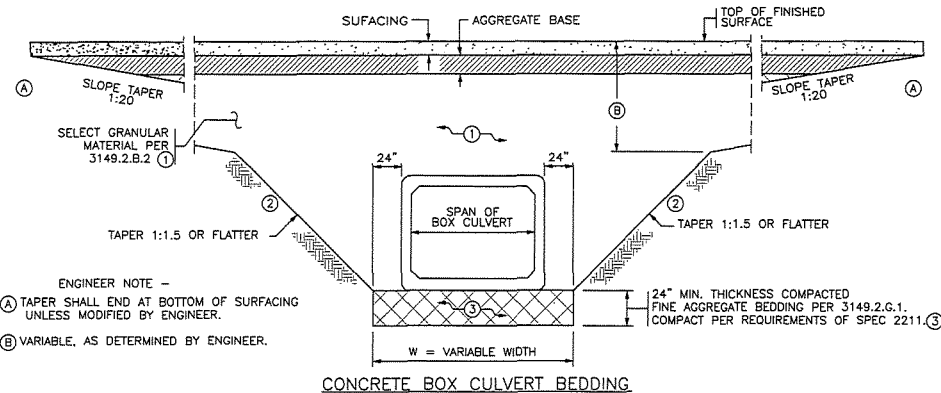
WIDTH OF PLASTIC SOIL CAP:

- A) FOR PLASTIC SOIL EMBANKMENT - FULL WIDTH OF THE GRANULAR TREATMENT PLUS 2' ON EACH END.
- B) FOR GRANULAR SOIL EMBANKMENT - A MINIMUM OF ONE DIAMETER OR WIDTH OF STRUCTURE ON EITHER SIDE OF THE STRUCTURE.

THE TREATMENT IS NORMALLY REQUIRED ON THE INLET END.

THE THICKNESS OF THE PLASTIC SOILS CAP (B-C) IS 3' MINIMUM AND 6' MAXIMUM.

- A) FILL HEIGHTS LESS THAN 15'.
- NORMALLY EXTEND THE LINE THRU (A-C) TO GRADING P.I. HOWEVER, IF THIS RESULTS IN A THICKNESS (B-C) GREATER THAN 6', REDUCE B-C TO 6' OR LESS AND INTERSECTION THE FILL SLOPE RATHER THAN THE P.I..
- B) FILL HEIGHTS GREATER THAN 15'.
- THE LINE THRU A-C NEED NOT INTERSECT THE GRADING P.I. INSTEAD INTERSECT THE FILL SLOPE AT A POINT NOT LESS THAN 5' ABOVE THE STRUCTURE MAINTAINING AT LEAST A MINIMUM THICKNESS (B-C) OF 3'.



ENGINEER NOTE -
A) TAPER SHALL END AT BOTTOM OF SURFACING UNLESS MODIFIED BY ENGINEER.
B) VARIABLE, AS DETERMINED BY ENGINEER.

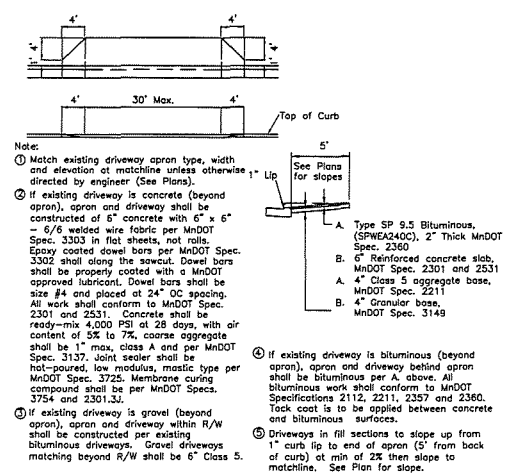
NOTES

EXCAVATE & CONSTRUCT ALL TRENCHES AND SLOPES PER OSHA REQUIREMENTS. ALL SLOPES SHOWN AS (V):(H)

- ① MAXIMUM EMBANKMENT PARTICLE SIZE WITHIN 2 FT. OF CULVERT IS 3" PER SEPC. TABLE 2105-4.
- ② OVER EXCAVATION BENEATH TAPERS IS NOT PERMITTED UNLESS REQUIRED BY OSHA. (TYP.)
- ③ IF APPROVED BY THE ENGINEER IN WET CONDITIONS THE CONTRACTOR MAY SUBSTITUTE 18" OF COARSE FILTER AGGREGATE PER 3149.2.H COMPACTED TO THE QUALITY COMPACTION REQUIREMENTS OF SPEC.2211.3.C.2.B. WRAP WITH GEOTEXTILE FABRIC TYPE IV PER SPEC 3733. SEAM ALL FABRIC SIDES AND ENDS PER SPEC TABLE 3733-1 INCLUDING FOOTNOTE (e) OR OVERLAP A MINIMUM OF 3 FT. ALL AT NO ADDITIONAL COST.

BOX CULVERT BEDDING AND PLASTIC SOIL CAP

RFC-654A
NOT TO SCALE



- Note:
- ① Match existing driveway apron type, width and elevation at matchline unless otherwise directed by engineer (See Plans).
 - ② If existing driveway is concrete (beyond apron), apron and driveway shall be constructed of 6" concrete with 6" x 6" - 5/8" welded wire fabric per MnDOT Spec. 3303 in flat sheets, not rolls. Epoxy coated dowel bars per MnDOT Spec. 3302 shall along the sawcut. Dowel bars shall be properly coated with a MnDOT approved lubricant. Dowel bars shall be size #4 and placed at 24" OC spacing. All work shall conform to MnDOT Spec. 2301 and 2331. Concrete shall be ready-mix 4,000 PSI at 28 days, with air content of 5% to 7%, coarse aggregate shall be 1" max. class A and per MnDOT Spec. 3177. Joint sealer shall be hot-poured, low modulus, mastic type per MnDOT Spec. 3725. Membrane curing compound shall be per MnDOT Specs. 3754 and 2301.34.
 - ③ If existing driveway is gravel (beyond apron), apron and driveway within R/W shall be constructed per existing bituminous driveways. Gravel driveways matching beyond R/W shall be 6" Class 5.
 - ④ If existing driveway is bituminous (beyond apron), apron and driveway behind apron shall be bituminous per A. above. All bituminous work shall conform to MnDOT Specifications 2112, 2211, 2357 and 2360. Tack coat is to be applied between concrete and bituminous surfaces.
 - ⑤ Driveways in fill sections to slope up from 1" curb lip to end of apron (5' from back of curb) at min of 2% then slope to matchline. See Plan for slope.
- A. Type SP 5.5 Bituminous, (SPWE2400). 2" Thick MnDOT Spec. 2360
B. 6" Reinforced concrete slab, MnDOT Spec. 2301 and 2331
C. 4" Class 5 aggregate base, MnDOT Spec. 2211
D. 4" Granular base, MnDOT Spec. 3149

