

CITY OF HAM LAKE

15544 Central Avenue NE
Ham Lake, Minnesota 55304
(763) 434-9555
Fax: (763) 434-9599

CITY OF HAM LAKE CITY COUNCIL AND ECONOMIC DEVELOPMENT AUTHORITY AGENDA TUESDAY, JULY 5, 2022

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

2.0 PUBLIC COMMENT

3.0 SPECIAL APPEARANCES/PUBLIC HEARINGS

3.1 6:01 P.M. – Public Hearing – To consider the vacation of a portion of the drainage and utility easement at 13339 Shenandoah Street NE (Lot 1, Block 2, Hidden Forest) and adoption of a Resolution

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 June 20, 2022

4.2 Approval of claims

4.3 Approval of an Ordinance rezoning Magers Meadows

4.4 Approval of the 2023 North Metro Telecommunications Commission Budget (NMTV)

4.5 Approval of purchasing a new City Sign from Crosstown Signs

4.6 Approval of the Creek Valley street reconstruction plans and specifications and authorization to advertise for bids

4.7 Approval of purchasing new AV Equipment at Fire Stations #1 and #2 from Z Systems

4.8 Approval of completed probationary period for firefighters

4.9 Approval of a Resolution appointing Election Judges for the Primary Election on August 9, 2022 and allowing the City Clerk to appoint additional judges if needed

5.0 PLANNING COMMISSION RECOMMENDATIONS

5.1 Gary Houle, Lino Lakes Landscaping, requesting Sketch Plan approval for Bluegrass Estates 3rd Addition (16 single family residential lots) located in Section 01

5.2 Larry Schwartz requesting Sketch Plan approval for Schwartz Estates (3 single family residential lots) located in Section 23

6.0 ECONOMIC DEVELOPMENT AUTHORITY – None

7.0 APPEARANCES – None

8.0 CITY ATTORNEY

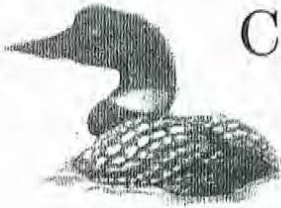
9.0 CITY ENGINEER

10.0 CITY ADMINISTRATOR

11.0 COUNCIL BUSINESS

11.1 Committee Reports

11.2 Announcements and future agenda items



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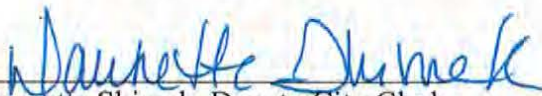
NOTICE OF PUBLIC HEARING VACATION OF PUBLIC LAND

NOTICE IS HEREBY GIVEN, that a Public Hearing will be held before the Ham Lake City Council July 5, 2022 at 6:01 p.m. in the City Council Chambers, City Hall, 15544 Central Avenue NE, 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:

Commencing at the Southeast corner of Lot 1, Block 2, HIDDEN FOREST, Anoka County, Minnesota;
thence on an assumed bearing of North 88 degrees 58 minutes 34 seconds West, along the southerly line of said Lot 1, a distance of 30.00 feet;
thence North 26 degrees 51 minutes 21 seconds West, along the westerly line of the dedicated drainage and utility easement a distance of 41.52 feet to the point of beginning of the easement to be vacated;
thence continuing North 26 degrees 51 minutes 21 seconds West, along said westerly line, a distance of 29.04 feet;
thence South 88 degrees 45 minutes 41 seconds East, a distance of 13.68 feet;
thence South 01 degrees 14 minutes 19 seconds West, a distance of 25.62 to the point of beginning.

Said hearing is conducted pursuant to Minnesota Statutes Chapter 412.851.

Dated: June 23, 2022


Dawnette Shimek, Deputy City Clerk

Posted at City Hall between the dates of June 23, 2022 and July 5, 2022

Published in the Star Tribune on June 23, 2022.

RESOLUTION NO. 22-XX

WHEREAS, a public hearing was held before the Ham Lake City Council on the 5th day of July, 2022 at 6:01 p.m. to consider the proposed vacation of certain lands within the City of Ham Lake;

NOW THEREFORE, BE IT RESOLVED by the City Council of the City of Ham Lake, that the following described property be vacated;

Commencing at the Southeast corner of Lot 1, Block 2, HIDDEN FOREST, Anoka County, Minnesota;

thence on an assumed bearing of North 88 degrees 58 minutes 34 seconds West, along the southerly line of said Lot 1, a distance of 30.00 feet;

thence North 26 degrees 51 minutes 21 seconds West, along the westerly line of the dedicated drainage and utility easement a distance of 41.52 feet to the point of beginning of the easement to be vacated;

thence continuing North 26 degrees 51 minutes 21 seconds West, along said westerly line, a distance of 29.04 feet;

thence South 88 degrees 45 minutes 41 seconds East, a distance of 13.68 feet;

thence South 01 degrees 14 minutes 19 seconds West, a distance of 25.62 to the point of beginning.

Adopted by the City Council of the City of Ham Lake this 5th day of July, 2022.

Brian Kirkham, Mayor

Denise Webster, City Clerk

CERTIFICATE OF SURVEY

~for~ JEFF GOOD
 ~of~ 13339 SHENANDOAH STREET NE
 HAM LAKE, MN

LEGAL DESCRIPTION

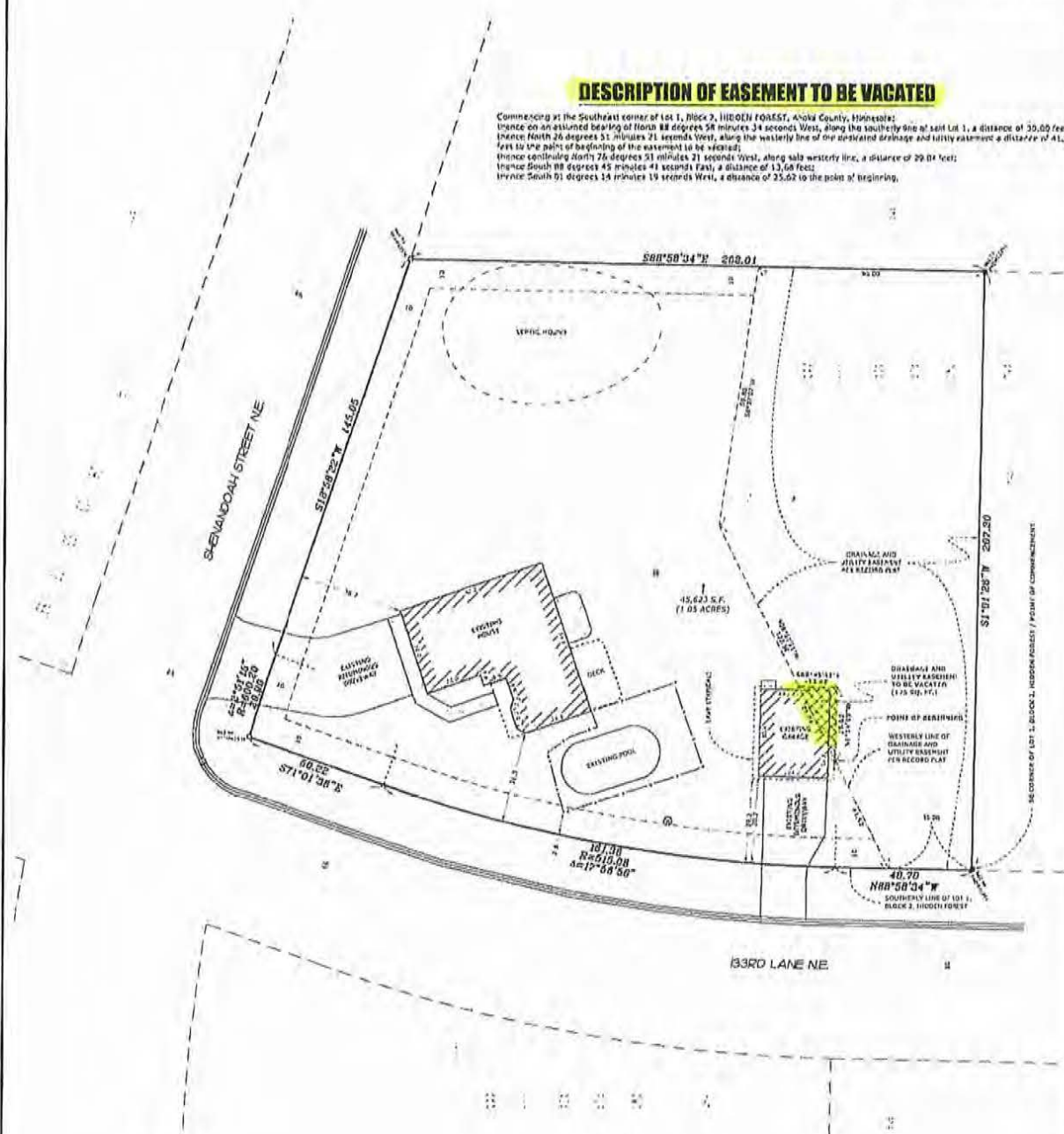
(PER ANOKA COUNTY TAX DESCRIPTION)
 Lot 1, Block 2, HIDDEN FOREST, Anoka County, Minnesota.

NOTES

- Field survey was completed by R. G. Rud and Sons, Inc. on 05/07/22.
- Bearings shown are on Anoka County datum.
- Parcel ID Number: 25-32-23-34-0004.
- Curb shots are taken at the top and back of curb.
- This survey was prepared without the benefit of title work. Additional easements, restrictions and/or encumbrances may exist other than those shown hereon. Survey subject to review upon receipt of a current title commitment or an attorney's title opinion.

DESCRIPTION OF EASEMENT TO BE VACATED

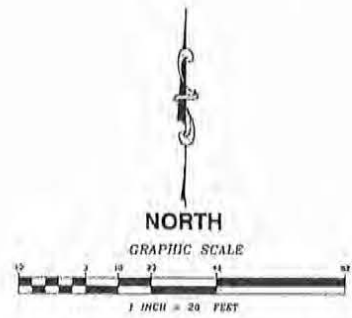
Commencing at the Southeast corner of Lot 1, Block 2, HIDDEN FOREST, Anoka County, Minnesota; thence on an assumed bearing of North 88 degrees 58 minutes 34 seconds West, along the southerly line of said Lot 1, a distance of 300.01 feet; thence North 26 degrees 51 minutes 21 seconds West, along the westerly line of the unrestrained drainage and utility easement a distance of 41.32 feet to the point of beginning of the easement to be vacated; thence continuing North 26 degrees 51 minutes 21 seconds West, along said westerly line, a distance of 29.04 feet; thence South 88 degrees 45 minutes 41 seconds East, a distance of 13.68 feet; thence South 91 degrees 14 minutes 19 seconds West, a distance of 25.67 to the point of beginning.



LEGEND

- DENOTES IRON MONUMENT FOUND AS LABELED
- DENOTES IRON MONUMENT SET, MARKED RLS# 41578
- DENOTES CATCH BASIN
- ⊙ DENOTES SEPTIC MANHOLE
- ⊙ DENOTES WELL
- DENOTES FENCE
- ▨ DENOTES BITUMINOUS SURFACE
- ▤ DENOTES CONCRETE SURFACE
- ▧ DENOTES EASEMENT TO BE VACATED

R. G. RUD & SONS, INC.
 Professional Land Surveyors
 6776 Lake Drive NE, Suite 110
 Lino Lakes, MN 55014
 Tel. (651) 361-0200 Fax (651) 361-0701
 www.egrud.com



I hereby certify that this survey, plan 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.

R. G. RUD
 Date: 05/10/2022 License No. 41578

DATE	BY	SCALE	REVISION
05/10/2022	R. G. RUD	AS SHOWN	1

GOOD, JEFFREY SCOTT
PIN: 35-32-23-34-0004
13339 SHENANDOAH ST NE
HAM LAKE, MN 55304

KULAS, GRETCHEN
PIN: 35-32-23-34-0016
3648 133RD LN NE
HAM LAKE, MN 55304

POSAVAD, KARYN
PIN: 35-32-23-34-0006
13357 SHENANDOAH ST NE
HAM LAKE, MN 55304

KINGSBURY, REBECCA S
PIN: 35-32-23-34-0005
3651 133RD LN NE
HAM LAKE, MN 55304

HUSSEIN, KADRA
PIN: 35-32-23-34-0015
3624 133RD LN NE
HAM LAKE, MN 55304

JAY JAMES J & MORTON CYNTHIA L
PIN: 35-32-23-33-0009
13400 SHENANDOAH ST NE
HAM LAKE, MN 55304

RIESCHL JAMES B & ELLEN L
PIN: 35-32-23-33-0017
3602 133RD LN NE
HAM LAKE, MN 55304

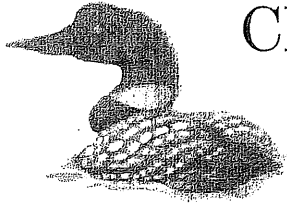
PRICE, MICHAEL J
PIN: 35-32-23-34-0017
3700 133RD LN NE
HAM LAKE, MN 55304

NOREN ANDREW
PIN: 35-32-23-34-0014
3709 133RD LN NE
HAM LAKE, MN 55304

FENSTERMACHER MATT R & SARA J
PIN: 35-32-23-33-0008
13348 SHENANDOAH ST NE
HAM LAKE, MN 55304

MONTEAN, MARK J
PIN: 02-31-23-21-0001
1230 SYCAMORE LN N
PLYMOUTH, MN 55441

- 11 notches -



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CITY OF HAM LAKE CITY COUNCIL AND ECONOMIC DEVELOPMENT AUTHORITY MINUTES MONDAY, JUNE 20, 2022

The Ham Lake City Council and Economic Development Authority met for its regular meeting on Monday, June 20, 2022 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 and Jesse Wilken

MEMBERS ABSENT: Councilmember Jim Doyle

OTHERS PRESENT: City Attorney, Joe Murphy; City Engineer, Tom Collins; Public Works Superintendent, John Witkowski; City Administrator, Denise Webster; 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.

Discussion of the open Councilmember Position

Mayor Kirkham stated that staff reached out to Al Parranto regarding filling the open Councilmember Position. Mayor Kirkham stated that Mr. Parranto has years of experience on the Planning Commission and City Council. **Motion by Kirkeide, seconded by Wilken to appoint Al Parranto to the open Councilmember Position. All present in favor, motion carried.** Administrator Webster administered the Oath of Office to Councilmember Al Parranto. Councilmember Parranto then took his seat at the council table.

2.0 PUBLIC COMMENT - None

3.0 SPECIAL APPEARANCES/PUBLIC HEARINGS

3.1 Commander Paul Lenzmeier, Anoka County Sheriff's Office Monthly Report

Commander Lenzmeier stated that Lt. John Wilson has retired from the Anoka County Sheriff's Department and he will be taking his place for the remainder of the year. Commander Lenzmeier gave the summary of the Sheriff's Report for the month of May 2022.

3.2 6:01 p.m. – Public Hearing – For citizens to have an opportunity to give written or oral input to reduce or eliminate pollutants from storm water runoff as part of the National Pollutant Discharge Elimination System (NPDES)

Mayor Kirkham opened the public hearing at 6:06 p.m. and asked for public comment; with there being none, Mayor Kirkham closed the public hearing at 6:06 p.m.

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 June 6, 2022 and Budget Workshop Meeting Minutes of June 6, 2022

4.2 Approval of claims in the amount of \$344,619.06

- 4.3 Approval of terminating the contract with Gratitude Farms effective September 21, 2022 and approving the Letter of Understanding for Impound Housing Services with the Animal Humane Society effective September 21, 2022
- 4.4 Approval of a 50% reduction for the Performance Security for Evergreen Estates Development
- 4.5 Approval of hiring Juan Cabral for the full-time Public Works Mechanic/Operator position, subject to a BCA check and CDL drug test
- 4.6 Approval of Resolution No. 22-21 scheduling a public hearing to vacate a portion of the drainage and utility easement at 13339 Shenandoah Street NE (Lot 1, Block 2, Hidden Forest)

Motion by Kirkeide, seconded by Wilken, to approve the June 6, 2022 Consent Agenda with the omission of item 4.1. Mayor Kirkham and Councilmembers Kirkeide and Wilken voted yes. Councilmember Parranto abstained. Motion carried.

Councilmember Kirkeide stated that the June 6, 2022 Budget Workshop Minutes indicate that Anoka County Sheriff's Office budget be a County levy on a separate line item. Councilmember Kirkeide stated that he would like staff to research and explore the possibility to have the Anoka County Sheriff's Office budget be separated out from other operating expenses in the City Levy. **Motion by Kirkeide, seconded by Wilken, to correct 4.1 of the City Council Budget Workshop Minutes as noted by the Deputy City Clerk. Mayor Kirkham and Councilmembers Kirkeide and Wilken voted yes. Councilmember Parranto abstained. Motion carried.**

5.0 PLANNING COMMISSION RECOMMENDATIONS

- 5.1 Gerald and Arlene Mager, Mager Trust, requesting Preliminary Plat and Final Plat Approval and Rezoning from CD-2, Commercial Development II, to R-1, Single Family Residential, for Magers Meadows, a minor plat (3 single family residential lots), located in Section 29 (this is considered the First Reading of a rezoning Ordinance)

Motion by Kirkham, seconded by Wilken, to concur with the Planning Commission and approve the request of Gerald and Arlene Mager, Mager Trust, for Preliminary Plat and Final Plat approval and rezoning of Magers Meadows, a 3 lot Minor Plat, from CD-2, Commercial Development II to R-1, Single Family Residential, located in Section 29 (PID# 29-32-23-22-0001), subject to the existing septic system on Lot 2, Block 2 being brought into compliance by May 4, 2024 and meeting all City, State and County requirements. All present in favor, motion carried. (This is considered the first reading of an Ordinance rezoning the property).

6.0 ECONOMIC DEVELOPMENT AUTHORITY - None

7.0 APPEARANCES – None

8.0 CITY ATTORNEY

- 8.1 Discussion of dredging the channel between South Coon Lake and Coon Lake

Attorney Murphy stated this item is on the agenda for discussion. There was a verbal agreement with one property owner that allowed the City to access the north side of the channel between South Coon Lake and Coon Lake: the owner sold the property and the current owner is not interested in allowing the City access or selling an easement to the City. At this time staff is looking for direction from the City Council regarding who should dredge the channel and how to proceed being there isn't an easement to access the channel. City Engineer Collins stated that to his knowledge the City has not dredged the channel; they have trimmed trees, trapped beavers and the bridge was reconstructed in 2010 and 2011. Attorney Murphy stated that in 1928 the Hiawatha Beach plat dedicated the channel and walking paths. Engineer Collins stated that the property owner to the northwest of the channel obtained a dredging permit from the DNR in 2001, and that

permit was transferred to the City in 2005. There have been permits issued by the DNR as recently as 2020 to the City. Councilmember Kirkeide stated the issue should be discussed with the DNR as an area hydrologist has stated disfavor of disturbing the sediment. Public Works Superintendent Witkowski stated that the City does not have the equipment to dredge the culvert and the DNR is not in favor of disturbing it.

Ted Ankrum, 17521 Interlachen Drive NE, asked the City Councilmembers if anyone has been to the site. Mr. Ankrum stated that it is a mess with overgrown willow trees, raspberry bushes and garbage. Mr. Ankrum stated he has lived there for 5 years and last year during the drought, being there was no water, would have been a perfect opportunity to clean it out. Councilmember Wilken asked how much sediment or dirt the current permit authorizes to be removed and it was determined 6-inches below the invert of the culvert placed in 1953.

Danielle Williams, 17444 Hiawatha Beach Drive NE, stated she has lived there for two-years and shared photos of the area where the retaining wall needs repairing, the overgrown trees are leaning and ready to fall into the channel and that it is because of a lack of maintenance. Ms. Williams stated that you can currently get a kayak through, but come July you will have to walk it through. Ms. Williams stated that the depth varies from 6-inches to 1-1/2-feet. Ms. Williams stated that you cannot get a boat through and with lack of activity it has become worse. Ms. Williams stated that there are two easements that snowmobilers use. Ms. Williams stated that a plan is needed and the City needs to follow through with this obligation.

Brian Hellquist, 3264 Interlachen Drive NE, stated that he has lived there for 25-years. Mr. Hellquist stated that the depth of the water fluctuates, but something does need to be done. Mr. Hellquist stated that the watershed wouldn't like the railroad-ties that the retaining wall is constructed of. Mayor Kirkham stated that this is in the Sunrise River Watershed Management Organization and this could be their issue. Mr. Hellquist stated that the City has used a backhoe at the mouth to clean it out. Mr. Hellquist stated that there is also a wake issue there. Mr. Hellquist stated that the path is blocked so no one can use it. Mr. Hellquist stated that the channel was about 3-feet deep when it was clear and a lot of sediment has settled there.

Lorie Hellquist, 3264 Interlachen Drive NE, asked when they could get the paths back. Attorney Murphy stated the path could be vacated or the abutting property owner could be required to move everything off the path. Ms. Hellquist asked why that owner got to take over the path. Ms. Hellquist added that the City needs to do something about it.

Yvonne Raether, 17442 Hiawatha Beach Drive NE, stated that when the City dredged the channel approximately 20 years ago, you could get boats through for a couple of years. Ms. Raether would appreciate it being opened up.

It was the consensus of the City Council to direct City Staff to contact representatives of the Sunrise Watershed District and the DNR and in the meantime have Public Works Superintendent Witkowski locate the corner pins for the pathway.

- 9.0 CITY ENGINEER – None
- 10.0 CITY ADMINISTRATOR – None
- 11.0 COUNCIL BUSINESS
- 11.1 Committee Reports - None

11.2 Consideration of appointment of Acting Mayor, Committee liaisons and liaisons with other organizations: Acting Mayor, , EDA President, EDA Vice President, Personnel (2), Economic Development, Met Council & Metropolitan Council Reform (2), Law Enforcement (2), Fire Department Liaisons (2), North Central Suburban Cable Communications Commission (and alternate), Ham Lake Chamber of Commerce (2), Road Committee (2), Ham Laker Task Force (2), Audit (2), Building/Energy Committee (2), Park Committee (2), Fire Relief Association Board of Trustees (3), Code Review Committee (2) (and alternate), Metropolitan Council reform effort Committee, Building Department Committee (2), CERT Committee

Motion by Kirkham, seconded by Parranto, to approve the following appointments for the remainder of 2022:

Acting Mayor (1).....Councilmember Wilken
EDA President (1).....Mayor Kirkham
EDA Vice President (1).....Councilmember Doyle
Personnel (2).....Mayor Kirkham & Councilmember Doyle
Economic Development (2).....Mayor Kirkham & Councilmember Parranto
Met Council & Metropolitan Council reform effort Committee (2).....Mayor Kirkham & Councilmember Kirkeide
Law Enforcement (2).....Mayor Kirkham & Councilmember Wilken
Fire Department Liaisons (2).....Mayor Kirkham & Councilmember Parranto
North Metro Telecommunications Commission (1).....Councilmember Wilken (alternate: Councilmember Parranto)
Chamber of Commerce (2).....Councilmember Kirkham & Administrator Webster
Road Committee (2).....Councilmembers Kirkeide & Doyle
Ham Laker Task Force (2).....Councilmembers Wilken & Parranto
Audit (2).....Mayor Kirkham & Councilmember Doyle
Building/Energy Committee (2).....Mayor Kirkham & Councilmember Kirkeide
Park Committee (2).....Mayor Kirkham & Councilmember Parranto
Fire Relief Association Board of Trustees (3).....Councilmember Kirkham, Fire Chief Raczkowski & Administrator Webster
Code Review Committee (2).....Councilmembers Kirkeide & Wilken (alternate: Mayor Kirkham)
Building Department Committee (2).....Councilmembers Kirkeide & Parranto
CERT Committee.....Councilmembers Wilken & Parranto, Fire Chief Raczkowski & a Liaison from the Sheriff's Department

All present in favor, motion carried.

11.3 Announcements and future agenda items - None

Motion by Kirkeide, seconded by Parranto, to adjourn the meeting at 7:03 p.m. All in favor, motion carried.

Dawnette Shimek, Deputy City Clerk

CITY OF HAM LAKE
CLAIMS SUBMITTED TO COUNCIL
July 5, 2022

CITY OF HAM LAKE

EFTS, CHECKS, AND BANK DRAFTS	06/21/22 - 07/05/22	
EFT	# 1676 - 1683	\$ 11,935.51
REFUND CHECKS	# 64079 - 64085	\$ 10,950.00
CHECKS	# 64086 - 64127	\$ 49,757.05
BANK DRAFTS	DFT0002387 - DFT0002393	\$ 24,832.31
TOTAL EFTS, CHECKS, AND BANK DRAFTS		<u>\$ 97,474.87</u>
PAYROLL CHECKS		
07/01/22		\$ 36,039.02
TOTAL PAYROLL CHECKS		<u>\$ 36,039.02</u>
TOTAL OF ALL PAYMENTS		<u><u>\$ 133,513.89</u></u>
VOID CHECKS		
CHECKS		\$ -
EFT		
BANK DRAFTS		

APPROVED BY THE HAM LAKE CITY COUNCIL THIS 5TH DAY OF JULY 2022

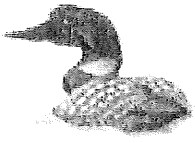
MAYOR

COUNCILMEMBER

COUNCILMEMBER

COUNCILMEMBER

COUNCILMEMBER



Packet: ARPKT00439 - 06/21/22 TRUST REFUNDS

Refund Detail

Account Number	Name	Check Date	Check Number	Amount
00135	TH CONSTRUCTION	6/21/2022	64079	5,100.00
00186	BRAD MALM	6/21/2022	64080	150.00
00198	JASON WEITZEL	6/21/2022	64081	5,100.00
00207	JENNIFER SAYLOR	6/21/2022	64082	150.00
00221	HAM LAKE LAKE ASSOCIATION	6/21/2022	64083	150.00
			Total Refund Amount:	10,650.00

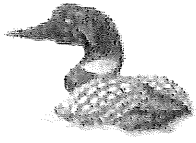
Revenue Totals

Revenue Code	Total Distribution
TRUST DEPOSITS - TRUST DEPOSITS	10,650.00
Revenue Totals:	10,650.00

General Ledger Distribution

Posting Date: 06/21/2022

Account Number	Account Name	Posting Amount	IFT
Fund: 890 - TRUST FUND			
890-10101	Cash-claim on pooled cash	-10,650.00	Yes
890-11501	Misc receivables	10,650.00	
	890 Total:	0.00	
Fund: 999 - POOLED CASH			
999-10100	Pooled Cash	-10,650.00	
999-20702	Due to other funds	10,650.00	Yes
	999 Total:	0.00	
	Distribution Total:	0.00	



Packet: ARPKT00444 - 06-27-22 TRUST REFUND

Refund Detail

Account Number	Name	Check Date	Check Number	Amount
00237	BRAD BRUESEHOFF	6/27/2022	64084	150.00
Total Refund Amount:				150.00

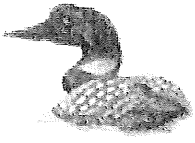
Revenue Totals

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

General Ledger Distribution

Posting Date: 06/27/2022

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: ARPKT00446 - 6/28/22 TRUST REFUNDS

Refund Detail

Account Number	Name	Check Date	Check Number	Amount
00245	PEGGY MOCK	6/28/2022	64085	150.00
Total Refund Amount:				150.00

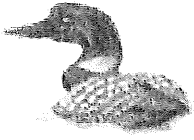
Revenue Totals

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

General Ledger Distribution

Posting Date: 06/28/2022

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	



Payment Dates 6/21/2022 - 7/5/2022

Payment Number	Vendor Name	Description (Item)	Account Name	Account Number	Amount
1676	OPTUM BANK - 6011	Health Savings Account-6011	Flexible spending	100-21705	54.17
1677	ARAMARK UNIFORM & CAREE	PW UNIFORMS	Clothing & personal protectiv	100-43101-2210	74.57
1677	ARAMARK UNIFORM & CAREE	FIRST AID CABINET	Safety supplies	100-43101-2240	12.00
1677	ARAMARK UNIFORM & CAREE	PARK UNIFORMS	Clothing & personal protectiv	100-44101-2210	25.65
1677	ARAMARK UNIFORM & CAREE	PW UNIFORMS	Clothing & personal protectiv	100-43101-2210	74.57
1677	ARAMARK UNIFORM & CAREE	FIRST AID CABINET	Safety supplies	100-43101-2240	12.00
1677	ARAMARK UNIFORM & CAREE	PARK UNIFORMS	Clothing & personal protectiv	100-44101-2210	25.65
1677	ARAMARK UNIFORM & CAREE	PW UNIFORMS	Clothing & personal protectiv	100-43101-2210	74.57
1677	ARAMARK UNIFORM & CAREE	FIRST AID CABINET	Safety supplies	100-43101-2240	12.00
1677	ARAMARK UNIFORM & CAREE	PARK UNIFORMS	Clothing & personal protectiv	100-44101-2210	25.65
1678	BRODIN PRESS	JULY HAM LAKER	Editing	211-41704-3125	900.00
1679	CMT JANITORIAL SERVICES	SHERIFF'S OFFICE CLEANING	Cleaning service	100-41702-3430	130.00
1679	CMT JANITORIAL SERVICES	CITY HALL CLEANING	Cleaning service	100-41702-3430	520.00
1679	CMT JANITORIAL SERVICES	FIRE #2 CLEANING	Cleaning service	100-42202-3430	128.00
1679	CMT JANITORIAL SERVICES	FIRE #1 CLEANING	Cleaning service	100-42202-3430	136.00
1679	CMT JANITORIAL SERVICES	PW CLEANING	Cleaning service	100-43104-3430	125.00
1679	CMT JANITORIAL SERVICES	SR CENTER CLEANING	Cleaning service	100-44202-3430	254.00
1680	DELTA DENTAL PLAN OF MINN	JULY DK COBRA	COBRA receivable	100-11502	42.00
1680	DELTA DENTAL PLAN OF MINN	JULY DENTAL	Flexible spending	100-21705	970.30
1681	FIRE EQUIPMENT SPECIALTIES	BOOTS	Clothing & personal protectiv	100-42201-2210	1,520.00
1682	MOBILE HEALTH SERVICES LLC	SCBA MEDICAL EXAMS	Personnel testing & recruitme	100-42201-3150	6,800.00
1683	O'REILLY AUTOMOTIVE STORE	TOGGLE SWITCH	Operating supplies	100-43101-2290	7.99
1683	O'REILLY AUTOMOTIVE STORE	MINI BULB	Operating supplies	100-43101-2290	11.39
64086	ALEX AIR APPARATUS, INC	FIRE #2 COMPRESSOR REPAIR	Equipment repair & maintena	100-42201-3440	397.66
64087	ALLIED BLACKTOP CO.	2022 SPRING STREET SWEEPI	Street sweeping	100-43101-2610	8,000.00
64088	ANOKA COUNTY TREASURY D	JULY BROADBAND FIRE #2	Internet & website	100-41301-3220	75.00
64088	ANOKA COUNTY TREASURY D	JULY BROADBAND	Internet & website	100-41301-3220	37.50
64089	BUREAU OF CRIMINAL APPRE	CHILD BACKGROUND CHECK -	Personnel testing & recruitme	100-43101-3150	15.00
64090	CENTRAL WOOD PRODUCTS I	STORM CLEAN UP	Waste management & recycli	231-43601-3630	75.00
64090	CENTRAL WOOD PRODUCTS I	RECYCLING DAY - TREE WASTE	Waste management & recycli	231-43601-3630	1,275.00
64091	CITY OF ST PAUL	5 TN ASPHALT MIX	Street repair & maintenance s	100-43101-2330	334.65
64092	COMMERCIAL ASPHALT CO.	3.09 TN HOT MIX	Street repair & maintenance s	100-43101-2330	215.84
64093	COMPUTERSHARE TRUST CO	2010 CIP BOND INTEREST	Interest	370-47101-6120	12,221.88
64094	CONNEXUS ENERGY	MAY HAM LAKE WELL	Electricity	100-44101-3610	187.51
64095	DEARBORN LIFE INS CO	JULY LIFE	Other payroll deductions	100-21706	54.40
64095	DEARBORN LIFE INS CO	JULY VOL LIFE	Other payroll deductions	100-21706	185.70
64095	DEARBORN LIFE INS CO	JULY LIFE - CH	Life/disability/other insurance	100-43101-1320	3.20
64096	DEHN OIL CO	200 GAL GASOLINE	Fuel	100-43101-2230	877.00
64096	DEHN OIL CO	200 GAL DIESEL	Fuel	100-43101-2230	1,010.00
64097	EMBEDDED SYSTEMS INC	SIREN MAINTENANCE JUL - D	Equipment repair & maintena	100-42302-3440	3,597.75
64098	ERIK HLIVKA	CDL TRAINING	Training/conferences/schools	100-43101-3510	495.00
64099	ESCAPE FIRE	ANNUAL FIRE SPRINKLER INSP	Inspections	100-43104-3460	535.00
64100	EVERGREEN RECYCLING LLC	MATTRESS - SPRING RECYCLIN	Operating supplies	231-43601-2290	320.00
64101	FIRE INSTRUCTION & RESCUE	LP EMERGENCIES/HANDS ON	Training supplies	100-42201-3530	850.00
64101	FIRE INSTRUCTION & RESCUE	FIRE GROUND OPERATIONS/FI	Training/conferences/schools	100-42201-3510	600.00
64102	HYDRAULIC SPECIALTY CO INC	#61 PUMP REPAIR	Equipment repair & maintena	100-43101-3440	654.17
64103	IDEAL ADVERTISING	T-SHIRTS	Clothing & personal protectiv	100-44101-2210	420.00
64104	JIM KAPPELHOFF	CDL TRAINING MEALS	Training/conferences/schools	100-43101-3510	88.68
64104	JIM KAPPELHOFF	CDL TRAINING	Training/conferences/schools	100-43101-3510	495.00
64104	JIM KAPPELHOFF	CDL TRAINING MILEAGE	Mileage	100-43101-3960	214.70
64105	LEPAGE & SONS INC	5/31 YARDWASTE	Waste management & recycli	231-43601-3630	426.60
64105	LEPAGE & SONS INC	6/14/22 YARDWASTE	Waste management & recycli	231-43601-3630	426.60
64106	LINCOLN NATIONAL LIFE INSU	JUNE ST DISABILITY ADJ	Other payroll deductions	100-21706	6.24
64106	LINCOLN NATIONAL LIFE INSU	JULY LT DISABILITY	Other payroll deductions	100-21706	403.35

Payment Number	Vendor Name	Description (Item)	Account Name	Account Number	Amount
64106	LINCOLN NATIONAL LIFE INSU	JULY ST DISABILITY	Other payroll deductions	100-21706	769.83
64107	MENARDS-BLAINE	PREEN WEED PREVENTION	Operating supplies	100-43101-2290	47.96
64107	MENARDS-BLAINE	LION'S PARK SUPPLIES	Operating supplies	100-44101-2290	39.97
64107	MENARDS-BLAINE	PW BUILDING SUPPLIES	Building repair & maintenanc	100-43104-2310	179.09
64107	MENARDS-BLAINE	PW BUILDING SUPPLY	Building repair & maintenanc	100-43104-2310	20.96
64108	MINNESOTA EQUIPMENT	#55 DC GENERATOR & BELT	Equipment parts & supplies	100-44101-2320	250.59
64108	MINNESOTA EQUIPMENT	OIL FILTER	Operating supplies	100-43101-2290	21.09
64109	MN METRO NORTH TOURISM	APRIL LODGING TAX	Convention bureau	263-46101-4120	1,927.57
64109	MN METRO NORTH TOURISM	MAY LODGING TAX	Convention bureau	263-46101-4120	2,356.12
64109	MN METRO NORTH TOURISM	MARCH LODGING TAX	Convention bureau	263-46101-4120	1,984.65
64110	MN/WI PLAYGROUND INC	BASKETBALL NETS	Operating supplies	100-44101-2290	85.00
64111	NCPERS GROUP LIFE INSURAN	JULY LIFE	Other payroll deductions	100-21706	112.00
64112	PRO HYDRO-TESTING LLC	SCBA HYDRO-TESTING	Equipment repair & maintena	100-42201-3440	1,728.00
64113	PTL TIRE INC	C-1 TIRE REPAIR	Fire apparatus repair & maint	100-42201-3450	35.70
64114	S & S INDUSTRIAL SUPPLY INC	SCREWS	Operating supplies	100-43101-2290	2.00
64115	SITEONE LANDSCAPE SUPPLY	HAM LAKE PARK - IRRIGATION	Operating supplies	100-44101-2290	50.95
64115	SITEONE LANDSCAPE SUPPLY	SPRINKLER PARTS FOR HAM L	Operating supplies	100-44101-2290	46.96
64115	SITEONE LANDSCAPE SUPPLY	HAM LAKE PARK SPRIKLER PA	Operating supplies	100-44101-2290	129.74
64115	SITEONE LANDSCAPE SUPPLY	LION'S PARK EDGING	Operating supplies	100-44101-2290	50.33
64115	SITEONE LANDSCAPE SUPPLY	HAM LAKE PARK RISER EXTEN	Operating supplies	100-44101-2290	24.09
64115	SITEONE LANDSCAPE SUPPLY	SPRINKLER HEADS	Operating supplies	100-44101-2290	544.84
64116	SPEEDPRO SAINT PAUL	SCBA NUMBER DECALS	Equipment parts & supplies	100-42201-2320	85.00
64117	TASC	AUGUST COBRA ADMINISTRA	Other professional services	100-41701-3190	15.00
64118	TDS METROCOM INC	763-434-0454 ELEVATOR	Phones/radios/pagers	100-41701-3210	39.02
64118	TDS METROCOM INC	763-434-9605 FIRE #2	Phones/radios/pagers	100-42201-3210	37.02
64119	THE MPX GROUP	JULY HAM LAKER DELIVERY	Other services and charges	211-41704-3990	130.00
64120	TURFWERKS	#65 TIRE	Equipment parts & supplies	100-44101-2320	184.29
64121	TWIN CITY HARDWARE INC	MISC BUILDING SUPPLIES	Building repair & maintenanc	100-43104-2310	1,440.20
64122	UNLIMITED SUPPLIES INC	MISC SUPPLIES	Operating supplies	100-43101-2290	68.68
64123	US BANK CORPORATE PAYME	GOOD CUSTOMER REBATE	Refunds & reimbursements	100-37601	-188.63
64123	US BANK CORPORATE PAYME	ZOOM-- JUNE Zoom-DW	Dues & subscriptions	100-41201-3920	12.84
64123	US BANK CORPORATE PAYME	MCFOA-- Denise MCFOA Me	Dues & subscriptions	100-41201-3920	51.48
64123	US BANK CORPORATE PAYME	MCFOA-- Dawnette MCFOA M	Dues & subscriptions	100-41301-3920	51.48
64123	US BANK CORPORATE PAYME	IOS-hdmi cable, ubs port-NW	Office supplies	100-41401-2110	26.47
64123	US BANK CORPORATE PAYME	GFOA-GFOA MEMBERSHIP - A	Dues & subscriptions	100-41401-3920	190.00
64123	US BANK CORPORATE PAYME	AMAZON-tape dispencer blad	Office supplies	100-41701-2110	28.00
64123	US BANK CORPORATE PAYME	IOS-post it notes-NW	Office supplies	100-41701-2110	10.73
64123	US BANK CORPORATE PAYME	AMAZON-envelopes-NW	Office supplies	100-41701-2110	44.12
64123	US BANK CORPORATE PAYME	IOS-pens-NW	Office supplies	100-41701-2110	49.65
64123	US BANK CORPORATE PAYME	IOS-copier paper-NW	Office supplies	100-41701-2110	131.85
64123	US BANK CORPORATE PAYME	IOS-batteris, papertowls,toner	Operating supplies	100-41701-2290	178.03
64123	US BANK CORPORATE PAYME	AMAZON-name plates for cha	Operating supplies	100-41701-2290	142.43
64123	US BANK CORPORATE PAYME	AMAZON-flashlights-NW	Operating supplies	100-41701-2290	37.98
64123	US BANK CORPORATE PAYME	AMAZON-city hall window de	Operating supplies	100-41701-2290	36.15
64123	US BANK CORPORATE PAYME	PANTHEON-JUNE city website	Software licenses & upgrades	100-41701-2510	300.00
64123	US BANK CORPORATE PAYME	IOS-index tabs, label tabs-NW	Office supplies	100-42201-2110	30.48
64123	US BANK CORPORATE PAYME	SPEEDWAY-WATER-MR	Emergency food & beverage	100-42201-2220	25.96
64123	US BANK CORPORATE PAYME	AMAZON-D batteries Fire-NW	Operating supplies	100-42201-2290	30.58
64123	US BANK CORPORATE PAYME	QUEEN CITY BAKERY-FRAUD C	Operating supplies	100-42201-2290	3.00
64123	US BANK CORPORATE PAYME	QUEEN CITY BAKERY-FRAUD C	Operating supplies	100-42201-2290	-3.00
64123	US BANK CORPORATE PAYME	HARDWARE HANK-NUTS & BO	Equipment parts & supplies	100-42201-2320	9.96
64123	US BANK CORPORATE PAYME	CLAREY'S-CAN HOLDERS-MR	Equipment parts & supplies	100-42201-2320	121.50
64123	US BANK CORPORATE PAYME	CLAREY'S-CAN HOLDERS-MR	Equipment parts & supplies	100-42201-2320	279.00
64123	US BANK CORPORATE PAYME	CLAREY'S-ADAPTERS-MR	Equipment parts & supplies	100-42201-2320	205.00
64123	US BANK CORPORATE PAYME	MBFTE-DUPLICATE FF LICENSE	Professional licenses & certific	100-42201-3520	-50.00
64123	US BANK CORPORATE PAYME	IOS-toner Mark-NW	Office supplies	100-42401-2110	117.51
64123	US BANK CORPORATE PAYME	IAPMO-code books-NW	Codes & standards	100-42401-2820	-424.65
64123	US BANK CORPORATE PAYME	U OF M- BOOK REFUND THO	Training/conferences/schools	100-42401-3510	-45.00
64123	US BANK CORPORATE PAYME	BP-Fuel for Small engines-JW	Fuel	100-43101-2230	152.52
64123	US BANK CORPORATE PAYME	DAYS INN-CDL TRAINING HOT	Training/conferences/schools	100-43101-3510	84.00

Council Approval List

Payment Dates: 6/21/2022 - 7/5/2022

Payment Number	Vendor Name	Description (Item)	Account Name	Account Number	Amount
64123	US BANK CORPORATE PAYME	DAYS INN-CDL TRAINING HOT	Training/conferences/schools	100-43101-3510	84.00
64126	VERIZON WIRELESS	MR	Phones/radios/pagers	100-42201-3210	41.21
64126	VERIZON WIRELESS	TD, MJ, TK & 2 LAPTOPS	Phones/radios/pagers	100-42401-3210	208.65
64126	VERIZON WIRELESS	JK, JW, EXTRA, CS, EH, & 2 LAP	Phones/radios/pagers	100-43101-3210	294.06
64126	VERIZON WIRELESS	DH, AC	Phones/radios/pagers	100-44101-3210	82.42
64127	US POSTMASTER	SEPTIC POSTCARD POSTAGE	Postage	100-42401-2120	502.19
DFT0002387	MN STATE DEPT OF REVENUE-	MAY '22 FUEL TAX	Fuel	100-43101-2230	67.55
DFT0002388	COMPENSATION CONSULTAN	Health Savings Account	Flexible spending	100-21705	333.32
DFT0002389	EMPOWER	Deferred Compensation	Deferred compensation	100-21704	1,520.00
DFT0002389	EMPOWER	Roth IRA	Deferred compensation	100-21704	100.00
DFT0002390	IRS-Payroll Tax	Federal Withholding	Federal WH/FICA/MC	100-21701	4,842.97
DFT0002390	IRS-Payroll Tax	Medicare Payable	Federal WH/FICA/MC	100-21701	1,523.48
DFT0002390	IRS-Payroll Tax	Social Security Payable	Federal WH/FICA/MC	100-21701	6,031.76
DFT0002391	MN STATE DEPT OF REVENUE-	MN State Withholding	State W/H	100-21702	2,241.99
DFT0002392	PERA	Retirement-Coordinated	PERA	100-21703	6,494.14
DFT0002392	PERA	Retirement-Police & Fire	PERA	100-21703	1,146.78
DFT0002393	US POSTMASTER	POSTAGE 6629	Postage	211-41704-2120	530.32
Grand Total:					86,524.87

Report Summary

Fund Summary

Fund	Payment Amount
100 - GENERAL	63,951.13
211 - HAM LAKER	1,560.32
231 - RECYCLING	2,523.20
263 - LODGING TAX	6,268.34
370 - 2010 CIP BOND DEBT	12,221.88
Grand Total:	86,524.87

Account Summary

Account Number	Account Name	Payment Amount
100-11502	COBRA receivable	42.00
100-21701	Federal WH/FICA/MC	12,398.21
100-21702	State W/H	2,241.99
100-21703	PERA	7,640.92
100-21704	Deferred compensation	1,620.00
100-21705	Flexible spending	1,357.79
100-21706	Other payroll deductions	1,531.52
100-37601	Refunds & reimburseme	-188.63
100-41201-3920	Dues & subscriptions	64.32
100-41301-3220	Internet & website	112.50
100-41301-3920	Dues & subscriptions	51.48
100-41401-2110	Office supplies	26.47
100-41401-3920	Dues & subscriptions	190.00
100-41701-2110	Office supplies	264.35
100-41701-2290	Operating supplies	394.59
100-41701-2510	Software licenses & upgr	300.00
100-41701-3190	Other professional servi	15.00
100-41701-3210	Phones/radios/pagers	39.02
100-41702-3430	Cleaning service	650.00
100-42201-2110	Office supplies	30.48
100-42201-2210	Clothing & personal prot	1,520.00
100-42201-2220	Emergency food & bever	25.96
100-42201-2290	Operating supplies	30.58
100-42201-2320	Equipment parts & suppl	700.46
100-42201-3150	Personnel testing & recr	6,800.00
100-42201-3210	Phones/radios/pagers	78.23
100-42201-3440	Equipment repair & mai	2,125.66
100-42201-3450	Fire apparatus repair &	35.70
100-42201-3510	Training/conferences/sc	600.00
100-42201-3520	Professional licenses & c	-50.00
100-42201-3530	Training supplies	850.00
100-42202-3430	Cleaning service	264.00
100-42302-3440	Equipment repair & mai	3,597.75
100-42401-2110	Office supplies	117.51
100-42401-2120	Postage	502.19
100-42401-2820	Codes & standards	-424.65
100-42401-3210	Phones/radios/pagers	208.65
100-42401-3510	Training/conferences/sc	-45.00
100-43101-1320	Life/disability/other insu	3.20
100-43101-2210	Clothing & personal prot	223.71
100-43101-2230	Fuel	2,107.07
100-43101-2240	Safety supplies	36.00
100-43101-2290	Operating supplies	159.11
100-43101-2330	Street repair & mainten	550.49
100-43101-2610	Street sweeping	8,000.00
100-43101-3150	Personnel testing & recr	15.00
100-43101-3210	Phones/radios/pagers	294.06
100-43101-3440	Equipment repair & mai	654.17

Account Summary

Account Number	Account Name	Payment Amount
100-43101-3510	Training/conferences/sc	1,246.68
100-43101-3960	Mileage	214.70
100-43104-2310	Building repair & mainte	1,640.25
100-43104-3430	Cleaning service	125.00
100-43104-3460	Inspections	535.00
100-44101-2210	Clothing & personal prot	496.95
100-44101-2290	Operating supplies	971.88
100-44101-2320	Equipment parts & suppl	434.88
100-44101-3210	Phones/radios/pagers	82.42
100-44101-3610	Electricity	187.51
100-44202-3430	Cleaning service	254.00
211-41704-2120	Postage	530.32
211-41704-3125	Editing	900.00
211-41704-3990	Other services and charg	130.00
231-43601-2290	Operating supplies	320.00
231-43601-3630	Waste management & r	2,203.20
263-46101-4120	Convention bureau	6,268.34
370-47101-6120	Interest	12,221.88
	Grand Total:	86,524.87

Project Account Summary

Project Account Key	Payment Amount
None	84,001.67
231002001	1,595.00
231004009	853.20
231004010	75.00
	Grand Total:
	86,524.87



City of Ham Lake, MN

EFT Payroll Check Register Report Summary

Pay Period: 6/12/2022-6/25/2022

Packet: PYPKT01339 - PPE 6/25/22 PAID 7/1/22
Payroll Set: City of Ham Lake - 01

Type	Count	Amount
Regular Checks	0	0.00
Manual Checks	0	0.00
Reversals	0	0.00
Voided Checks	0	0.00
Direct Deposits	37	36,039.02
Total	37	36,039.02

ORDINANCE NO. 22-XX

AN ORDINANCE AMENDING A PORTION OF CHAPTER 9 OF THE CITY OF HAM LAKE, COUNTY OF ANOKA, STATE OF MINNESOTA.