PRIVATE DRIVEWAY/FIELD ENTRANCE RFC-363A1
NOT TO SCALE

800-252-1166 651-454-0002

UTILITIES: CENTURYLINK (763) 712-5917
CENTERPOINT ENERGY (763) 323-2760
CONCAST (952) 607-4078
CONNEXUS ENERGY (763) 323-4288
XCEL ENERGY (612) 526-4508

DATE	REVISION HISTORY

I HEREBY CERTIFY THAT THIS PLAN 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.

PURPOSE: **CONCRETE BOX CULVERT BEDDING**

DATE: _____ REC. NO. _____

RFC ENGINEERING, INC.
Consulting Engineers

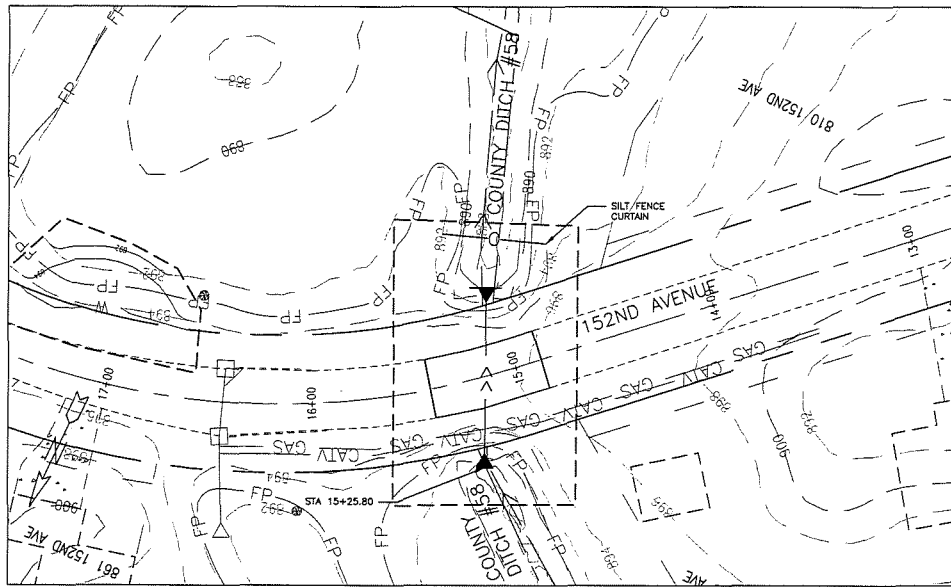
13635 Johnson Street
Horn Lake, MN 55304
Telephone 763-862-8000
Fax 763-862-8042

SAP - 197-080-001
COUNTY DITCH #58 CROSS CULVERT

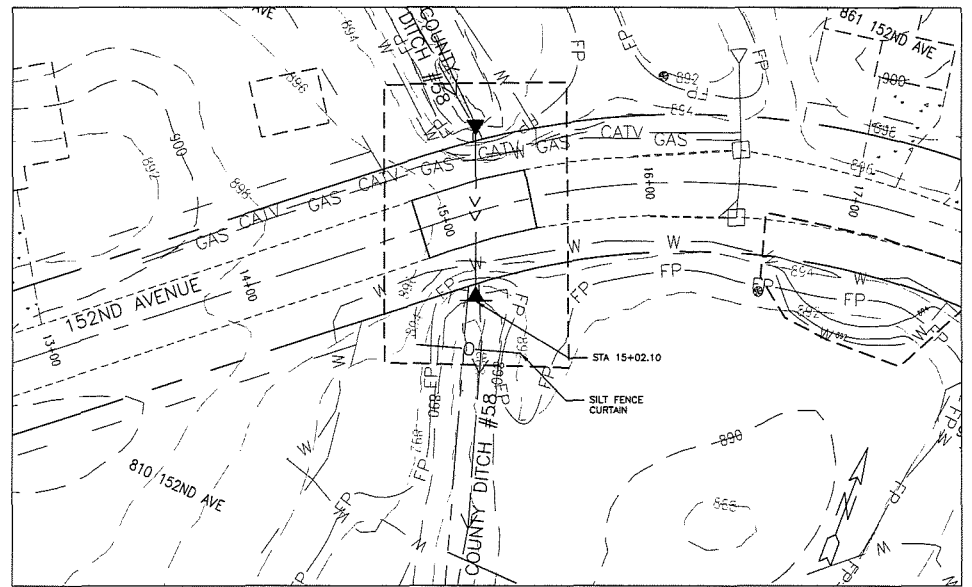
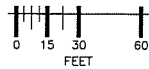
DETAILS

DWG: 2302.038 DETAIL 1
DATE: 01/25/24
JOB NUMBER: 2302.038
SHEET: 14 OF 19
FILE: 37-2-163

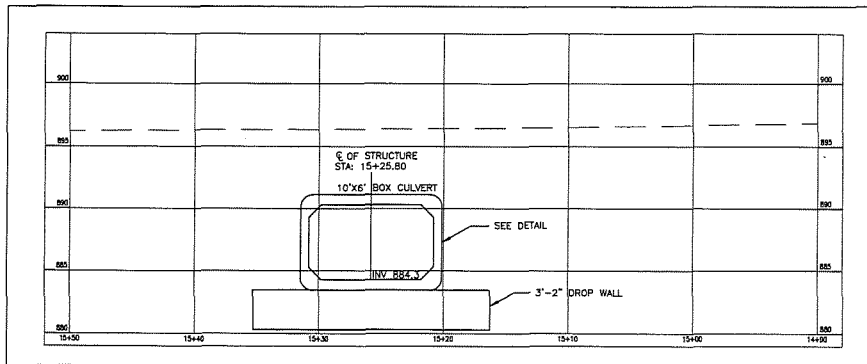
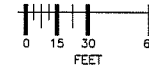
DESIGN BY: DAK DRAWN BY: JAB CHECKED BY: TPC



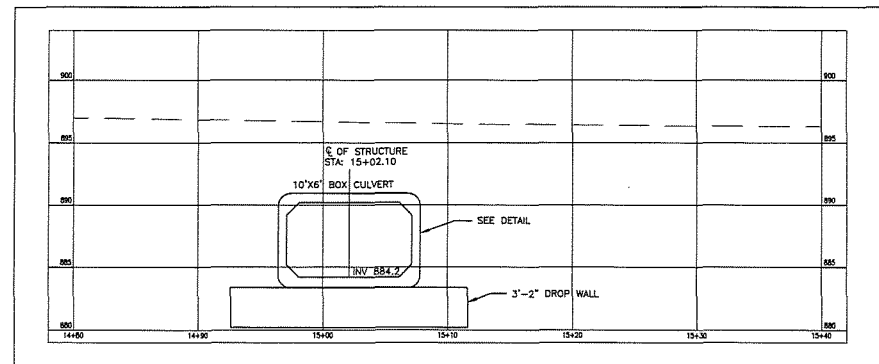
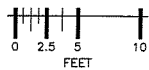
NORTH END PRECAST CONCRETE BOX CULVERT PLAN VIEW



SOUTH END PRECAST CONCRETE BOX CULVERT PLAN VIEW



NORTH END PRECAST CONCRETE TYPE II END SECTION ELEVATION VIEW



SOUTH END PRECAST CONCRETE TYPE II END SECTION ELEVATION VIEW



**GOPHER STATE
ONE CALL**
800-252-1166 651-454-0002

UTILITIES: CENTURYLINK (763) 712-5017
CENTERPOINT ENERGY (763) 323-2760
COMCAST (952) 607-4078
CONNEXUS ENERGY (763) 323-4268
XCEL ENERGY (612) 526-4508

DATE	REVISION HISTORY

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

PURPOSE: _____

DATE: _____ REC. NO.: _____

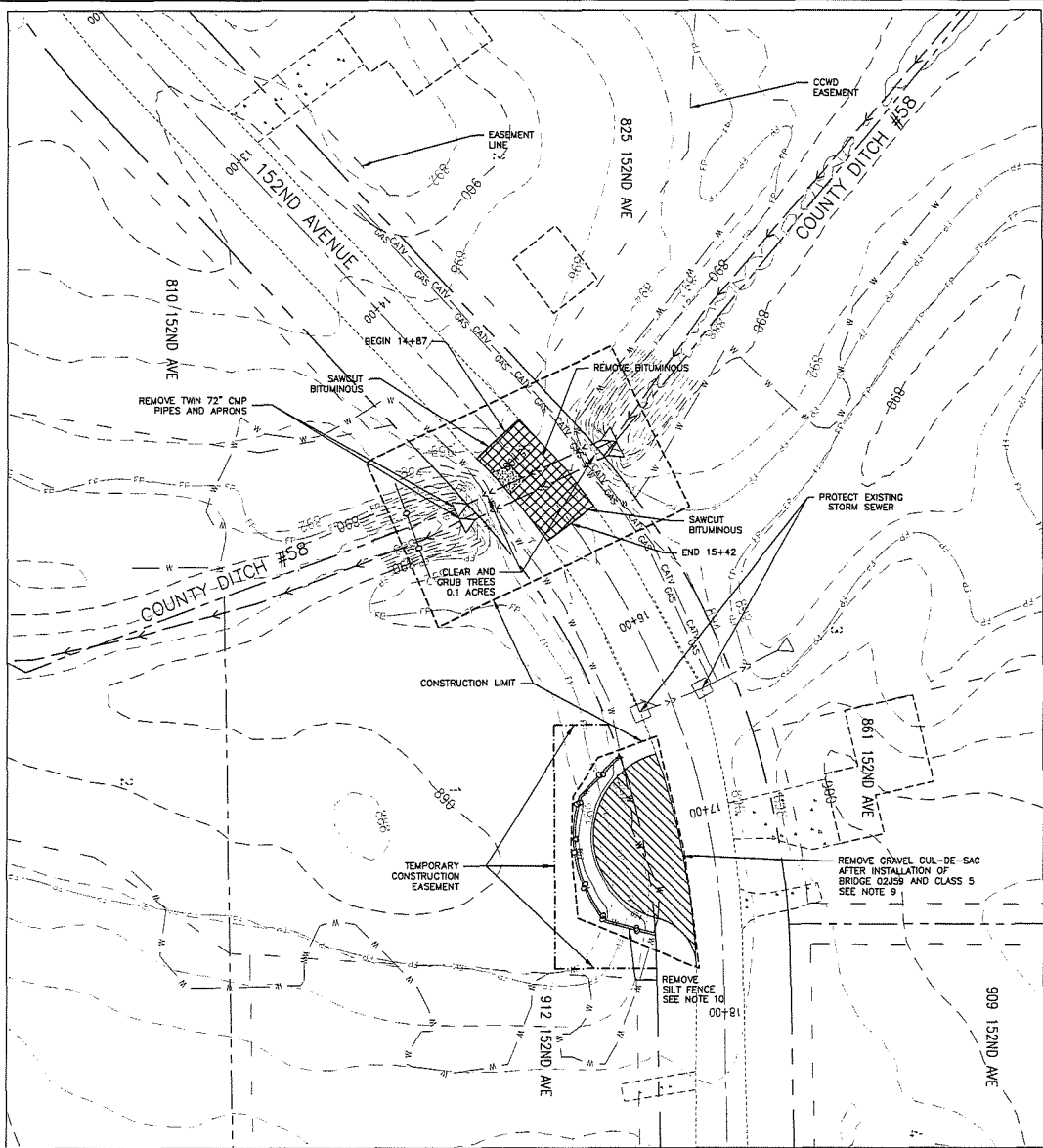
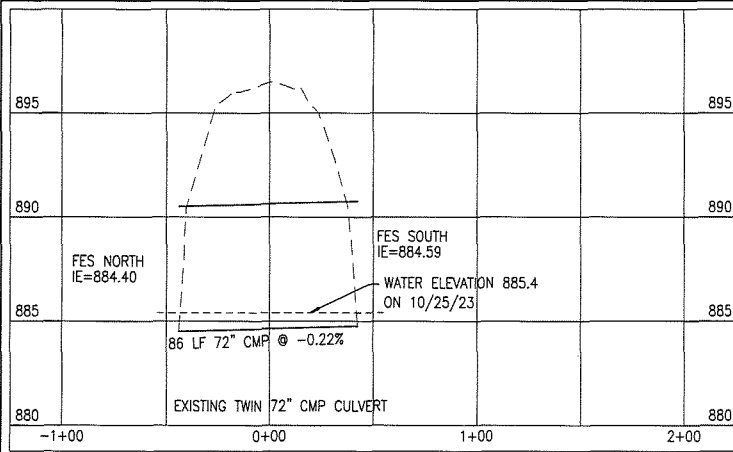
RFC ENGINEERING, INC.
Consulting Engineers