The City Council of the City of Ham Lake does hereby ordain as follows, pursuant to Article 9 of the Ham Lake City Code.

That the zoning classification for the following described property situated in the City of Ham Lake, Anoka County, Minnesota is hereby designated R-1 (Single Family Residential) (Magers Meadows).

PID# 29-32-23-22-0001

THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 29, TOWNSHIP 32, RANGE 23, ANOKA COUNTY, MINNESOTA.

Presented to the Ham Lake City Council on June 20, 2022 and adopted by a unanimous vote this 5th day of July, 2022.

Brian Kirkham, Mayor

Denise Webster, City Clerk

Meeting Date: July 5, 2022

CITY OF HAMLAKE

STAFF REPORT

To: Mayor and Councilmembers

From: Denise Webster, City Administrator

Subject: 2023 North Metro Telecommunications Commission Budget (NMTV)

Introduction/Discussion: Attached is a copy of the NMTV 2023 proposed budget which has been approved by the Operations Committee and the Commission.

Recommendation: I recommend approval of the 2023 North Metro Telecommunications Budget as presented.



June 16, 2022

TO: NMTC OPERATIONS COMMITTEE

**RE: APPROVAL OF 2023 NORTH METRO TELECOMMUNICATIONS
COMMISSION BUDGET**

Enclosed, please find for the council's review and approval the 2023 North Metro Telecommunications Commission Budget and support materials.

The Commission's operating budget for 2023 is proposed at \$1,413,098. This number represents a \$59,589 increase over last year's operating budget. The increase includes an up to 2.75% COLA increase for staff, benefits increase, building maintenance costs, bandwidth costs, higher energy rates, and insurance costs.

Budgeted capital costs for 2023 are \$628,335. This number represents a \$39,161 decrease from the 2022 budget. Capital expenditures include video equipment for North Metro TV, office equipment, parking lot repairs, \$229,425 for the HD Bond payment, and \$200,000 to be returned to cities for capital expenditures.

In total, the 2023 budget is \$20,248 higher than the 2022 budget.

Recommendation: That the Member Cities approve the 2023 Commission Budget as recommended by the Telecommunications Commission and the Operations Committee.

The Joint Powers Agreement states, "submitted budgets shall be deemed approved by a Member City unless, prior to October 15 preceding the effective date of the proposed budget, the Member City gives notice in writing to the Commission that it is withdrawing from the Commission."

I want to thank the Commission directors, staff, and the Operations Committee for their efforts in preparing these budgets. If you have any questions about either budget please consult with your Commission director or City Administrator.

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I look forward to working with all parties, throughout the remainder of 2021, toward reaching the full potential of North Metro TV and to increase both the quality and quantity of community programming and services in 2022.

Sincerely,

A handwritten signature in black ink, appearing to read "Dale Stoesz", with a long horizontal flourish extending to the right.

Dale Stoesz
Chair, North Metro Telecommunications Commission

Enc.

2023 North Metro Telecommunications Commission Budget Talking Points

Overall Organizational Goals

- Implement Strategic Plan.
- Franchise renewal.
- Explore additional services for Cities.
- Grow commercial productions.
- Provide staff for meeting coverage.
- Continue to be responsive to cities communications needs.
- Maintain accessibility of all channels through live streaming, OTT channels, and video on demand services, 24-hours-a-day, on any device.
- Provide program playback, video transport, channel management services, video equipment maintenance and consulting services, internet streaming services for city channels, VOD libraries for meetings, meeting management software licenses and bookmarking services, program production and event coverage services, home-media transfer services, and public access to television production for our cities, schools and general public.

Estimated Fund Balance/Revenues/Expenses

- The beginning fund balances for 2023 are estimates based on previous allocations, planned spending for 2022, and estimated income.
- Estimated revenues include: Franchise fees, including the actual first quarter franchise fee payment, with anticipated reductions across quarters two through four. PEG fees based on estimated number of subscribers, throughout 2023, multiplied by the PEG fee, or by a percentage in a new franchise document. Other income includes dub fees, home movie transfers, drone, streaming and production services. Interest income is estimated based on the first quarter interest earnings of this year.
- Estimated expenditures include the operating expenses and capital expenses including the bond payment, production and office equipment, and the fee payment to the cities.
- The year end fund balances include:
 - The **Operating reserve** traditionally at 25% of the operating budget. Temporarily includes additional allocations for possible 2023 budgetary support.
 - **Accrued vacation, sick and comp** time. The total value of owed vacation, sick, and comp time to employees.
 - The **capital equipment fund** is intended for emergency replacement of unplanned equipment failures.

- The **vehicle replacement fund** is to cover the cost of a new fleet vehicle.
- The **building repair fund** is to cover major costs related to the building such as windows, roof, furnace, parking lot, AC replacement and painting, carpet replacement etc.
- The **franchise renewal fund** is a reserve fund for the NMTC's franchise renewal process. Franchise renewal can be very expensive, with the informal negotiation process historically costing around \$200,000 across the renewal period. Moving to a formal negotiation process is more expensive. These costs could include needs assessments, consulting, and legal fees.

Budget

- The recommended operating budget for the organization totals \$1,413,098. This number is a \$59,589 increase over last year's operating budget. Increases were made to the personnel, payroll tax, benefits, administrative costs, and office expenses.
- Budgeted capital purchases for 2023 are set at \$628,335. Budgeted capital items include a replay unit for the production truck, cameras, tripods, equipment contracts, closed captioning contracts, and microphones. The capital budget also includes routine computer/software upgrades, and software licenses, the HD Bond payment of \$229,425 and \$200,000 in capital equipment support for cities.
- The overall capital budget is \$39,161 lower than the 2022 capital budget.
- The overall 2023 budget is \$20,248 more than the 2022 budget

Closing Points

- We have worked together to create a thriving and dynamic service for our cities, schools, producers, and viewers. Through program playback and channel management, internet streaming of city meetings including an agenda bookmarking tool, channel live streaming, Roku and AppleTV channels, video equipment consulting, drone services, and video production services, our cities are seeing real benefits from their investment of franchise fees and PEG fees. Our cable subscribers are benefiting from this investment with educational opportunities, tape and film transfer services, and varied, informative and interesting programming regarding their communities.
- NMTV will have a new Strategic Plan by the end of 2022. That plan will address many issues facing NMTV and will outline a path forward.
- Franchise renewal should move forward, and will have an impact on future budgets and goals.

North Metro Telecommunications Commission 2023 Budget Line-Item Supporting Information

Personnel

- The personnel line-item is our largest and, usually, the only budget area that experiences any fluctuation from year to year. As has been the recommended procedure for the past two years, an “up-to” COLA increase has been included in the budget, as a separate line-item, that could be revisited later in the year. Based on information provided by the Operations Committee, I have budgeted an up-to 2.75% COLA increase for 2023. With this recommendation, the personnel total would increase by \$22,657. The amount also includes step increases for two employees.
- Part-time staff is divided into two groups; freelancers and 20 hour-per-week staff. Employees in the freelancer group are contracted when needed for a sports shoot or to cover a city meeting and generally do not work enough to qualify for PERA. The second part-time designation is for two 20 hours per week positions that do qualify for PERA. Neither category is eligible for health benefits. Payroll taxes apply.

Benefits

- The NMTC employee benefits package budget is based on the values of the benefits packages offered by the Member Cities to their employees. It is budgeted at \$1,255.00 per person/per month. This is \$30 more than was budgeted for 2022. This amount is less than the average of Member City package values for 2022/2023 (average = \$1,292)
- The benefits/payroll tax portion of the budget increased by \$7,595 over the 2022 budget.
- All indications are that the NMTC’s contribution to PERA will remain at 7.5% in 2023.

Administrative Expenses

- Budgeted administrative expenses are \$2,500 more than 2021. The audit, conference, and special meeting line-items were increased. The additions will allow for anticipated audit cost increases, attendance at the local MACTA conference, and attendance at NATOA sponsored webinars.

Production Expenses

- Budgeted production expenses remain unchanged from 2022.

Office Expenses

- Office expenses are budgeted \$26,000 more than the 2022 level.
- The building maintenance line-item was increased by \$15,000, to better reflect actual costs over the past two years, and with recognition that there will likely be

unexpected problems with an aging building. Building maintenance includes the furnace/AC maintenance contract, lawn care, snow removal, carpet and window cleaning, fire inspection, and landscaping and building mechanical services.

- The building utilities line item was increased by \$2,000, to cover probable higher fuel/energy costs. Building utilities include sewer, water, gas, and electric.
- Insurance includes all property, liability, crime, volunteer, vehicle, drone, and monument sign coverage. This amount was increased by \$4,000. The Commission policy cost was increased fairly significantly in 2022, due to insurance costs in general.
- Office supply line-item includes all office supplies, and maintenance contracts on printers and copiers.
- The Telephone/Internet/Web Hosting line-item was increased by \$4,000 over the 2022 budget. The increase will cover probable cost increases for bandwidth. Bandwidth is required to transport signals from city hall. NMTV continues to pay a fee to house video-on-demand and streaming content on a remote server. This allows for unlimited simultaneous viewing, without a reduction in speed, or an inordinate amount of bandwidth for that purpose. The line-item also covers the wireless live transmission of sporting events and other field productions. The website maintenance contract, web hosting, telephone costs, license fees for our Roku and AppleTV apps, and the annual phone software upgrade are also included.
- Postage covers the cost of mailing dubs and equipment for contract maintenance, and other postage for the NMTC.
- Property tax is for the recycling assessment.
- Building cleaning, trash, recycling, and hazardous material disposal/recycling was increased \$1,000 to better reflect recent actual costs.

Capital Expenditures

- The 2023 capital budget currently includes \$142,910 for production equipment, \$28,000 for office systems, \$229,425 for the HD bond payment, and \$200,000 for city capital expenses.
- The production equipment budget includes annual system contracts, including closed captioning, a re-play system for the truck, tripods, cameras and miscellaneous items such as microphones.
- Office equipment includes routine computer and software upgrades, and software licenses for office and editing computers.
- Fees back to Cities are included as a capital cost. Once the franchise is renewed with Comcast, PEG fees could be restricted to capital costs. In such a case, any PEG fees used for operating costs would result in lower franchise fees. As such, PEG fees will be returned to cities for equipment upgrades and reserves.

Summary

- The 2023 Operating budget is \$59,589 higher than the 2022 budget. The increases are split between personnel/benefits (\$30,252), administrative costs (\$2,500) and office expenses (\$26,000).
- Capital equipment expenditures are budgeted at \$142,910, which is \$43,106 lower than the 2022 budget.

- The 2023 HD bond payment is budgeted at \$229,425. The bond will be paid off in 2024.
- It is recommended that fees returned to cities be included in capital expenditures in order to maximize fee payments in the future. This budget includes \$200,000 in fees for city capital expenditures and capital reserves.
- The overall 2023 budget is \$20,248 higher than the 2022 budget.

North Metro Telecommunications Commission
2023 FINANCIAL SUMMARY
Estimated Fund Balances/Revenues/Expenditures.

BEGINNING FUND BALANCES

Operating Reserve	\$459,439
Accrued Vac, Sick, Comp	\$120,000
Capital Equip. Fund	\$253,323
Vehicle Replacement Fund	\$45,000
Bldg Repair Reserve	\$200,000
Franchise Renewal Fund	\$200,000
Bond Reserve	\$0

TOTAL: \$1,277,762

ESTIMATED REVENUES

Franchise Fees	\$1,150,000
PEG Fees	\$650,000
Other Income	\$35,000
Interest Income	\$1,000
Income From Reserve Funds	\$205,433

TOTAL: \$2,041,433

ESTIMATED EXPENDITURES

Operating Expenses	\$1,413,098
Capital Expenses: Equipment/Bldg	\$198,910
Capital Expenses: Bond Payment	\$229,425
Capital Expenses: PEG Fees to Cities	\$200,000

TOTAL: \$2,041,433

YEAR END FUND BALANCES

		Increase(Decrease)
Operating Reserve	\$353,275	-\$106,164
Accrued Vac, Sick, Comp	\$120,000	\$0
Capital Equip. Fund	\$184,054	-\$69,269
Truck Replacement Fund	\$45,000	\$0
Bldg Repair Reserve	\$170,000	-\$30,000
Franchise Renewal Fund	\$200,000	\$0
Bond Reserve	\$0	\$0

TOTAL: \$1,072,329 -\$205,433

2023
North Metro Telecommunications Commission Budget

	2021 ACTUAL	2022 BUDGET		2023 BUDGET	NOTES
		Budget	April Act.		
PERSONNEL					
Executive Director (1) FT	94,890	97,496	29,997	97,496	Heidi Arnson
IT Engineer/ Administrative Asst.	70,970	72,919	22,438	72,919	Rose Valez
Video Engineer (1) FT	69,059	72,919	22,438	72,919	Matt Waldron
Sports Director (1) FT	63,794	65,554	20,173	65,554	Kenton Kipp
News Director (1) FT	63,794	65,554	20,173	65,554	Danika Peterson
Programming Coord. (1) FT	58,302	59,909	18,432	59,909	Michele Silvester
Ed./Special Projects Coord. (1) FT	58,302	59,909	18,432	59,909	T.J. Tronson
Municipal Producer (1) FT	50,664	52,623	16,192	52,623	Trevor Scholl
Sports Producer (1) FT	47,809	52,623	12,348	52,623	Ted Leroux
News Producer (1) FT	47,074	52,623	15,418	53,960	Rusty Ray
Studio Manager (1) FT	58,302	59,909	18,432	59,909	Eric Houston
Freelancers/Sports/Meetings	75,469	76,521	29,619	76,521	Freelancers Sports/City Mtgs
20 Hour per Week Assistants (2)	16,040	35,331	4,736	35,331	News/City Mtgs/Sports
Contingency Up to 2.75% COLA	0		0	22,657	
PERSONNEL TOTAL:	774,469	823,890	248,828	847,884	Up to 2.75 % COLA increase 2 staff w/ step increase
BENEFITS					
FICA	56,864	51,081	18,381	52,569	6.2% of gross wages
Medicare		11,946		12,294	1.45% of gross wages
PERA	52,942	61,792	16,537	63,591	7.50% of FT gross wages
Benefits Package	155,764	161,700	69,746	165,660	Health/Dental/STD, LTD, ADD
Workers Compensation	1,289	2,000	0	2,000	
Electronic Filing Charges	1,428	2,000	548	2,000	
Contingency COLA Tax Increase					Dependent on any COLA increase
BENEFITS TOTAL:	268,287	290,519	105,212	298,114	
*Benefits package = based on cities \$1,255 per employee/per month \$30 increase over 2022 \$1,295 = 2022/2023 City average					

2023
North Metro Telecommunications Commission Budget

	2021 ACTUAL	2022		2023	NOTES
		Budget	April Act.		
ADMINISTRATIVE EXPENSES					
Audit: Commission	17,000	17,000	0	17,500	Annual audit of Commission finances
Audit: Company	0		0		
Conferences	0		50	1,000	
Consultants	0		0		
General/Special Meeting Expenses	258	1,000	230	2,000	
Government/Legislative Affairs	0		0		
Legal Fees	27,525	50,000	4,185	50,000	Franchise renewal/FCC Issues
Membership Dues	7,536	5,500	3,090	5,500	NATOA, MACTA, Arts Alliance, Cof C
Mileage Reimbursement	1,400	1,500	407	1,500	
Personnel Recruitment	0		0		
Tuition and Training	0		0		
Contingency Expenses	0		0		
ADMINISTRATIVE EX. TOTAL:	53,719	75,000	7,962	77,500	
PRODUCTION EXPENSES					
Advertising/Marketing/Entry Fees	269	1,000	107	1,000	Printed materials, entry fees
Awards Ceremony/ Entry Fees	498	0	0		
Bulbs/Batteries/Other Prod. Costs	2,428	4,000	406	4,000	Bulbs, Camera Batt. Duct tape
Interns	4,785	5,500	2,625	5,500	Stipends for internships
Truck/Fleet Vehicle Gas/Oil	2,504	2,500	1,151	3,500	Prod. Van & fleet vehicles
Truck/Fleet Vehicle Maint/Lic.	3,622	6,000	1,171	6,000	Prod. Van & fleet vehicles
Video Equipment/Parts/Maint.	14	4,000	905	4,000	Parts and Maintenance for video equip.
DVDs/Flash Drives/Cases	4,498	7,500	980	6,000	Blank media for masters/copies
PRODUCTION EX. TOTAL:	18,618	30,500	7,345	30,000	
OFFICE EXPENSES					
Building Maintenance	60,256	30,000	22,703	45,000	Bldg & Prop./Fire Insp./Furn. Contract
Building Security	440	700	283	700	
Building Utilities	28,474	30,000	9,309	32,000	Sewer, Water, Gas & Electric
Insurance	11,826	12,500	15,253	16,500	Liability/property/vehicle/volunteer
Office Supp./Office Equip. Maint.	12,378	13,000	3,517	13,000	Copier & Fax maint. contracts, Supplies
Phone/Internt Service/Web Hosting	40,106	38,000	13,674	42,000	VOD, Live Streaming, web maint., bandwidth
Postage/Shipping	49	1,000	92	500	equipment/dub/packet postage
Property Tax	1,363	1,400	1,363	1,400	Recycling assessment
Trash/Recycling/Janitorial	8,121	7,000	2,743	8,500	
OFFICE EXPENSES TOTAL:	163,013	133,600	68,937	159,600	
OPERATIONS TOTAL:	1,115,093	1,353,509	438,284	1,413,098	

2023
North Metro Telecommunications Commission Budget

	2021 ACTUAL	2022		2023	NOTES
		Budget	April Act.		
CAPITAL EXPENDITURES					
Video Equipment	100,089	186,016	19,715	142,910	Replay unit; cameras; tripods; mics
Computer/Office Equipment/Sftwre	20,084	28,000	4,588	28,000	office systems, software
Vehicles	0		0	0	
Building Expenditures	0		0	28,000	Parking lot repairs. Electronic signage
Bond Payment	227,430	228,480	0	229,425	HD Upgrade
City Capital Expenditures		225,000	225,000	200,000	Equipment/Equipment Reserves
CAPITAL EXP. TOTAL:	347,603	667,496	249,303	628,335	
GRAND TOTAL:	1,462,696	2,021,005	687,587	2,041,433	

North Metro TV 2023 Equipment Budget

Master Control Service & Subscriptions

ID No.	Model No.	Make	Description	Qty	Cost	Total
2023-1	CBL-PLATINUM-4	Tightrope	4 I/O Platinum Support through Tightrope. Loaner, Night Support, Upgrade Assistance	1	4000	4000
2023-2	CBL-PLATINUM-ADDL	Tightrope	Tightrope Additional I/O Annual Software Maintenance Contract for Large Systems	8	500	4000
2023-3	CBL-REFLECT-BND	Tightrope	Cablecast Reflect Live Stream Server Subscription -	4	2300	9200
2023-4	CBL-CAPTIONING-500	Tightrope	500 Hour Block of Captioning	1	3500	3500
2023-5	CBL-CABLECAST-REN	Tightrope	Subscription Fee to maintain 1 Cablecast OTT channel	2	300	600
2023-6	CBL-ENCO-SUPPORT	Tightrope	Annual Support Contract for ENCO enCaption server & software	1	6000	6000
2023-7	M-PREM-SUPP-1	Halvision	Premium Maintenance & Support 1-Year -Renew in November-	1	6000	6000
2023-8	Ross Equipment Support	Ross	Ross Service Contract Quote 30330 - Studio Xpression, Studio Carbointes, Blackstorm, Truck Cart	1	22000	22000
2023-9	Imagine Equipment Support	Imagine Communica	Imagine Contract for MC Router, Encoder "Good Through April 30"	1	7000	7000
						62300

Master Control Equipment

ID No.	Model No.	Make	Description	Qty	Unit Price	Total
2023-10	CBL-LIVE350	Tightrope	Live Streaming Video Server (Extend into 2024 Budget)	0	3500	0
						0

Control Room/Studio A

ID No.	Model No.	Make	Description	Qty	Unit Price	Total
2023-20						0
						0

Control Room/Studio B

ID No.	Model No.	Make	Description	Qty	Unit Price	Total
2023-30						0
						0

Production Truck

ID No.	Model No.	Make	Description	Qty	Unit Price	Total
2023-40	Vision 250	Vinten	Vinten Vision 250 Carbon Fiber Tripod with Mid-Spreader	1	16000	16000
2023-41	Mira	Ross	New Replay System (Possible Ross Mira)	1	40000	40000
2023-42	Graphics PKG	Ross	Rocket Surgery Graphics Package	0	18000	0
2023-43	CV503	Marshall	Marshall Electronics CV503 Mini HD Camera (3G/HD-SDI)	4	400	1600
2023-44	AllSports CG	Daktronics	Daktronics All Sports CG Scoreboard Tie-In Machine	1	5000	5000
						62600

Sports Department

ID No.	Model No.	Make	Description	Qty	Unit Price	Total
2023-46				1		0
						0

Public Access

ID No.	Model No.	Make	Description	Qty	Unit Price	Total
2023-50	MM100PRO	Wolverine	Wolverine 8mm and Super 8mm Digitizer	1	500	500
2023-51	ZV427FX4	Funai	Funai Combination VCR and DVD Recorder	1	750	750
2023-52			Assorted parts and supplies for home movie transfer service	1	400	400
						1650

News Department

ID No.	Model No.	Make	Description	Qty	Unit Price	Total
2023-60	Camera	Panasonic	Panasonic Camera	0	5000	0
						0

Special Events

ID No.	Model No.	Make	Description	Qty	Unit Price	Total
2023-70	CX350	Panasonic	Panasonic AG-CX350 4K Camcorder	0	4200	0
2023-71	AG-VBR59P	Panasonic	Panasonic 7.28V 43Wh Lithium-Ion Battery for DVX200 and CX10 (5900mAh)	0	200	0
2023-72	AG-BRD50P	Panasonic	Panasonic Battery Charger for AG-VBR & Other Batteries	1	300	300
2023-73	67UVP	Tiffen	Tiffen 67mm UV Protector Filter	3	20	60
						60

2023-74	OCM-7B-4KV2	Elvid	Elvid FieldVision 4KV2 7" On-Camera Monitor	3	200	600
2023-75	SDSDXDK-128G-ANCIN	SanDisk	SanDisk 128GB Extreme PRO UHS-II SDXC Memory Card	6	175	1050
2023-76	C-4203BKII	Watson	Watson NP-F975 Battery Kit with Compact AC/DC Charger	3	90	270
2023-77	CAR-AGCX350	PortaBrace	PortaBrace Ultra-Lightweight Carrying Case for Panasonic AG-CX350	3	190	570
2023-78	VZ-STEALTH-LX	VariZoom	VariZoom VZ-Stealth-LX Zoom Controller	3	150	450
2023-79	LED-7100T	Genaray	Genaray LED-7100T 312 LED Variable-Color On-Camera Light	1	180	180
2023-80	EW 112P G4-A1	Sennheiser	EW 112P G4 Camera-Mount Wireless Omni Lavalier Microphone System (A1: 470 to 516 MHz)	1	750	750
2023-81	EW 112P G4-A	Sennheiser	EW 112P G4 Camera-Mount Wireless Omni Lavalier Microphone System (A: 516 to 558 MHz)	1	750	750
2023-82	ME2-ILV1	Sennheiser	ME 2-II Omnidirectional Lavalier Microphone with Locking 3.5mm Connector (Black)	2	140	280
2023-83	MDR-7506	Sony	Sony MDR-7506 Headphones	1	100	100
						5360

Municipal Services						
ID No.	Model No.	Make	Description	Qty	Unit Price	Total
2023-90			Various Small Equipment Replacements	1	1000	1000
						1000

Tech Shop Equipment						
ID No.	Model No.	Make	Description	Qty	Unit Price	Total
2023-100			Cable Reels, Cable Ends, Small Tools, etc.....			0
						5000

Various Small Items						
ID No.	Model No.	Make	Description	Qty	Unit Price	Total
2023-120	-	-	Small Item Budget			0
						5000

Grand Total						142910.00
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Meeting Date: July 5, 2022

CITY OF HAM LAKE

STAFF REPORT

To: Mayor and Councilmembers

From: Denise Webster, City Administrator

Subject: City Sign Replacement

Introduction/Discussion:

At the June 6, 2022 Budget Workshop meeting, it was mentioned that the City Sign needed to be replaced and that Cable TV Funds could be used for the replacement of the sign.

Three bids were obtained. Crosstown Sign's bid was for \$109,780, DeMars Signs' bid was for \$117,785.96 and Image360's bid was for \$178,616.61.

Recommendation:

We are recommending approving the contract with Crosstown Signs in the amount of \$109,780.00 with the monies coming from the Cable TV Fund. This item has been budgeted in the Capital Outlay for 2022.

16307 ABERDEEN ST. NE
MINNEAPOLIS, MN 55304



PHONE: (763) 784-7742
FAX: (763) 784-9753

June 9, 2022

CITY OF HAM LAKE, MN
15544 CENTRAL AVE NE
HAM LAKE, MN 55304-5609

HELLO,

Attached is a quote for the new message center which will be manufactured by Watchfire, and shipped to Crosstown Sign. The cost is \$109,780.00 with a down payment of \$75,000.00. The quote will be good thru July 20, 2022.

During manufacturing all, LED's will be replaced, new faces manufactured, cabinet and poles painted dark brown, (suggest Durenodic Bronze to avoid fading). The pole bases will be covered to approximately 6 feet with faux stone composite paneling and concrete caps, with an aluminum roof.

Per code, the meter and panel area must be left open. These items to be painted, matching the stone. The process will take approximately 90 working days from the day Watchfire receives the down payment.

Warranties are attached for message center, new LED'S and face material.

Training and Customer Support:

Training is provided via a live webinar with a Watchfire Trainer. The training can be done in groups or by individuals. Webinar or additional training is provided for the life of the sign. There is no additional charge for this ongoing training.

In addition to local service, Watchfire has a staff of trained technical support people based in our Danville, Illinois facility. They can be reached at 866-637-2645. They are available 6 days a week from 7am to 7pm.

Thank you,

A handwritten signature in black ink, appearing to read "Mitch Demars", is written over the typed name.

Mitch Demars

CROSSTOWN SIGN, INC.
 16307 ABERDEEN ST. N.E.
 MINNEAPOLIS, MN 55304



PHONE: (763) 784-7742
 FAX: (763) 784-9753
 info@crosstownsign.com

PROPOSAL SUBMITTED TO: HAM LAKE	PHONE:	FAX:
STREET:	JOB NAME: PYLON REFURBISH	
CITY, STATE, ZIP CODE:	JOB LOCATION: HAM LAKE	
DATE: 6/13/22	JOB PHONE:	

WE HEREBY SUBMIT SPECIFICATIONS AND ESTIMATES FOR:

Remove existing pylon head. Bring to shop and refurbish. Install new 10MM message center. All LED's and power supplies in existing letters will be replaced, new faces manufactured, cabinet and poles painted dark brown, (suggest Durenodic Bronze to avoid fading). The pole bases will be covered to approximately 6 feet with faux stone composite paneling and concrete caps, with an aluminum roof. Reinstall all, hook to existing power. Please note current power and necessary amperage for new units. Per code, the meter and panel area must be left open. These items to be painted, matching the stone.

The process will take approximately 90 working days from the day Watchfire receives the down payment, pending delays outside of Crosstown Sign's control. Warranties are attached for message center, new LED'S and face material.

PERMITS EXTRA
 PERMITTING BEGINS UPON RECEIPT OF DOWN PAYMENT, SIGNED CONTRACT AND APPROVED ART
 JOB BEGINS UPON RECEIPT OF PERMIT

ANY PERSON OR COMPANY SUPPLYING LABOR OR MATERIALS FOR THIS IMPROVEMENT TO YOUR PROPERTY MAY FILE A LIEN AGAINST YOUR PROPERTY IF THAT PERSON OR COMPANY IS NOT PAID FOR THE CONTRIBUTIONS.

UNDER MINNESOTA LAW YOU HAVE THE RIGHT TO PAY PERSONS WHO SUPPLIED LABOR OR MATERIALS FOR THIS IMPROVEMENT DIRECTLY AND DEDUCT THIS AMOUNT FROM OUR CONTRACT PRICE OR WITHHOLD THE AMOUNTS DUE THEM FROM US UNTIL 120 DAYS AFTER COMPLETION OF THE IMPROVEMENT UNLESS WE GIVE YOU A LIEN WAIVER SIGNED BY THE PERSONS WHO SUPPLIED ANY LABOR OR MATERIALS FOR THE IMPROVEMENT AND WHO GAVE YOU TIMELY NOTICE

WE PROPOSE; hereby to furnish material and labor-complete in accordance with above specifications, for the sum of:

Payment is to be made as follows: 75000 Down - Balance 109,780.00)
 COD

- 1) Promissory Note (if checked, required on commencement of work).
- 2) Security Agreement (if checked, required on commencement of work).

All material is guaranteed to be specified. All work to be completed in a workmanlike manner according to standard practices. Any alterations or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents and delays beyond our control.

ACCEPTING OF PROPOSAL - The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

CROSSTOWN SIGN, INC.
 BY: MD 

NOTE: THIS QUOTE VALID TIL JULY 21,2022
 SIGNATURE: _____
 DATE: _____



MANUFACTURER

WARRANTY



Watchfire warrants its manufactured displays against defects in material and workmanship for 5 years from the date of shipment when installed according to published guidelines and operated in typical environmental conditions. During the warranty period, Watchfire will repair or replace those parts of the display system which prove to be defective. Repaired or replaced parts provided under warranty will be covered for the balance of the original warranty period. Parts replaced or repaired outside of any warranty period shall have a warranty of replacement for 1 year from date of shipment.*

watchfire 

*Any parts not manufactured by Watchfire, but which are added to the System manufactured by Watchfire, are covered only by their original manufacturer's warranty. Watchfire is not responsible for availability of telecommunications or Internet or for limitations caused by environmental conditions or incompatibilities with other systems.



5-YEAR

MANUFACTURER

WARRANTY

City of *Ham Lake*



On Premise Quote



QUOTE NUMBER: 2211071.3 (Revision 3) DATE: 6/6/2022

SIGN ID: 1654823 W10

Crosstown Sign Co 483200
Mitch DeMars,
16307 Aberdeen St Ne
Andover, MN 55304-5425
763-784-7742
mitch@crosstownsign.com

Shipping Destination
Crosstown Sign Co
16307 Aberdeen St Ne
Andover, MN 55304-5425

Job Site
Name: Ham Lake
Address:
City:
State: Zip:

PRODUCT SPECIFICATIONS

Pixel Pitch:	W10mm LED RGB
Pixel Matrix:	150 X 420
Ventilation Style:	Rear Ventilation*
Cabinet Size:	5ft 2.38in H x 14ft 10in L x 8in D
Viewing Area:	5ft H x 14ft L
Cabinet Style:	Double Face
Character Size:	18 lines / 84.0 Characters at a 3" type
Approx. Weight:	1610.00 Lbs.
Warranty:	Standard 5 Year Watchfire warranty applies.
Mfg. Lead Time:	10-12 weeks (after this document is signed & returned and receipt of down payment).
Electrical Service:	240 VOLT 4 WIRE 50.0 amps (25.00 per face). Refer to the Installation manual for details on wiring. Based on 18 hours of operation a day, plus or minus 10% depending on how the sign is programmed. <i>Example: 62.2 KWHrs a day x \$0.07 = \$4.35/Day</i>

OPTIONS

Software	Ignite OP (PC-based)
Software Training	Web Based Software Training
Communications	4G Wireless w/ Life-of-sign Cellular Data Plan
Cabinet Separation	Standard Up To 15 Feet
Power Requirements	Standard As Quoted
Temperature Sensor	w/100-Step Photocell w/15 ft Cable
Sign Mounting Kit	Not Ordered / Not Required
Warranty	Standard 5-Year Parts Warranty
Technician On-Site	Not Ordered

CUSTOM SIZE!

***Rear Ventilation Display:** Rear vent signs require proper access for air flow behind the display cabinet. Design your structure to adhere to the Ventilation Guidelines in this document.

STANDARD FEATURES

Brightness	Daytime 7000 NITs Maximum;Nighttime 700 NITs Maximum
Color	LED RGB
Color Capability	Min. 1.2 Quintillion
Includes	Ignite Graphics Software
Video	Up to 30FPS
Viewing Angles	150 Horizontal/95 Vertical

ORDER ACCEPTANCE

QUOTE VALID UNTIL 7/21/2022

System Price: 10mm Highbrightness Color LED Message Center - Rear Ventilation

To order Sign ID 1654823, sign here and return with down payment

Signature: _____ Date: _____

Buyer acknowledges that prior to executing this Agreement Buyer has read or has had the opportunity and means to review the TERMS OF SALE and Seller's LIMITED WARRANTY, SOFTWARE LICENSE, AND LIMITATION OF LIABILITIES AND REMEDIES at <http://watchfiresigns.com/terms-and-conditions-of-sale> or in the alternative, a hard copy has been provided to Buyer and its receipt is acknowledged.

This quote/offer is expressly limited to the acceptance by the buyer of its exact terms, including the terms of sale and seller's limited warranty, software license, and limitation of liabilities and remedies, all of which are a part of the agreement. Any purchase order or related documents buyer issues to seller (even if it contains terms in addition to or inconsistent with the terms of this agreement) for this transaction shall constitute buyer's unconditional agreement to be bound exclusively by the seller's terms and conditions of this agreement, and buyer hereby agrees that such additional or inconsistent terms shall not apply nor become a part of this agreement.

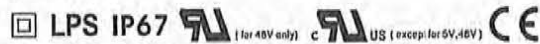


60W Single Output Switching Power Supply

LPV-60 series

Features :

- Constant voltage design
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Fully encapsulated with IP67 level (Note.8)
- Fully isolated plastic case
- Class II power unit, no FG
- Class 2 power unit
- Pass LPS
- Suitable for LED lighting and moving sign applications (Note.7)
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

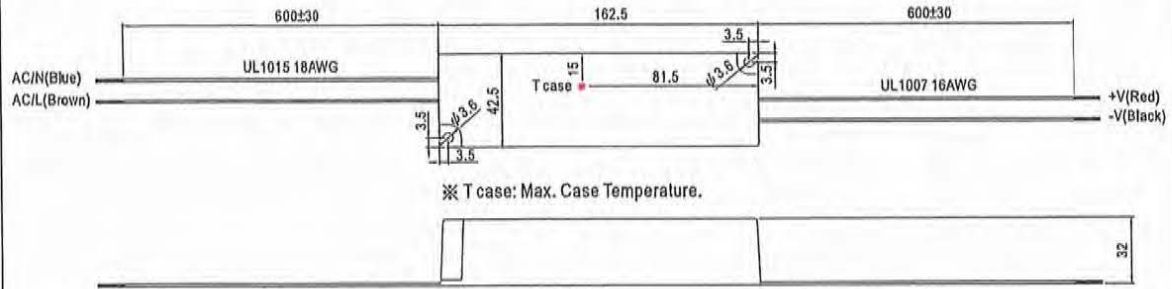


SPECIFICATION

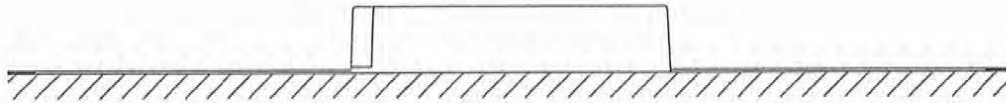
MODEL	LPV-60-5	LPV-60-12	LPV-60-15	LPV-60-24	LPV-60-36	LPV-60-48	
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	36V	48V
	RATED CURRENT	8A	5A	4A	2.5A	1.67A	1.25A
	CURRENT RANGE	0 ~ 8A	0 ~ 5A	0 ~ 4A	0 ~ 2.5A	0 ~ 1.67A	0 ~ 1.25A
	RATED POWER	40W	60W	60W	60W	60W	60W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p	150mVp-p
	VOLTAGE TOLERANCE Note.3	±8.0%	±5.0%				
	LINE REGULATION	±1.0%					
	LOAD REGULATION	±6.0%	±2.0%				
	SETUP, RISE TIME Note.6	500ms, 20ms / 230VAC	500ms, 20ms / 115VAC at full load (for 5-36V) ; 500ms, 30ms / 230VAC		500ms, 30ms / 230VAC	500ms, 30ms / 115VAC at full load (for 48V)	
HOLD UP TIME (Typ.)	50ms/230VAC	16ms/115VAC at full load					
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC	127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY (Typ.)	76%	83%	83%	86%	86%	86%
	AC CURRENT (Typ.)	1.2A/115VAC	1A/230VAC				
	INRUSH CURRENT(max.)	COLD START 60A (t _{width} =525μs measured at 50% I _{peak}) at 230VAC					
LEAKAGE CURRENT	0.25mA / 240VAC						
PROTECTION	OVERLOAD	110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	41.4 ~ 48.8V	55.2 ~ 64.8V
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY & EMC	SAFETY STANDARDS	UL879(except for LPV-60-5), UL1310(except for LPV-60-5), CSA C22.2 No. 207-M89(except for LPV-60-5, LPV-60-48), CAN/CSA C22.2 No. 223-M91(except for LPV-60-5, LPV-60-48), IP67 approved ; design refer to TUV EN60950-1					
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC					
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH					
	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3					
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A					
	MTBF	732Khrs min. MIL-HDBK-217F (25°C)					
	PACKING	0.4Kg; 32pcs/13.8Kg/0.56CUFT					
NOTE	<ol style="list-style-type: none"> 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μf & 47μf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltage. Please check the static characteristics for more details. 5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-quality EMC Directive on the complete installation again. 6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. 7. The unit might not be suitable for lighting applications in EU countries. Please check with your local authorities for the possible use of the unit. 8. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute. 						

■ Mechanical Specification

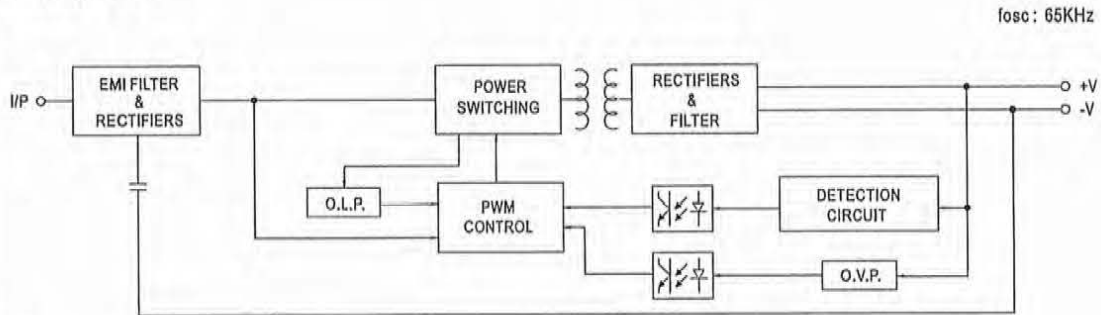
Case No. 976A Unit:mm



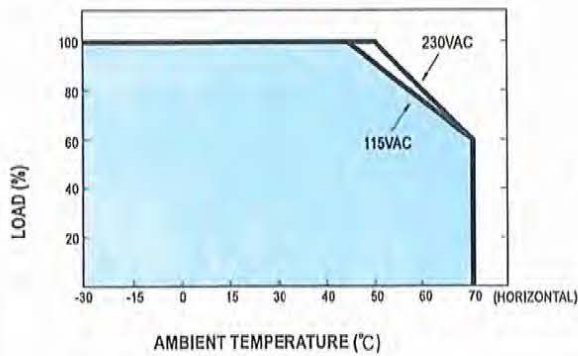
■ Recommend Mounting Direction



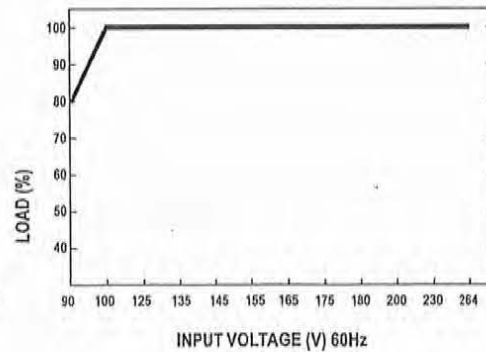
■ Block Diagram



■ Derating Curve



■ Static Characteristics



DURITE PRO3

PRO3 1.1W

- High luminous efficacy guaranteed up to 100 lm/W
- Easy installation with extra size cover of 3M tape and screw hole
- Best LED solution for Channel Letter and Sign Box illumination
- Advanced performance with guaranteed even brightness
- Ensures excellent transmittance and uniform lighting
- 160 degree angle lens that spreads light evenly for no hot spots
- Specially designed durable cover that withstands harsh environment and protects the LED
- IP68 Waterproof and approved by UL, CE, RoHS
- Long life time 50,000 hours



DESCRIPTION

DURITE PRO is new premium model for LED professionals. PRO is powered by Tier 1 LED with the enhanced lens and wire for highest performance. The extra size cover of 3M tape makes easy installation and saving labor cost. Our ultrasonic welding technology performs for excellent waterproofing and protects LED from harsh environment.

SPECIFICATIONS

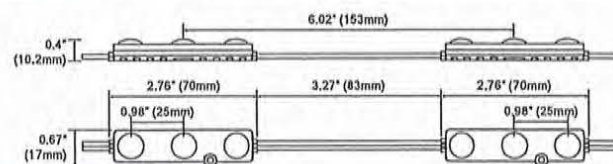
Model	PRO3-30HL11	PRO3-65HL11	PRO3-10HL11
Colors	3000K	6500K	10000K
Lumens	100 lm/W		
Power	1.1 W		
Input Voltage	12V DC		
CRI	80+ Ra		
Beam Angle	160°		
Module Spacing	brushed gold aluminum face black komatex letters 2 pcs/ft		
Dimension	2.76" x 0.67" x 0.4"		
Weight	7.7g		
Max in series	50 Mods		
Operating Temp.	-4°F ~ 140°F / -20°C ~ 60°C		
Life Time	50,000		
IP Rating	IP68 Waterproof		

COVERAGE CHART

Depth	4"	5"	6"	7"-10"
Max Stroke Single Row	8"	10"	12"	14"
Max Stroke Multi Rows	6"	10"	12"	14"
Mods per ft	2 pcs per ft			
Standard Run	50 pcs			
Max Run	50 pcs			

Parameters can be adjusted according to the desired brightness.

DIMENSION





SHOP ADDRESS
 410 93rd Avenue NW
 Coon Rapids, MN 55433
 Phone: (763) 786-5545
 Fax: (763) 786-5520

Estimate

Sales Person: Tim Olson

C Date 05/26/22
 U Name City of Ham Lake
 S Address 15544 Central Ave NE
 T City, State, ZIP Ham Lake Mn
 O Phone number (763) 434-9555
 M Fax number _____
 E _____
 P _____
 Jennifer Bohr

BALLAST AND TRANSFORMERS CONTAINED IN SIGNAGE CARRY A ONE YEAR WARRANTY FROM MANUFACTURERS STAMPED DATE. LABOR FOR REPAIR AND INSTALLATION OF THESE BALLASTS AND TRANSFORMERS IS NOT INCLUDED IN THIS WARRANTY. WARRANTY FOR LED ILLUMINATION SYSTEM AND ITS COMPONENTS, AND DIGITAL MESSAGE CENTERS AND ITS COMPONENTS IS A MANUFACTURERS WARRANTY.

Qty	Description	Total
1	Remove existing pylon sign bring back to DeMars Sign shop Remove existing electronic reader board from cabinet Install a new 5'6" x 16'3" Watchfire 10mm full color electronic sign Broadband service to run sign with no wire hook up no radios Install sign back on poles Electrical hook up so sign will be up and running. Half Down Half on Completion.	\$106,435.96
	Training provide by Watchfire service to get your sign up and running 5 years on parts provided by Watchfire Sign will be installed 8 to 12 weeks after contract is signed with half down.	
	Cover existing poles with Condor Stone Board will have to pick from samples that will be provided.	\$11,350.00

Terms are 1/2 down and remaining balance due net 30 from invoice date
 City permits and fees will be additional
 Electrical connection to primary service is responsibility of client
 Minnesota state and local sales tax, if applicable, will be added to final invoice

BID PRICE \$117,785.96

URERS WARRANTY.
 SEE INDIVIDUAL MANUFACTURERS WARRANTY FOR DETAILS

Initial: _____



SHOP ADDRESS

410 93rd Avenue NW
Coon Rapids, MN 55433
Phone: (763) 786-5545
Fax: (763) 786-5520

I agree to pay as required by the above stated terms until the balance has been entirely paid. I agree that title to and right to the possession of the merchandise shall remain in seller until balance is paid in full. Buyer will not sell, remove, or encumber the merchandise without sellers' written consent until balance is paid in full. I assume and shall be responsible for all loss or damage to said goods, and that upon any absence of payment or payments to above terms, seller may take back the merchandise or affirm the sales and hold me liable for the full unpaid balance. If buyer fails the payment terms of this contract, buyer agrees to pay filing, collection, and attorney fees incurred in the collection or prosecution of debt.

Prices subject to revision when unforeseen obstructions in ground, or other unforeseeable foundation or wall conditions are encountered. This includes, but is not limited to, steel wall beams, wall block, access to building effuse, cement, ground water, excess ground rock, frozen ground, utility lines, or unforeseen underground structure that prevents or delays the ground excavation to be done in a timely and safe manner. In addition if a Son a tube, steel ground support pole, or other structure related materials are needed you will be notified and a charge for these additions will be added on final invoice. Certified engineered drawings, if required by the city where structure is installed, will be an additional charge.

Any physical changes or alterations made to original sign after installation by seller, at the request of buyer or buyers representative, will be charged labor and materials in addition to original contract price. This contract is also considered a "personal guarantee of payment" in full of contract price and any added costs when signed.

I have read and understand and agree to all that is written.

BUYER _____



On Premise Quote

QUOTE NUMBER: 2202337.2 (Revision 2) DATE: 4/18/2022

SIGN ID: 1634651 W10-FV

DeMars Signs Inc 827300
Tim Olsen, sales
410 93rd Ave Nw
Coon Rapids, MN 55433-5802
(763) 786-5545
tjm@demars-signs.com

Shipping Destination
DeMars Signs Inc
410 93rd Ave Nw
Coon Rapids, MN 55433-5802

Job Site
Name: Ham Lake
Address:
City:
State: Zip:

PRODUCT SPECIFICATIONS

Pixel Pitch:	W10mm LED RGB
Pixel Matrix:	150 X 480
Ventilation Style:	Front Ventilation
Cabinet Size:	5ft 5in H x 16ft 3in L x 8in D
Viewing Area:	5ft H x 16ft L
Cabinet Style:	Double Face
Character Size:	18 lines / 96.0 Characters at a 3" type
Approx. Weight:	1824.00 Lbs.
Warranty:	Standard 5 Year Watchfire warranty applies.
Mfg. Lead Time:	5-10 weeks (after this document is signed & returned and receipt of down payment).
Electrical Service:	240 VOLT 4 WIRE 54.0 amps (27.00 per face). Refer to the Installation manual for details on wiring. Based on 18 hours of operation a day, plus or minus 10% depending on how the sign is programmed. <i>Example: 67.2 KWHrs a day x \$0.07 = \$4.70/Day</i>

OPTIONS

Software	Ignite OPx (cloud-based)
Software Training	Web Based Software Training
Communications	OPx - 4G Wireless w/ Life-of-Sign Cellular Data Plan
Cabinet Separation	Standard Up To 15 Feet
Power Requirements	Standard As Quoted
Temperature Sensor	w/100-Step Photocell w/15 ft Cable
Sign Mounting Kit	Not Ordered / Not Required
Warranty	Standard 5-Year Parts Warranty
Technician On-Site	Not Ordered

OPx Customer Email (required): _____

STANDARD FEATURES

Brightness	Daytime 7000 NITs Maximum; Nighttime 700 NITs Maximum
Color	LED RGB
Color Capability	Min. 1.2 Quintillion
Includes	Ignite Graphics Software
Video	Up to 30FPS
Viewing Angles	150 Horizontal/95 Vertical

ORDER ACCEPTANCE

QUOTE VALID UNTIL 6/2/2022



410 93rd Ave. NW
Coon Rapids, MN 55433
763.786.5545

DATE: _____

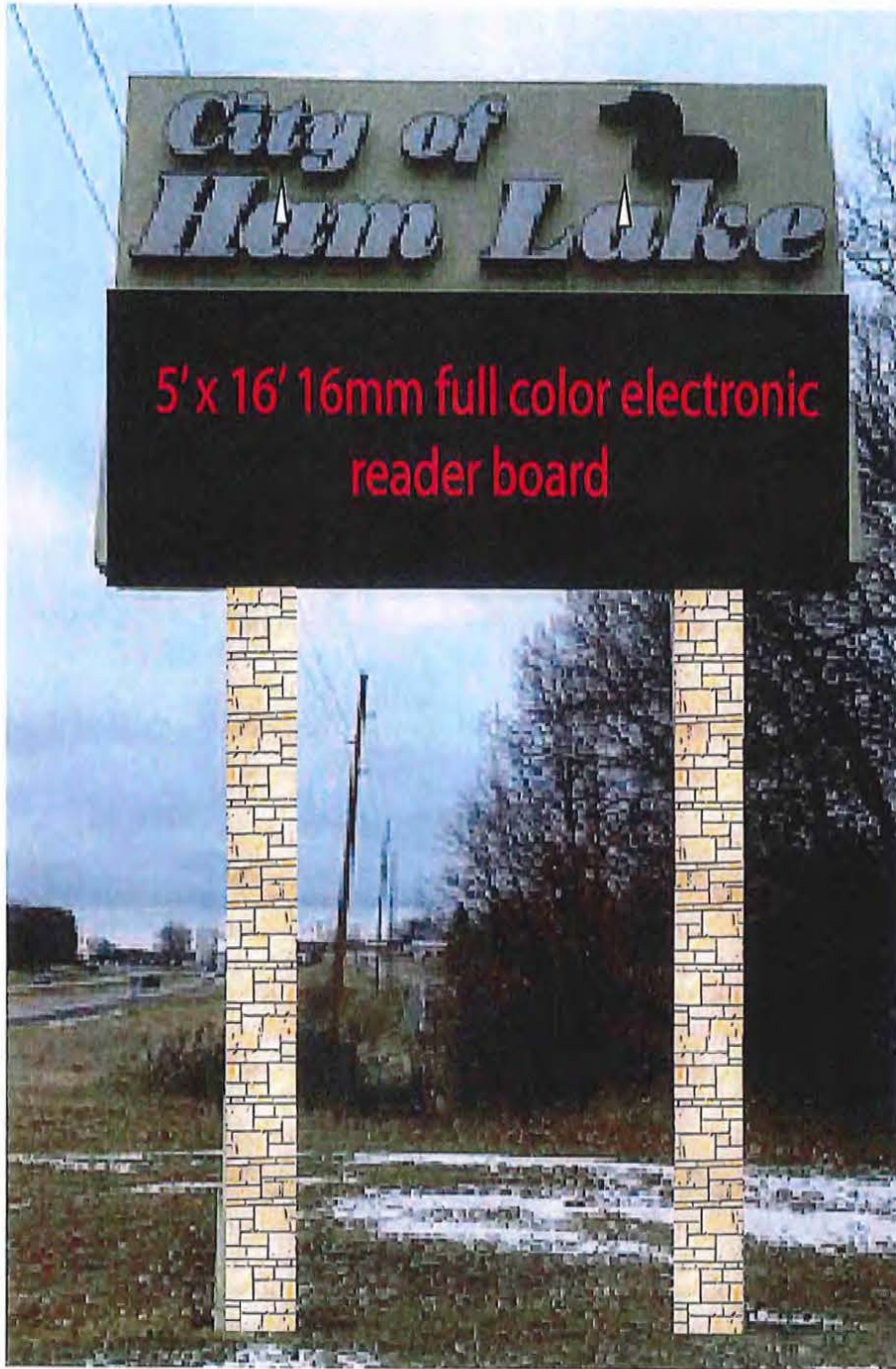
SALESMAN: Tim Olson

LOCATION: _____

NOTES: _____

These plans are the exclusive property of DeMars Signs Inc. and are the result of the original work of its employees. They are submitted to your firm for the sole purpose of your approval, assuming the signage will be manufactured by DeMars Signs Inc. Artwork and design may not be distributed outside your firm without written consent from DeMars Signs Inc. Use of this artwork and/or design without written consent is prohibited; DeMars Signs Inc. reserves the right to pursue legal action in violation of this agreement. This may include, but is not limited to: a) Reimbursement for creating above drawing, b) Any associated legal fees.

CUSTOMER APPROVAL X



410 93rd Ave.^{NW}
 Coon Rapids, MN 55433
763.786.5545

DATE: _____

SALESMAN: Tim Olson

LOCATION: _____

NOTES: _____

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CUSTOMER APPROVAL X

City of Ham Lake
 on the corner Hwy 65 and Viking Blvd
 (763) 367-7840
 Nate



PSD Development
 8019 147th Ave NW
 Ramsey Mn
 763-427-5955
 Matt

101 Companies
 101 & Diamond Lake
 Rogers Mn
 612-759-6355
 Doug



410 93rd Ave. NW
 Coon Rapids, MN 55433
763.786.5545

DATE: _____
 SALESMAN: Tim Olson
 LOCATION: _____
 NOTES: _____

These plans are the exclusive property of DeMars Signs Inc. and are the result of the original work of its employees. They are submitted to your firm for the sole purpose of your approval, assuming the signage will be manufactured by DeMars Signs Inc. Artwork and design may not be distributed outside your firm without written consent from DeMars Signs Inc. Use of this artwork and/or design without written consent is prohibited; DeMars Signs Inc. reserves the right to pursue legal action in violation of this agreement. This may include, but is not limited to: a) Reimbursement for creating above drawing, b) Any associated legal fees.

CUSTOMER APPROVAL _____



June 17, 2022

To: Jennifer Bohr
Project Specialist
City of Ham Lake
15544 Central Ave NE
Ham Lake, MN 55304

Re: Electronic Community Billboard Sign

Thank you for the invitation to bid on the Electronic Community Billboard Sign

Our response is organized as per the sections in the quote request.

Section 3.1 Title Page / Cover Letter

IDENTIFICATION OF THE OFFERING FIRM	Image360 Woodbury 680 Commerce Drive Suite 140 Woodbury, MN 55125 Phone 651-444-8111
CONTACT	Mike Kazmerski Owner / VP Phone 651-444-8111 Cell/Text/Home: 952-913-4376 -or- Carrie Helgerson Client Service Representative Phone 651-444-8111
CONTRACT TERMS	As signed in hard copy proposal
ITEMS 2-13	Addressed in body of proposal

Thank you again for the opportunity to bid on this project. Please do not hesitate to contact me if you have any questions or require additional information.

Respectfully,

Mike Kazmerski

Mike Kazmerski
Owner/VP
Image360-Woodbury

Section 3.2 Table of Contents

Statement of Content of Quote	3.3	3
Scope of Services	3.4	5
Key Personnel	3.5	5
Summary	3.8	7

Section 3.3 Statement of Content of Quote

It is our understanding that the City of Ham Lake is seeking providers of an electronic community billboard sign.

Our purpose in responding to this quote is to demonstrate to the city of Ham Lake that Image360 Woodbury has the necessary experience, personnel, and capacity to provide the products and services as outlined in the quote. I will summarize each of those areas in the following section.

Experience: Image360 Woodbury was founded, by Gina Kazmerski in 2013 and as a result we bring a decade of Signage, Graphics, and Displays experience. More on this topic is subsequent sections.

Personnel: As mentioned in the previous section, Image360 Woodbury has invested in the personnel required to design, produce, and install a wide variety of sign types, including the ones requested by this quote. We have a full time, professionally trained Graphic Designer, a full time Customer Service Representative, and both owners work full time in the business and will be the primary points of contact for this contract. We will subcontract experienced sign installer that we have worked with for many years and consider to be another member of our team here at Image360 Woodbury. We also have contacted an experienced electrician to complete all electrical work for the electronic billboard sign.

Capacity: Image360 Woodbury maintains a strong balance sheet and has a record of profitable business operations. We have the financial ability to make purchases of materials on behalf of the City without a detrimental impact on our business capital. In addition, we have invested in state-of-the-art equipment that allows us to produce Signs and Graphics with low lead times, competitive prices, and high quality.

We collaborate with our clients to customize ordering processes that meet their needs. In general, our process includes:

1. Meeting with client either in person, via phone, conference call, or in person to understand project requirements and deliverables.
2. Creating an Estimate based on those discussions to outline all costs associated with the project which might include Consulting, Design, Production, Installation, Project Management, Permitting, and Surveys
This electronic Estimate can be reviewed and approved in the *Client Portal.
3. Once the Estimate has been approved, we begin the Design Process. Our designer collaborates with our clients to produce the intended results. We will provide Product Proofs for review and approval in the Client Portal or via email

Section 3.3 Statement of Content of Quote, Cont.

- Upon approval of the Product Proof, we will begin the Production Process which should take between 10 and 12 weeks barring any raw material shortages.
 - Once production is complete, we will install the electronic billboard located at the northeast corner of 153rd Ave NE & Highway 65 NE.
4. A final Invoice will be generated and can then be reviewed and paid from within the Client Portal. We accept EFT, Credit Cards, and Checks for payment.

In all cases, we collaborate with our clients to ensure that all the steps of the process meet their requirements. Many clients love our online portal, some prefer email, and some prefer paper. We collaborate with our clients to put in place the process that works best for them

References: Below are our references of at least three clients we worked with on projects like this one

Client	Project	Contact Name Address Phone
MN DOT	Electronic Message LED Sign for Willmar Location	Mike Quale Minnesota Department of Transportation 2505 Transportation Road Willmar, MN 56201 michael.quale@state.mn.us O: 320-214-6339
Culvers	4 x 8 electronic message board	Culvers Paul Smith 10550 Baltimore St NE, Blaine, MN 55449 P: 763-784-8599
TGK Auto	8 x 5 LED Display	TGK Automotive 13891 Forest Blvd N, Hugo, MN 55038 P: 651-888-9713

Section 3.3 Statement of Content of Quote, Cont.





Specs of the Product: Watchfire 10mm Highbrightness Color LED Message Center

- Pixel Pitch: W10mm LED RGB
- Pixel Matrix: 150 x 450
- Ventilation Style: Front Ventilation
- Cabinet Size: 5' 5" H x 15' 3" L x 8" D
- Viewing Area: 5' H x 15' L
- Cabinet Style: Double Face
- Character Size: 18 lines / 90.0 characters at a 3" type
- Approx. Weight: 1718 lbs.
- Warranty: Standard 5-year Watchfire warranty
- Mfg. Lead Time: 10-12 weeks once down payment is received
- Electrical Service: 240 VOLT 4 WIRE 54.0 amps (27.00 per face)
- Brightness: Daytime 7000 NITs Max; Nighttime 700 NITs Max
- Color: LED RGB
- Color Capability: Min 1.2 Quintillion
- Includes Ignite Graphics Software
- Video: Up to 30FPS
- Viewing Angles: 150 Horiz. / 95 Vert.

Cloud-Based Software with Web-Based Software Training via online webinar (included in cost of sign)
 Standard 5-year Parts Warranty

Ongoing support after installation is provided through the manufacturer, Watchfire, out of their Danville, IL tech support team. 1 (866) 637-2645, service@watchfiresigns.com (included in cost of sign)

Estimated Cost for Double-Face Panels: \$166,005.00 + Tax

Section 3.4 Scope of Services

- Communications: OPx - 4G Wireless w/ Life-of-Sign Cellular Data Plan, no additional charge. Software upgrades are automatically provided through the cloud-based software
- Installation service is both replacing the panels and hooking up all electrical connections.
- Electrical connections will be provided by Jason Tillges at Tillges Electric, LLC (612) 290-3252
- Removal of existing panels and installation of new panels will be provided by John Conway at Contact Signs (612) 209-7446

Estimated Cost for Electrical Connection & Installation: \$12,611.11 + tax

Total Project Estimated Cost: \$178,616.61 + tax

Section 3.5 Key Personnel

Project Managers:	Mike Kazmerski and Gina Kazmerski based on project scope
Lead Graphic Designer:	Collin Terrell
Customer Coordinator:	Carrie Helgerson
Production Coordinator:	Liz Thole

In addition, Image360 Woodbury is a member of Alliance Franchise Brands, one of the largest Sign and

Graphics Franchisors in the U.S. As such, we have access to a deep array of resources that include technology experts, software experts, production expertise, and project management resources as needed.

<https://alliancefranchisebrands.com/who-we-are>






Section 3.8 Summary

We hope to have shown the City of Ham Lake that Image360 Woodbury would make an excellent partner for the Electronic Community Billboard Sign.

Additional information can be found on our website at: www.image360woodbury.com

Memorandum

Date: June 30, 2022
To: Mayor and Councilmembers
From: David A. Krugler, Senior Engineer 
Subject: Creek Valley Reconstruction

Introduction:

The Plans for the reconstruction of streets within the Creek Valley residential subdivision are attached. Plans were directed to be prepared at the June 7, 2021 City Council meeting.

Discussion:

The Creek Valley subdivision was constructed in 1987, a bituminous overlay was placed in 2002, a seal coat was applied in 2010 and is experiencing poor drainage. The street will be upgraded from bituminous curb to surmountable concrete curb and gutter and storm catch basins. The construction cost estimate for the reconstruction is \$1,441,558.20. This cost includes reclaiming the existing pavement and using the excess as fill within the site and the completed tree removal portion of the project. Additional tree removal is also required to resolve a drainage issue to connect the storm system to Coon Creek.

The cost estimate when plans were ordered to be prepared was \$912,560. The increase in cost from the original per linear foot estimate was a result of several factors. With the current inflation and supply chain issue in effect that was not accounted for when this estimate was prepared in 2021. This cost estimate shows the anticipated price increases.

Recommendation:

Approve the Plans and authorize the advertisement for bids for the reconstruction of the streets within Creek Valley.

CONSTRUCTION COST ESTIMATE
Creek Valley Street Reconstruction
6/29/2022

ITEM NUMBER	ITEM DESCRIPTION	UNIT	EST QTY	UNIT PRICE	TOTAL
2021.501	MOBILIZATION	LUMP SUM	1	\$84,000.00	\$84,000.00
2101.505	CLEARING	ACRE	0.3	\$10,000.00	\$3,000.00
2101.505	GRUBBING	ACRE	0.3	\$5,750.00	\$1,725.00
2104.502	REMOVE DRAINAGE STRUCTURE	EACH	6	\$500.00	\$3,000.00
2104.502	REMOVE SIGN	EACH	8	\$49.80	\$398.40
2104.502	SALVAGE WOOD POST	EACH	5	\$20.00	\$100.00
2104.502	SALVAGE SIGN	EACH	1	\$109.40	\$109.40
2104.502	SALVAGE MAILBOX AND SUPPORT	EACH	21	\$100.00	\$2,100.00
2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH) DRIVEWAY	LIN FT	116	\$5.00	\$580.00
2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH) DRIVEWAY	LIN FT	300	\$3.00	\$900.00
2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	145	\$3.00	\$435.00
2104.503	REMOVE CONCRETE CULVERT	LIN FT	82	\$50.00	\$4,100.00
2104.503	REMOVE METAL CULVERT	LIN FT	575	\$22.00	\$12,650.00
2104.503	SALVAGE WOODEN FENCE	LIN FT	38	\$25.00	\$950.00
2104.503	SALVAGE RETAINING WALL	LIN FT	15	\$25.00	\$375.00
2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	299	\$9.00	\$2,691.00
2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	510	\$7.00	\$3,570.00
2105.607	COMMON EXCAVATION	CU YD	2,807	\$23.00	\$64,561.00
2105.607	GRANULAR BORROW (CV)	CU YD	1,322	\$26.00	\$34,372.00
2211.509	AGGREGATE BASE (CV) CLASS 5, 4.0" THICK - BIT DRIVEWAY	SQ YD	543	\$7.00	\$3,801.00
2215.504	BITUMINOUS PAVEMENT RECLAMATION	SQ YD	12,507	\$2.00	\$25,014.00
2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (2;C) 2.0" THICK-DRIVEWAY	SQ YD	543	\$26.00	\$14,118.00
2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (2;C)	TON	795	\$102.20	\$81,249.00
2360.509	TYPE SP 12.5 NON WEARING COURSE MIXTURE (2;C)	TON	1,590	\$86.00	\$136,740.00
2501.502	15" GS PIPE APRON	EACH	2	\$900.00	\$1,800.00
2501.502	24" GS PIPE APRON	EACH	2	\$1,100.00	\$2,200.00
2501.602	TRASH GUARD FOR 15" PIPE APRON	EACH	2	\$500.00	\$1,000.00
2501.602	TRASH GUARD FOR 24" PIPE APRON	EACH	2	\$700.00	\$1,400.00
2503.503	15" CP PIPE SEWER (SMOOTH)	LIN FT	369	\$77.00	\$28,413.00
2503.503	24" CP PIPE SEWER (SMOOTH)	LIN FT	285	\$95.00	\$27,075.00
2503.503	12" RC PIPE SEWER DESIGN 3006 CLASS IV	LIN FT	306	\$73.00	\$22,338.00
2503.503	15" RC PIPE SEWER DESIGN 3006 CLASS IV	LIN FT	1,341	\$73.00	\$97,893.00
2503.503	18" RC PIPE SEWER DESIGN 3006 CLASS IV	LIN FT	782	\$85.00	\$66,470.00
2503.503	24" RC PIPE SEWER DESIGN 3006 CLASS IV	LIN FT	243	\$96.00	\$23,328.00
2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL	EACH	16	\$2,700.00	\$43,200.00
2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 1	EACH	16	\$3,400.00	\$54,400.00
2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 2	EACH	4	\$6,000.00	\$24,000.00
2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 3	EACH	1	\$5,000.00	\$5,000.00
2506.502	RAIN GUARDIAN	EACH	6	\$3,000.00	\$18,000.00
2511.504	GEOTEXTILE FILTER TYPE 4	SQ YD	163	\$5.00	\$815.00
2511.507	RANDOM RIPRAP CLASS III	CU YD	44	\$152.00	\$6,688.00
2531.503	CONCRETE CURB AND GUTTER DESIGN D312 (MODIFIED)	LIN FT	8,218	\$15.00	\$123,270.00
2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	296	\$80.00	\$23,680.00
2540.602	INSTALL MAILBOX WITH SUPPORT	EACH	21	\$147.60	\$3,099.60
2563.601	TRAFFIC CONTROL	LUMP SUM	1	\$10,000.00	\$10,000.00
2564.518	SIGN PANELS TYPE C	SQ FT	80	\$55.80	\$4,464.00
2573.501	STABILIZED CONSTRUCTION EXIT	LUMP SUM	3	\$5,000.00	\$15,000.00
2573.502	STORM DRAIN INLET PROTECTION	EACH	35	\$200.00	\$7,000.00
2573.502	CULVERT END CONTROLS	EACH	4	\$200.00	\$800.00
2573.503	SILT FENCE; TYPE MS	LIN FT	4,643	\$2.70	\$12,536.10
2573.503	FLOTATION SILT CURTAIN TYPE MOVING WATER	LIN FT	100	\$27.30	\$2,730.00
2573.503	FILTER BERM TYPE 4	LIN FT	160	\$5.00	\$800.00
2575.504	ROLLED EROSION PREVENTION CATEGORY 15	SQ YD	1,223	\$3.22	\$3,938.06
2575.504	ROLLED EROSION PREVENTION CATEGORY 25	SQ YD	1,030	\$5.00	\$5,150.00
2575.605	TURF ESTABLISHMENT (25-251 SEEDING MIX)	ACRE	2.2	\$7,000.00	\$15,400.00
2575.605	TURF ESTABLISHMENT (34-261 SEEDING MIX)	ACRE	0.5	\$7,000.00	\$3,500.00
TOTAL ESTIMATED CONSTRUCTION COST					\$1,135,926.56
TREE REMOVAL (RIVARD CONTRACTING)					\$17,320.00
SUBTOTAL					\$1,153,246.56
PROJECT DEVELOPMENT, CONST ENGINEERING, AND INSPECTION (25%)					\$288,311.64
TOTAL PROJECT COST					\$1,441,558.20

PLAN SYMBOLS

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT-OF-WAY LINE
- PROPOSED RIGHT-OF-WAY LINE
- CONSTRUCTION PERMANENT EASEMENT LINE
- LOT SECTION
- CONSTRUCTION LIMITS CLEAR ZONE
- INTERMEDIATE INDEX 901.25 GRADE BREAK 901 INTERMEDIATE INDEX 900 GRADE BREAK 900 PROPOSED CONTOURS
- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING DITCH LINE
- PROPOSED DITCH LINE
- EXISTING COUNTY
- FENCE LINE - ANY TYPE
- SILT FENCE
- WETLAND BOUNDARY
- TREE LINE (TO REMAIN)
- TREE SYMBOLS
- X BM BENCH MARK / IRON MONUMENT
- * LIGHT POLE / BOLLARD
- O SOIL BORING
- BUILDING
- RIPRAP
- MAILBOX
- EXISTING SIGN
- PROPOSED SIGN

UTILITY SYMBOLS

- GAS GAS LINE
- PETRO PETRO LINE
- OHE OVERHEAD ELECTRIC
- UGE UNDERGROUND ELECTRIC
- T UNDERGROUND TELEPHONE LINE
- CATV UNDERGROUND CABLE TV LINE
- FO UNDERGROUND FIBER OPTIC LINE
- M T JUNC. BOX TELEPHONE STRUCTURES
- E JUNC. BOX ELECTRIC JUNC. BOX
- TV CABLE TV JUNC. BOX
- M F JUNC. BOX FIBER OPTIC STRUCTURES
- EXISTING POWER POLE AND GUY WIRE
- EXISTING STORM DRAIN LINE
- PROPOSED STORM DRAIN LINE
- EXISTING FLARED END SECTION
- PROPOSED FLARED END SECTION
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- EXISTING MANHOLE
- PROPOSED MANHOLE
- EXISTING WELL
- PROPOSED WELL

HATCH LEGEND

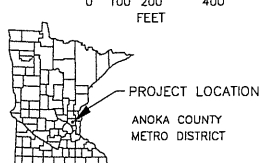
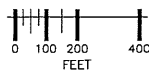
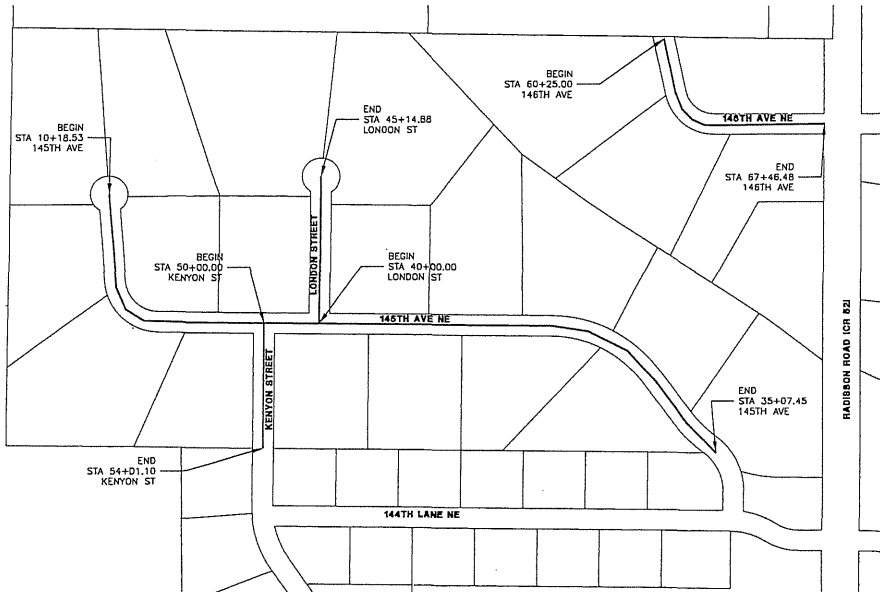
- BITUMINOUS
- CONCRETE
- EROSION CONTROL
- GRVEL
- HYDRMULCH
- REMOVAL
- GRVEL
- CONCRETE
- BITUMINOUS

MINNESOTA DEPARTMENT OF TRANSPORTATION
City of Ham Lake, Minnesota

CONSTRUCTION PLAN FOR GRADING, AGGREGATE BASE, PLANT MIXED BITUMINOUS SURFACE, STORM DRAINS AND CONCRETE CURB

LOCATED ON 145TH AVENUE FROM 230 FT NORTH OF 144TH LANE TO CDS, LONDON STREET FROM 145TH AVENUE TO CDS, KENYON STREET FROM 216 FT NORTH OF 144TH LANE TO 145TH AVENUE, AND 146TH AVENUE FROM RADISSON ROAD TO CDS.

HAM LAKE PROJECT NO. 2105



PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY

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.

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE 2020 EDITION OF THE "MATERIAL LAB SUPPLEMENTAL SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

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

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3-4	EARTHWORK SUMMARY AND TABULATIONS
5-7	DETAILS
8-14	TEMPORARY SEDIMENT CONTROL
15-16	INTERSECTION DETAILS
17	INFILTRATION BASIN DETAILS
18-22	SWPPP
23-25	REMOVALS
26-29	STORM DETAILS
30-35	PLAN AND PROFILE
36-37	SIGNS
38-51	CROSS SECTIONS

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

THIS PLAN CONTAINS 51 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: *Dave Knight*

DATE: 6/29/2022 REG. NO. 48768

APPROVED: *Thomas P. Collins* DATE: 6/29/2022
CITY ENGINEER - HAM LAKE

RFC ENGINEERING, INC.
Consulting Engineers

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

STATEMENT OF ESTIMATED QUANTITIES

TAB	SHEET	NOTES	ITEM NO.	ITEM	UNIT	ENTIRE PROJECT	
						ESTIMATED QUANTITIES	
			2021.501	MOBILIZATION	LUMP SUM	1	
			2101.505	CLEARING	ACRE	0.3	
			2101.505	GRUBBING	ACRE	0.3	
			2104.502	REMOVE DRAINAGE STRUCTURE	EACH	6	
			2104.502	REMOVE SIGN	EACH	8	
			2104.502	SALVAGE WOOD POST	EACH	5	
			2104.502	SALVAGE SIGN	EACH	1	
			2104.502	SALVAGE MAILBOX AND SUPPORT	EACH	21	
			2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH) DRIVEWAY	LN FT	116	
			2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH) DRIVEWAY	LN FT	300	
			2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LN FT	145	
			2104.503	REMOVE CONCRETE CULVERT	LN FT	82	
			2104.503	REMOVE METAL CULVERT	LN FT	575	
			2104.503	SALVAGE WOODEN FENCE	LN FT	38	
			2104.503	SALVAGE RETAINING WALL	LN FT	15	
			2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SD YD	299	
			2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SD YD	510	
			2105.607	COMMON EXCAVATION	CU YD	2,807	
			2105.607	GRANULAR BORROW (CV)	CU YD	1,322	
			2211.509	AGGREGATE BASE (D) CLASS 5, 4.0" THICK - BIT DRIVEWAY	SD YD	543	
			2215.504	BITUMINOUS PAVEMENT RECLAMATION	SD YD	12,507	
			2360.509	TYPE SP 0.5 WEARING COURSE MIXTURE (2(C) 2.0" THICK-DRIVEWAY	SD YD	543	
			2360.509	TYPE SP 0.5 WEARING COURSE MIXTURE (2(C)	TON	795	
			2360.509	TYPE SP 12.5 NON WEARING COURSE MIXTURE (2(C)	TON	1,590	
			2501.502	15" CS PIPE APRON	EACH	2	
			2501.502	24" CS PIPE APRON	EACH	2	
			2501.622	TRASH GUARD FOR 15" PIPE APRON	EACH	2	
			2501.622	TRASH GUARD FOR 24" PIPE APRON	EACH	2	
			2503.503	15" CP PIPE SEWER (SMOOTH)	LN FT	368	
			2503.503	24" CP PIPE SEWER (SMOOTH)	LN FT	285	
			2503.503	12" RC PIPE SEWER DESIGN 3006 CLASS IV	LN FT	308	
			2503.503	15" RC PIPE SEWER DESIGN 3006 CLASS IV	LN FT	1,341	
			2503.503	18" RC PIPE SEWER DESIGN 3006 CLASS IV	LN FT	792	
			2503.503	24" RC PIPE SEWER DESIGN 3006 CLASS IV	LN FT	243	
			2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL	EACH	16	
			2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 1	EACH	16	
			2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 2	EACH	4	
			2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 3	EACH	1	
			2506.502	RAIN GUARDIAN	EACH	6	
			2511.504	GEOTEXTILE FILTER TYPE 4	SD YD	103	
			2511.507	RANDOM RIPRAP CLASS II	CU YD	44	
			2531.503	CONCRETE CURB AND GUTTER DESIGN 0312 (MODIFIED)	LN FT	8,218	
			2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SD YD	296	
			2540.602	INSTALL MAILBOX WITH SUPPORT	EACH	21	
			2563.601	TRAFFIC CONTROL	LUMP SUM	1	
			2564.518	SIGN PANELS TYPE C	SD FT	80	
			2573.501	STABILIZED CONSTRUCTION EXIT	LUMP SUM	3	
			2573.502	STORM DRAIN INLET PROTECTION	EACH	35	
			2573.502	CULVERT END CONTROLS	EACH	4	
			2573.503	SILT FENCE, TYPE MS	LN FT	4,643	
			2573.503	FLOATION SLIT CURBAIN TYPE MOVING WATER	LN FT	100	
			2573.503	FILTER BERM TYPE 4	LN FT	100	
			2575.504	ROLLED EROSION PREVENTION CATEGORY 1S	SD YD	1,323	
			2575.504	ROLLED EROSION PREVENTION CATEGORY 2S	SD YD	1,030	
			2575.605	TURF ESTABLISHMENT (25-251 SEEDING MIX)	ACRE	2.2	
			2575.605	TURF ESTABLISHMENT (34-261 SEEDING MIX)	ACRE	0.5	

NOTES:

- SELECT GRANULAR BORROW, STRUCTURAL EXCAVATION, AND GRANULAR BACKFILL FOR STORM PIPES ARE INCIDENTAL.
- FILTER FABRIC AND FABRIC WRAP FOR CATCH BASINS AND MANHOLES 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 AND SEED MIXTURE NO. 33-261, MULCH TYPE 3 (WEED FREE MULCH) WITH NO FERTILIZER AND SEED MIXTURE NO. 25-151 PER MNDOT STANDARD SPECIFICATION 3B76. APPLY TYPE 6 MULCH AT THE RATE OF 2 (TWO) TONS PER ACRE (TO ACHIEVE A 90% UNIFORM GROUND COVERAGE). SEED MIXTURE, WATER, TYPE 2 FERTILIZER, AND MULCH 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.
- SIGNS INCLUDE POSTS.
- AVERAGE DEPTH OF EXISTING BITUMINOUS PAVEMENT IS 3" TO 4".
- AVERAGE DEPTH OF EXISTING BASE MATERIAL IS 4".
- INSTALLATION AND MAINTENANCE ARE INCIDENTAL.
- QUANTITY SHOWN USED FOR DRIVEWAY CONSTRUCTION. SEE DETAIL RFC-363A3.
- BITUMINOUS MATERIAL FOR TACK COAT SHALL BE INCIDENTAL.
- REMOVE SUPPORTS AND SALVAGE MAIL BOXES. SALVAGE MAIL BOXES ARE INCIDENTAL.