13635 Johnson Street
Horn Lake, MN 55304
Telephone 763-862-8000
Fax 763-862-8042

SAP - 197-080-001
COUNTY DITCH #58 CROSS CULVERT
BOX CULVERT DETAILS

DWG: 2302.038 BC3
DATE: 01/25/24
JOB NUMBER: 2302.038
SHEET: 15 OF 19
FILE: 37-2-164

DESIGN BY: DAK DRAWN BY: JAB CHECKED BY: TPC

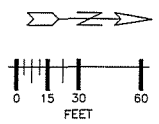


LEGEND

- REMOVE BITUMINOUS PAVEMENT
- REMOVE CLASS 5

NOTES:

1. ALL DISTURBED AREAS TO BE SEEDED, MULCHED AND FERTILIZED WITHIN 7 DAYS OF ROUGH GRADING.
2. THERE SHALL BE NO STOCKPILING INCLUDING TEMPORARY STOCK PILES OF MATERIALS IN WETLAND AREAS.
3. ALL LOCATIONS OF STOCKPILES SHALL BE SUBMITTED FOR THE CITY ENGINEER'S APPROVAL PRIOR TO STOCKPILING. ALL EROSION CONTROL FOR STOCKPILES SHALL BE PER BMPs AND SWPPP.
4. ALL SILT FENCE MUST BE IN PLACE BEFORE ANY LAND IS DISTURBED.
5. ALL OAK TREES TO BE REMOVED MUST NOT BE REMOVED OR TRIMMED BETWEEN APRIL 1ST AND JULY 15TH. IF OPERATIONS RESULT IN WOUNDS TO THE OAK TREES OR ROOTS BETWEEN APRIL 1ST AND JULY 15TH, ALL WOUNDS MUST BE TREATED IMMEDIATELY WITH A LATEX BASED PAINT AND ALL STUMPS MUST BE REMOVED FROM THE SITE IMMEDIATELY.
6. ALL TREES DETERMINED TO NEED REMOVAL BY CONTRACTOR AND NOT MARKED FOR REMOVAL ON THIS PLAN MUST BE APPROVED BY THE ENGINEER BEFORE REMOVAL.
7. CONTRACTOR TO SUBMIT SITE MANAGEMENT PLAN FOR FULL DEPTH SAW CUTTING SLURRY MANAGEMENT.
8. DISPOSE OF ALL REMOVAL MATERIAL LEGALLY OFF-SITE.
9. REMOVAL OF CUL-DE-SAC IS TO BE AFTER INSTALLATION OF BRIDGE IS COMPLETE.
10. REMOVAL OF SILT FENCE IS TO BE AFTER TURF ESTABLISHMENT.



BOPER ONE STATE CALL
800-252-1166 651-454-0002

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XCEL ENERGY (612) 526-4508

DATE	REVISION HISTORY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A duly Licensed Professional Engineer in the State of Minnesota.
PURPOSE: _____
DATE: _____ REG. NO. _____

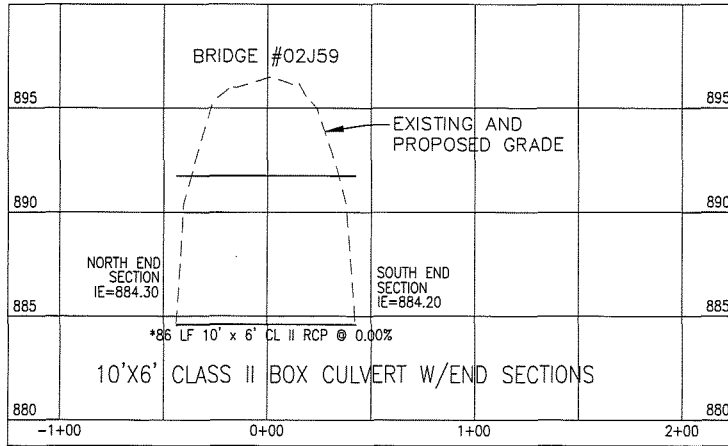
RFC ENGINEERING, INC.
Consulting Engineers

13635 Johnson Street
Horn Lake, MN 55304
Telephone 763-862-8000
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SAP - 197-080-001
COUNTY DITCH #58 CROSS CULVERT
REMOVAL PLAN