SEED MIX 25-151: RESIDENTIAL TURF
MULCH TYPE 6
PLANT APRIL 1ST - JUNE 1ST FOR SPRING PLANTING OR JULY 20TH - SEPTEMBER 20TH FOR FALL PLANTING

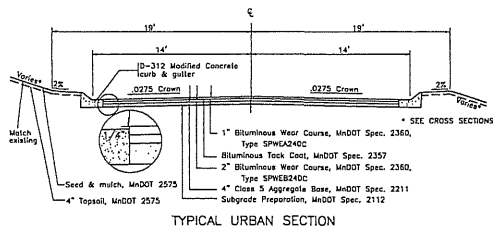
SEED MIX 33-261: PONDS & WET AREAS IN CENTRAL, SOUTHERN AND WESTERN MN
MULCH TYPE 3
PLANT APRIL 15TH - JULY 20TH FOR SPRING PLANTING OR SEPTEMBER 20TH - OCTOBER 20TH FOR FALL PLANTING

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY

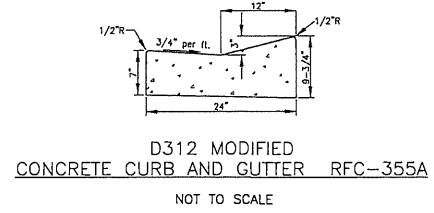
PLATE NO.	STANDARD PLATES - RFC ENGINEERING (IN THE PLANS)
RFC-355A	D312M CONCRETE CURB AND GUTTER
RFC-366E1	TYPICAL STREET SECTION
RFC-363A3	PRIVATE DRIVEWAY/FIELD ENTRANCE
RFC-367A	RESIDENTIAL CUL-DE-SAC
RFC-380A	CURB END
RFC-459B	RECTANGULAR CATCH BASIN
RFC-463	FABRIC AROUND CATCH BASIN
RFC-465A1	RECTANGULAR INLET FOR ROUND MANHOLE
RFC-465A3	RECTANGULAR INLET FOR ROUND MANHOLE - VARIABLE SUMP
RFC-466C	CPP TRASH GUARD
RFC-654	STORM DRAIN BEDDING FOR RIGID AND FLEXIBLE PIPE *MNDOT DETAIL
RFC-858B	TYPICAL INFILTRATION/RETENTION POND
RFC-857	SILT FENCE AT FES

PLATE NO.	MNDOT STANDARD PLATES -- IN MNDOT STANDARD PLATES MANUAL
3000L	REINFORCED CONCRETE PIPE (5 SHEETS)
3006G	GASKET JOINT FOR R.C. PIPE (2 SHEETS)
3128A	METAL APRON FOR CORRUGATED POLYETHYLENE PIPE
3134G	RIPRAP AT CSP OUTLETS
7100H	CONCRETE CURB & GUTTER
8000K	TEMPORARY CHANNELIZERS (3 SHEETS)
9350B	MAILBOX SUPPORT (SWING-AWAY TYPE)

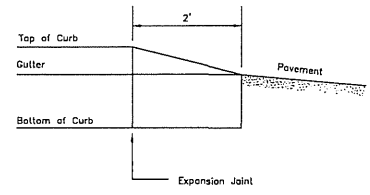
BASIS FOR ESTIMATED QUANTITIES
AGGREGATE BASE 105 LBS/S.Y./INCH
BITUMINOUS MIXTURE 110 LBS/S.Y./INCH
TACK COAT 0.05 GAL./S.Y.
TYPE 1 MULCH 2 TONS/ACRE



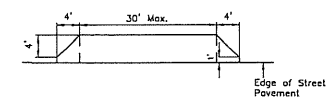
TYPICAL STREET SECTIONS RFC-366E1
NOT TO SCALE



D312 MODIFIED CONCRETE CURB AND GUTTER RFC-355A
NOT TO SCALE

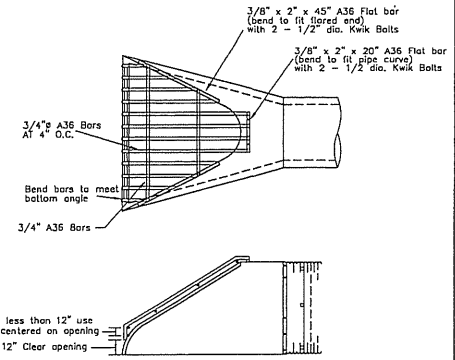


CURB END DETAIL RFC-380A
NOT TO SCALE

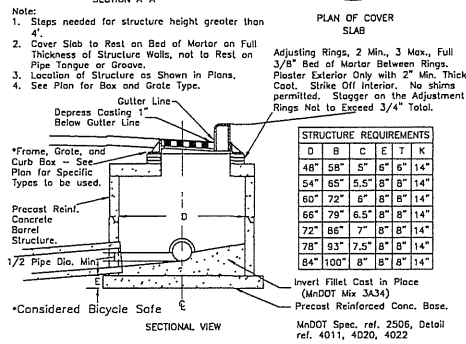
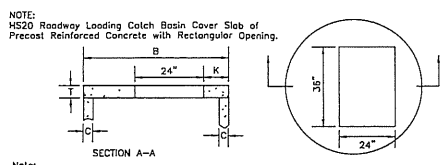


- Note:
- Match existing driveway width and elevation at matchline unless otherwise directed by engineer (See Plans).
 - If existing driveway is concrete, apron and driveway shall be constructed of 6" concrete with 6" x 6" - 6/6 welded wire fabric per MnDOT Spec. 3303 in flat sheets, not rails. Epoxy coated dowel bars conforming to MnDOT Spec. 3302 shall be placed in the existing driveway pavement along the sawcut line. Dowel bars shall be properly coated with a MnDOT approved lubricant. Dowel bars shall be size #4 and placed at 24" DC. All work shall conform to MnDOT Spec. 2301 and 2531. Concrete shall be ready-mix 3,500 PSI at 28 days, with air content of 5% to 7%, coarse aggregate shall be 1" max, class A and per MnDOT Spec. 3137. Joint sealer shall be hot-poured, low modulus, mastic type per MnDOT Spec. 3725. Membrane curing compound shall be per MnDOT Spec. 3754 and 2301JM.
 - If existing driveway is gravel, apron and driveway within R/W shall be constructed per existing bituminous driveways. Gravel driveways matching beyond R/W shall be 6" Class 5.

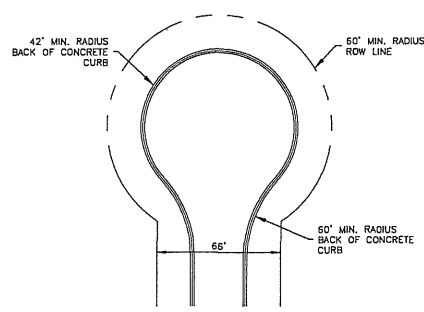
PRIVATE DRIVEWAY/FIELD ENTRANCE RFC-363A3
NOT TO SCALE



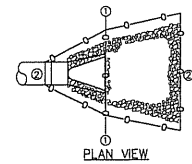
CPP TRASH GUARD RFC-466C
NOT TO SCALE



RECTANGULAR INLET FOR ROUND MANHOLE RFC-465A1
NOT TO SCALE
SPECIAL 1 = 48" Ø
SPECIAL 3 = 60" Ø

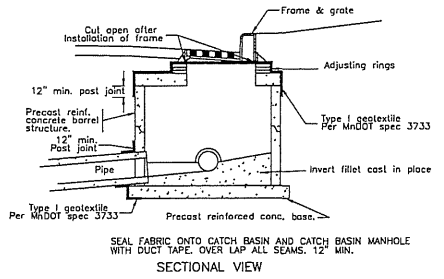


TYPICAL RESIDENTIAL CUL-DE-SAC RFC-367A
NOT TO SCALE



- SEQUENCING:
- Place silt fence along construction limits, the portion of silt fence in front of the pipe shall be removed during flared end section placement.
 - Once the flared end section is placed, silt fence shall be furnished and installed around the top of the flared end section and surrounding the riprap.
 - Any additional outlet protection shall be added as required.
 - Contractor may substitute silt fence for bio-roll or rock log to act as weir for flow into culvert.

SILT FENCE AT FES RFC-857
NOT TO SCALE



FABRIC AROUND CATCH BASIN RFC-463
NOT TO SCALE

REMOVE SIGN					AA
STATION	LOCATION	SIGN NO.	POST	CODE NO.	PANEL LEGEND
10+30	159TH AVE. - LT	C-20	SINGLE		STREET
10+36	159TH AVE. - LT	C-21	SINGLE	R1-1	STOP
14+49	159TH AVE. - LT	C-20	SINGLE		STREET
14+73	159TH AVE. - RT	C-22	SINGLE	W1-7	DOUBLE ARROW
19+74	159TH AVE. - LT	C-20	SINGLE		STREET
30+31	160TH LN. - LT	C-21	SINGLE	R1-1	STOP
30+36	160TH LN. - RT	C-20	SINGLE		STREET
31+23	160TH LN. - RT	C-23	SINGLE	R2-1-30	SPEED LIMIT
43+18	160TH LN. - RT	C-20	SINGLE		STREET
58+54	ZUMBROTA ST. - RT	C-20	SINGLE		STREET
72+59	160TH AVE. - LT	C-24	SINGLE	W14-1	DEAD END
72+73	160TH AVE. - RT	C-20	SINGLE		STREET
TOTAL					12

REMOVE MAILBOX SUPPORT			AD
STATION	LOCATION	TYPE	
11+24	159TH AVE. - LT	SINGLE	
11+69	159TH AVE. - LT	SINGLE	
11+83	159TH AVE. - LT	SINGLE	
15+33	159TH AVE. - LT	SINGLE	
16+56	159TH AVE. - LT	DOUBLE	
17+42	159TH AVE. - LT	SINGLE	
31+03	160TH LN. - RT	SINGLE	
32+15	160TH LN. - RT	SINGLE	
33+43	160TH LN. - RT	SINGLE	
34+40	160TH LN. - RT	SINGLE	
35+47	160TH LN. - LT	DOUBLE	
37+61	160TH LN. - RT	SINGLE	
38+50	160TH LN. - RT	SINGLE	
38+61	160TH LN. - RT	SINGLE	
39+67	160TH LN. - LT	SINGLE	
41+44	160TH LN. - RT	SINGLE	
41+52	160TH LN. - LT	SINGLE	
51+66	ZUMBROTA ST. - LT	SINGLE	
52+95	ZUMBROTA ST. - LT	SINGLE	
53+20	ZUMBROTA ST. - LT	SINGLE	
53+73	ZUMBROTA ST. - LT	SINGLE	
55+43	ZUMBROTA ST. - LT	SINGLE	
57+03	ZUMBROTA ST. - LT	SINGLE	
61+83	ALAMO ST. - LT	SINGLE	
63+21	ALAMO ST. - LT	SINGLE	
63+79	ALAMO ST. - LT	DOUBLE	
64+42	ALAMO ST. - LT	SINGLE	
65+31	ALAMO ST. - LT	SINGLE	
66+03	ALAMO ST. - RT	SINGLE	
66+06	ALAMO ST. - LT	SINGLE	
70+52	160TH AVE. - RT	DOUBLE	
TOTAL			35

SAWCUT BITUMINOUS PAVEMENT			AE
STATION	LOCATION	LIN FT	
10+14.81	159TH AVE. - ROADWAY	66.6	
20+60.79	159TH AVE. - ROADWAY	26.2	
30+14.39	160TH LN. - ROADWAY	66.5	
43+34.13	160TH LN. - ROADWAY	71.5	
TOTAL			230.8

NOTES

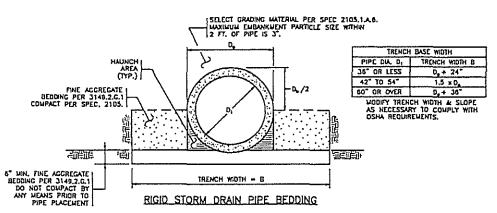
- TOP OF GRADING SUBGRADE IS DEFINED AS THE BOTTOM OF THE CLASS 5 AGGREGATE BASE.
- BITUMINOUS AND CONCRETE DISTURBED BY CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFFSITE IN ACCORDANCE WITH MnDOT SPEC. 2104.3C3.
- COMPACTION OF ALL GRADING AND BASE ITEMS SHALL BE BY THE "QUALITY COMPACTION METHOD".
- USE TACK COAT BETWEEN ALL BITUMINOUS LAYERS AND BETWEEN BITUMINOUS AND CONCRETE CURB AND GUTTER.
- STRIP ALL TOPSOIL AREAS TO BE DISTURBED BY CONSTRUCTION AND REUSE TOPSOIL OR USE AS FILL OUTSIDE OF ROAD CORE.
- WHENEVER THE WORD "INCIDENTAL" IS USED IN THIS PLAN, IT SHALL MEAN THIS WORK SHALL BE INCIDENTAL FOR WHICH NO DIRECT COMPENSATION WILL BE MADE.
- STATIONING FOR LOCATION OF EXISTING AND NEW SIGNS IS APPROXIMATE.
- EXCESS MATERIAL TO BE HAULED AWAY TO CITY OF HAM LAKE PUBLIC WORKS.

REMOVE CULVERTS				AB
STATION	SIZE	LOCATION	LENGTH (LIN FT)	
10+29	12" CMP	159TH AVE. - ACROSS	50	
12+77	18" CMP	159TH AVE. - ACROSS	59	
14+58	18" CMP	15TH AVE. - RT.	18	
30+28	12" CMP	160TH LN. - ACROSS	50	
TOTAL				177

REMOVE BITUMINOUS PAVEMENT			AC
STATION	LOCATION	SQ YD	
10+14.81 TO 20+60.79	159TH AVENUE - ROADWAY	2,629.5	
60+00.00 TO 66+73.70	ALAMO STREET - ROADWAY	2,265.5	
50+00.00 TO 58+94.17	ZUMBROTA STREET - ROADWAY	2,204.6	
70+00.00 TO 72.98.04	160TH AVENUE - ROADWAY	1,407.4	
30+14.33 TO 43+34.36	160TH LANE - ROADWAY	3,389.1	
TOTAL			11,896.2

EARTHWORK SUMMARY				AJ
EXCAVATION (CU YD)		EMBANKMENT (CU YD)		
TOPSOIL	2,172 CU YD (EV)] 4,470 CU YD (EV) ①	TOPSOIL	1,461 CU YD (EV)/1.1 = 1,328 CU YD (CV)
COMMON	2,298 CU YD (EV)		COMMON EX	2,298 CU YD (EV)/1.3 = 1,768 CU YD (CV)
BIT REMOVAL	991 CU YD		GRANULAR FILL	750 CY YD (CV)
			3,846 CU YD (CV) ②	1,328 CU YD (CV) TOPSOIL
				2,518 CU YD (CV) COMMON

NOTES:
 ① TOTAL EXCAVATION (EV) REQUIRED FOR PROJECT.
 ② TOTAL EMBANKMENT (CV) REQUIRED FOR PROJECT.

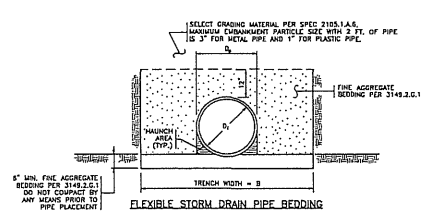


CONSTRUCTION SEQUENCE

1. LOOSELY PLACE 6" OF FINE AGGREGATE BEDDING MATERIAL TO GRADE. DO NOT COMPACT PRIOR TO PIPE PLACEMENT.
2. FOR PIPES WITH BELL, REMOVE MATERIAL IN BELL AREA PRIOR TO PLACEMENT.
3. FURNISH AND INSTALL PIPE TO GRADE.
4. AFTER PLACEMENT OF THE PIPE, PLACE ADDITIONAL BEDDING AND COMPACT THE FULL LENGTH ON BOTH SIDES OF THE PIPE UNDERNEATH THE HAUNCH AREA BY FIRST SHOVEL SLICING (MANUALLY SHOVE THE BLADE END OF SHOVEL AT AN ANGLE DOWN THE ENTIRE LENGTH OF THE HAUNCH UNDER THE PIPE) THEN COMPACT THE HAUNCH AT AN ANGLE USING A POWERED MECHANICAL OR PNEUMATIC DEVICE (I.E. POLE TAMPER, JUMPING JACK, OR SIMILAR) COMPACT THE REMAINING MATERIAL OUTSIDE THE HAUNCH AREA TO THE REQUIREMENTS OF THE APPLICABLE MATERIAL TYPE ENSURING THAT THE ENTIRE LENGTH OF PIPE IS SUPPORTED UNIFORMLY BY BEDDING.
5. PLACE AND COMPACT BACKFILL EVENLY AND SIMULTANEOUSLY IN 6" LIFTS ON EACH SIDE OF THE PIPE UP TO THE MID-HEIGHT WHEN COMPLETED.
6. COMPLETE REMAINING BACKFILL.

NOTES

EXCAVATE & CONSTRUCT ALL TRENCHES AND SLOPES PER OSHA REQUIREMENTS. PIPE SIZE IS BASED ON THE NOMINAL INSIDE DIAMETER. PROTECT ALL PIPE DURING CONSTRUCTION PER SPEC. 2501 OR 2503.

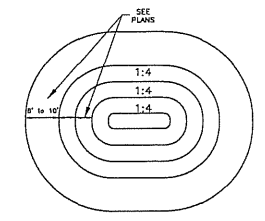
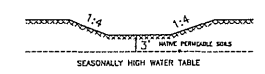


CONSTRUCTION SEQUENCE

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5. PLACE AND COMPACT BACKFILL EVENLY AND SIMULTANEOUSLY IN 6" LIFTS ON EACH SIDE OF THE PIPE UP TO THE MID-HEIGHT WHEN COMPLETED.
6. COMPLETE REMAINING BACKFILL.

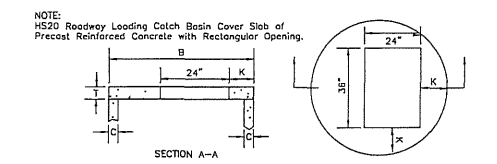
NOTES

EXCAVATE & CONSTRUCT ALL TRENCHES AND SLOPES PER OSHA REQUIREMENTS. PIPE SIZE IS BASED ON THE NOMINAL INSIDE DIAMETER. PROTECT ALL PIPE DURING CONSTRUCTION PER SPEC. 2501 OR 2503.



TYPICAL INFILTRATION/RETENTION POND RFC-858B
NOT TO SCALE

STORM DRAIN BEDDING FOR RIGID AND FLEXIBLE PIPE RFC-654
NOT TO SCALE



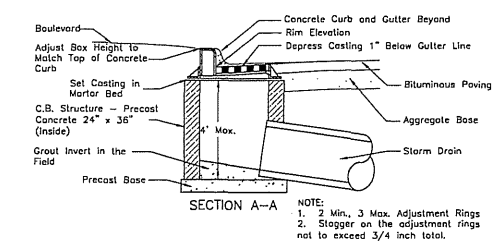
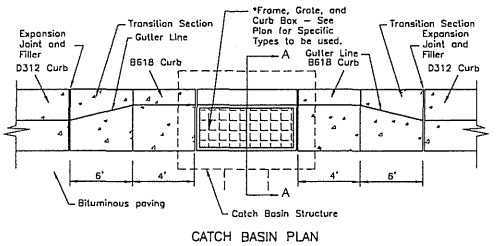
NOTE:

1. Slopes needed for structure height greater than 4'.
2. Cover Slab to Rest on Bed of Mortar on Full Thickness of Structure Walls, not to Rest on Pipe Tongue or Groove.
3. Location of Structure as Shown in Plans.
4. See Plan for Box and Grate Type.

Adjusting Rings, 2 Min., 3 Max., Full 3/8" Bed of Mortar Between Rings. Plaster Exterior Only with 2" Min. Thick Coat. Strike Off Interior. No shims permitted. Stagger on the Adjustment Rings Not to Exceed 3/4" Total.

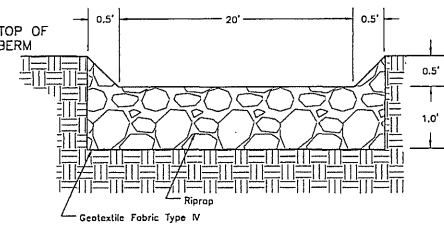
STRUCTURE REQUIREMENTS					
D	B	C	E*	T	K
48"	58"	5"	6"	14"	
54"	65"	5.5"	8"	14"	
60"	72"	6"	8"	14"	
66"	79"	6.5"	8"	14"	
72"	86"	7"	8"	14"	
78"	93"	7.5"	8"	14"	
84"	100"	8"	8"	14"	

RECTANGULAR INLET FOR ROUND MANHOLE RFC-465A3
NOT TO SCALE
SPECIAL 2 = 60" Ø



RECTANGULAR CATCH BASIN RFC-459B
NOT TO SCALE
SPECIAL

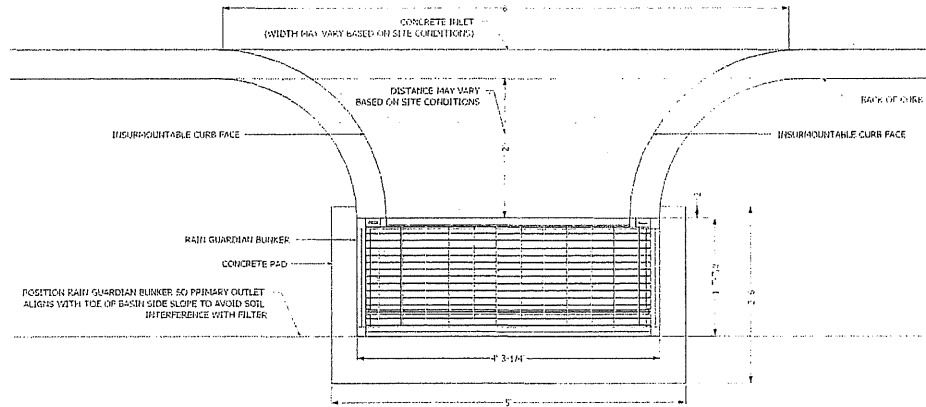
BROAD CRESTED RECTANGULAR WEIR



NOTE:

Permanent erosion control fabric to extend from NWL to 5' post toe of downstream slope.

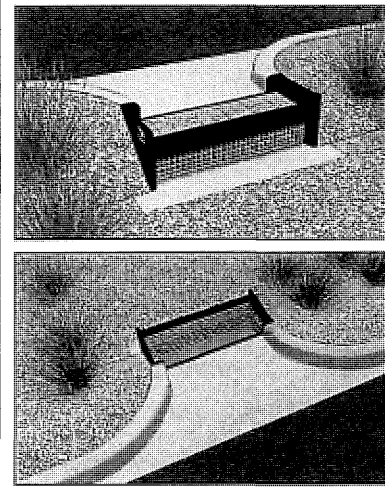
EMERGENCY OVERFLOW WEIR RFC-852A1
NOT TO SCALE



PLAN VIEW NOTES

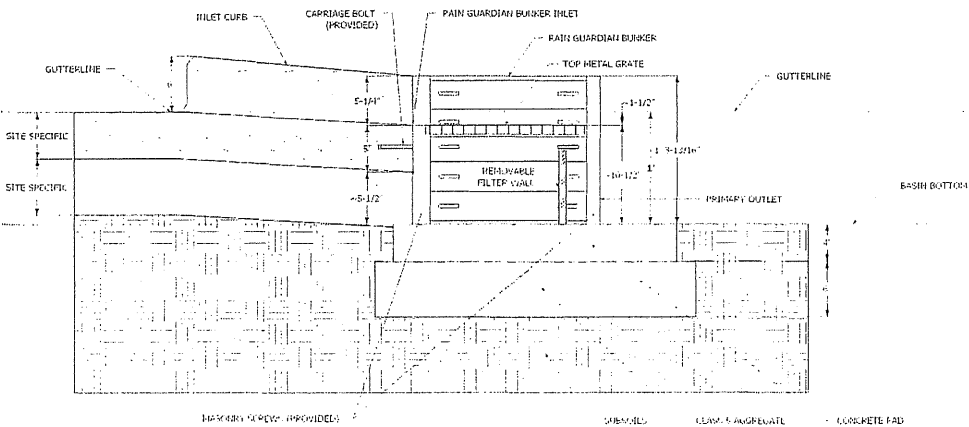
1. INLET WIDTH AND DISTANCE BETWEEN BACK OF CURB AND RAIN GUARDIAN BUNKER MAY VARY WITH SITE CONDITIONS. INSTALLATION FLUSH WITH THE BACK OF THE CURB CAN ALSO BE COMPLETED WITH THE RAIN GUARDIAN BUNKER.
2. CONCRETE PAD EXTENDS BEYOND THE FILTER WALL OF THE RAIN GUARDIAN BUNKER TO SERVE AS A SPLASH DISSIPATOR.

INSTALLED VIEWS



INSTALLATION NOTES

1. INSTALL THE CONCRETE PAD WITH A 1' 10" OFFSET FROM THE BACK OF THE CURB TO ACCOMMODATE THE CONCRETE INLET. THIS DISTANCE MAY VARY BASED ON SITE CONDITIONS, BUT CONSIDERATIONS SHOULD INCLUDE SLOPE OF THE INLET AND BASIN SIDE SLOPES ADJACENT TO THE RAIN GUARDIAN BUNKER. POSITION RAIN GUARDIAN BUNKER SO PRIMARY OUTLET ALIGNS WITH TOE OF BASIN SIDE SLOPE TO AVOID SOIL INTERFERENCE WITH REMOVABLE FILTER WALL. THE CONCRETE PAD SHOULD BE REINFORCED WITH REBAR.
2. EXCAVATE 1' 10" BELOW THE GUTTERLINE ELEVATION (I.E. THE BIORETENTION OVERFLOW ELEVATION) TO ACCOMMODATE THE 1' PONDING DEPTH, 6" CLASS 5 AGGREGATE, AND 4" CONCRETE PAD TO WHICH THE RAIN GUARDIAN BUNKER WILL BE SECURED. THEREFORE, THE TOP OF THE FINISHED CONCRETE PAD IS PRECISELY 1' BELOW THE GUTTERLINE ELEVATION. THE TOP OF THE RAIN GUARDIAN BUNKER METAL GRATE WILL BE 10-1/2" ABOVE THE TOP OF THE CONCRETE PAD AND 1-1/2" BELOW THE GUTTERLINE ELEVATION TO ACCOMMODATE A SLOPED INLET FROM THE GUTTER TO THE RAIN GUARDIAN BUNKER.
3. THE RAIN GUARDIAN BUNKER SHOULD BE POSITIONED 2" FROM THE EDGE OF THE CONCRETE PAD CLOSEST TO THE BACK OF THE CURB. THEREFORE, THE RAIN GUARDIAN BUNKER WILL BE 2" FROM THE BACK OF THE CURB.
4. USING THE PILOT HOLE IN EACH OF THE FOUR CORNER POSTS, PREDRILL 5/32" HOLES INTO THE CONCRETE PAD WITH A 4-1/2" MASONRY BIT AND HAMMER DRILL.
5. SECURE RAIN GUARDIAN BUNKER TO CONCRETE PAD WITH FOUR 3/16" X 2-3/4" MASONRY SCREWS (PROVIDED).
6. INSTALL FRAMING FOR INLET BETWEEN RAIN GUARDIAN BUNKER AND BACK OF CURB. TOP ELEVATIONS OF THE FRAMING SHOULD MATCH THE TOP OF THE CURB ON THE STREET SIDE AND THE TOP OF THE RAIN GUARDIAN BUNKER ON THE BIORETENTION SIDE.
7. WHEN POURING THE CONCRETE INLET, ENSURE THE CARRIAGE BELTS ON THE RAIN GUARDIAN BUNKER ARE SURROUNDED BY AT LEAST 2" OF CONCRETE ON ALL SIDES.
8. SIDE CURBS OF THE POURED INLET MUST HAVE AN INSURMOUNTABLE PROFILE TO PREVENT WATER FLOW FROM OVERTOPPING THE DOWNSTREAM SIDE OF THE INLET.
9. WRAP CABLE THROUGH TOP METAL GRATE AND SECURE WITH PROVIDED CLAMP. ENSURE SUFFICIENT SLACK EXISTS IN CABLE TO ALLOW FOR GRATE REMOVAL AND PLACEMENT IN CONCRETE INLET DURING CLEANING. REMOVABLE FILTER WALL SHOULD BE INSTALLED WITH FILTER FABRIC FACING THE RAIN GUARDIAN BUNKER INLET.



CROSS-SECTION VIEW NOTES

1. THE TOP OF THE CLASS 5 BASE (COMPACTED TO 95% STANDARD PROCTOR) IS PRECISELY 1'4" BELOW THE GUTTERLINE ELEVATION.
2. THE TOP OF THE CONCRETE PAD IS PRECISELY 1' BELOW THE GUTTERLINE.

**RAIN GUARDIAN BUNKER
PRETREATMENT CHAMBER
BIORETENTION PONDING DEPTH: 1'
TYPICAL DETAIL**

RAIN GUARDIAN
U.S. PATENT NO. 8,800,016

PRETREATMENT FOR BIORETENTION
Rain Gardens • Swales • Filtration Basins • Infiltration Basins
www.RainGuardian.biz

REVISION HISTORY			
REV	BY	DATE	DESCRIPTION
A	MDH	12/1/15	BUNKER-1'
SCALE	VARIABLE		
U.S. PATENT	8,501,016		

ANOKA CONSERVATION DISTRICT

Anoka Conservation District
1318 McKay Dr. NE, Suite 300
Ham Lake, MN 55304
763-434-2030

DATE	REVISION HISTORY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Mark A. Peterson
DATE: 8/3/2021 REG. NO. 48768

RFC ENGINEERING, INC.
Consulting Engineers

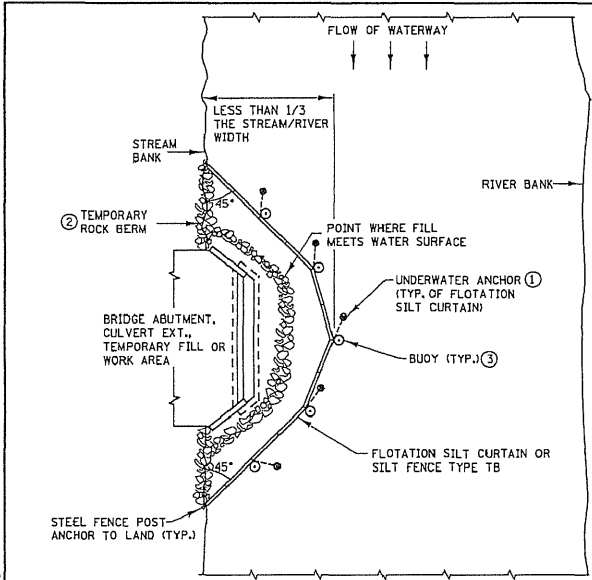
13635 Johnson Street
Ham Lake, MN 55304
Telephone 763-862-8000
Fax 763-862-8042

HAM LAKE IMPROVEMENT PROJECT 2105
CREEK VALLEY STREET RECONSTRUCTION
145TH AVE NE, KENYON ST
146TH AVE NE AND LONDON ST
DETAILS

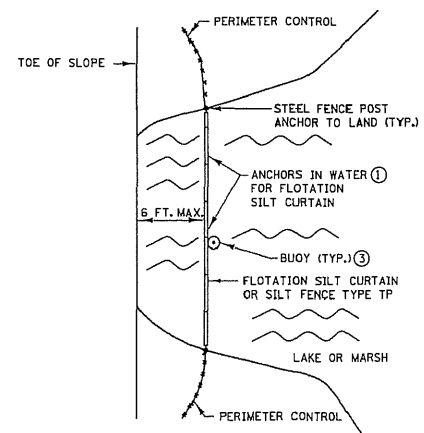
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DATE: 06/29/22
JOB NUMBER: 2105
SHEET: 7 OF 51
FILE: 34-2-119J

PLOTTED/REVISED: 4-APR-2018

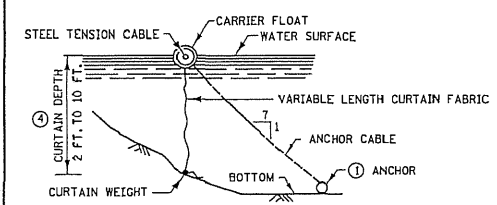
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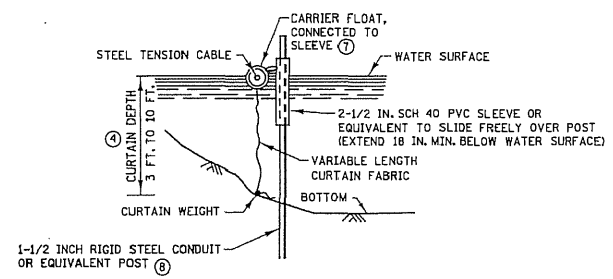
PLAN VIEW FOR STREAM ⑤



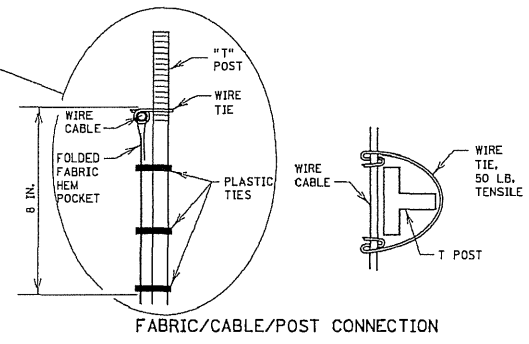
PLAN VIEW FOR LAKE OR MARSH ⑤



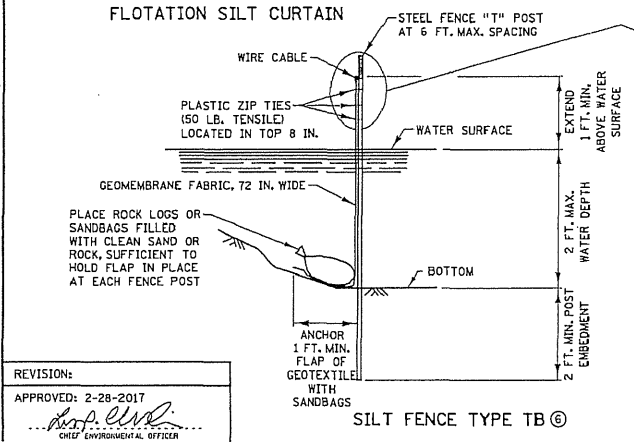
FLOTATION SILT CURTAIN



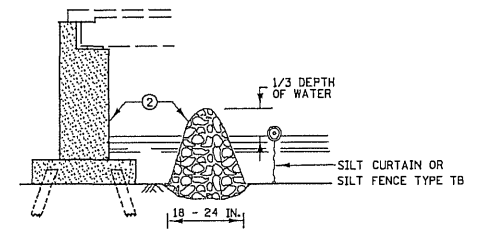
ALTERNATE FLOTATION SILT CURTAIN



FABRIC/CABLE/POST CONNECTION



SILT FENCE TYPE TB ⑥

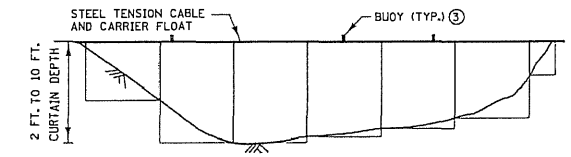


TEMPORARY ROCK BERM FOR SEDIMENT CONTROL

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.



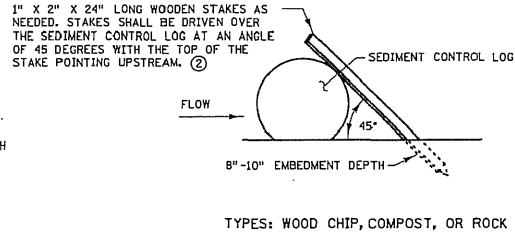
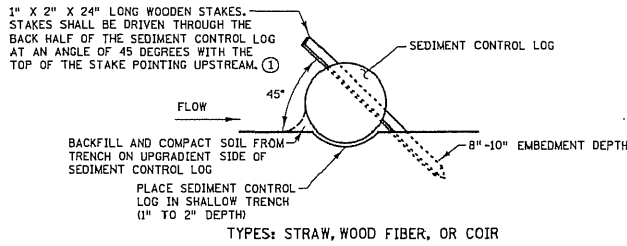
FRONT VIEW FOR FLOTATION SILT CURTAIN

- NOTES:
- SEE SPECS. 2573, 3886, 3887 & 3893.
 - ① FOR ANCHOR SPACING AND WEIGHT REQUIREMENTS, SEE SPEC. 2573.
 - ② 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.
 - ③ 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.
 - ④ 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.
 - ⑤ 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.
 - ⑥ 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.
 - ⑦ 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.
 - ⑧ PROVIDE SUFFICIENT NUMBER OF POST ANCHORS TO MAINTAIN SILT CURTAIN POSITION.

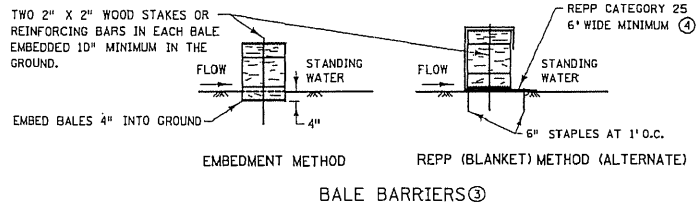
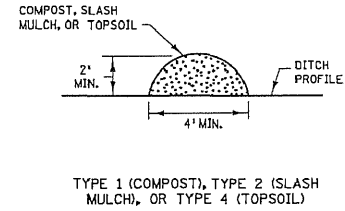
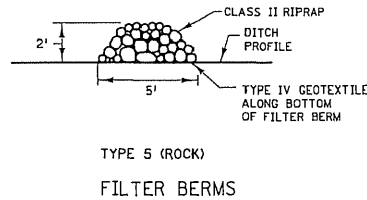
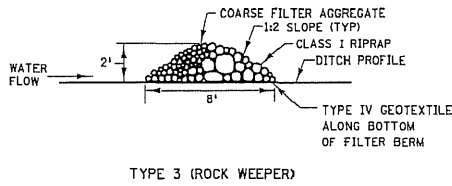
REVISION:
 APPROVED: 2-28-2017
 [Signature]
 CHIEF ENVIRONMENTAL OFFICER

PLOTTED/REVISED: 24-JAN-2020

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SEDIMENT CONTROL LOGS

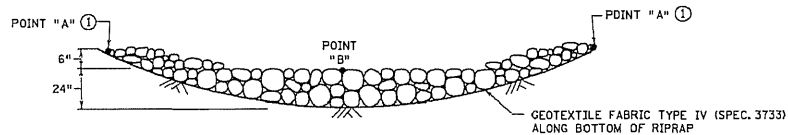


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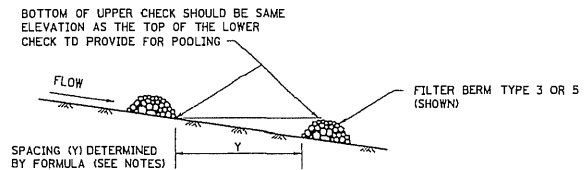
- REPP = ROLLED EROSION PREVENTION PRODUCT.
 SEE SPECS. 2573, 3149, 3874, 3882, 3885, 3886, AND 3897.
- ① SPACE BETWEEN STAKES SHALL BE A MAXIMUM OF 1' FOR DITCH CHECKS OR 2' FOR OTHER APPLICATIONS.
 - ② PLACE STAKES AS NEEDED TO PREVENT MOVEMENT OF SEDIMENT CONTROL LOGS PLACED ON SLOPES OR AS NEEDED DUE TO OTHER FACTORS. STAKES SHALL BE INCIDENTAL.
 - ③ TO BE USED FOR CRITICAL PERIMETER CONTROL AREAS WHERE STANDING WATER OCCURS (6" MAXIMUM DEPTH). BALES SHALL CONSIST OF TYPE 1 MULCH OF APPROXIMATELY 14" X 18" X 36" LONG. BALES SHALL BE PLACED ON EDGE AND BUTTED TIGHT TO ADJACENT BALES.
 - ④ INSTEAD OF TRENCHING, PLACE BALE ON THE REPP (BLANKET) AND WRAP BLANKET AROUND THE BALE. PLACE STAKE THROUGH BALE AND BLANKET.

REVISION:
 APPROVED: JANUARY 8, 2020
Marie Kowalski
 MARIE KOWALSKI
 CHIEF ENVIRONMENTAL OFFICER

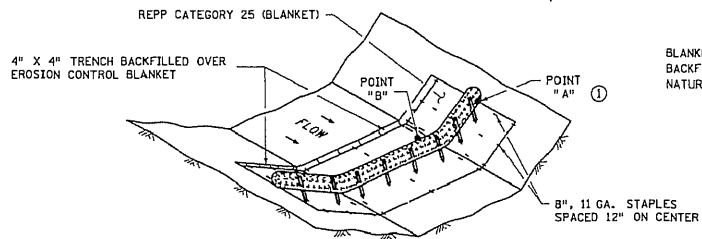
	STANDARD PLAN 5-297.405	2 OF 8	TEMPORARY SEDIMENT CONTROL FILTER BERMS, SEDIMENT CONTROL LOGS, AND BALE BARRIERS	
		APPROVED: 1-8-2020		
DEPARTMENT OF TRANSPORTATION	STATE PROJ. NO.	(T.H.)	SHEET NO. 9 OF 51 SHEETS	



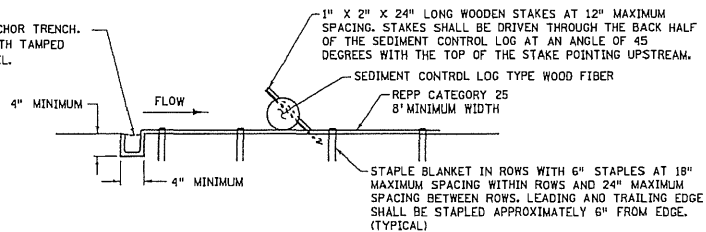
ROCK DITCH CHECKS
 FILTER BERMS TYPE 3 (ROCK WEEPER) OR FILTER TYPE 5 (ROCK) ③
 FOR USE ON ROUGH-GRADED AREAS
 ONLY FOR USE OUTSIDE CLEAR ZONE ②



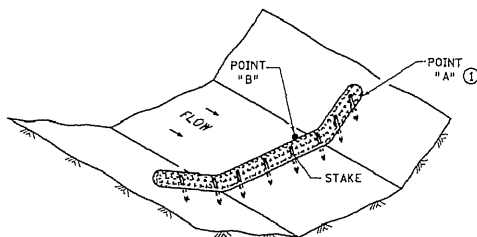
DITCH CHECK SPACING
 FOR ALL FILTER BERM TYPES



BLANKET ANCHOR TRENCH.
 BACKFILL WITH TAMPED
 NATURAL SOIL.



SEDIMENT CONTROL LOG TYPE REPP (BLANKET) SYSTEM ④



SEDIMENT CONTROL LOG TYPE WOOD FIBER, OR TYPE COMPOST ⑤
 FOR USE ON ROUGH GRADED AREAS

NOTES:

- REPP = ROLLED EROSION PREVENTION PRODUCT.
- SEE SPECS. 2573, 3601, 3733, 3885, 3886 & 3889.
- FOR DITCH CHECKS, PLACE SEDIMENT CONTROL LOG PERPENDICULAR TO FLOW AND IN A CRESCENT SHAPE WITH THE ENDS FACING UPSTREAM.
- APPROXIMATE SPACING BETWEEN EACH DITCH CHECK SHOULD BE DETERMINED FROM THE FOLLOWING SPACING FORMULA:

$$\text{APPROXIMATE SPACING OF DITCH CHECKS (FT.)} = Y = \frac{\text{DITCH CHECK HEIGHT (FT.)}}{\% \text{ CHANNEL SLOPE}} \times 100$$
- ① POINT "A" MUST BE A MINIMUM OF 6" HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.
- ② ROCK DITCH CHECKS PLACED WITHIN THE CLEAR ZONE ARE TO BE 18" OR LESS IN HEIGHT. A 1:6 APPROACH AND DEPARTURE SLOPE SHALL BE PROVIDED.
- ③ DITCH GRADE 3% - 5%, MAX. FLOW VELOCITY 12 FT./SEC.
- ④ DITCH GRADE 1.5% - 3%, MAX. FLOW VELOCITY 4.5 FT./SEC.
- ⑤ DITCH GRADE 1.5% - 3%, MAX. FLOW VELOCITY 1.5 FT./SEC.

PLOT NAME: s405_3.spp
 PATH & FILENAME: DT\S\DesignStandards\Development\StandardPlans\DEV\400_Series\s405_3.spp

PLOTTED/REVISED: 24-JAN-2020

REVISION:
 APPROVED: JANUARY 8, 2020

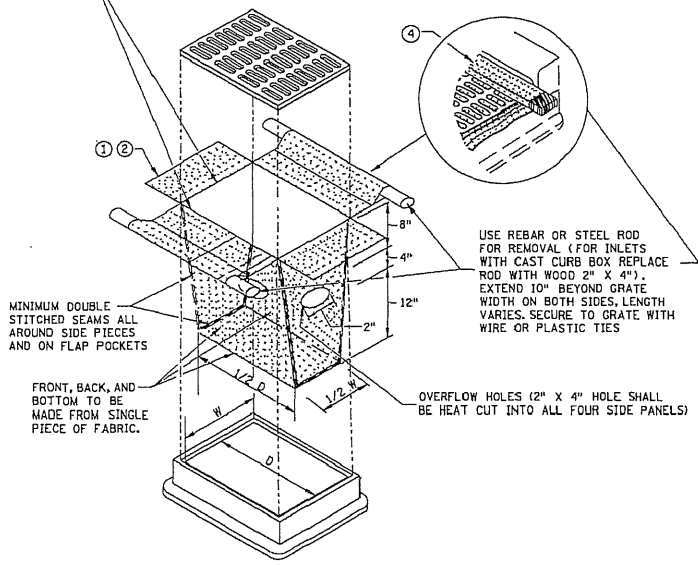
 SARAH LADOROFF
 CHIEF ENVIRONMENTAL OFFICER

 MINNESOTA DEPARTMENT OF TRANSPORTATION	STANDARD PLAN 5-297.405	3 OF 8
	 THOMAS TYBIRK STATE DESIGN ENGINEER	

APPROVED: 1-8-2020 REVISED:	TEMPORARY SEDIMENT CONTROL DITCH CHECK
STATE PROJ. NO.	(T.H.) SHEET NO. 10 OF 51 SHEETS

PLOT FILE NAME: s405_4.spl
 PATH & FILE NAME: O:\S\DesignStandards\Development\New_Border\400_Series\s405_4_spl.dgn
 PLOTTED/REVISED: 4-APR-2018

INLET SPECIFICATIONS AS PER THE PLAN DIMENSION LENGTH AND WIDTH TO MATCH FLAP POCKET



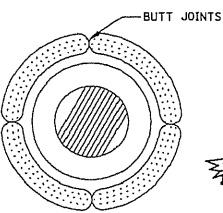
MINIMUM DOUBLE STITCHED SEAMS ALL AROUND SIDE PIECES AND ON FLAP POCKETS

FRONT, BACK, AND BOTTOM TO BE MADE FROM SINGLE PIECE OF FABRIC.

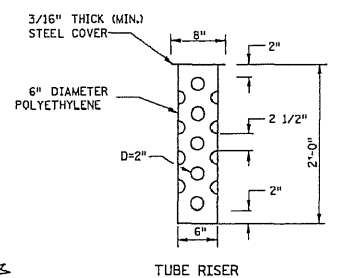
USE REBAR OR STEEL ROD FOR REMOVAL (FOR INLETS WITH CAST CURB BOX REPLACE ROD WITH WOOD 2" X 4"). EXTEND 10" BEYOND GRATE WIDTH ON BOTH SIDES, LENGTH VARIES. SECURE TO GRATE WITH WIRE OR PLASTIC TIES

OVERFLOW HOLES (2" X 4" HOLE SHALL BE HEAT CUT INTO ALL FOUR SIDE PANELS)

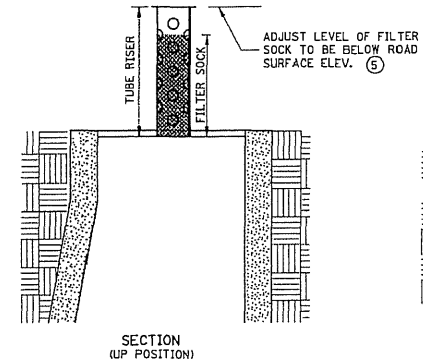
ENDS SECURELY CLOSED TO PREVENT LOSS OF OPEN GRADED AGGREGATE FILL. SECURED WITH 50 PSI. ZIP TIE.



ROCK LOG/COMPOST LOG



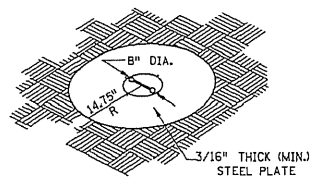
TUBE RISER



SECTION (UP POSITION)

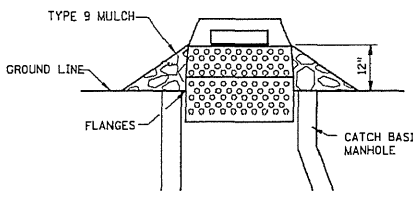
SECTION (DOWN POSITION)

POP-UP HEAD



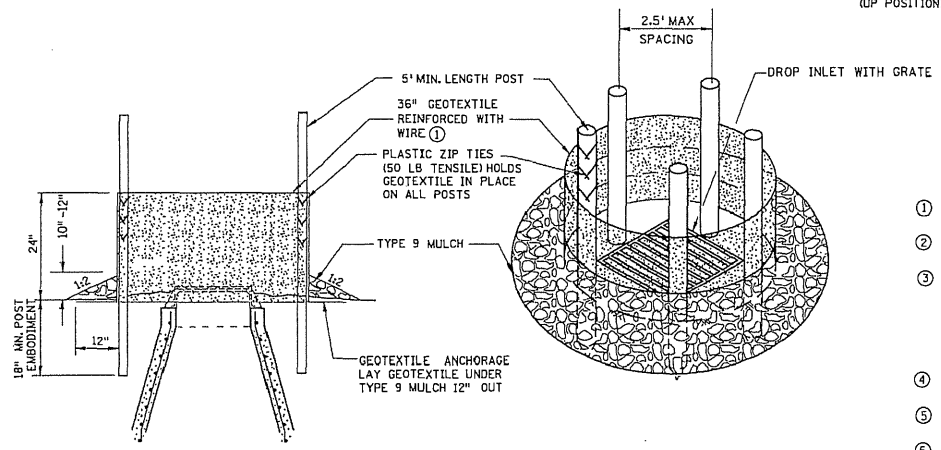
PERSPECTIVE VIEW

FILTER BAG INSERT ③
(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX)



SEDIMENT CONTROL INLET HAT

NOTE:
THE SEDIMENT CONTROL BARRIER SHALL BE A METAL OR PLASTIC/POLYETHYLENE RISER SIZED TO FIT INSIDE THE CATCH BASIN/MANHOLE; HAVE PERFORATIONS TO ALLOW FOR WATER INFILTRATION; HAVE AN OVERFLOW OPENING, FLANGES AND A LID/COVER.



SILT FENCE RING AND ROCK FILTER BERM
USE WHERE INLET DRAINS IN AN AREA WITH SLOPES AT 1:3 OR LESS

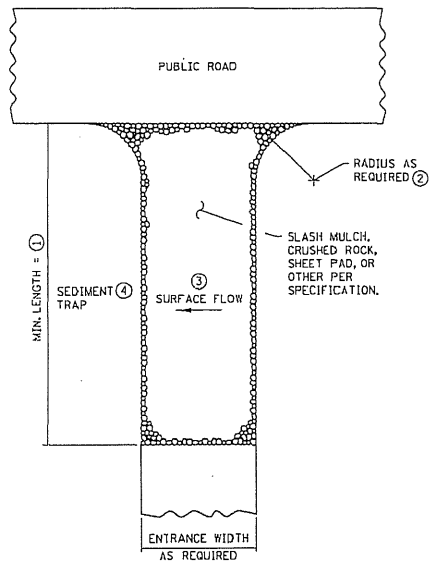
NOTES:

- 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.

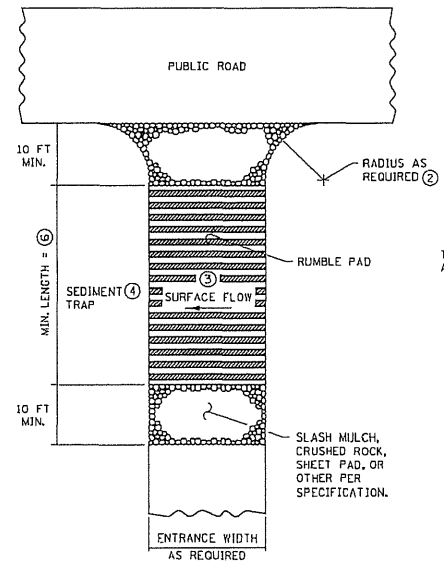
REVISIONS:
APPROVED: 2-28-2017
Chief Environmental Officer

	STANDARD PLAN 5-297.405	4 OF 8	TEMPORARY SEDIMENT CONTROL STORM DRAIN INLET PROTECTION (T.H.) SHEET NO. 11 OF 51 SHEETS
		APPROVED: 2-28-2017 REVISED:	

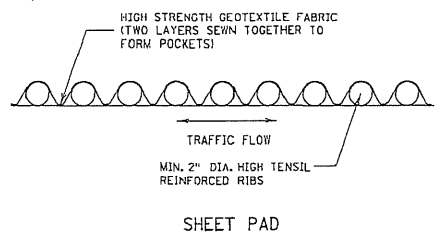
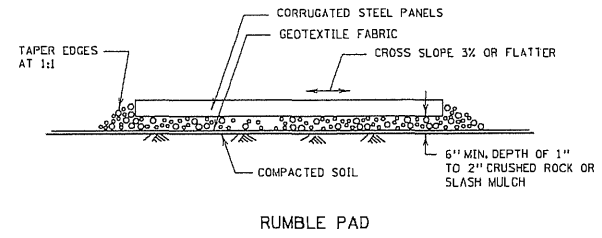
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 PLOTTED/REVISED: 4-APR-2018



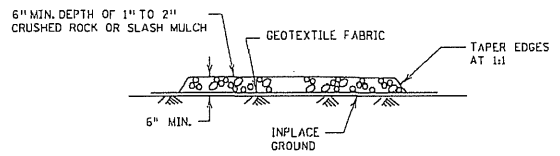
SLASH MULCH, CRUSHED ROCK, OR SHEET PAD CONSTRUCTION EXIT ⑥⑦



RUMBLE PAD CONSTRUCTION EXIT ⑥⑦



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.

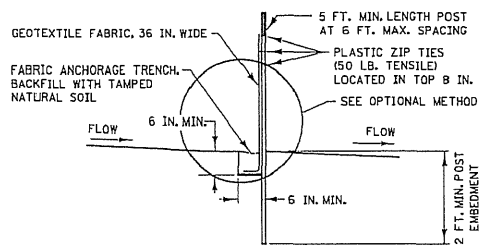
REVISION:
 APPROVED: 2-28-2017

 CHIEF ENVIRONMENTAL OFFICER

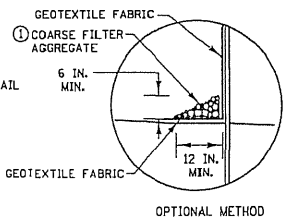
 MINNESOTA DEPARTMENT OF TRANSPORTATION	STANDARD PLAN 5-297.405 5 OF 8 APPROVED: 2-28-2017 REVISED: STATE DESIGN ENGINEER	APPROVED: 2-28-2017 REVISED:	TEMPORARY SEDIMENT CONTROL STABILIZED CONSTRUCTION EXIT (T.H.) SHEET NO. 12 OF 51 SHEETS
STATE PROJ. NO.			

PLOTTED/REVISED: 4-APR-2018

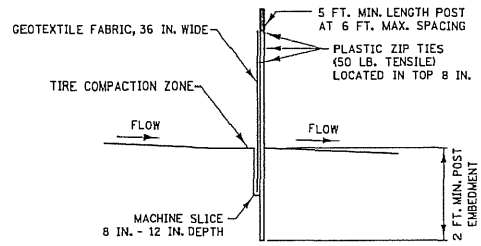
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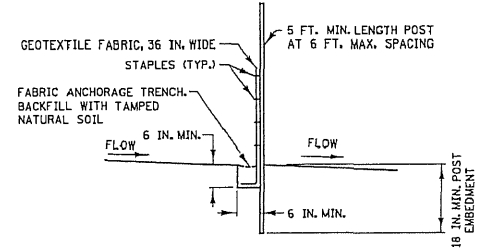
SILT FENCE TYPE HI ②
(HAND INSTALLED)



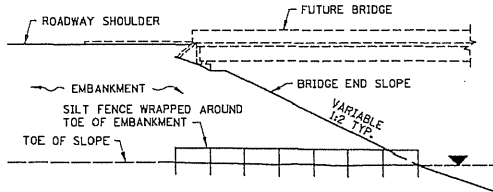
OPTIONAL METHOD



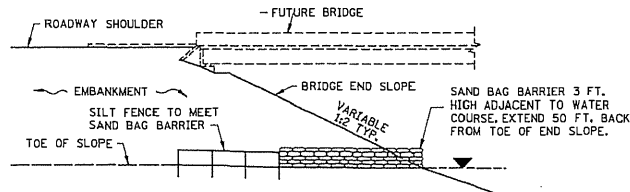
SILT FENCE TYPE MS ②
(MACHINE SLICED)



SILT FENCE TYPE PA ③
(PREASSEMBLED)

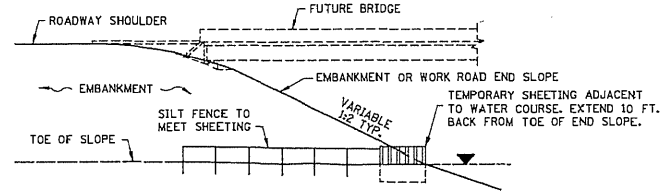


SILT FENCE ONLY ④

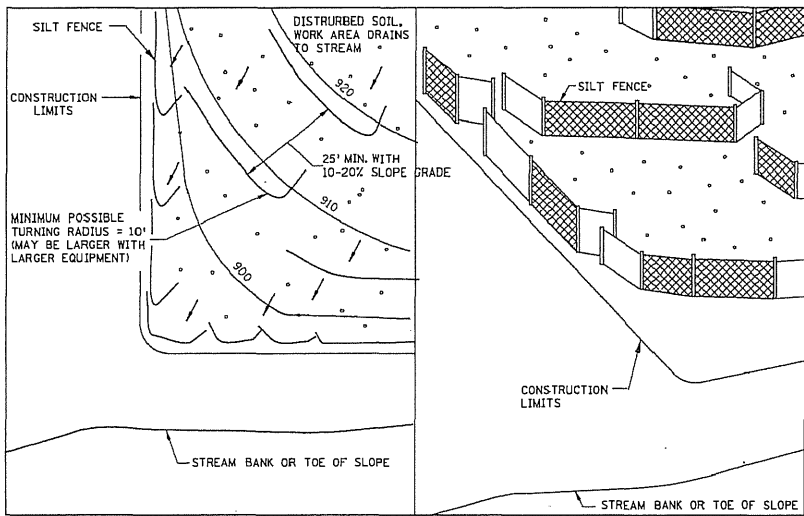


SILT FENCE WITH SAND BAGS ⑤

INSTALLATION AT BRIDGE EMBANKMENT ADJACENT TO WATER



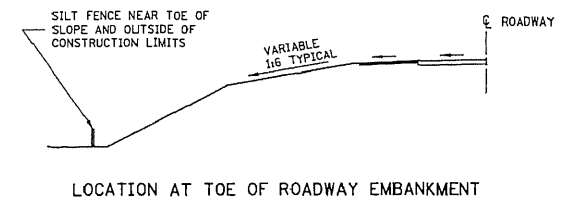
SILT FENCE WITH SHEETING ⑥



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.

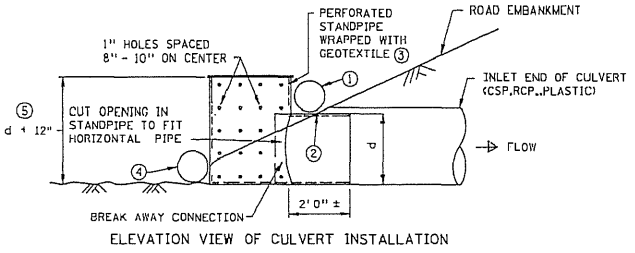
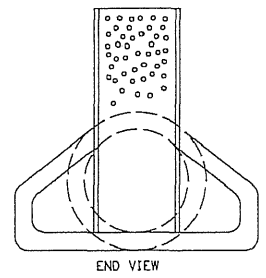
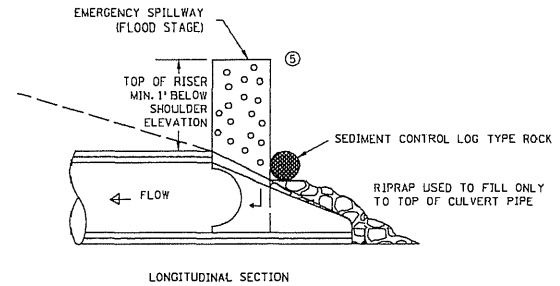
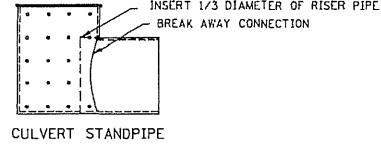
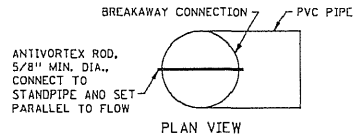
REVISION:
APPROVED: 2-28-2017
[Signature]
CHIEF ENVIRONMENTAL OFFICER

m
MINNESOTA
DEPARTMENT
OF
TRANSPORTATION

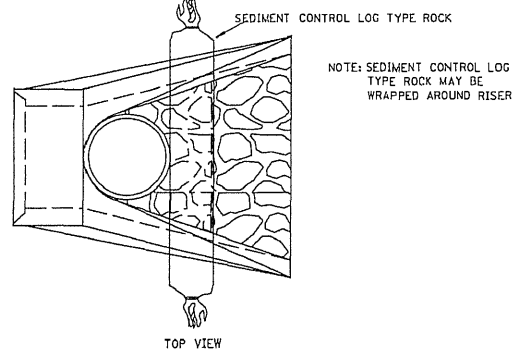
STANDARD PLAN 5-297.405 6 OF 8
[Signature]
STATE DESIGN ENGINEER

APPROVED: 2-28-2017
REVISED:
STATE PROJ. NO. (T.H.) SHEET NO. 13 OF 51 SHEETS
TEMPORARY SEDIMENT CONTROL
SILT FENCE

PLOT NAME: s405_B_son
 PATH & FILENAME: OTS\DesignStandards\Development\New Border\400_Series\s405_B_son.dgn
 PLOTTED/REVISED: 4-APR-2018

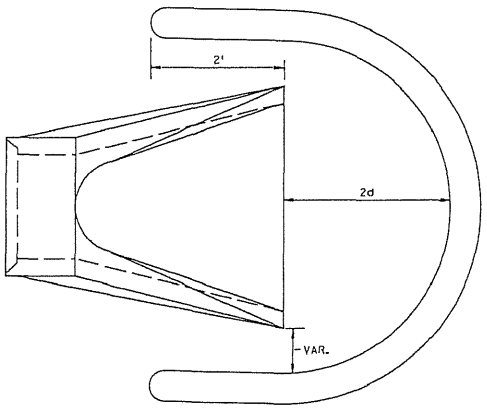


CULVERT STANDPIPE INSERT (D-RISER)
 d = CULVERT SIZE: 12" - 36"

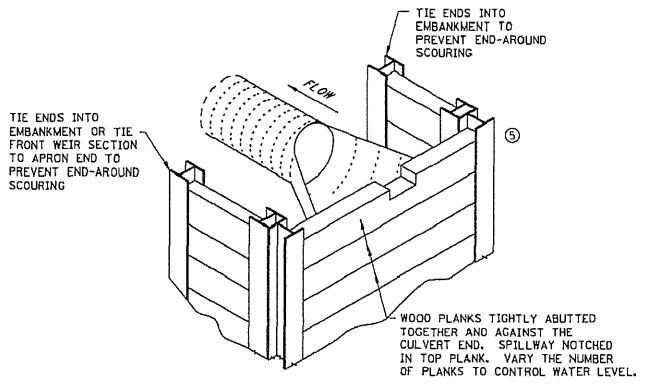


CULVERT STANDPIPE INSERT (D-RISER)

NOTE: SEDIMENT CONTROL LOG TYPE ROCK MAY BE WRAPPED AROUND RISER



SEDIMENT CONTROL LOG WEIR
 (COMPOST, WOOD CHIP, OR ROCK)
 d = CULVERT SIZE: 12"-36"

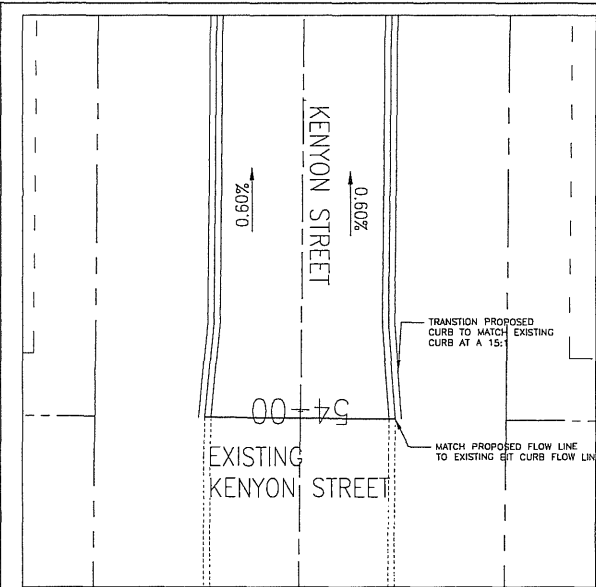


WOOD PLANK WEIR

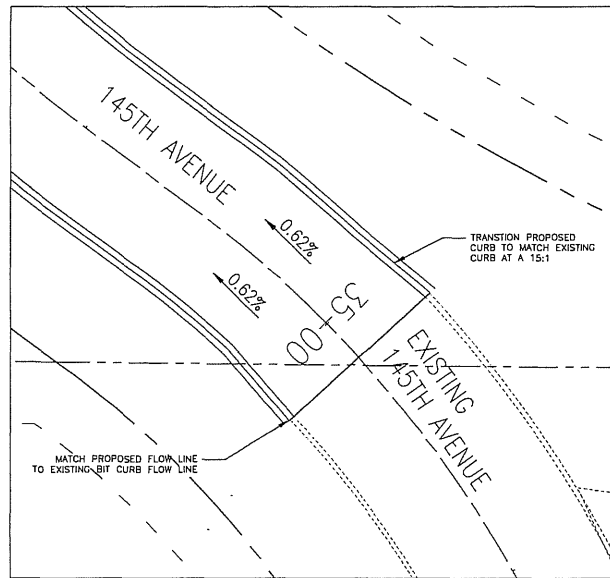
- NOTES:
- SEE SPECS. 2573, 3891 & 3893.
 - FOR USE WHEN TEMPORARY PONDING IS NEEDED IN DITCH SECTIONS FOR SEDIMENT CONTROL.
 - MANUFACTURED ALTERNATIVES LISTED ON MnDOT'S APPROVED PRODUCTS LIST MAY BE SUBSTITUTED AT NO ADDITIONAL COST.
 - ① ROCK LOG OR SANDBAG TO HOLD STANDPIPE AND ACT AS A SEAL BETWEEN RISER PIPE AND CULVERT.
 - ② PLACE CULVERT APRON AND SLIDE TEMPORARY STANDPIPE INTO CSP OR RCP CULVERT.
 - ③ ALL GEOTEXTILE USED FOR CULVERT PROTECTION SHALL BE MONOFILAMENT IN BOTH DIRECTIONS, MEETING SPEC. 3886 FOR MACHINE SLICED.
 - ④ ROCK LOG OR RIP RAP TO HOLD STANDPIPE AND ACT AS A FILTER BETWEEN RISER PIPE AND CULVERT.
 - ⑤ HEIGHT OVERFLOW NOT TO CAUSE FLOODING OF ROAD OR ADJACENT PROPERTIES.

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

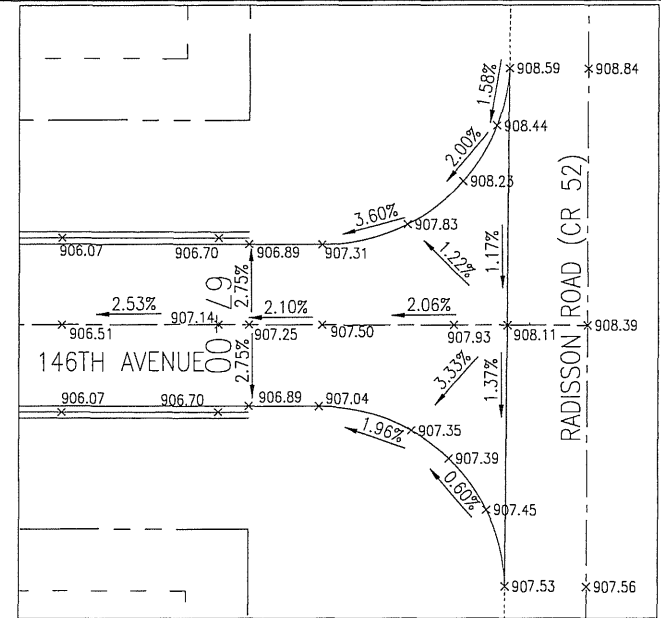
	STANDARD PLAN 5-297.405	8 OF 8	TEMPORARY SEDIMENT CONTROL CULVERT END CONTROLS
	APPROVED: 2-28-2017 REVISOR:	STATE PROJ. NO.	



KENYON ST AND EXISTING KENYON ST



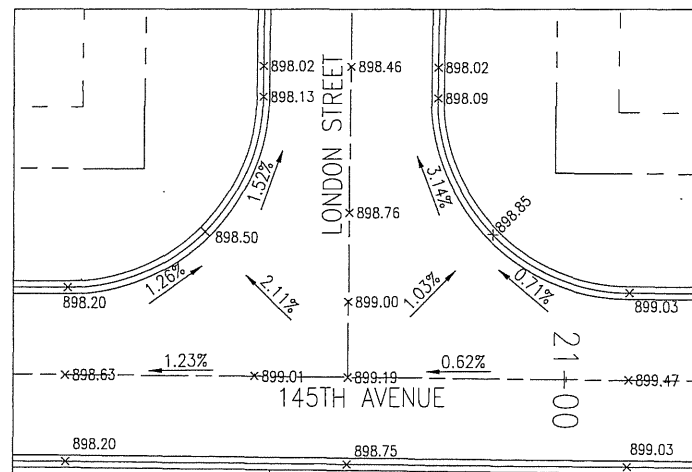
145TH AVE AND EXISTING 145TH AVE



146TH AVE AND RADISSON ROAD (CR 52)



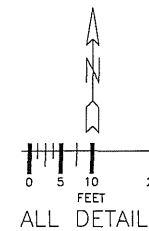
145TH AVE AND KENYON ST



145TH AVE AND LONDON ST

INTERSECTION STATIONS			
CROSS ROAD NAME	CROSS ROAD STATION	TERMINATING ROAD NAME	TERMINATING ROAD STATION
145TH AVENUE	18+89.83	KENYON STREET	50+00
145TH AVENUE	20+64.83	LONDON STREET	40+00

NOTES:
1. TRANSITION PROPOSED CURB TO MATCH EXISTING CURB AT 15:1.



UTILITIES: CENTURYLINK (763) 712-5017
CENTERPOINT ENERGY (763) 323-2760
COMCAST (952) 607-4076
CONHEUS 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 DAILY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

David Wright
DATE 5/3/2021 REG. NO. 48268

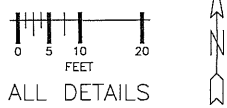
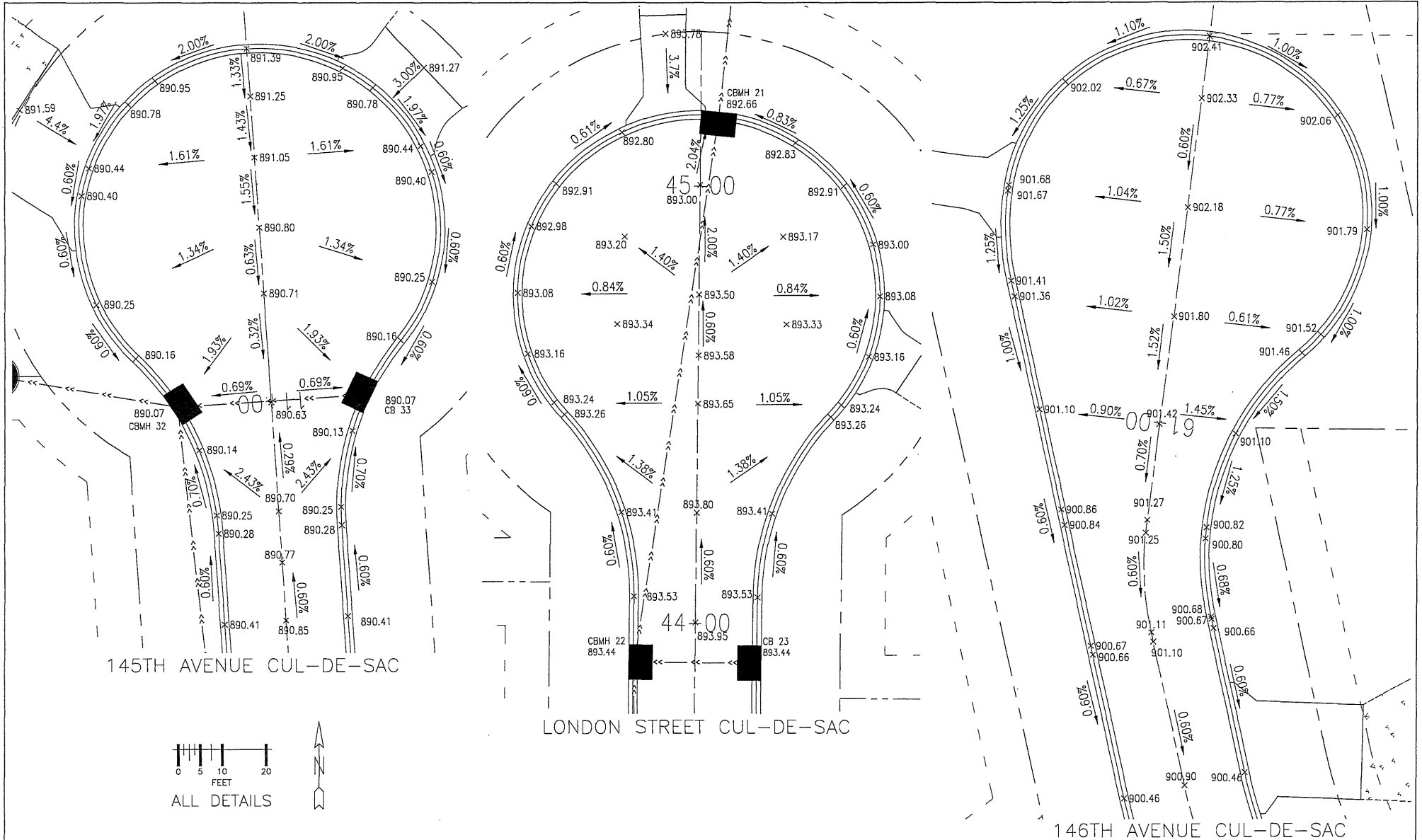
RFC ENGINEERING, INC.
Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
CREEK VALLEY STREET RECONSTRUCTION
145TH AVE NE AND KENYON ST
145TH AVE NE AND LONDON ST
INTERSECTION DETAILS

DWG: 2105 INT
DATE: 05/29/22
JOB NUMBER: 2105
SHEET: 15 OF 51
FILE: 34-2-127

DESIGN BY: LDZ DRAWN BY: LDZ CHECKED BY: DAK



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

UTILITIES: CENTURYLINK (763) 712-5017
CENTERPOINT ENERGY (763) 323-2760
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XCEL ENERGY (612) 526-4006

DATE	REVISION HISTORY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David Hengler
DATE 6/2/2021 REG. NO. 48758

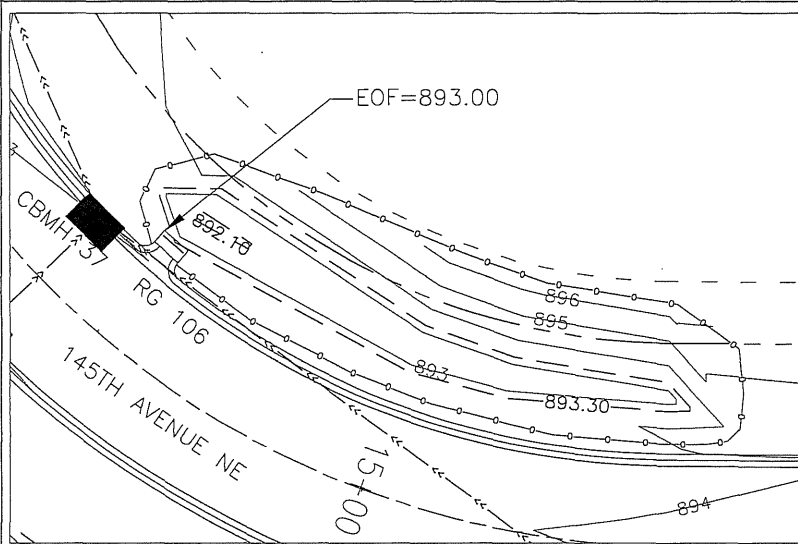
RFC ENGINEERING, INC.
Consulting Engineers

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

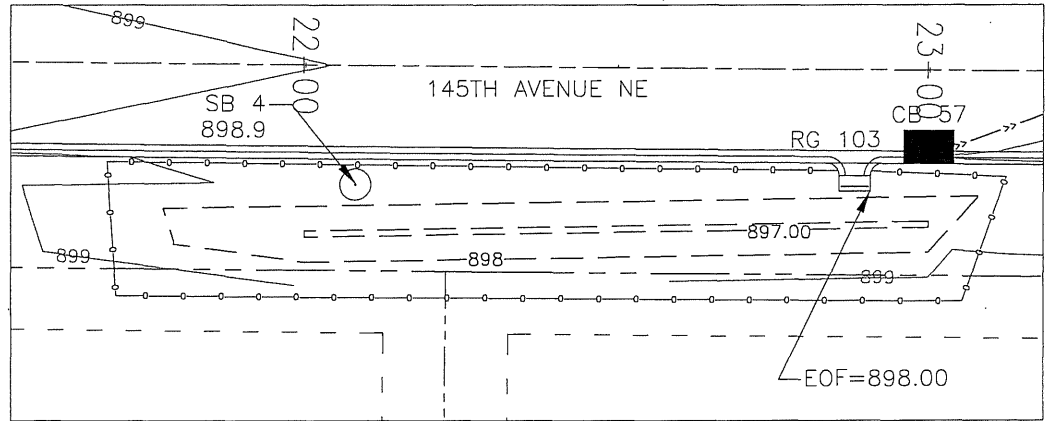
HAM LAKE IMPROVEMENT PROJECT 2105
CREEK VALLEY STREET RECONSTRUCTION
145TH AVE NE, KENYON ST
146TH AVE NE AND LONDON ST
CUL-DE-SAC DETAILS

DWG: 2105 INT2
DATE: 06/29/22
JOB NUMBER: 2105
SHEET: 16 OF 51
FILE: 34-2-128

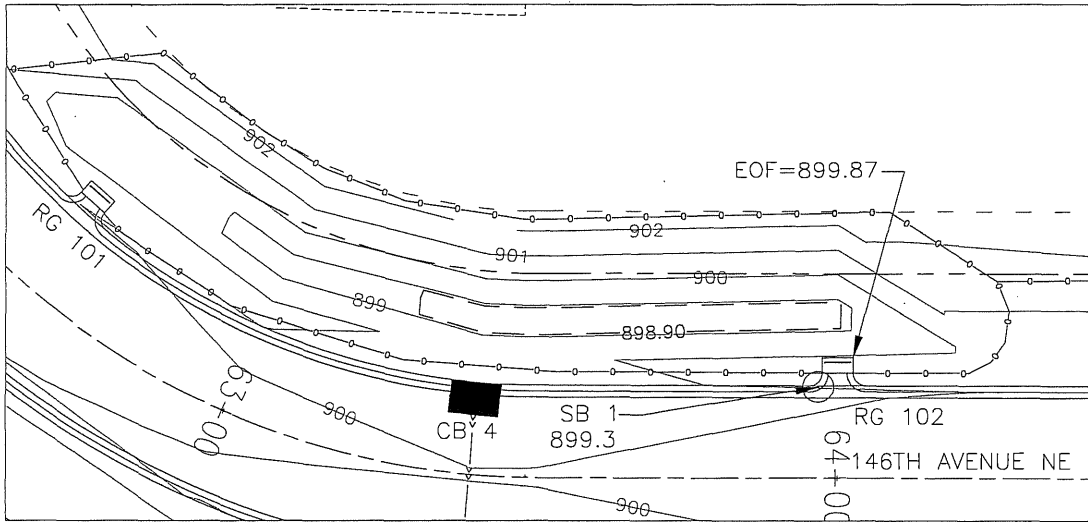
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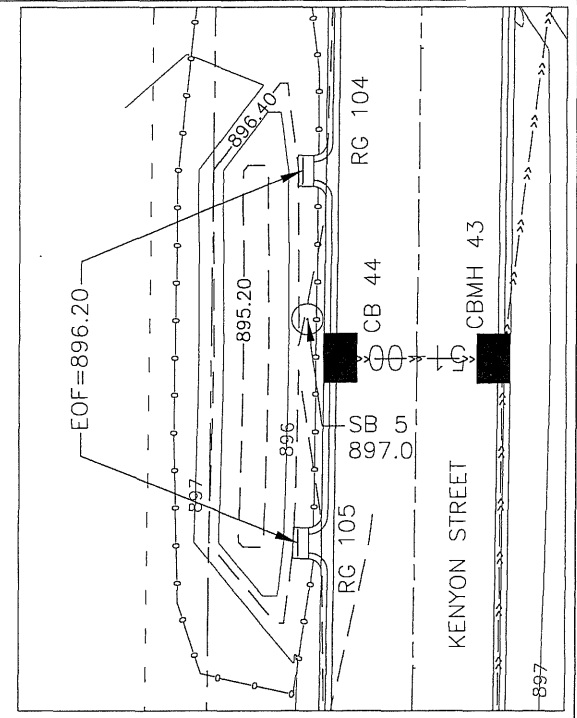
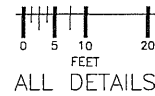
145TH AVE INFILTRATION BASIN 2



145TH AVE INFILTRATION BASIN 1



146TH AVE INFILTRATION BASIN 3



KENYON ST INFILTRATION BASIN 4



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 COMCAST (952) 607-4070
 CONEDUS 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 REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David Krueger
 DATE 6/3/2021 REG. NO. 48768

RFC ENGINEERING, INC.
 Consulting Engineers

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 Ham Lake, MN 55304
 Telephone 763-862-8000
 Fax 763-862-8042

HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE, KENYON ST
 146TH AVE NE AND LONDON ST
 INFILTRATION BASINS DETAILS

DWG: 2105 INFIL
 DATE: 06/29/22
 JOB NUMBER: 2105
 SHEET: 17 OF 51
 FILE: 34-2-129

DESIGN BY: LOZ DRAWN BY: LOZ CHECKED BY: DAK

NOTES:

1. ALL GRADING OPERATIONS SHALL BE CONDUCTED IN A MANNER TO MINIMIZE THE POTENTIAL FOR SITE EROSION.
2. ALL EXPOSED SOIL AREAS MUST BE STABILIZED AS SOON AS POSSIBLE TO LIMIT SOIL EROSION BUT IN NO CASE MORE THAN 7 DAYS.
3. AFTER INITIAL GRADING, COMPLETELY SURROUND THE PROPOSED INFILTRATION BASINS WITH EROSION CONTROL MEASURES TO PREVENT BASINS FROM CLOGGING.
4. SALVAGED TOPSOIL SHALL BE STOCKPILED IN PLACE TO MAINTAIN CONTINUITY OF PROPERTY OWNERS EXISTING TURF CONDITIONS. UPON APPROVAL OF ENGINEER, SOIL MAY BE STOCKPILED UPON REVIEW OF ALTERNATE PLAN PROVIDED BY CONTRACTOR.
5. USE SEED MIX 33-261 FOR INFILTRATION BASINS AND ALL NON RESIDENTIAL TURF ESTABLISHMENT.