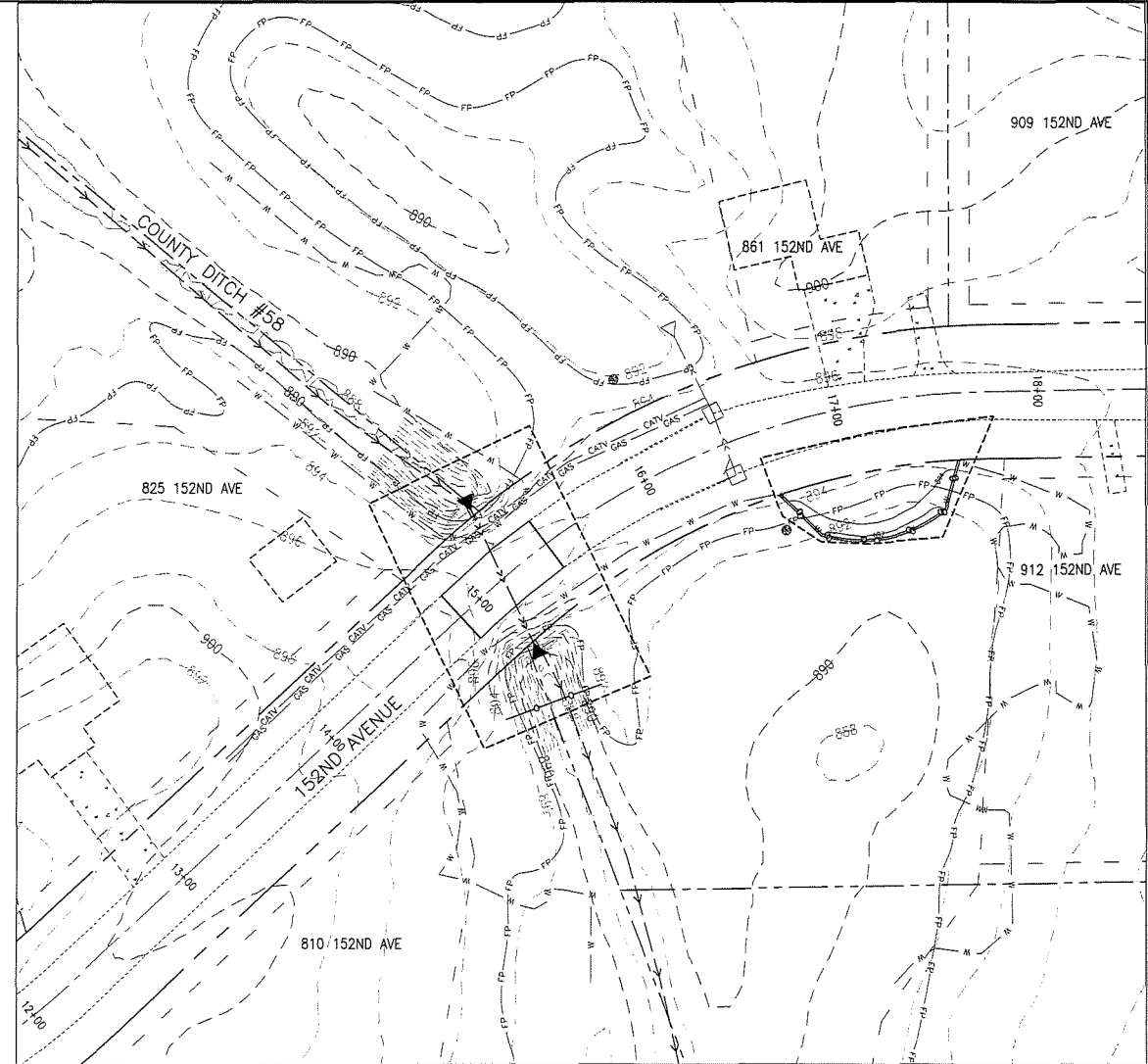
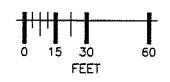
DWG: 2302.038 REMOVAL
DATE: 01/25/24
JOB NUMBER: 2302.038
SHEET: 16 OF 19
FILE: 37-2-165

DESIGN BY: DAK DRAWN BY: JAB CHECKED BY: TPC



75 LF 10' W X 6' H PRECAST CONCRETE BOX CULVERT WITH TYPE I AND TYPE III END SECTIONS

- NOTES:
- COUNTY DITCH 58 TO BE DEWATERED TO TWO FEET MINIMUM BELOW THE BOTTOM OF THE BOX CULVERT. CONTRACTOR SHALL SUBMIT THEIR DEWATERING PLAN TO COON CREEK WATERSHED DISTRICT FOR REVIEW PRIOR TO ANY DEWATERING.
 - REMOVE ANY ENCOUNTERED UNSUITABLE SOILS SUCH AS ORGANIC SOILS AND LOOSE SILTS FROM UNDER THE PROPOSED BOX CULVERT.
 - BACKFILL UNDER THE PROPOSED BOX CULVERT WITH DRY NATIVE GRANULAR MATERIAL AND COMPACT TO 100 PERCENT.
 - IF BOX CULVERT SETTLES, ADD BACKFILL, RECOMPACT, AND RESET BOX CULVERT.
 - JOINTS IN THE PRECAST CONCRETE BOX CULVERT SHALL BE SEALED USING AN MNDOT APPROVED JOINT SEALER MATERIAL (PREFORMED RUBBER, PREFORMED PLASTIC OR BITUMINOUS MASTIC). SEALANT TO CONFORM WITH MNDOT SPECIFICATIONS 2412.4B.
 - TIES SHALL BE PER MNDOT STANDARD PLATE 3145G FOR RECESSED TIES.
 - DEWATERING, BYPASSING, ADDITIONAL PERMITTING, JOINT SEALER, TIES, CLASS 5, ROCK, RIPRAP, LEAN MIX BACKFILL, GP CONCRETE DISTRIBUTION SLAB, AND COMPACTION ARE INCIDENTAL TO BOX CULVERT.
 - PROVIDE CLASS III RIPRAP WITH GEOTEXTILE FABRIC. NO GABIONS OR GRANULAR FILTER ARE TO BE USED. GEOTEXTILE FABRIC AND RIPRAP ARE INCIDENTAL.
 - NOTIFY COON CREEK WATERSHED DISTRICT ONE WEEK PRIOR TO THE CULVERT PLACEMENT AND TWO HOURS PRIOR TO THE COMPLETION OF EACH CULVERT PLACEMENT TO ALLOW SURVEYING OF INVERT.
 - *CULVERT LENGTH INCLUDES APRON.



Gopher State One Call
800-252-1166 651-454-0002

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	CENTERPOINT ENERGY (763) 323-2760
	COMCAST (952) 607-4078
	CONNEXUS ENERGY (763) 323-4288
	XCEL ENERGY (612) 526-4558

DATE	REVISION HISTORY

I HEREBY CERTIFY THAT THIS PLAN 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.