CONSTRUCTION EXIT



SEED MIX 25-151: RESIDENTIAL TURF
MULCH TYPE 6
PLANT APRIL 1ST - JUNE 1ST FOR SPRING PLANTING OR JULY 20TH - SEPTEMBER 20TH FOR FALL PLANTING



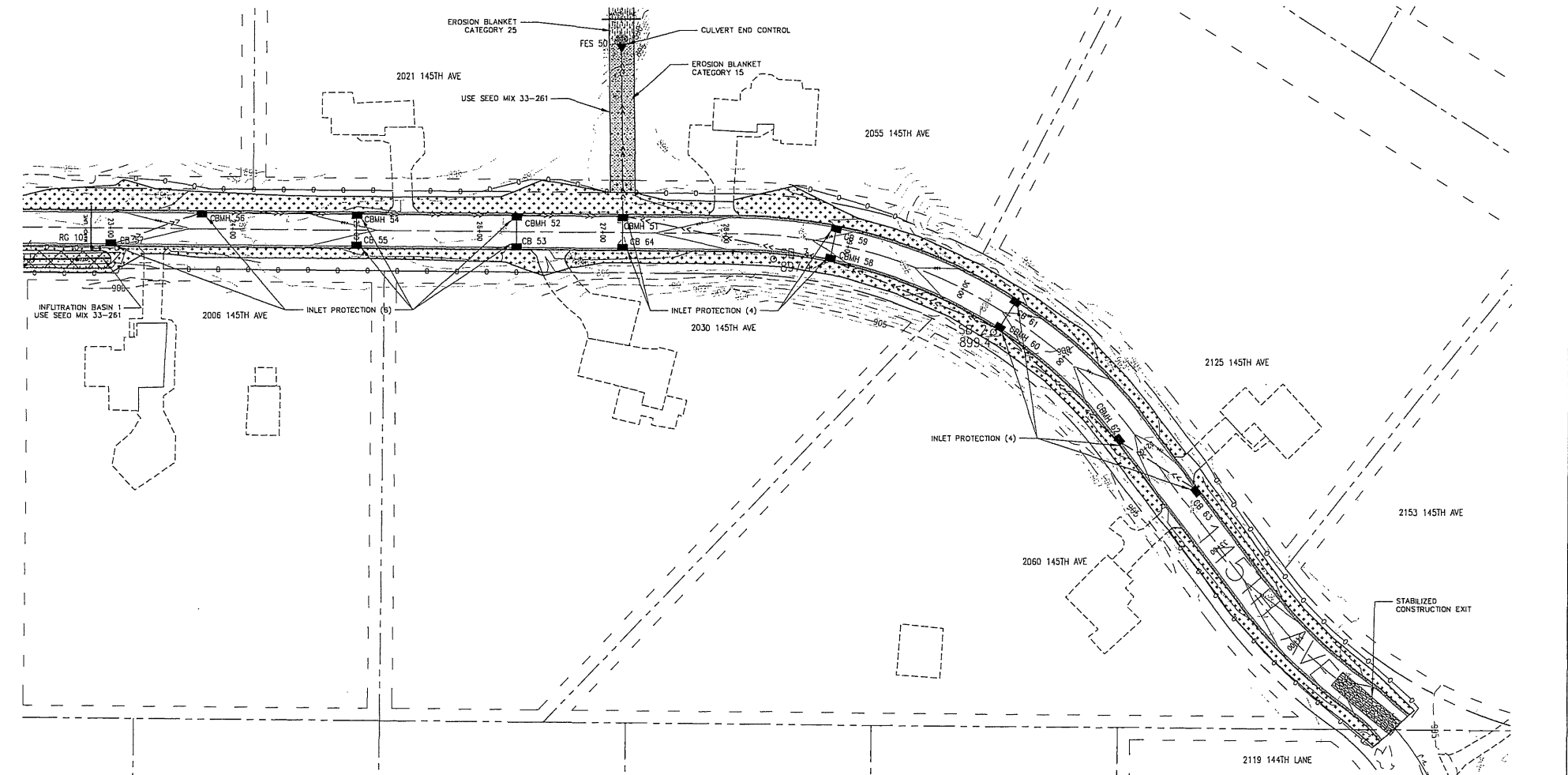
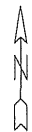
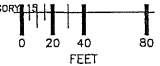
SEED MIX 33-261: PONDS & WET AREAS IN CENTRAL, SOUTHERN AND WESTERN MN
MULCH TYPE 3
PLANT APRIL 15TH - JULY 20TH FOR SPRING PLANTING OR SEPTEMBER 20TH - OCTOBER 20TH FOR FALL PLANTING



EROSION CONTROL BLANKET CATEGORY 15



EROSION CONTROL BLANKET CATEGORY 25



GOVERNOR'S STATE ONE CALL
800-252-1166 651-454-0002

UTILITIES: CENTURYLINK (763) 712-5017
CENTERPOINT ENERGY (763) 323-2780
COMCAST (952) 607-4078
CONHEXUS 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 FULLY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David Krueger
DATE 6/3/2021 REG. NO. 48768

RFC ENGINEERING, INC.
Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
CREEK VALLEY STREET RECONSTRUCTION
145TH AVE NE, KENYON ST
145TH AVE NE AND LONDON ST
STORMWATER POLLUTION PREVENTION PLAN

DRG: 2105 SWPPP 1
DATE: 06/29/22
JOB NUMBER: 2105
SHEET: 18 OF 51
FILE: 34-2-130

DESIGN BY: LOZ DRAWN BY: LOZ CHECKED BY: DAK

NOTES:

1. ALL GRADING OPERATIONS SHALL BE CONDUCTED IN A MANNER TO MINIMIZE THE POTENTIAL FOR SITE EROSION.
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5. USE SEED MIX 33-261 FOR INFILTRATION BASINS AND ALL NON RESIDENTIAL TURF ESTABLISHMENT.

CONSTRUCTION EXIT



SEED MIX 25-151: RESIDENTIAL TURF
MULCH TYPE 6
PLANT APRIL 1ST - JUNE 1ST FOR SPRING PLANTING OR JULY 20TH - SEPTEMBER 20TH FOR FALL PLANTING



EROSION CONTROL BLANKET CATEGORY 15

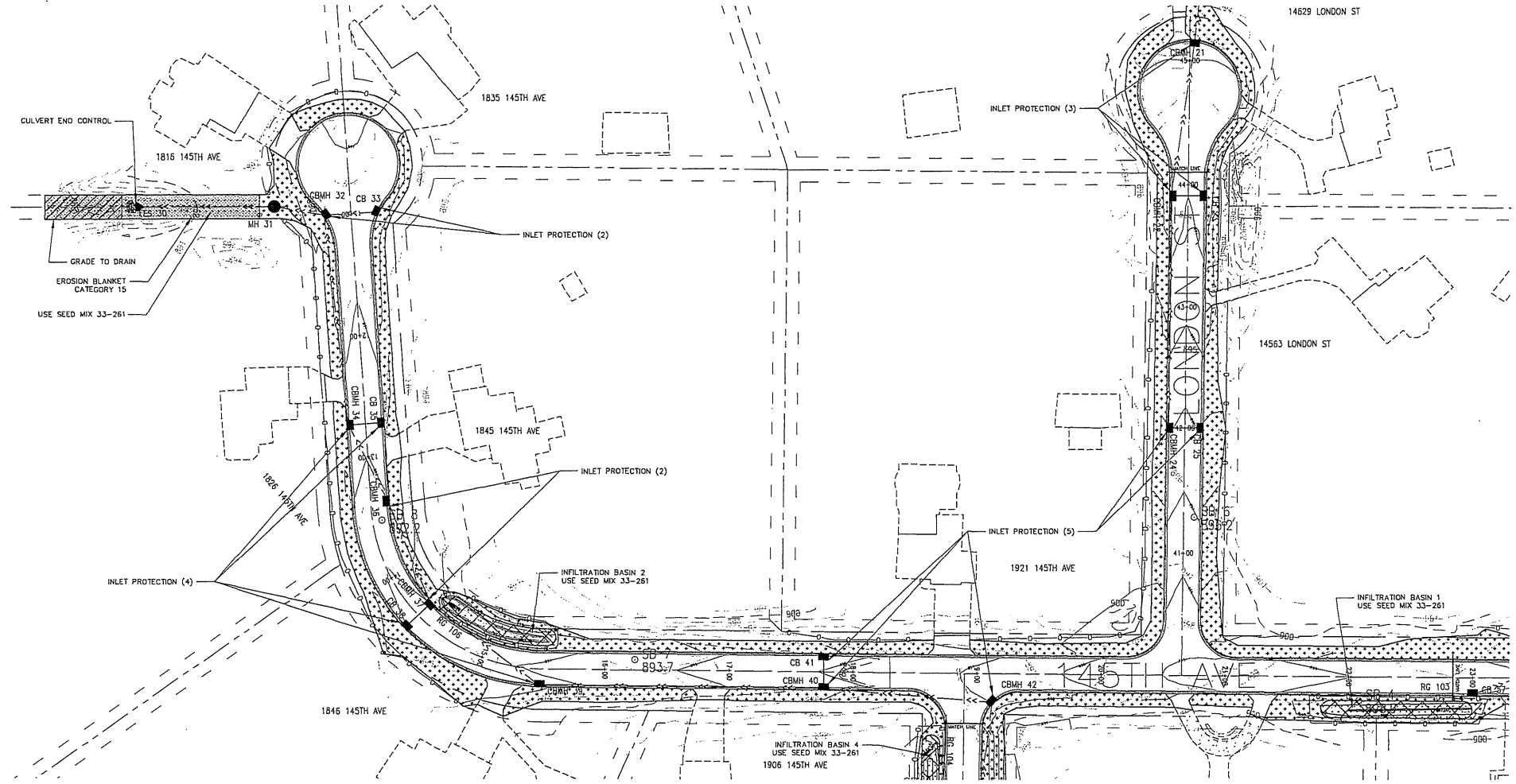
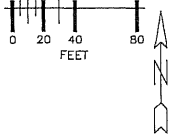


SEED MIX 33-261: PONDS & WET AREAS IN CENTRAL, SOUTHERN AND WESTERN MN
MULCH TYPE 3
PLANT APRIL 15TH - JULY 20TH FOR SPRING PLANTING OR SEPTEMBER 20TH - OCTOBER 20TH FOR FALL PLANTING



EROSION CONTROL BLANKET CATEGORY 25

SILT FENCE



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

UTILITIES:

CENTURYLINK	(763) 712-5017
CENTERPOINT ENERGY	(763) 323-2769
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 DAILY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David W. Crayton
DATE 6/3/2021 REG. NO. 48768

RFC ENGINEERING, INC.
Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
CREEK VALLEY STREET RECONSTRUCTION
145TH AVE NE, KENYON ST
146TH AVE NE AND LONDON ST
STORMWATER POLLUTION PREVENTION PLAN

DWG: 2105 SWPPP 2
DATE: 06/29/22
JOB NUMBER: 2105
SHEET: 19 OF 51
FILE: 34-2-131

DESIGN BY: LDZ DRAWN BY: LDZ CHECKED BY: DAK

NOTES:

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CONSTRUCTION EXIT



SEED MIX 25-151: RESIDENTIAL TURF
MULCH TYPE 6
PLANT APRIL 1ST - JUNE 1ST FOR SPRING PLANTING OR JULY 20TH - SEPTEMBER 20TH FOR FALL PLANTING



EROSION CONTROL BLANKET CATEGORY 15

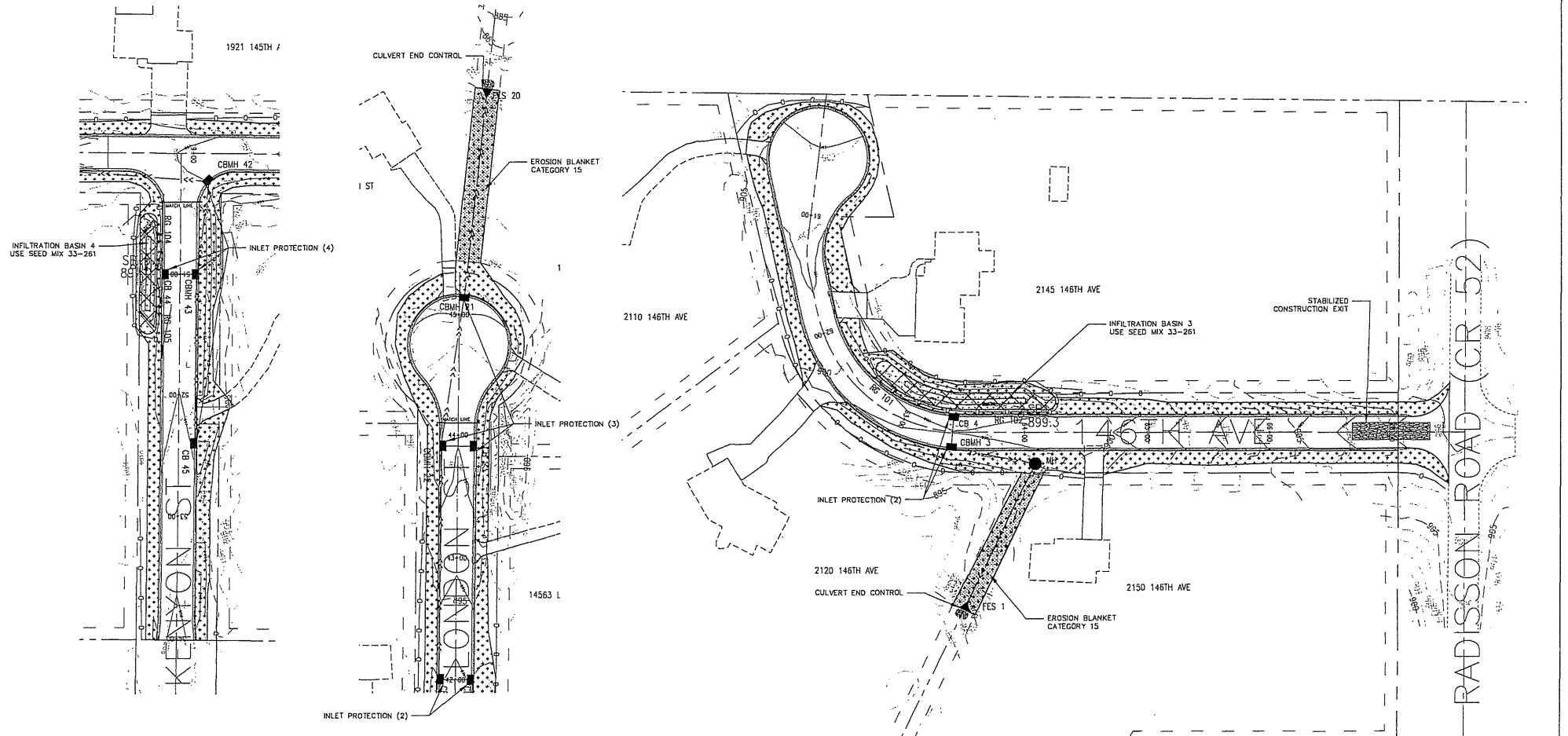
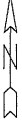
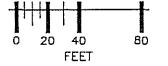


SEED MIX 33-261: PONDS & WET AREAS IN CENTRAL, SOUTHERN AND WESTERN MN
MULCH TYPE 3
PLANT APRIL 15TH - JULY 20TH FOR SPRING PLANTING OR SEPTEMBER 20TH - OCTOBER 20TH FOR FALL PLANTING



EROSION CONTROL BLANKET CATEGORY 25

SILT FENCE



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 FULLY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

David A. Kasper
DATE: 5/3/2021 REG. NO. 48768

RFC ENGINEERING, INC.
Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
CREEK VALLEY STREET RECONSTRUCTION
146TH AVE NE, KENYON ST
146TH AVE NE AND LONDON ST
STORMWATER POLLUTION PREVENTION PLAN

DWG: 2105 SWPPP 3
DATE: 05/29/22
JOB NUMBER: 2105
SHEET: 20 OF 51
FILE: 34-2-132

DESIGN BY: LOZ DRAWN BY: LOZ CHECKED BY: DAK

800-252-1166 651-454-0002

NOTES:

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CONSTRUCTION EXIT



SEED MIX 25-151: RESIDENTIAL TURF
MULCH TYPE 6
PLANT APRIL 1ST - JUNE 1ST FOR SPRING PLANTING OR JULY 20TH - SEPTEMBER 20TH FOR FALL PLANTING



SEED MIX 33-261: PONDS & WET AREAS IN CENTRAL, SOUTHERN AND WESTERN MN
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PLANT APRIL 15TH - JULY 20TH FOR SPRING PLANTING OR SEPTEMBER 20TH - OCTOBER 20TH FOR FALL PLANTING

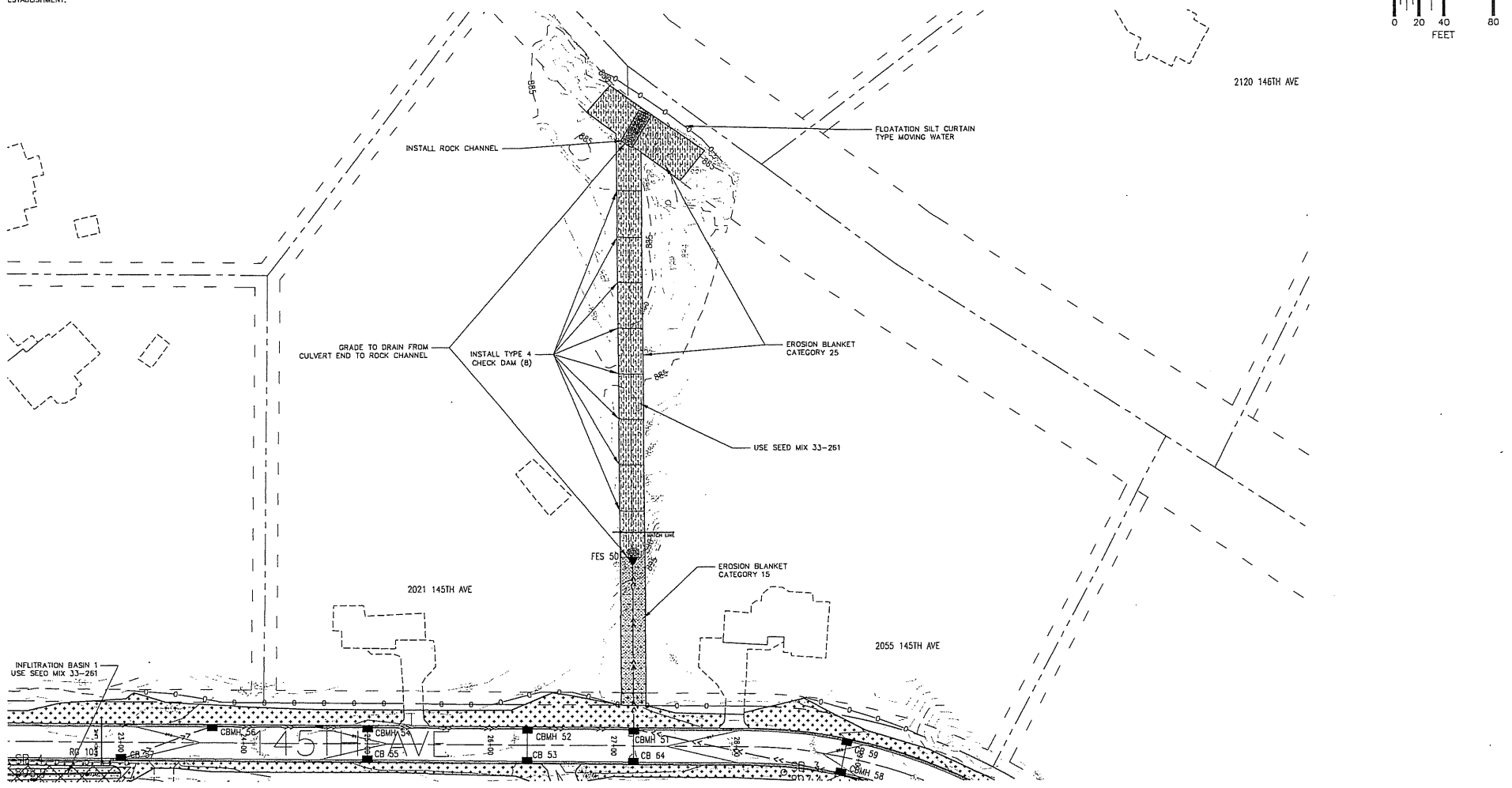
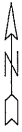
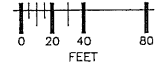


EROSION CONTROL BLANKET CATEGORY 15



EROSION CONTROL BLANKET CATEGORY 25

SILT FENCE



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

UTILITIES:
CENTURYLINK (763) 712-5017
CENTERPOINT ENERGY (763) 323-2760
COMCAST (952) 807-4079
CONNECIUS ENERGY (763) 323-4268
XCEL ENERGY (612) 526-4500

DATE	REVISION HISTORY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A ONLY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA
David Krueger
DATE 5/3/2021 REG. NO. 48268

RFC ENGINEERING, INC.
Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
CREEK VALLEY STREET RECONSTRUCTION
145TH AVE NE, KENYON ST
145TH AVE NE AND LONDON ST
STORMWATER POLLUTION PREVENTION PLAN

DWG: 2105 SWPPP 4
DATE: 06/29/22
JOB NUMBER: 2105
SHEET: 21 OF 51
FILE: 34-2-133

DESIGN BY: LDZ DRAWN BY: LDZ CHECKED BY: DAK

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

CONSTRUCTION ACTIVITY INFORMATION:

CREEK VALLEY STREET RECONSTRUCTION, HAM LAKE, ANOKA COUNTY, MINNESOTA, 55304, 45.2527° LATITUDE NORTH, 93.2355° LONGITUDE WEST (BY ONLINE TOOL).

TOTAL PROJECT DISTURBED AREA IS 5.97ACRES.

THIS IS A ROAD CONSTRUCTION PROJECT.

0.49 ACRES OF NEW IMPERVIOUS SURFACE.
0.00 ACRES OF NEW FERVIOUS SURFACE.

DRAINAGE IS TO WETLANDS LOCATED WEST AND NORTH OF THE IMPROVEMENTS WITHIN CITY EASMENT. THE WETLANDS DRAIN INTO COON CREEK. THERE ARE SPECIAL WATER OR IMPAIRED WATER WITHIN ONE MILE DOWNSTREAM OF THE PROJECT. COON CREEK IS IMPAIRED FOR E.COLI AND BIOTIC IMPAIRMENT.

CONTACT INFORMATION:

OWNERS: CITY OF HAM LAKE, OWNER CONTACT: DENISE WEBSTER CITY ADMINISTRATOR, DWEBSTER@CJHAM-LAKE.MN.US, 763-434-9555, 15544 CENTRAL AVENUE, HAM LAKE, MN, 55304

ALTERNATE OWNER CONTACT: TOM COLLINS, CITY ENGINEER, TCOLLINS@RFCENGINEERING.COM 763-862-8000.
RFC ENGINEERING INC, 13635 JOHNSON STREET NE, HAM LAKE, MN 55304

CONTRACTOR:

ALTERNATE CONTRACTOR CONTACT:

PARTY RESPONSIBLE FOR OPERATION AND MAINTENANCE OF PERMANENT STORMWATER MANAGEMENT SYSTEM: CITY OF HAM LAKE PUBLIC WORKS, JOHN WITKOWSKI, 763-235-1662, 15544 CENTRAL AVENUE, HAM LAKE, MN, 55304

GENERAL CONSTRUCTION PROJECT INFORMATION:

THE PROJECT CONSISTS OF STREET RECONSTRUCTION TO THE CREEK VALLEY DEVELOPMENT, CONCRETE CURB AND GUTTER, STORM SEWER, AND INFILTRATION BASIN CONSTRUCTION IS INCLUDED.

THE SOILS ON THE SITE ARE PRIMARILY HYDROLOGIC SOIL GROUP TYPE B WITH MODERATE INFILTRATION CAPACITY AND GROUP TYPE C WITH LOW INFILTRATION CAPACITY. THE GROUNDWATER IN THIS AREA HIGH.

GENERAL SITE INFORMATION:

ALL EROSION CONTROL MEASURES MUST BE PLACED PRIOR TO COMMENCEMENT OF LAND DISTURBING ACTIVITIES AND BE MAINTAINED UNTIL ALL DISTURBED AREAS ON THE SITE HAVE BEEN RESTORED.

CONSTRUCTION EXITS SHALL BE SURFACED WITH CRUSHED ROCK AND DESIGNATED PRIOR TO CONSTRUCTION (REFER TO DETAIL).

TRENCHES FOR STORM DRAIN PIPE AND STRUCTURES ARE TO BE BACKFILLED BY THE END OF THE WORK DAY.

NO STORMWATER MITIGATION MEASURES ARE REQUIRED AS THE RESULT OF AN ENVIRONMENTAL, ARCHAEOLOGICAL, OR OTHER REQUIRED LOCAL, STATE, OR FEDERAL REVIEW OF THE PROJECT.

THE PROJECT IS NOT LOCATED IN A KARST AREA.

THE PROJECT DOES NOT DISCHARGE TO A CALCAREOUS FEN LISTED IN MINN. R. 7050.0180, SUBP. 6B.

THE SITE DOES DISCHARGE TO A WATER THAT IS LISTED AS IMPAIRED FOR E.COLI AND BIOTIC IMPAIRMENT.

SELECTION OF A PERMANENT STORMWATER MANAGEMENT SYSTEM:

NEW IMPERVIOUS SURFACE CREATED BY THIS PROJECT IS 0.49 ACRES.

PER COON CREEK WATERSHED DISTRICT, ANOKA CONSERVATION DISTRICT, AND MINNESOTA BOARD OF WATER AND SOIL RESOURCES, THERE IS INFILTRATION ON SITE DEEMED FEASIBLE, WITH OTHERS NOT DUE TO THE HIGH GROUND WATER TABLE.

HYDROLOGIC REPORT (DRAINAGE CALCULATIONS) AND DRAINAGE MAPS (WITH DRAINAGE DIVIDES) PREPARED FOR THIS PROJECT ARE AVAILABLE IN THE CITY'S ENGINEERS OFFICE. STORM WATER RUNOFF FROM THE SITE INFILTRATES ON THE SITE AND THINE DRAINS INTO THE REGIONAL PONDS AND OVERFLOW TO WETLANDS WEST AND NORTH OF THE PROJECT. THE WETLANDS DRAIN INTO COON CREEK. THE RUNOFF FROM THE SITE WILL BE CONVEYED VIA NEW ON SITE STORM DRAINS. THE LATEST STORM DRAIN STRUCTURE JUST PRIOR TO DISCHARGE WILL BE EQUIPPED WITH A SUMP (GRIT CHAMBERS). GRIT CHAMBERS ARE BEING USED DUE TO THE HIGH GROUND WATER TABLE. THE SUMP (GRIT CHAMBERS) ARE SIZED PER COON CREEK WATERSHED DISTRICT REQUIREMENTS.

EROSION PREVENTION PRACTICES:

THERE ARE NO CONSTRUCTION PHASING, VEGETATIVE BUFFER STRIPS, LONG HORIZONTAL SLOPE GRADING FOR THE PROJECT. THERE ARE UNDISTURBED AREAS WITHIN THE PROJECT LIMITS.

ALL DISTURBED AREAS SHALL BE RESTORED WITH SOD, SEED, WOOD FIBER BLANKET, OR PAVED SURFACE WITHIN SEVEN (7) DAYS OF ROUGH GRADING.

ALL EXPOSED SOIL AREAS MUST HAVE TEMPORARY EROSION PROTECTION OR PERMANENT COVER WITHIN SEVEN (7) DAYS AFTER THE AREA IS NOT ACTIVELY BEING WORKED.

FERTILIZER: MHDOT SPECIFICATION 38B1, TYPE 2 SEEDING; MHDOT SEED MIXTURE 25-131 OR 33-261 (7) DAYS AFTER, HYDROMULCH: MHDOT SPECIFICATION 38B4 TYPE 1 OR 3 WITH APPLICATION RATE PER MHDOT SPECIFICATION 2575.3.H.

PROVIDE EROSION CONTROL FABRIC FOR ALL SLOPES STEEPER THAN 1:3.

THERE ARE NO DRAINAGE DITCHES CONSTRUCTED WITH THIS PROJECT.

SEDIMENT CONTROL PRACTICES:

THERE ARE NO DRAINAGE DITCHES OR SEDIMENT BASINS FOR THIS PROJECT.

THERE ARE NO SLOPES WITH A GRADE OF 1:3 OR STEEPER WITH A SLOPE LENGTH GREATER THAN 75 FEET.

THERE ARE DRAINAGE INFILTRATION BASINS FOR THIS PROJECT.

ALL SEDIMENT CONTROL DEVICES ARE TO BE IN PLACE PRIOR TO UPSTREAM LAND DISTURBING ACTIVITIES.

WITHIN 24 HOURS OF CONNECTION TO A SURFACE WATER, PIPE OUTLETS MUST CONTAIN RIPRAP, SEED AND PLACE EROSION CONTROL BLANKETS ON DISTURBED AREAS WITHIN 200 LINEAL FEET OF PIPE OUTLETS INCLUDING THE DOWN SLOPE TO THE PIPE OUTLET. SILT FENCING TO BE PLACED AROUND THE DISTURBED AREA AND SILT FENCE ROUTED ACROSS THE TOP OF THE OULLET.

WITHIN 24 HOURS OF CONNECTION TO A SURFACE WATER, SEED AND PLACE EROSION CONTROL BLANKETS ON DISTURBED AREAS WITHIN 200 FEET OF PIPE INLET INCLUDING THE DOWN SLOPE TO THE PIPE INLET. SILT FENCING TO BE PLACED AROUND THE DISTURBED AREA. PLACE A SECOND SILT FENCE ROUTED ACROSS THE TOP OF THE INLET AND PLACE INLET PROTECTION. PIPE INLET PROTECTION SHALL BE PER BMPs SUCH AS SILT FENCE OR STRAW BALES STAKED AROUND THE APRON OPENING OR OTHER APPROVED EQUIVALENT.

WITHIN 24 HOURS OF CONNECTION TO A SURFACE WATER, SEED AND PLACE EROSION CONTROL BLANKETS ON DISTURBED AREAS WITHIN 200 FEET OF CATCH BASIN INLET. PLACE INLET PROTECTION IMMEDIATELY AFTER STRUCTURE IS BACKFILLED. CATCH BASIN INLET PROTECTION SHALL BE PER BMPs SUCH AS CLEAR ROCK AROUND STEEL PLATE OVER FABRIC OR OTHER APPROVED EQUIVALENT UNTIL THE CATCH BASIN CASTING IS PLACED. IMMEDIATELY AFTER THE CASTING IS PLACED, PROVIDE CATCH BASIN INLET PROTECTION PER BMPs SUCH AS FILTER BAG INSERT OR OTHER APPROVED EQUIVALENT. NO CAPTURED SEDIMENT SHOULD BE ALLOWED TO DROP INTO THE CATCH BASIN.

PROVIDE SILT FENCE DOWNSTREAM OF STOCKPILE AREAS. STOCKPILES ARE NOT TO BLOCK DRAINAGE CONVEYANCE SYSTEMS. SEDIMENT TRACKED OFFSITE SHALL BE MINIMIZED AND SWEEPED ON A DAILY BASIS.

TEMPORARY SEDIMENTATION BASINS ARE NOT BEING USED TO REDUCE WETLAND IMPACTS, DUE TO THE HIGH GROUND WATER TABLE AND THE LACK OF RIGHT OF WAY.

DEWATERING AND BASIN DRAINING:

ALL DEWATERING IS TO DISCHARGE TO SEDIMENT SACKS, ROCK WEEPER, BIO ROLL AREA, ETC. TO PREVENT EROSION AND MINIMIZE SEDIMENT DISCHARGING FROM THE SITE. EXCESSIVE SEDIMENT-LADEN WATER WILL NOT BE PERMITTED TO DISCHARGE FROM THE SITE. DEWATERING PRACTICES ARE NOT TO CAUSE DOWNSTREAM NUISANCE CONDITIONS, EROSION, OR NON-PERMITTED WETLAND INUNDATION CAUSING ADVERSE IMPACTS. DISCHARGE FROM DEWATERING WILL BE TO WETLANDS. LARGE VOLUMES OF DEWATERING WILL REQUIRE DISCHARGE INTO SEDIMENT SACKS PRIOR TO DISCHARGING INTO THE WETLANDS.

ADDITIONAL BMPs FOR SPECIAL WATERS AND DISCHARGES TO WETLANDS:

THE PROJECT DOES DISCHARGE INTO OR WITHIN 1 MILE OF SPECIAL WATERS.

THERE ARE NO BUFFER ZONES OR UNDISTURBED AREA ZONES.

THE STORM DRAIN SYSTEM WAS SET UP TO DISTRIBUTE THE STORMWATER RUNOFF INTO THE PROJECT WETLANDS AS CLOSE TO EXISTING CONDITIONS AS POSSIBLE. THIS INCLUDED PROVIDING STORM DRAIN ON BOTH SIDES OF THE STREET IN ORDER TO ACHIEVE THIS. THE DRAINAGE WAS APPROVED BY COON CREEK WATERSHED DISTRICT.

THERE IS NO CONVERSION OF WETLANDS INTO STORMWATER PONDS.

INSPECTION AND MAINTENANCE:

THE CONTRACTOR SHALL PLACE A RAIN GAUGE ON THE PROJECT SITE AT A LOCATION APPROVED BY THE ENGINEER. RAINFALL DATA SHALL BE KEPT WITH THE SWPPP RECORDS.

THE CONTRACTOR MUST INSPECT THE CONSTRUCTION SITE ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. INSPECTIONS AND MAINTENANCE TO BE RECORDED IN WRITING. THE SWPPP INSPECTION FOR THE CONSTRUCTION IS TO BE CONDUCTED BY _____

INSPECTIONS FORMS ARE AVAILABLE AT:

<http://www.pcca.state.mn.us/index.php/water/water-bmp-and-practices/alternatives/construction-stormwater/construction-stormwater.html>
THE ACTUAL FORM IS UNDER INSPECTION CHECKLIST.

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT DEVICES, AS WELL AS ALL EROSION AND SEDIMENT CONTROL, FOR THE DURATION OF THE PROJECT.

THE CONTRACTOR WILL INVESTIGATE AND COMPLY WITH THE FOLLOWING:

SILT FENCE WILL BE REPAIRED, REPLACED, OR SUPPLEMENTED WHEN IT BECOMES NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE FENCE HEIGHT. THE CORRECTIONS MUST BE MADE WITHIN 24 HOURS OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.

SEDIMENT WILL BE REMOVED FROM SEDIMENTATION BASIN WHEN IT REACHES A DEPTH OF TWO FEET OR ONE-HALF OF THE STORAGE VOLUME, WHICHEVER IS LESS, WITHIN 72-HOURS OF DISCOVERY.

SEDIMENT DEPOSITED IN SURFACE WATERS WILL BE REMOVED WITHIN SEVEN (7) DAYS OF DISCOVERY. RESTABILIZING THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL WILL BE COMPLETED WITHIN THE SAME SEVEN (7) DAY TIME FRAME.

CONSTRUCTION SITE VEHICLE EXIT LOCATIONS WILL BE INSPECTED FOR OFFSITE SEDIMENT TRACKING ONTO PAVED SURFACES. TRACKED SEDIMENT WILL BE REMOVED FROM THE PAVED SURFACE WITHIN 24 HOURS OF DISCOVERY.

OFFSITE ACCUMULATIONS OF SEDIMENT WILL BE REMOVED IN A TIMELY MANNER AND AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS.

POLLUTION PREVENTION MANAGEMENT MEASURES:

THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING POLLUTION PREVENTION MANAGEMENT MEASURES ON THE SITE:

SOLID WASTE: COLLECT SEDIMENT, ASPHALT AND CONCRETE MILLINGS, FLOATING DEBRIS, PAPER, PLASTIC, FABRIC, CONSTRUCTION AND DEMOLITION DEBRIS, AND OTHER WASTES MUST BE DISPOSED OF PROPERLY OFFSITE AND MUST COMPLY WITH MPCA DISPOSAL REQUIREMENTS.

HAZARDOUS MATERIALS: OIL, GASOLINE, PAINT AND ANY HAZARDOUS SUBSTANCES MUST BE PROPERLY STORED, INCLUDING SECONDARY CONTAINMENT, TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. RESTRICTED ACCESS TO STORAGE AREAS MUST BE PROVIDED TO PREVENT VANDALISM. STORAGE AND DISPOSAL OF HAZARDOUS WASTE MUST BE IN COMPLIANCE WITH MPCA REGULATIONS.

EXTERNAL WASHING OF TRUCKS, INCLUDING CONCRETE DELIVERY TRUCKS, AND OTHER CONSTRUCTION VEHICLES MUST BE LIMITED TO A DEFINED AREA OF THE SITE. RUNOFF MUST BE CONTAINED AND WASTE PROPERLY DISPOSED OF. NO ENGINE DEGRASSING IS ALLOWED ON SITE. CONCRETE WASHOUT ON SITE MUST BE CONTAINED IN A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER.

THE CITY IS RESPONSIBLE FOR LONG TERM MAINTENANCE OF THE STORM DRAIN INCLUDING THE SUMPS (GRIT CHAMBERS). THE GRIT CHAMBERS ARE TO BE INSPECTED YEARLY AND CLEANED OUT AS NECESSARY TO MAINTAIN FUNCTION.

THE CONTRACTOR IS RESPONSIBLE FOR MONITORING AIR POLLUTION AND ENSURING IT DOES NOT EXCEED LEVELS SET BY LOCAL, STATE, OR FEDERAL REGULATIONS. THIS INCLUDES DUST CREATED BY WORK BEING PERFORMED ON THE SITE. AIR POLLUTION AND DUST CONTROL CORRECTION ARE CONSIDERED INCIDENTAL TO THE UNIT BID PRICES FOR WHICH WORK IS BEING PERFORMED. ADDITIONAL DUST CONTROL MEASURES MAY BE REQUIRED BY THE ENGINEER.

NO SANITARY AND SEPTIC WASTE IS ON THE SITE.

FINAL STABILIZATION:

THE CONTRACTOR MUST ENSURE FINAL STABILIZATION OF THE SITE. FINAL STABILIZATION IS ACHIEVED WHEN ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND ALL SOILS ARE STABILIZED BY A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70 PERCENT OF THE PVIOUS SURFACE AREA, OR OTHER EQUIVALENT MEANS NECESSARY TO PREVENT SOIL FAILURE UNDER EROSION CONDITIONS.

ALL TEMPORARY EROSION PROTECTION, INCLUDING SILT FENCE, ARE TO BE REMOVED AFTER FINAL STABILIZATION OF THE SITE.

RECORDS RETENTION:

ALL REQUIREMENTS OF THE NPDES PERMIT AND THIS SWPPP SHALL REMAIN IN EFFECT UNTIL ALL LAND DISTURBING ACTIVITY

HAS BEEN COMPLETED, ALL FINAL RESTORATION HAS BEEN COMPLETED AND THE NOTICE OF TERMINATION FORM HAS BEEN SUBMITTED TO THE MINNESOTA POLLUTION CONTROL AGENCY (MPCA).

REFER TO OTHER SHEETS OF THIS PLAN SET FOR DETAILED CONSTRUCTION INFORMATION. EXISTING AND PROPOSED GRADES FOR THE ROADWAY ARE SHOWN ON THE PLAN AND PROFILE SHEETS AND ON THE CROSS SECTION SHEETS.

THE CONTRACTOR SHALL MAINTAIN A COPY OF THE PLANS ONSITE AT ALL TIMES UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY. THE CONTRACTOR SHALL UPDATE THE SWPPP AS NECESSARY TO REFLECT CURRENT CONDITIONS ON THE SITE. CONTRACTOR IS TO PROVIDE THE ENGINEER A COPY OF THE REVISED SWPPP. THE REVISED SWPPP IS TO BE MAINTAINED WITH THE CONSTRUCTION SET OF PLANS.

THE CONSTRUCTION PLANS, INCLUDING THE SWPPP, AND THE SWPPP INSPECTION REPORTS ARE TO BE AVAILABLE TO THE ENGINEER AND TO THE MPCA AND COON CREEK WATERSHED DISTRICT INSPECTORS AT ALL TIMES.

THE CONTRACTOR IS TO PROVIDE THE ENGINEER A COPY OF THE SWPPP INSPECTION REPORTS WITHIN SEVEN (7) DAYS AFTER THE INSPECTION.

THE CONTRACTOR IS TO PROVIDE THE ENGINEER A COPY OF THE REVISED SWPPP WITHIN SEVEN (7) DAYS AFTER THE CONTRACTOR REVISES THE SWPPP.

ALL SWPPP INSPECTIONS AND ALL BMPs SHALL BE PLACED UNDER THE SUPERVISION OF A CONSTRUCTION INSTALLER CERTIFIED BY THE MPCA. THE CONSTRUCTION SITE SHALL BE MANAGED AND MAINTAINED BY A MPCA CERTIFIED CONSTRUCTION SITE MANAGEMENT.

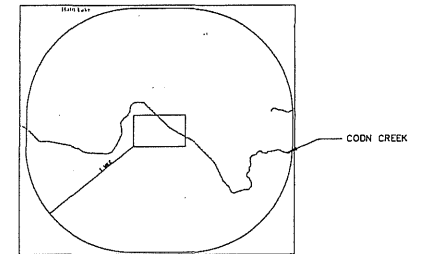
THE CONTRACTOR SHALL PROVIDE THE CITY WITH A COPY OF CONSTRUCTION INSTALLER CERTIFICATION AND CONSTRUCTION SITE MANAGEMENT CERTIFICATION. A COPY OF THE CERTIFICATIONS, INCLUDING SWPPP DESIGNER, SHALL BE KEPT WITH THE SWPPP.

THE SWPPP, THE SWPPP INSPECTIONS REPORTS AND MAINTENANCE RECORDS SHALL BE KEPT FOR 3 YEARS.

DRAINAGE CALCULATIONS AND DRAINAGE MAPS WILL BE KEPT BY THE CITY FOR AT LEAST 3 YEARS.