PURPOSE OF THIS PLAN: **CONSTRUCTION**

DATE: _____ REC. NO. _____

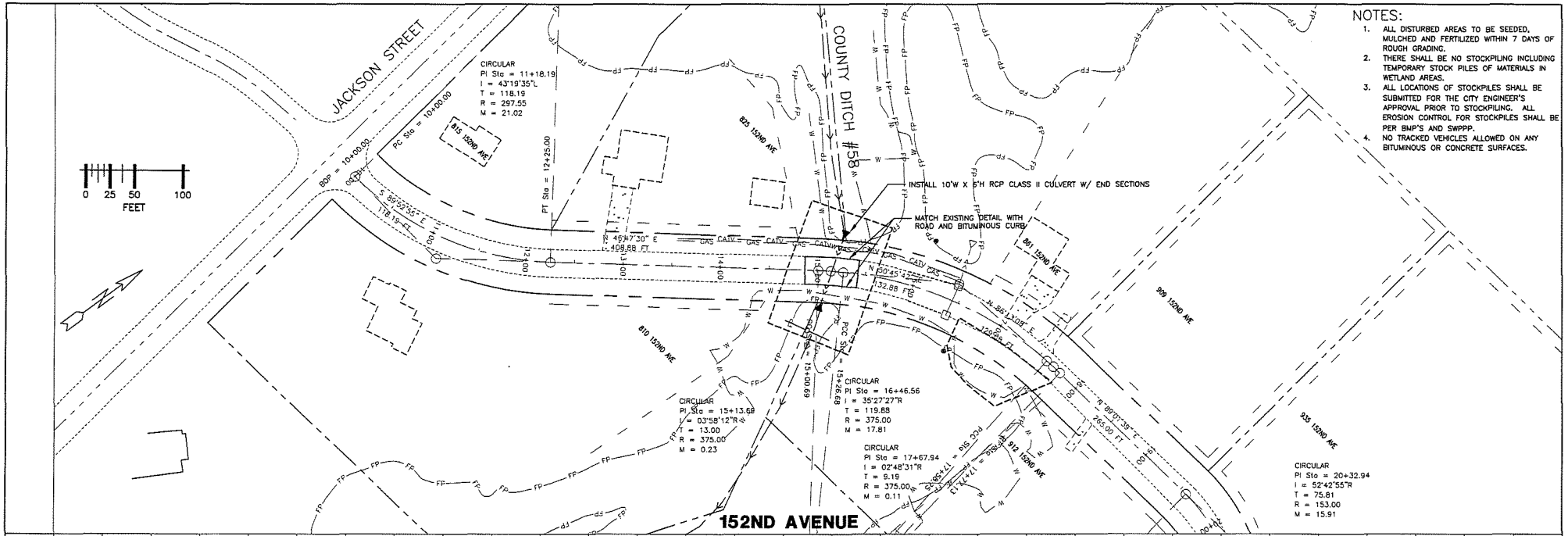
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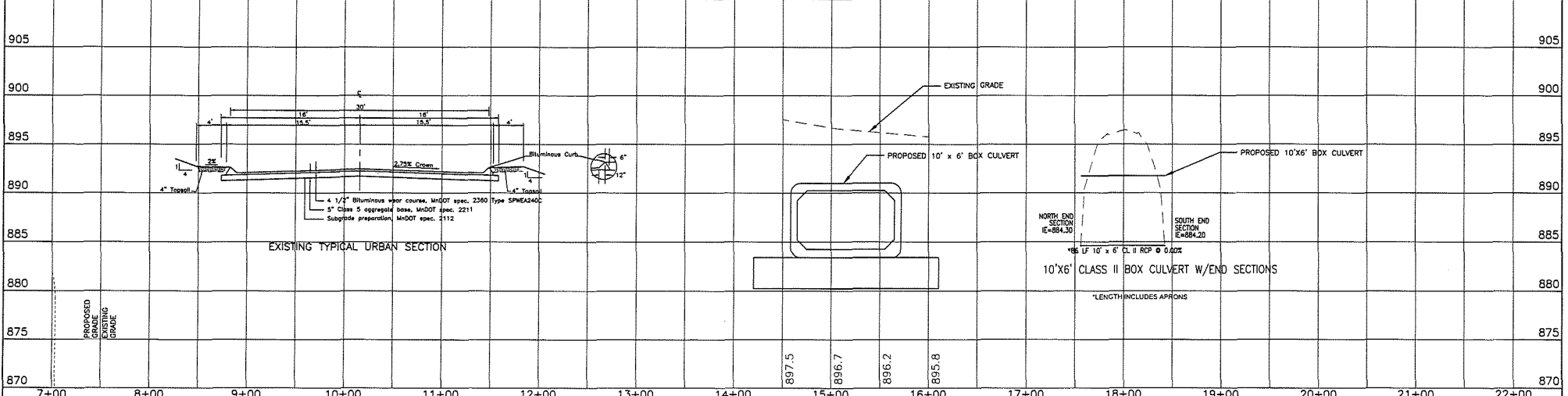
SAP - 197-080-001
COUNTY DITCH #58 CROSS CULVERT
BOX CULVERT PLAN AND PROFILE