SEQUENCE OF EROSION CONTROL

- OBTAIN ALL NECESSARY PERMITS, INCLUDING NPDES GENERAL STORMWATER PERMIT.
- PLACE ALL PERIMETER SEDIMENT CONTROL DEVICES, TEMPORARY SEDIMENTATION BASINS, SILT FLOTATION CURTAINS, AND ROCK CONSTRUCTION EXITS.
- CONTACT CITY ENGINEER FOR APPROVAL OF SEDIMENT CONTROL DEVICES.
- ROUGH IN GRADE.
- CONTACT COON CREEK WATERSHED DISTRICT TO PROVIDE DOUBLE RING INFILTRMETER TEST REQUIRED FOR INFILTRATION BASINS OR BY FILLING THE BASIN TO A MINIMUM DEPTH OF 6 INCHES OF WATER AND MONITOR THE TIME NECESSARY TO DRAIN OR OTHER APPROVED METHOD.
- PLACE TEMPORARY EROSION CONTROL DEVICES AS NECESSARY.
- RE-ADJUST TEMPORARY EROSION CONTROL DEVICES AS NECESSARY. PLACE STORM DRAIN INLET PROTECTION AND OUTLET PROTECTION DEVICES AS NECESSARY.
- PLACE SITE PAVEMENT.
- AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, OBTAIN APPROVAL OF CITY ENGINEER.
- CONTRACTOR TO REMOVE ALL TEMPORARY EROSION CONTROL DEVICES AFTER ACCEPTANCE BY THE CITY.



TABULATION SUMMARY		
ITEM	UNIT	TOTAL
SILT FENCE	LF.	4643
EROSION CONTROL BLANKET CATEGORY 15	S.Y.	1223
EROSION CONTROL BLANKET CATEGORY 25	S.Y.	1030
TYPE 4 CHECK DAM	LF	160
FES/PIPE OULET PROTECTION	EACH	4
CATCH BASIN INLET PROTECTION	EACH	35
CLASS II RIPRAP W/ FABRIC	C.Y.	43.8
GEOTEXTILE FILTER FABRIC	S.Y.	53.1
HYDROMULCH TYPE B	ACRE	2.21
TURF ESTABLISHMENT: SEED MIX 25-151	ACRE	2.22
TURF ESTABLISHMENT: SEED MIX 33-261	ACRE	0.49



800-252-1166 651-454-0002
PRINT DATE: 6/20/2021 09:49

UTILITIES:	CONTACT NUMBER
CENTURLINK ENERGY	(763) 712-5017
CENTURPOINT ENERGY	(763) 323-2760
COMCAST	(952) 607-4078
COMDEX ENERGY	(763) 223-4268
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 DAILY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA
David Kuepfer
DATE 6/23/2021 REC. NO. 48768

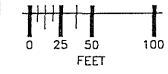
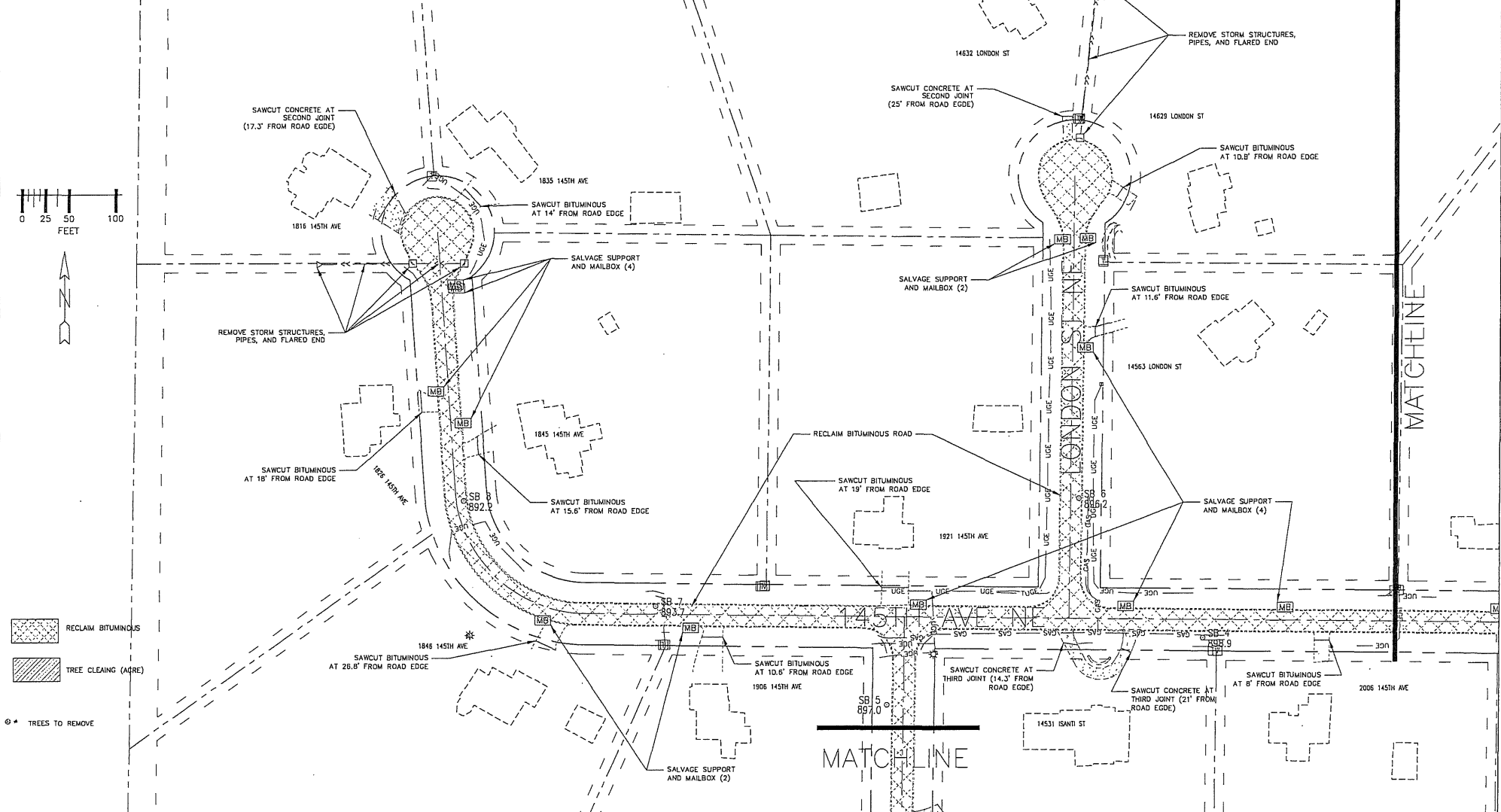
RFC ENGINEERING, INC.
Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
CREEK VALLEY STREET RECONSTRUCTION
145TH AVE NE, KENYON ST
146TH AVE NE AND LONDON ST
STORMWATER POLLUTION PREVENTION PLAN

DWG: 2105 SWPPP 5
DATE: 06/29/22
JOB NUMBER: 2105
SHEET: 22 OF 51

- NOTES:
1. ALL DISTURBED AREAS TO BE SEEDED, MULCHED AND FERTILIZED WITHIN 7 DAYS OF ROUGH GRADING.
 2. ALL LOCATIONS OF STOCKPILES SHALL BE SUBMITTED FOR THE CITY ENGINEERS APPROVAL PRIOR TO STOCKPILING. ALL EROSION CONTROL FOR STOCKPILES SHALL BE PER BMP'S AND SWPPP.
 3. ALL SILT FENCE MUST BE IN PLACE BEFORE ANY LAND IS DISTURBED.
 4. EXISTING BITUMINOUS IS APPROXIMATELY 4" WITH 4" CLASS 5.



- RECLAIM BITUMINOUS
- TREE CLEARING (AGRE)
- TREES TO REMOVE

GO PHER STATE ONE CALL
800-252-1166 651-454-0002

UTILITIES:
CENTURYLINK (763) 712-5017
CENTERPOINT ENERGY (763) 323-2760
COMCAST (952) 607-4078
CONDENSUS ENERGY (763) 323-4708
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 REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Donna Krogstad
DATE 8/31/2021 REG. NO. 48758

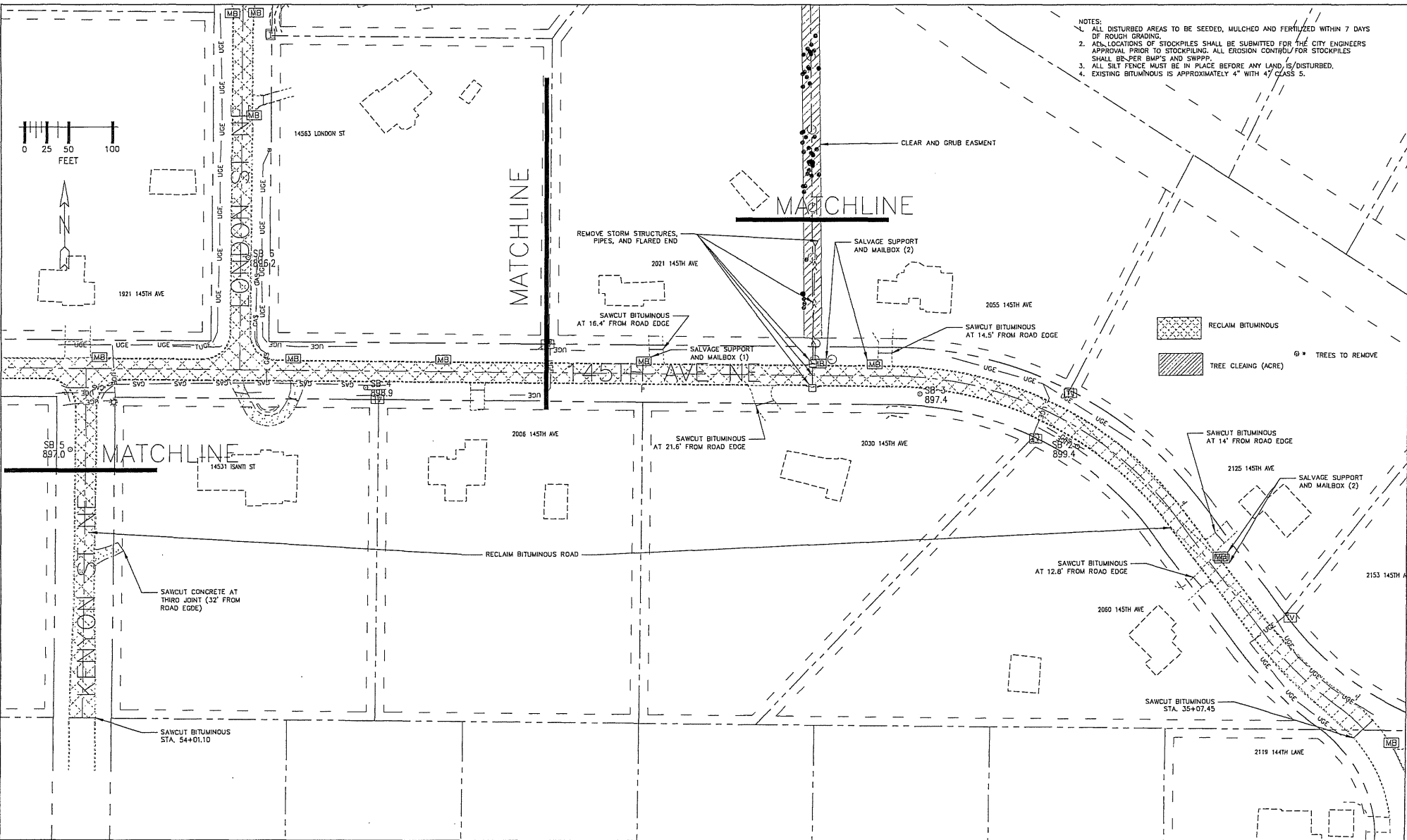
RFC ENGINEERING, INC.
Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
CREEK VALLEY STREET RECONSTRUCTION
145TH AVE NE, KENYON ST
145TH AVE NE AND LONDON ST
REMOVAL PLAN
WEST HALF OF 145TH AVE & LONDON STREET

DWG: 2105 REMOVAL 1
DATE: 05/29/22
JOB NUMBER: 2105
SHEET: 23 OF 51
FILE: 34-2-135

DESIGN BY: LDZ DRAWN BY: LDZ CHECKED BY: DAK



- NOTES:
1. ALL DISTURBED AREAS TO BE SEEDED, MULCHED AND FERTILIZED WITHIN 7 DAYS OF ROUGH GRADING.
 2. ALL LOCATIONS OF STOCKPILES SHALL BE SUBMITTED FOR THE CITY ENGINEERS APPROVAL PRIOR TO STOCKPILING. ALL EROSION CONTROL FOR STOCKPILES SHALL BE PER BUMPS AND SWPPP.
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 4. EXISTING BITUMINOUS IS APPROXIMATELY 4" WITH 4" CLASS 5.

- RECLAIM BITUMINOUS
- TREE CLEARING (ACRE)
- * TREES TO REMOVE

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

UTILITIES:
 CENTURYLINK (763) 712-5017
 CENTERPOINT ENERGY (763) 323-2760
 COMCAST (952) 607-4078
 CONEDUIS ENERGY (763) 323-4268
 XCEL ENERGY (612) 526-4008

DATE	REVISION HISTORY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David Thompson
 DATE 5/3/2021 REG. NO. 48768

RFC ENGINEERING, INC.
 Consulting Engineers

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


HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE AND LONDON ST
 146TH AVE NE AND LONDON ST
 REMOVAL PLAN
 EAST HALF OF 145TH AVE & KENYON STREET

DWG: 2105 REMOVAL 2
 DATE: 05/29/22
 JOB NUMBER: 2105
 SHEET: 24 OF 51
 FILE: 34-2-136

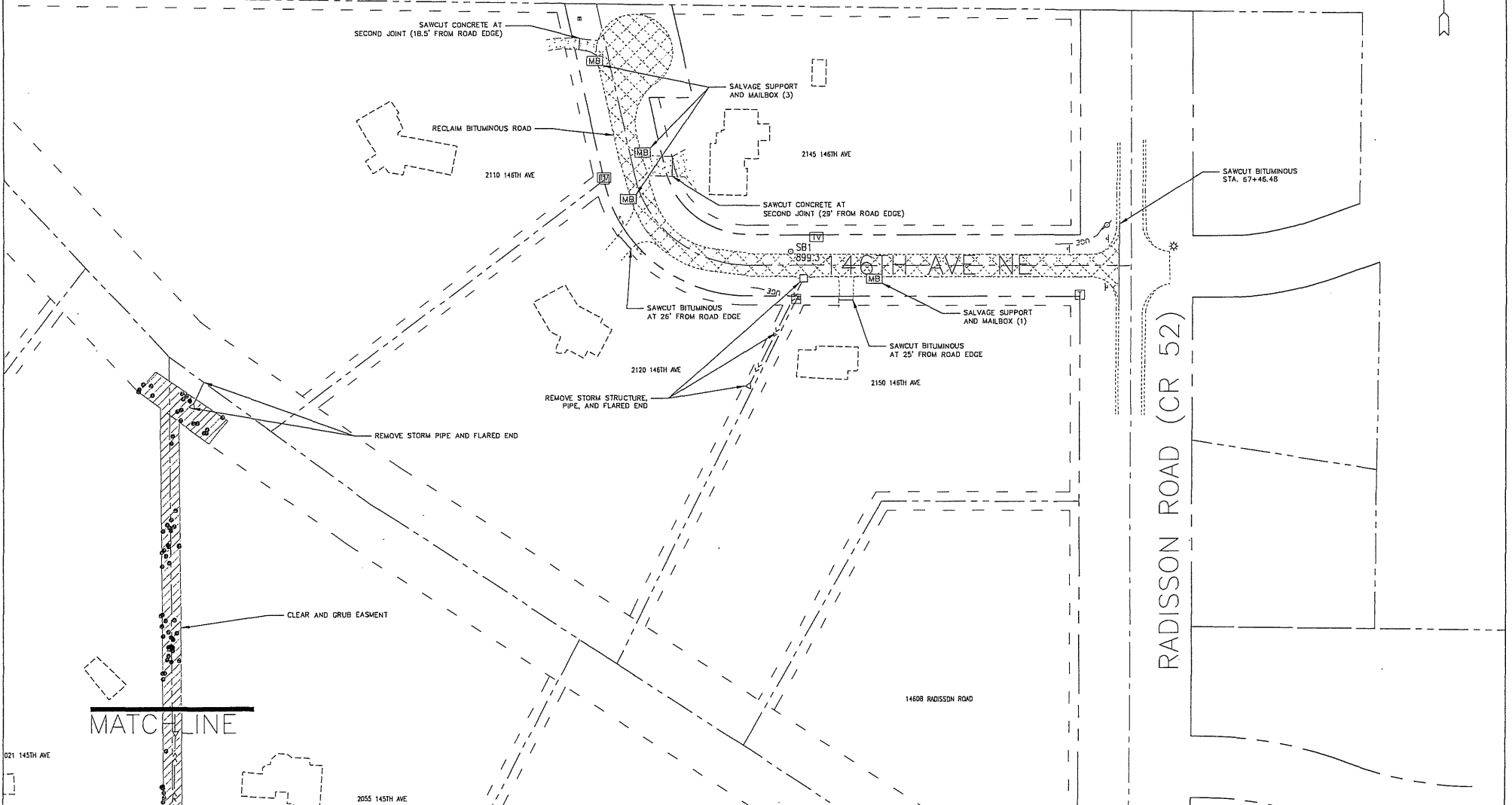
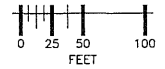
DESIGN BY: LOZ DRAWN BY: LOZ CHECKED BY: DAK

- NOTES:
1. ALL DISTURBED AREAS TO BE SEEDED, MULCHED AND FERTILIZED WITHIN 7 DAYS OF ROUGH GRADING.
 2. ALL LOCATIONS OF STOCKPILES SHALL BE SUBMITTED FOR THE CITY ENGINEERS APPROVAL PRIOR TO STOCKPILING. ALL EROSION CONTROL FOR STOCKPILES SHALL BE PER BMP'S AND SWPPP.
 3. ALL SILT FENCE MUST BE IN PLACE BEFORE ANY LAND IS DISTURBED.
 4. EXISTING BITUMINOUS IS APPROXIMATELY 4" WITH 4" CLASS 5.

 RECLAIM BITUMINOUS

 TREES TO REMOVE

 TREE CLEARING (ACRE)



021 145TH AVE

2055 145TH AVE

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

UTILITIES:
CENTURYLINK (763) 712-5017
CENTERPOINT ENERGY (763) 323-2760
COMCAST (952) 607-4078
CONDEXUS ENERGY (763) 323-4358
XCEL ENERGY (612) 528-4508

DATE	REVISION HISTORY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Don Thompson
DATE 6/3/2021 REG. NO. 48268

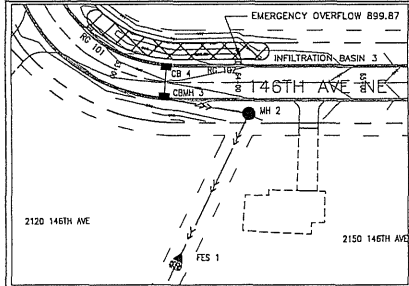
RFC ENGINEERING, INC.
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13635 Johnson Street
Horn Lake, MN 55304
Telephone 763-862-8000
Fax 763-862-8042

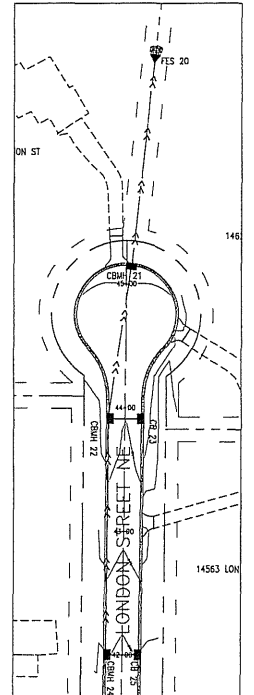
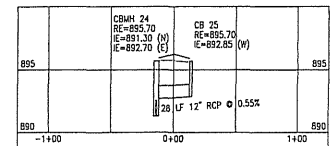
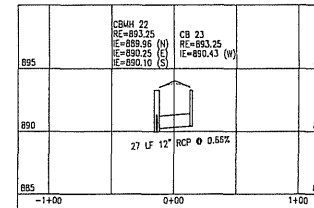
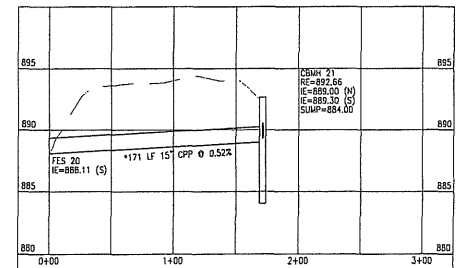
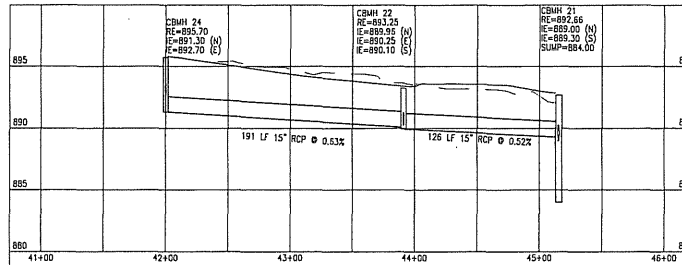
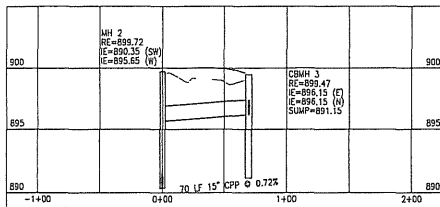
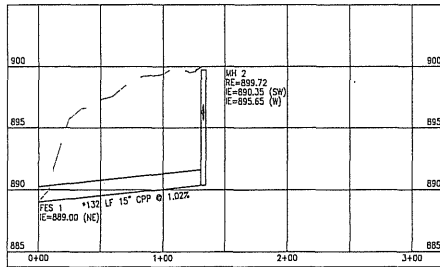
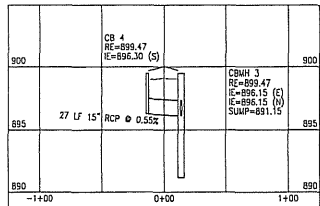
HAM LAKE IMPROVEMENT PROJECT 2105
CREEK VALLEY STREET RECONSTRUCTION
145TH AVE NE, KENYON ST
146TH AVE NE AND LONDON ST
REMOVAL PLAN
145TH AVE

DWG: 2105 REMOVAL 3
DATE: 05/29/22
JOB NUMBER: 2105
SHEET: 25 OF 51
FILE: 34-2-137

DESIGN BY: LDZ DRAWN BY: LDZ CHECKED BY: DAK

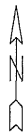
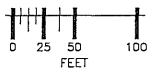


STORM DRAIN																	
STRUCTURE	STATION	LOCATION	SIZE OF STRUCTURE	DESIGN	TOP OF CASTING OR INLET	INVERT	CASTING ASSEMBLY (NEENAH, EJ, DL)*	TYPE GRATE (NEENAH CASTINGS)	12"	15"	15"	PIPE APRON	TRASH GUARD	APRON	FLOWS TO	INLET	% GRADE
									R.C.P. LIN FT	R.C.P. LIN FT	C.P.P. LIN FT						
RG 101	62+50	LT.	5' x 2.5'	BUNKER	890.08	899.08											
RG 102	64+00	LT.	5' x 2.5'	BUNKER	899.87	898.87											
CB 4	63+40.9	LT.	2' x 3'	RFC-459B	899.47	896.3	R-3246	c		27				CBMH 3	896.15	0.55	
CBMH 3	63+41.1	RT.	60" ø	RFC-465A3	899.47	896.15	R-3246	c			70			MH 2	895.65	0.72	
MH 2	64+08.6	RT.	48" ø	RFC-465A1	899.72	890.35	R-1733	-			130	2.2	1	FES 1	888.00	1.02	
CB 25	42+00	RT.	2' x 3'	RFC-459B	895.7	892.65	R-3246	L						CBMH 24	892.70	0.55	
CBMH 24	42+00	LT.	48" ø	RFC-465A1	895.7	891.3	R-3246	L		28				CBMH 22	890.10	0.63	
CB 23	43+90.9	RT.	2' x 3'	RFC-459B	893.25	890.43	R-3246	L		181				CBMH 22	890.25	0.66	
CBMH 22	43+90.9	LT.	48" ø	RFC-465A1	893.25	889.96	R-3246	L		27				CBMH 21	889.30	0.52	
CBMH 21	45+15.5	RT.	60" ø	RFC-465A3	892.66	889	R-3246	c			169	2.2	1	FES 20	888.11	0.52	
TOTALS									55	344	369	4.4	2				



NOTES:

1. ALL DISTURBED AREAS TO BE SEEDED, MULCHED AND FERTILIZED WITHIN 7 DAYS OF ROUGH GRADING.
2. THERE SHALL BE NO STOCKPILES INCLUDING TEMPORARY STOCK PILES OF MATERIALS IN WETLAND AREAS.
3. ALL SILT FENCE MUST BE IN PLACE BEFORE ANY LAND IS DISTURBED.
4. ALL REMOVALS TO BE DISPOSED OF LEGALLY.
5. * PIPE LENGTH INCLUDES APRON.



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

UTILITIES: CENTURYLINK (763) 712-5017
CENTERPOINT ENERGY (763) 323-2760
CONCAST (952) 607-4078
CONDUIS ENERGY (763) 323-4908
XCEL ENERGY (612) 526-4508

DATE: 6/13/2021 REC. NO. 48768

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

David Krueger

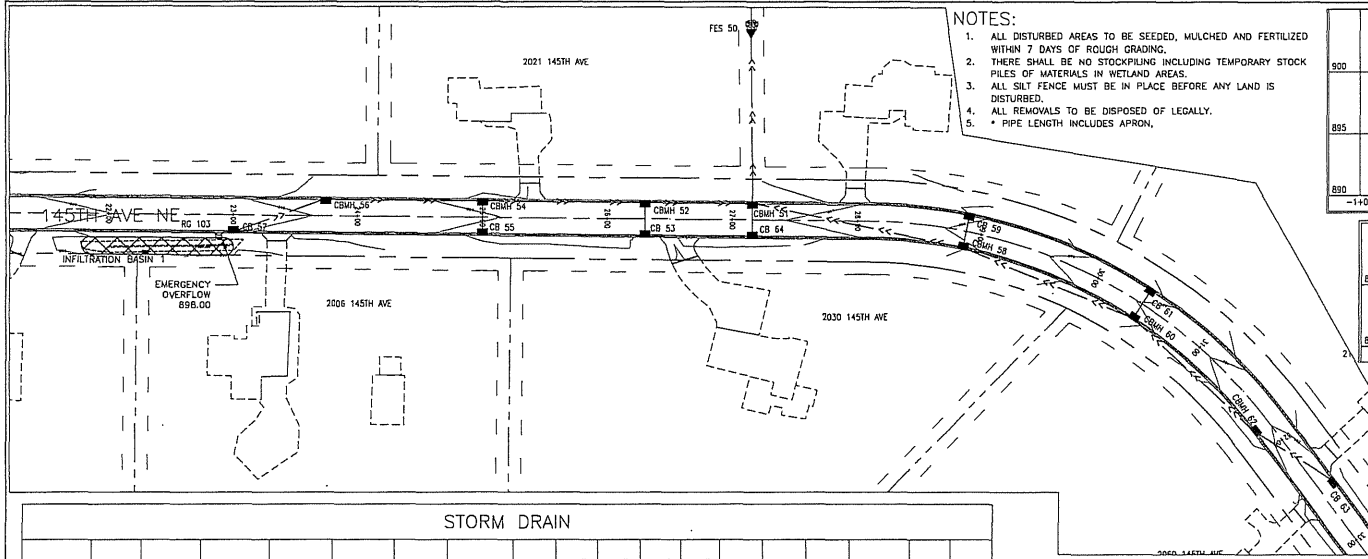
RFC ENGINEERING, INC.
Consulting Engineers

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

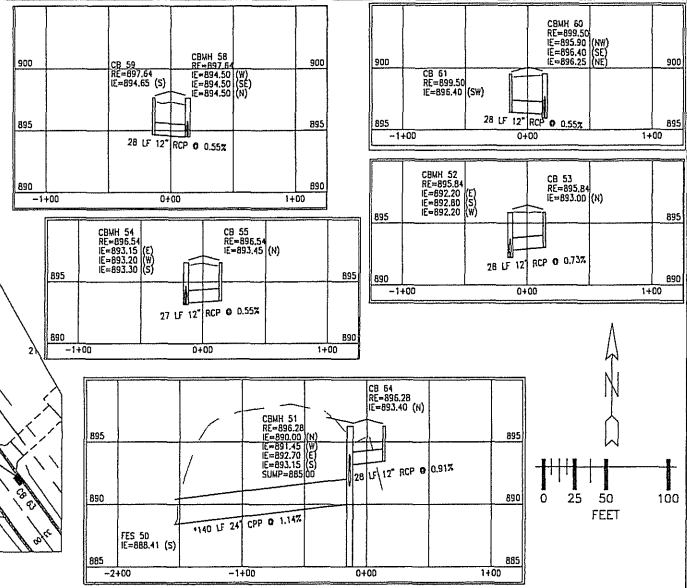
HAM LAKE IMPROVEMENT PROJECT 2105
CREEK VALLEY STREET RECONSTRUCTION
146TH AVE NE AND KENYON ST
146TH AVE NE AND LONDON ST
STORM DETAILS
146TH AVENUE NE & LONDON STREET NE

DWG: 2105 STORM 1
DATE: 06/29/22
JOB NUMBER: 2105
SHEET: 26 OF 51
FILE: 34-2-138

DESIGN BY: LDZ DRAWN BY: LDZ CHECKED BY: DAK

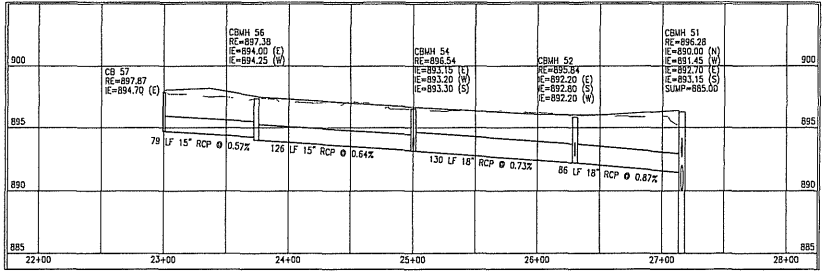
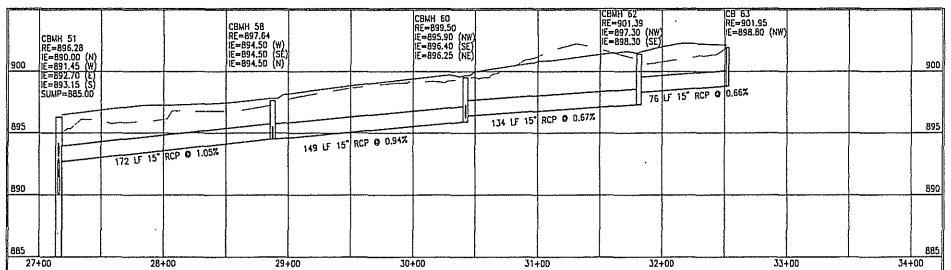


- NOTES:**
1. ALL DISTURBED AREAS TO BE SEEDED, MULCHED AND FERTILIZED WITHIN 7 DAYS OF ROUGH GRADING.
 2. THERE SHALL BE NO STOCKPILES INCLUDING TEMPORARY STOCK PILES OF MATERIALS IN WETLAND AREAS.
 3. ALL SILT FENCE MUST BE IN PLACE BEFORE ANY LAND IS DISTURBED.
 4. ALL REMOVALS TO BE DISPOSED OF LEGALLY.
 5. * PIPE LENGTH INCLUDES APRON.



STORM DRAIN

STRUCTURE	STATION	LOCATION	SIZE OF STRUCTURE	DESIGN	TOP OF CASTING OR INLET	INVERT	CASTING ASSEMBLY (NEENAH, EJ, DL)*	TYPE GRATE (ONEINCH CASTINGS)	12" R.C.P.				PIPE APRON	TRASH GUARD	APRON	FLOWS TO	INLET	% GRADE
									12" LIN FT	15" LIN FT	18" LIN FT	24" C.P.P. LIN FT						
CB 57	23+00	RT.	2' x 3'	RFC-459B	897.87	894.7	R-3246	L							CBMH 56	894.25	0.57	
CBMH 56	23+74.1	LT.	48" ø	RFC-465A1	897.36	894	R-3246	L		79					CBMH 54	893.20	0.64	
CB 55	25+00	RT.	2' x 3'	RFC-459B	896.54	893.45	R-3246	L		27					CBMH 54	893.30	0.55	
CBMH 54	25+00	LT.	48" ø	RFC-465A1	896.54	893.15	R-3246	L			130				CBMH 52	892.20	0.73	
CB 53	26+30	RT.	2' x 3'	RFC-459B	895.84	893	R-3246	C		28					CBMH 52	892.80	0.73	
CBMH 52	26+30	LT.	48" ø	RFC-465A1	895.84	892.2	R-3246	C			86				CBMH 51	891.45	0.87	
CB 63	32+52.2	LT.	2' x 3'	RFC-459B	901.95	898.8	R-3246	L			76				CBMH 62	898.30	0.66	
CBMH 62	31+81.3	RT.	48" ø	RFC-465A1	901.39	897.3	R-3246	L			134				CBMH 60	896.40	0.67	
CB 61	30+41.5	LT.	2' x 3'	RFC-459B	899.5	896.4	R-3246	L		28					CBMH 60	896.25	0.55	
CBMH 60	30+42.3	RT.	48" ø	RFC-465A1	899.5	895.9	R-3246	L			149				CBMH 58	894.50	0.94	
CB 59	28+87.5	LT.	2' x 3'	RFC-459B	897.64	894.65	R-3246	L		28					CBMH 58	894.50	0.55	
CBMH 58	28+87.4	RT.	48" ø	RFC-465A1	897.64	894.5	R-3246	L			172				CBMH 51	892.70	1.05	
CB 64	27+15.9	RT.	2' x 3'	RFC-459B	896.28	893.4	R-3246	L		28					CBMH 51	893.15	0.91	
CBMH 51	27+15.9	LT.	60" ø	RFC-465A3	896.28	890	R-3246	L			137	3.4	1	FES 50	888.41	1.14		
RG 103	23+00	RT.	5'x2.5'	BUNKER	898	897												
TOTALS										139	736	216	137	3.4	1			



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

UTILITIES: CENTURYLINK (763) 712-5017
CENTERPOINT ENERGY (763) 323-2760
COMCAST (952) 607-4078
CONEDIUS ENERGY (763) 323-4368
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 REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David Kuehler
DATE 8/31/2021 REG. NO. 48768

RFC ENGINEERING, INC.
Consulting Engineers

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

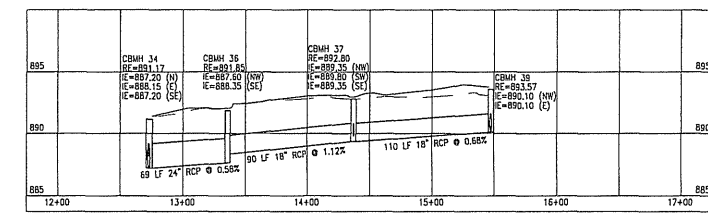
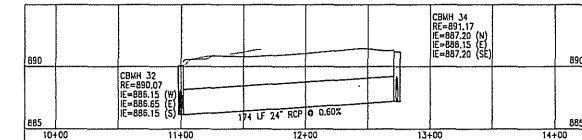
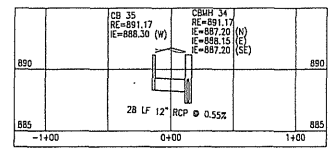
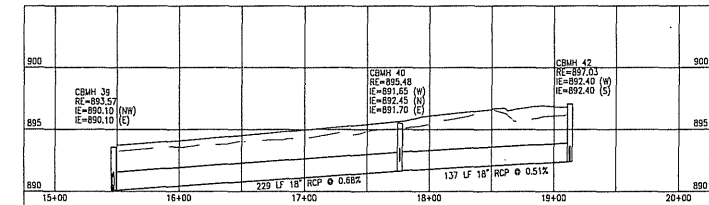
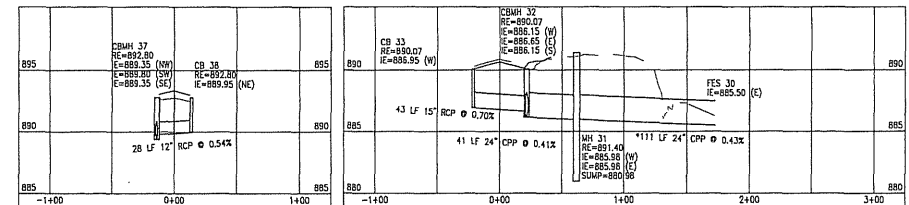
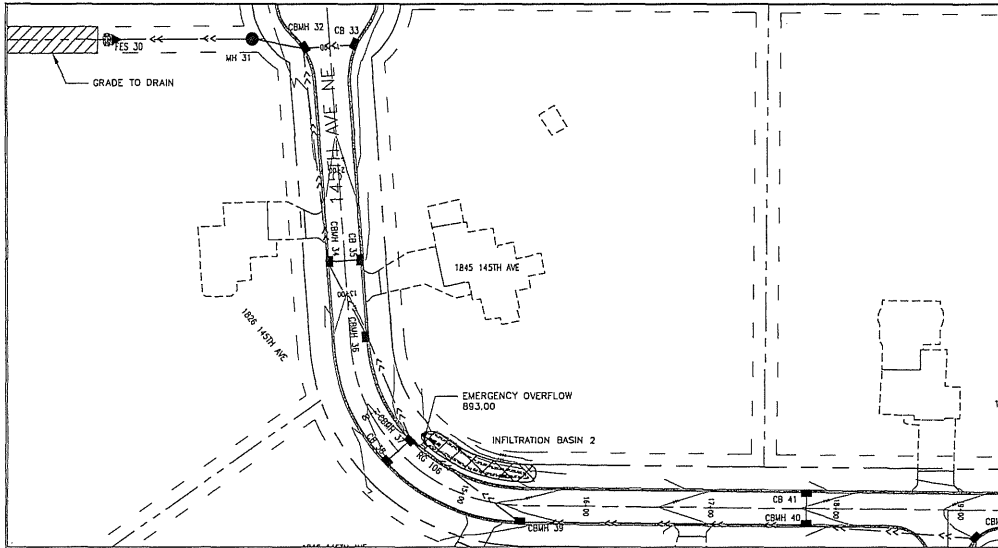
HAM LAKE IMPROVEMENT PROJECT 2105
CREEK VALLEY STREET RECONSTRUCTION
145TH AVE NE, KENYON ST
146TH AVE NE AND LONDON ST
STORM DETAILS
145TH AVENUE NE - EAST OF LONDON STREET

DWG: 2105_STORM 2
DATE: 06/29/22
JOB NUMBER: 2105
SHEET: 27 OF 51
FILE: 34-2-139

DESIGN BY: LDZ

DRAWN BY: LDZ

CHECKED BY: DAK



- 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 SILT FENCE MUST BE IN PLACE BEFORE ANY LAND IS DISTURBED.
 4. ALL REMOVALS TO BE DISPOSED OF LEGALLY.
 5. PIPE LENGTH INCLUDES APRON.

STORM DRAIN

STRUCTURE	STATION	LOCATION	SIZE OF STRUCTURE	DESIGN	TOP OF CASTING OR INLET	INVERT	CASTING ASSEMBLY (NEENAH, EJ, DL)*	TYPE GRATE (NEENAH CASTINGS)	PIPE					TRASH GUARD	APRON	FLOWS TO INLET	% GRADE
									12" R.C.P.	15" R.C.P.	18" R.C.P.	24" R.C.P.	24" C.P.P.				
CBMH 42	19+12.8	RT.	48" ø	RFC-465A1	897.03	892.4	R-3246	L							CBMH 40	891.70	0.51
CB 41	17+76	LT.	2' x 3'	RFC-459B	895.48	892.6	R-3246	L	28						CBMH 40	892.45	0.54
CBMH 40	17+76.2	RT.	48" ø	RFC-465A1	895.48	891.65	R-3246	L							CBMH 39	890.10	0.68
CBMH 39	15+47.4	RT.	48" ø	RFC-465A1	893.57	890.1	R-3246	L							CBMH 37	889.35	0.68
CB 38	14+37	RT.	2' x 3'	RFC-459B	892.8	889.95	R-3246	L	28						CBMH 37	889.80	0.54
CBMH 37	14+37	LT.	48" ø	RFC-465A1	892.8	889.35	R-3246	L							CBMH 36	888.35	1.12
CBMH 36	13+35.8	LT.	48" ø	RFC-465A1	891.85	887.6	R-3246	L							CBMH 34	887.20	0.58
CB 35	12+73.1	LT.	2' x 3'	RFC-459B	891.17	888.3	R-3246	L	28						CBMH 34	888.15	0.55
CBMH 34	12+73.2	RT.	60" ø	RFC-465A1	891.17	887.2	R-3246	L							CBMH 32	886.15	0.6
CB 33	10+99.7	LT.	2' x 3'	RFC-459B	890.07	886.95	R-3246	c							CBMH 32	886.65	0.7
CBMH 32	10+99.6	RT.	48" ø	RFC-465A1	890.07	886.15	R-3246	c							MH 31	885.98	0.41
MH 31	10+89.7	RT.	60" ø	RFC-465A3	891.4	885.98	R-1733	-							FES 30	885.5	0.43
RG 106	14+5D	LT.	5' x 2.5'	BUNKER	893	892											
TOTALS									84	43	566	243	148	3.4	1		

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

UTILITIES:
CENTURYLINK (763) 712-5017
CENTERPOINT ENERGY (763) 323-2760
COMCAST (952) 607-4078
CONDENSUS ENERGY (763) 323-4068
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 REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Don Krueger
DATE 6/12/2021 REC. NO. 48768

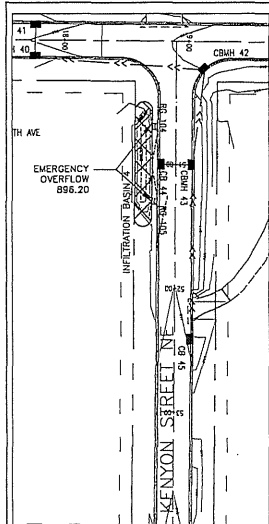
RFC ENGINEERING, INC.
Consulting Engineers

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

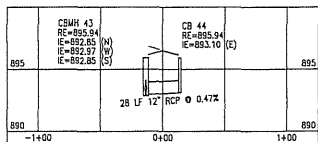
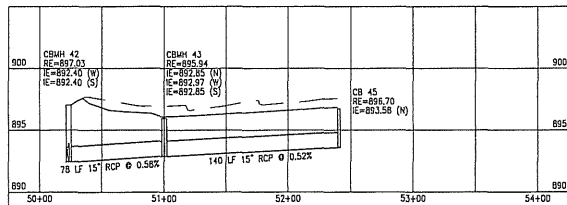
HAM LAKE IMPROVEMENT PROJECT 2105
CREEK VALLEY STREET RECONSTRUCTION
145TH AVE NE, KENYON ST
146TH AVE NE AND LONDON ST
STORM DETAILS
145TH AVENUE NE - WEST OF LONDON STREET

OWG: 2105 STORM 3
DATE: 06/29/22
JOB NUMBER: 2105
SHEET: 28 OF 51
FILE: 34-2-140

DESIGN BY: LDZ DRAWN BY: LDZ CHECKED BY: DMK

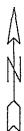


STORM DRAIN																
STRUCTURE	STATION	LOCATION	SIZE OF STRUCTURE	DESIGN	TOP OF CASTING OR INLET	INVERT	CASTING ASSEMBLY (NEENAH, E.V. DL)*	TYPE GRATE (NEENAH CASH#55)	12" R.C.P. LIN FT	15" R.C.P. LIN FT	PIPE APRON LIN FT	TRASH GUARD EACH	APRON EACH	FLOW TO	INLET	% GRADE
CB 45	52+40.3	LT.	2' x 3'	RFC-459B	896.7	893.58	R-3246	L		140				CBMH 43	892.85	0.52
CB 44	51+00.1	RT.	2' x 3'	RFC-459B	895.94	893.1	R-3246	C	28					CBMH 43	892.97	0.47
CBMH 43	51+00	LT.	46" ø	RFC-465A1	895.94	892.85	R-3246	C		78				CBMH 42	892.40	0.58
RG 104	50+70	RT.	5' x 2.5'	BUNKER	896.2	895.2										
RG 105	51+30	RT.	5' x 2.5'	BUNKER	896.2	895.2										
TOTALS									28	218						



NOTES:

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2. THERE SHALL BE NO STOCKPILING INCLUDING TEMPORARY STOCK PILES OF MATERIALS IN WETLAND AREAS.
3. ALL SILT FENCE MUST BE IN PLACE BEFORE ANY LAND IS DISTURBED.
4. ALL REMOVALS TO BE DISPOSED OF LEGALLY.
5. * PIPE LENGTH INCLUDES APRON.