DWG: 2302.038 STORM1
DATE: 01/25/24
JOB NUMBER: 2302.038
SHEET: 17 OF 19
FILE: 37-2-166

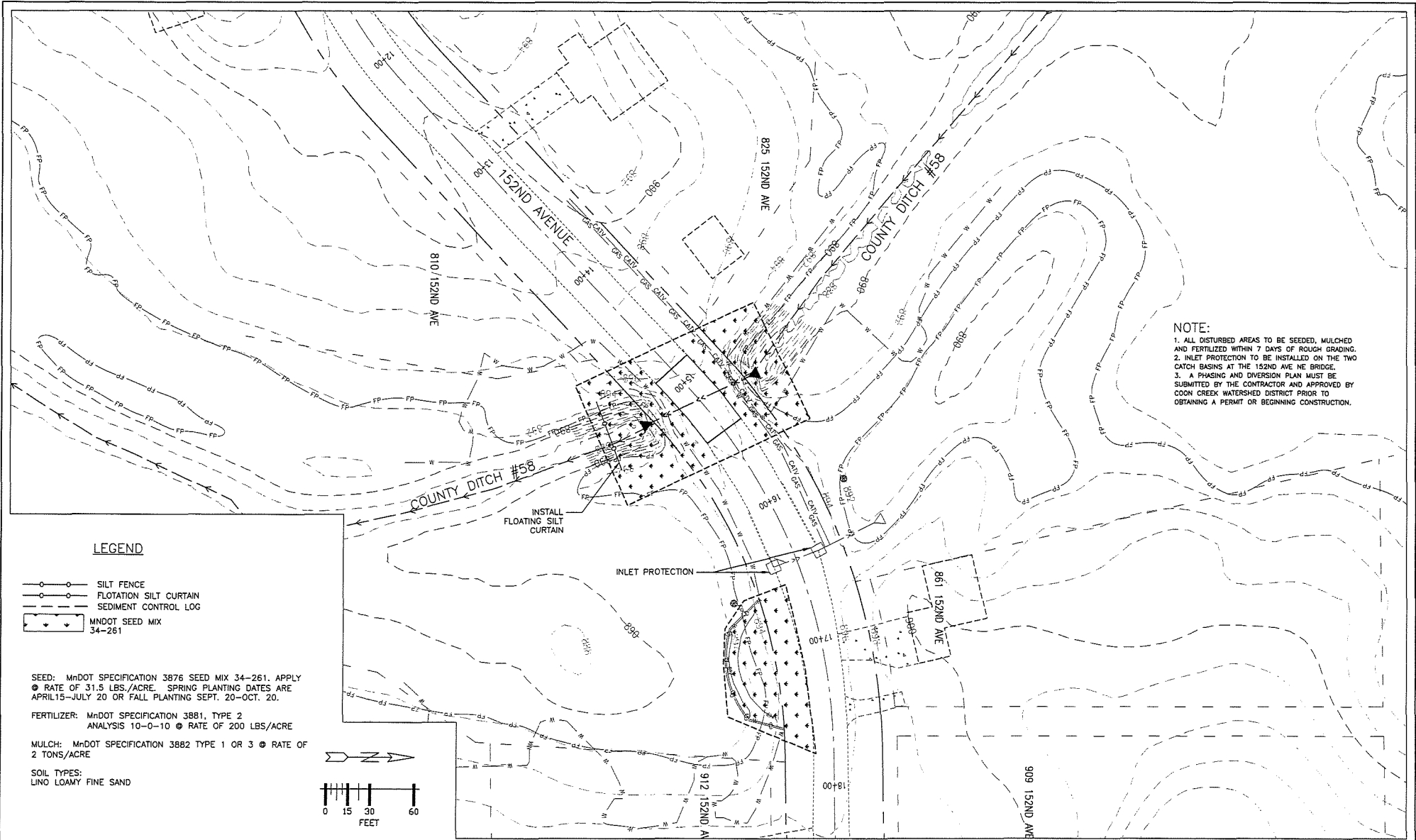
DESIGN BY: DAK DRAWN BY: JAB CHECKED BY: TPC



- NOTES:**
1. ALL DISTURBED AREAS TO BE SEED, MULCHED AND FERTILIZED WITHIN 7 DAYS OF ROUGH GRADING.
 2. THERE SHALL BE NO STOCKPILING INCLUDING TEMPORARY STOCK PILES OF MATERIALS IN WETLAND AREAS.
 3. ALL LOCATIONS OF STOCKPILES SHALL BE SUBMITTED FOR THE CITY ENGINEER'S APPROVAL PRIOR TO STOCKPILING. ALL EROSION CONTROL FOR STOCKPILES SHALL BE PER BMP'S AND SWPPP.
 4. NO TRACKED VEHICLES ALLOWED ON ANY BITUMINOUS OR CONCRETE SURFACES.



<p>800-252-1166 651-454-0002 PLOT DATE: 1/25/2024 11:42</p>	<p>UTILITIES:</p> <p>CENTURYLINK (763) 712-5017 CENTERPOINT ENERGY (763) 323-2780 COMCAST (651) 607-6076 CONNEXUS ENERGY (763) 323-4268 XCEL ENERGY (612) 526-4508</p>	<p>DATE</p>	<p>REVISION HISTORY</p>	<p>I HEREBY CERTIFY THAT THIS PLAN 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.</p> <p>PURPOSE OF THIS PLAN:</p>	<p>RFC ENGINEERING, INC. Consulting Engineers</p> <p>13635 Johnson Street Ham Lake, MN 55304 Telephone 763-862-8000 Fax 763-862-8042</p>	<p>SAP - 197-080-001 COUNTY DITCH #58 CROSS CULVERT</p> <p>BOX CULVERT PLAN AND PROFILE</p>	<p>DWG: RCP01900</p>
		<p>DATE</p>	<p>REC. NO.</p>				<p>DATE</p>



NOTE:

1. ALL DISTURBED AREAS TO BE SEEDED, MULCHED AND FERTILIZED WITHIN 7 DAYS OF ROUGH GRADING.
2. INLET PROTECTION TO BE INSTALLED ON THE TWO CATCH BASINS AT THE 152ND AVE. NE BRIDGE.
3. A PHASING AND DIVERSION PLAN MUST BE SUBMITTED BY THE CONTRACTOR AND APPROVED BY COON CREEK WATERSHED DISTRICT PRIOR TO OBTAINING A PERMIT OR BEGINNING CONSTRUCTION.

LEGEND

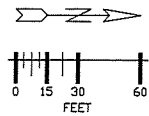
- ○ ○ SILT FENCE
- ○ ○ FLOTATION SILT CURTAIN
- ○ ○ SEDIMENT CONTROL LOG
- MNDOT SEED MIX 34-261

SEED: MnDOT SPECIFICATION 3876 SEED MIX 34-261. APPLY
 ● RATE OF 31.5 LBS./ACRE. SPRING PLANTING DATES ARE
 APRIL15-JULY 20 OR FALL PLANTING SEPT. 20-OCT. 20.

FERTILIZER: MnDOT SPECIFICATION 3881, TYPE 2
 ANALYSIS 10-0-10 ● RATE OF 200 LBS/ACRE

MULCH: MnDOT SPECIFICATION 3882 TYPE 1 OR 3 ● RATE OF
 2 TONS/ACRE

SOIL TYPES:
 LINO LOAMY FINE SAND



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 CONNEKUS ENERGY (763) 323-4268
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 LICENSED PROFESSIONAL
 ENGINEER UNDER THE LAWS OF THE
 STATE OF MINNESOTA.

PURPOSE: _____

DATE: _____ REG. NO. _____

RFC ENGINEERING, INC.
 Consulting Engineers

13635 Johnson Street
 Horn Lake, MN 55304
 Telephone 763-862-8000
 Fax 763-862-8042

SAP - 197-080-001
 COUNTY DITCH #58 CROSS CULVERT
 STORMWATER POLLUTION PREVENTION PLAN


DWG: 2302.038 SWPPP1
 DATE: 01/25/24
 JOB NUMBER: 2302.038
 SHEET: 19 OF 19
 FILE: 37-2-168

DESIGN BY: DAK DRAWN BY: JAB CHECKED BY: TPC

Memorandum

Date: February 29, 2024

To: Mayor and Councilmembers

From: David A. Krugler, City Engineer 

Subject: Rare Plant Taking Permit for construction of the Highway 65 East Frontage Road from 171st Avenue to 334 feet south of Crosstown Boulevard and the Crosstown Shopping Center street reconstruction

Introduction:

The Department of Natural Resources (MnDNR) requires the issuance of a Rare Plant Taking Permit (Permit) for the proposed taking (impacting) of rare plant species as a result of construction. A portion of the Permit requires mitigation to be provided, whether in the form of monetary value similar to wetland banking, or in improving a natural habitat that contains the same species of rare plants being taken. The plants are categorized by species and designated as either endangered, threatened, special concern or watch listed. The MnDNR is responsible for determining these categories.

Discussion:

Midwest Natural Resources conducted a botanical survey of rare plants for the East Frontage Road construction project (aka Crosstown Business Park) in October 2021. The survey involved documenting and recording any found rare plants species located within the survey limits. A botanical survey was previously conducted in the area for the Holiday Station redevelopment in June 2021. Along with those botanical surveys, an additional botanical survey was performed for the Crosstown Shopping Center street reconstruction project in July 2023. Between the three botanical surveys conducted in the area, eight rare plant species were identified among the sites. Of the eight species found; one species has been designated as endangered, four species have been designated as threatened, one species has been designated as special concern and two species have been designated as watch listed. Of the eight identified species, six will be taken with the construction projects. For the six species taken in conjunction with the road projects, only the four endangered and/or threatened species require a MnDNR Permit.

One of the Permit requirements is listing the species and the amount of said species taken with the construction projects. It also requires listing the mitigation that is to be provided for the taking of the species. Upon the initial submission of the East Frontage Road project to the MnDNR for the Permit, a site was proposed by the MnDNR at the Blaine Airport Rich Fen Scientific and Natural Area (SNA) at an initial estimated cost of \$60,000. The money would be sent to the MnDNR to mitigate the East Frontage Road taking of endangered and/or threatened plants. This cost would include the MnDNR managing the mitigation, hiring a contractor and monitoring the site for the required duration of 3 to 5 years. The mitigation would include hand removing invasive plants and spot treating the invasive plants with herbicides. This work would have to be completed by an ecological specialist for an estimated two to three times to achieve acceptable results. Utilizing the

SNA site proposed by the MnDNR would only cover the plants taken with the East Frontage Road project. The Crosstown Shopping Center street reconstruction has a different list of plants that would be impacted. A separate location and mitigation project would be required for the Crosstown Shopping Center reconstruction project. The MnDNR has stated that if the City chooses to have a different entity manage the mitigation, both projects could be combined into one Permit.

A botanical survey was completed at Soderville Park in October 2023. This site was chosen due to the size of the Park and the proximity to the two projects. The results of the botanical survey in the area determined that the Park has all of the rare plants that are being taken from both projects. Soderville Park is a suitable location to perform mitigation. The Anoka Conservation District (ACD) was contacted to assist with the Permit. The ACD proposed to manage the mitigation project and cover both construction projects, for an estimated cost of \$60,000. The attached ACD proposal includes their time to develop a management plan for the rare plants and hiring a contractor to do the corresponding work required for the mitigation. The proposal includes the ACD managing the mitigation for the required 3 to 5 years. The MnDNR would have to approve the ACD proposed management plan to have the mitigation completed at Soderville Park. Performing the mitigation at Soderville Park, the MnDNR will require the City to issue a protection status over the area that the mitigation will be performed. Protection options that were explored for the park were: (1) registering the area in the Natural Area Registry (NAR); (2) registering the area with the Minnesota Land Trust and identifying the Park as a conservation area or (3) establishing the area as a SNA.

Utilizing the Natural Area Registry for the site was considered to be the best option since they are non-binding voluntary agreements. However, after discussions with the MnDNR, this alternative is not viable. The NAR is not considered “formal” protection according to the MnDNR in relation to mitigation projects.

Using the Minnesota Land Trust would put a permanent and binding agreement over the applicable portion of Soderville Park enrolled in the program. After discussions with a representative of the MN Land Trust, this is not a viable alternative. MN Land Trust has specific grant funding that they use to manage the land under their protection. The program prevents the funding from being used on public land without special approval. MN Land Trust has stated that Soderville Park does not have enough acreage to be granted the special approval.

Establishing the area as a SNA is currently the only viable alternative. Establishing a SNA would limit what activities allowed within the Park, as a SNA is governed by Minnesota Rule 6136.0550. These activities include operation of motorized vehicles outside of designated areas and private events such as athletics and social events as a few examples. After discussions with the MnDNR, on whether or not the entirety of the park has to be enrolled or not, they have stated that the baseball field and heavily used areas can be excluded from the SNA and are preferred to be excluded.

The Blaine alternative proposed by the MnDNR would take all responsibility and work out of the City’s hands. However, this would only cover the East Frontage Road rare plant mitigation. To mitigate the taking of plants on the Crosstown Shopping Center Street reconstruction project a separate mitigation project and location will have to be conducted. The Blaine alternative has the benefit of not restricting land usage and removes the City from having to manage the mitigation or coordinating the mitigation with the managing party.

The ACD alternative at Soderville Park has the benefit of covering the mitigation for both projects at the same cost proposed by the MnDNR. However, this would require the City to put a portion of Soderville Park into protection status. This runs the risk of limiting the Park's potential expansion and use. The restriction area would be negotiated with the MnDNR during the mitigation plan development. It is anticipated that the restriction could be limited to the eastern and southern portion of the Park where the current rare plants exist by utilizing the SNA designation.

Recommendation:

It is recommended to approve the Anoka Conservation District in preparing a mitigation plan for the East Frontage Road Project and the Crosstown Shopping Center reconstruction project.