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

UTILITIES: CENTURYLINK (763) 712-5017
CENTERPOINT ENERGY (763) 323-2760
COMCAST (865) 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 REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David Krueger
DATE 6/23/2021 REG. NO. 48768

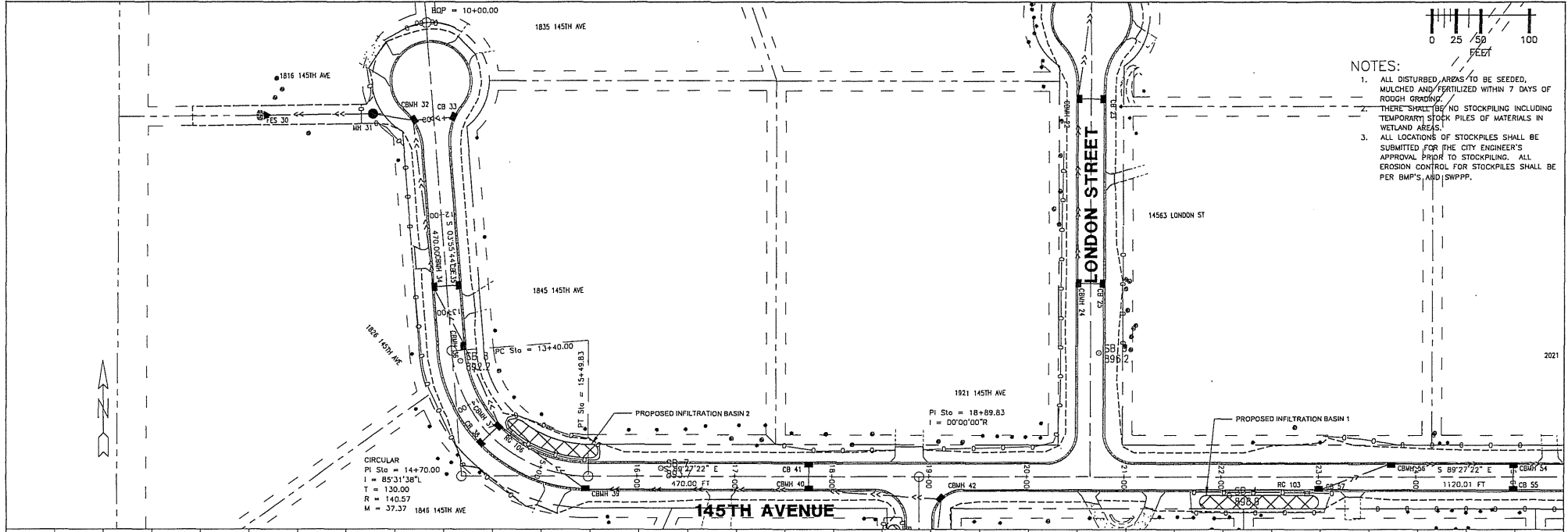
RFC ENGINEERING, INC.
Consulting Engineers

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

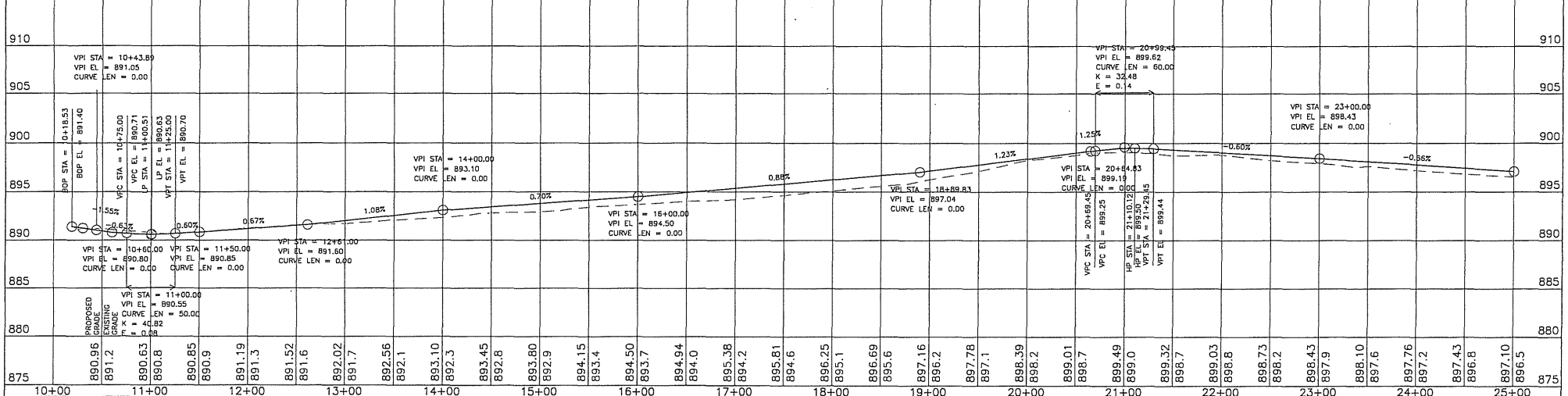
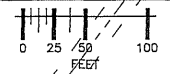
HAM LAKE IMPROVEMENT PROJECT 2105
CREEK VALLEY STREET RECONSTRUCTION
145TH AVE NE, KENYON ST
145TH AVE NE AND LONDON ST
STORM DETAILS
KENYON STREET NE

DWG: 2105 STORM 4
DATE: 06/29/22
JOB NUMBER: 2105
SHEET: 29 OF 51
FILE: 34-2-141

DESIGN BY: LDZ DRAWN BY: LDZ CHECKED BY: DAK



- 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.



Gopher State One Call
 800-252-1166 651-454-0002
 PLOT DATE: 06/29/22

UTILITIES:

CENTURYPUNK	(763) 719-5017
CENTERPOINT ENERGY	(763) 323-2760
COMCAST	(952) 607-4578
CONDENSUS ENERGY	(763) 323-4268
XCEL ENERGY	(612) 528-4508

DATE	REVISION HISTORY

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

David Krueger
 DATE 6/3/2021 REG. NO. 48758

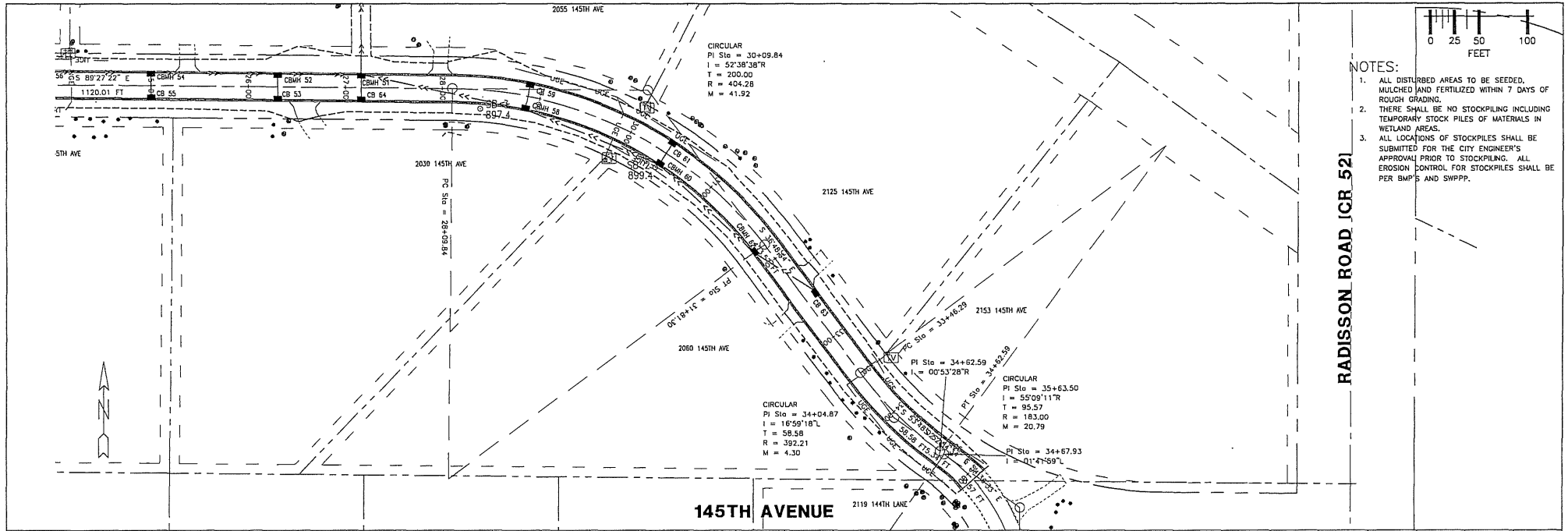
RFC ENGINEERING, INC.
 Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE AND LONDON ST
 145TH AVENUE
 PLAN AND PROFILE

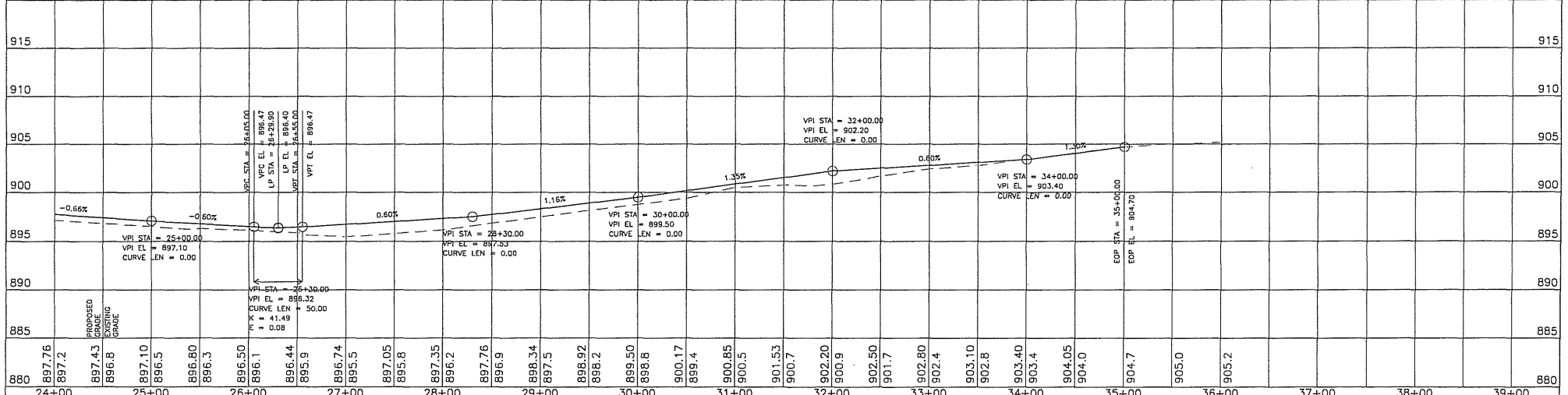
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 DATE: 06/29/22
 JOB NUMBER: 2105
 SHEET: 30 OF 51
 FILE: 34-2-142

DESIGN BY: LDZ DRAWN BY: LDZ CHECKED BY: DAK



- 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 BMP'S AND SWPPP.

RADISSON ROAD (CR 52)



Gopher State ONE CALL
 800-252-1166 651-454-0002
811 or 1-800-252-1166

UTILITIES:

CENTURYLINK	(763) 712-5017
CENTERPOINT ENERGY	(763) 323-2760
COMCAST	(952) 607-4078
CONHEUS 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 REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Neil R. Ruppel
 DATE 8/3/2021 REG. NO. 48768

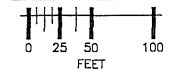
RFC ENGINEERING, INC.
 Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE AND KENYON ST
 145TH AVE NE AND LONDON ST
 145TH AVENUE
 PLAN AND PROFILE

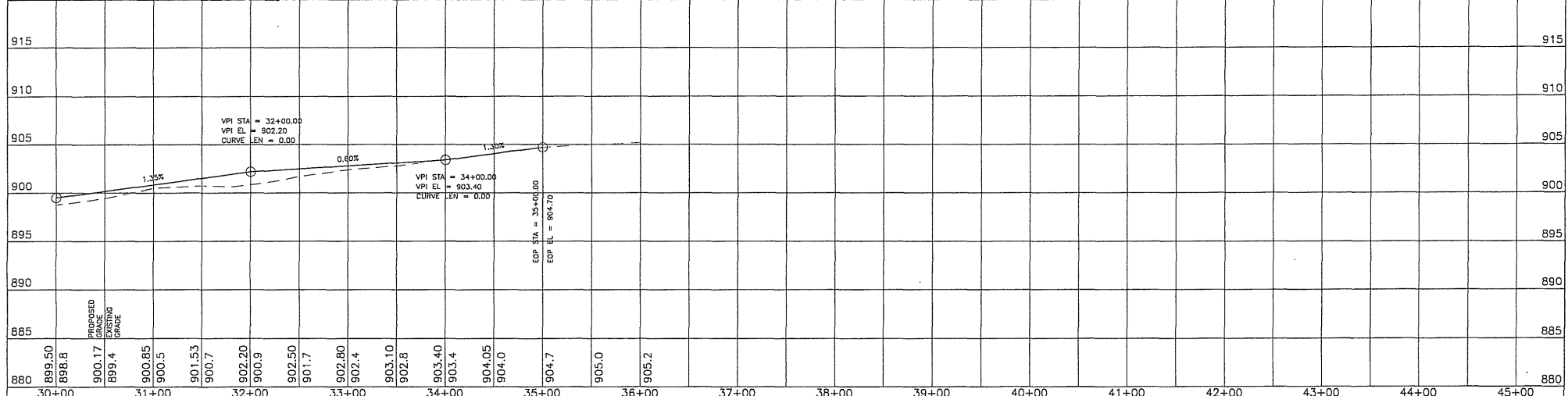
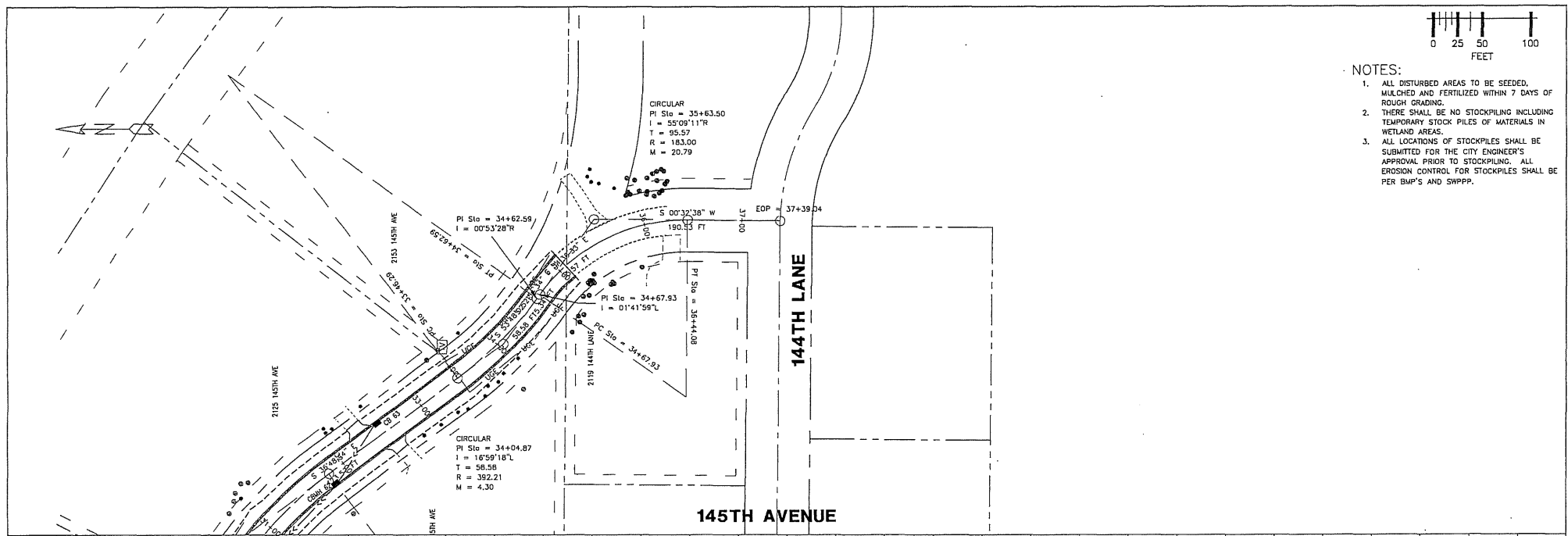
DWG:	RCP01021
DATE:	06/29/22
JOB NUMBER:	2105
SHEET:	31 OF 51
FILE:	34-2-143

DESIGN BY: LOZ DRAWN BY: LOZ CHECKED BY: DAK



NOTES:

1. ALL DISTURBED AREAS TO BE SEEDED, MULCHED AND FERTILIZED WITHIN 7 DAYS OF ROUGH GRADING.
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SOPHER STATE ONE CALL
 800-252-1166 651-454-0002
PL01 DATE: 6/20/2021 DP: 10

UTILITIES:

CENTURYLINK	(763) 712-5017
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 REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Nancy Krueger
DATE 6/2/2021 REG. NO. 48268

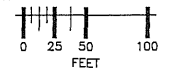
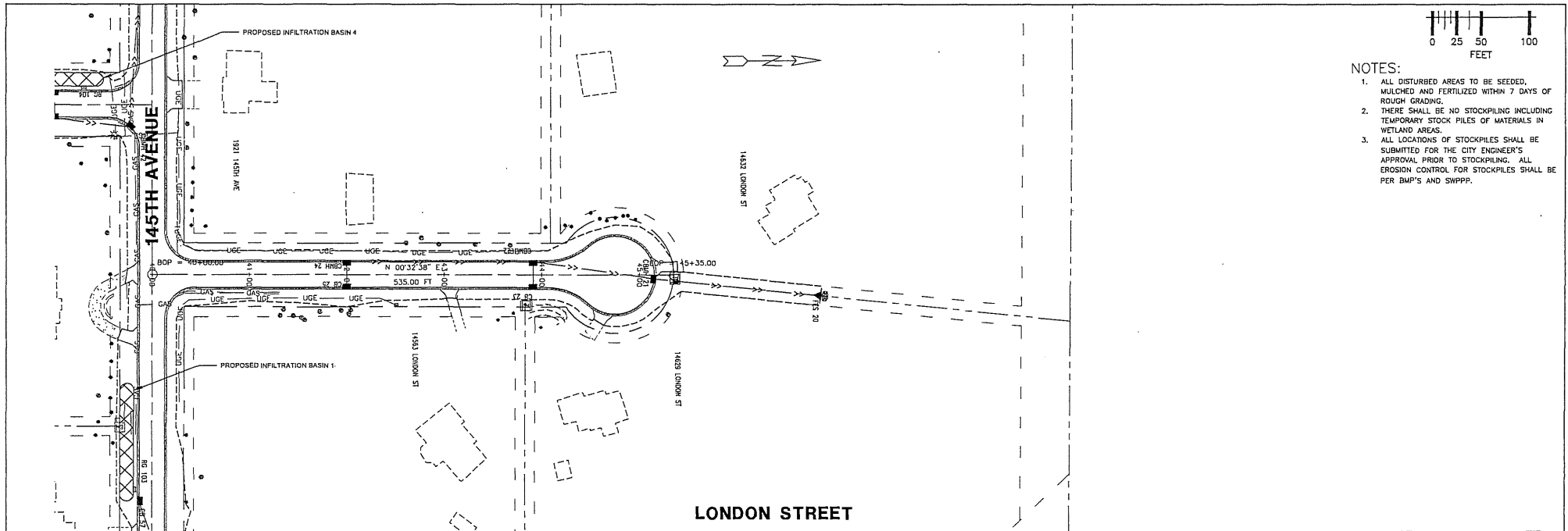
RFC ENGINEERING, INC.
 Consulting Engineers

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

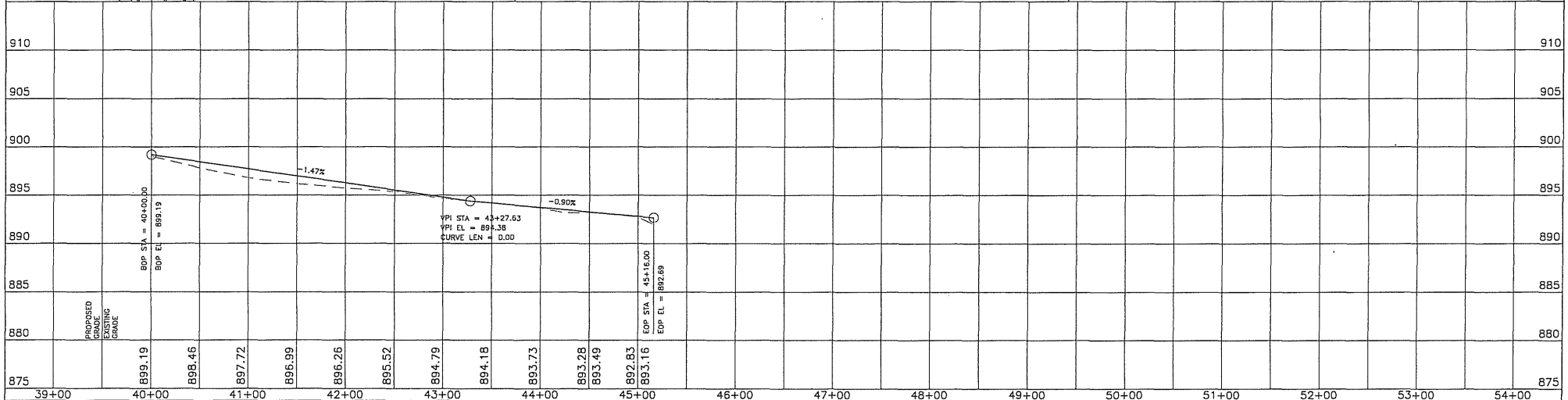
HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE AND LONDON ST
 146TH AVE NE AND LONDON ST
 145TH AVENUE
 PLAN AND PROFILE

DWG:	RCP2021
DATE:	06/29/22
JOB NUMBER:	2105
SHEET:	32 OF 51
FILE:	34-2-144

DESIGN BY: LDZ DRAWN BY: LDZ CHECKED BY: DAK



- NOTES:**
1. ALL DISTURBED AREAS TO BE SEEDED, MULCHED AND FERTILIZED WITHIN 7 DAYS OF ROUGH GRADING.
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Gopher State One Call
 800-252-1166 651-454-0002
 PLAN DATE: 6/29/22 BY: 110

UTILITIES:
 CENTURYLINK (763) 712-5917
 CENTERPOINT ENERGY (763) 323-2760
 COMCAST (952) 607-4078
 CONNECUS ENERGY (763) 323-4268
 XCEL ENERGY (612) 526-4508

DATE	REVISION HISTORY

DATE 6/3/2021 REG. NO. 48768

RFC ENGINEERING, INC.
 Consulting Engineers

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

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

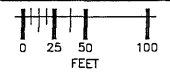
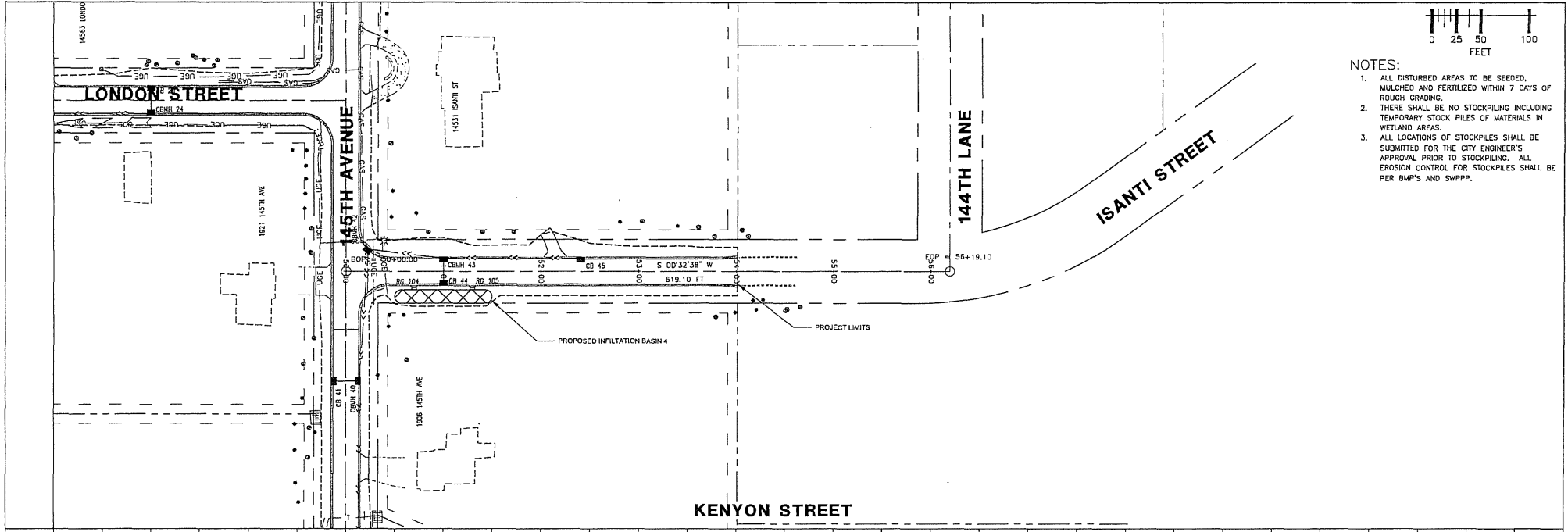
David Krueger
 DATE 6/3/2021 REG. NO. 48768

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

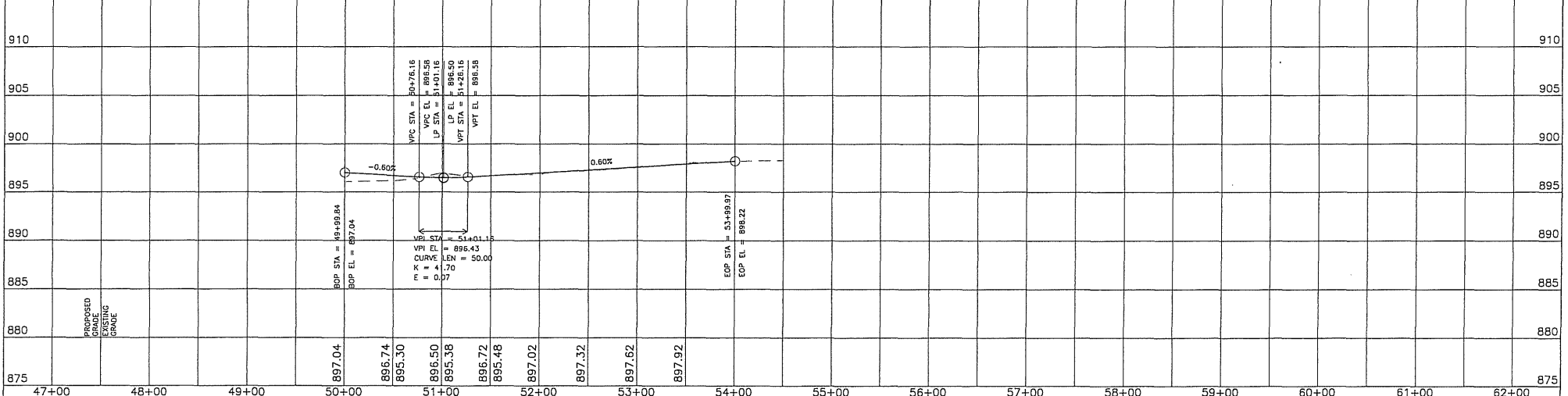
HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE, KENYON ST
 146TH AVE NE AND LONDON ST
 LONDON STREET
 PLAN AND PROFILE

DESIGN BY: LOZ DRAWN BY: LOZ CHECKED BY: DAK

DWG: RCP01022
 DATE: 06/29/22
 JOB NUMBER: 2105
 SHEET: 33 OF 51
 FILE: 34-2-145



- 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.
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GOVERNOR'S STATE ONE CALL
 800-252-1166 651-454-0002
PLOT DATE: 6/29/2022 01:16

UTILITIES:
 CENTURYLINK (763) 712-5017
 CENTERPOINT ENERGY (763) 323-2760
 COMCAST (952) 607-4078
 CONSOLIDATED ENERGY (763) 323-4588
 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 REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David Thompson
 DATE 6/2/2021 REG. NO. 48768

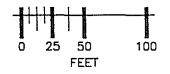
RFC ENGINEERING, INC.
Consulting Engineers

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

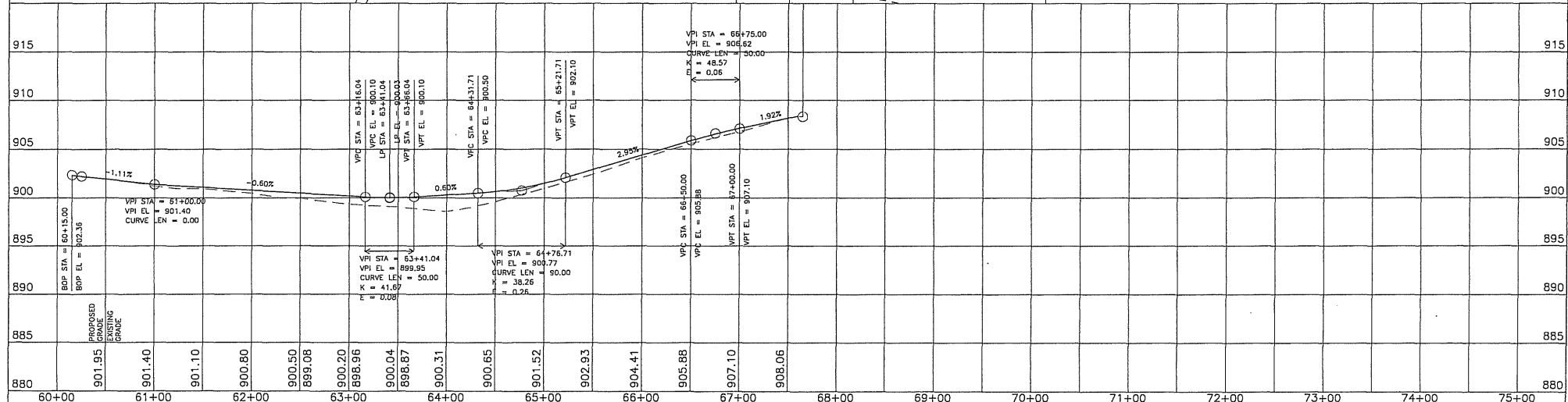
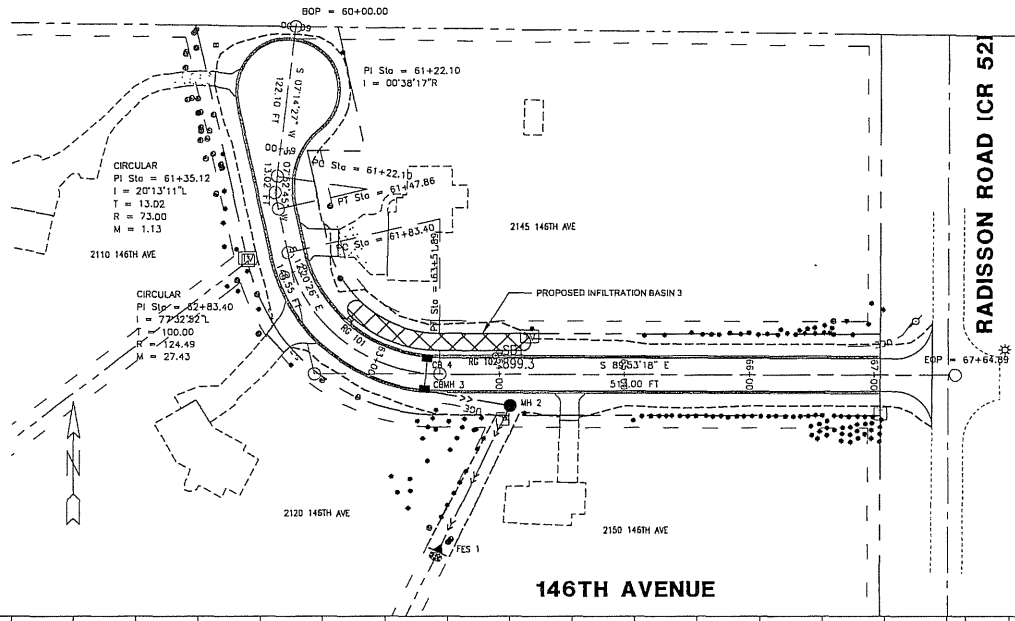
HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE AND LONDON ST
 146TH AVE NE AND LONDON ST
 KENYON STREET
 PLAN AND PROFILE

DWG: RCP01023
 DATE: 06/29/22
 JOB NUMBER: 2105
 SHEET: 34 OF 51
 FILE: 34-2-146

DESIGN BY: LOZ
 DRAWN BY: LOZ
 CHECKED BY: DAK



- NOTES:**
1. ALL DISTURBED AREAS TO BE SEED, MULCHED AND FERTILIZED WITHIN 7 DAYS OF ROUGH GRADING.
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GOPEL STATE ONE CALL
 800-252-1166 651-454-0002
 PLOT DATE: 04/02/22 BY: [Signature]

UTILITIES:
 CENTURYLINK (763) 712-5017
 CENTERPOINT ENERGY (763) 323-2760
 COMCAST (952) 607-4078
 CONNEXUS ENERGY (763) 323-0268
 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 FULLY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David Krueger
 DATE 8/2/2021 REG. NO. 48768

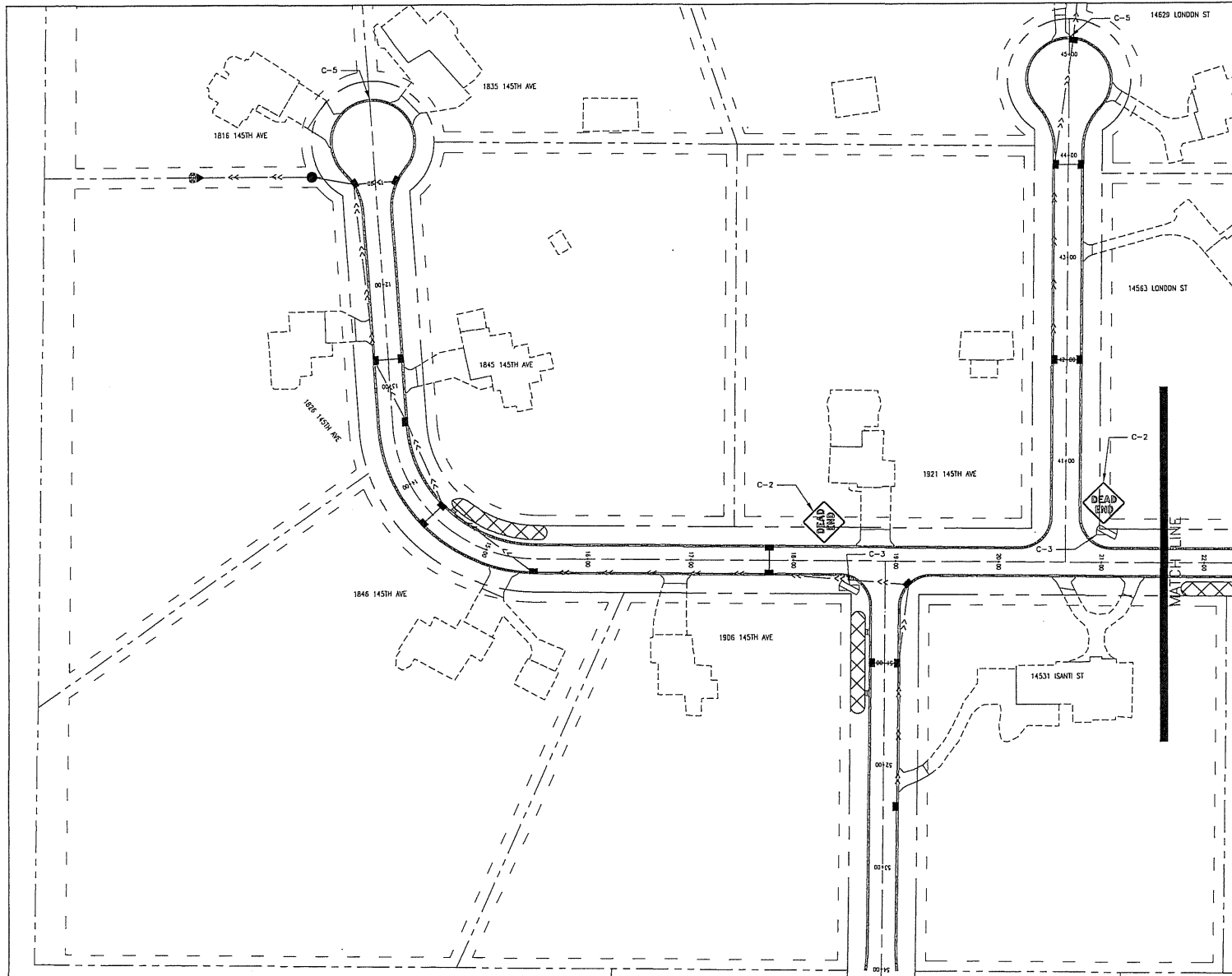
RFC ENGINEERING, INC.
Consulting Engineers

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

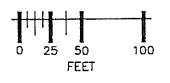
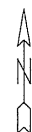
HAM LAKE IMPROVEMENT PROJECT 2105
CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE, KENYON ST
 146TH AVE NE AND LONDON ST
 146TH AVENUE
 PLAN AND PROFILE

DWG: RCP01024
 DATE: 06/29/22
 JOB NUMBER: 2105
 SHEET: 35 OF 51
 FILE: 34-2-147

DESIGN BY: LOZ DRAWN BY: LOZ CHECKED BY: DAK



NOTE:
1. LOCATION OF SIGNS PER MNMUTCD SPECIFICATIONS.



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

UTILITIES: CENTURYLINK (763) 712-5017
CENTERPOINT ENERGY (763) 323-2769
COMCAST (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 DAILY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Dave Krueger
DATE 6/3/2021 REG. NO. 48268

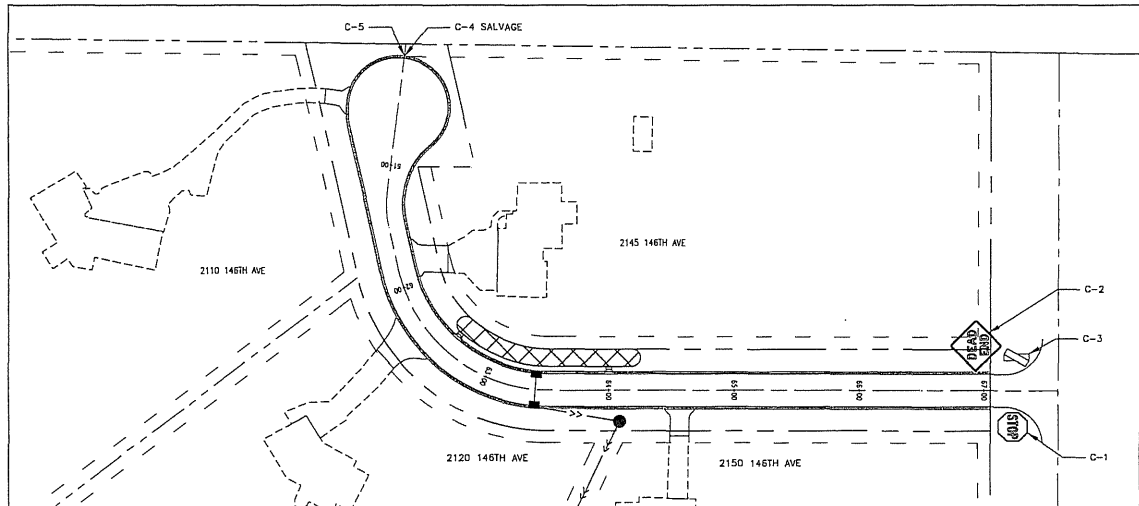
RFC ENGINEERING, INC.
Consulting Engineers

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

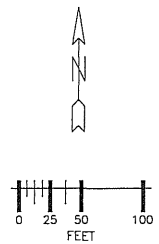
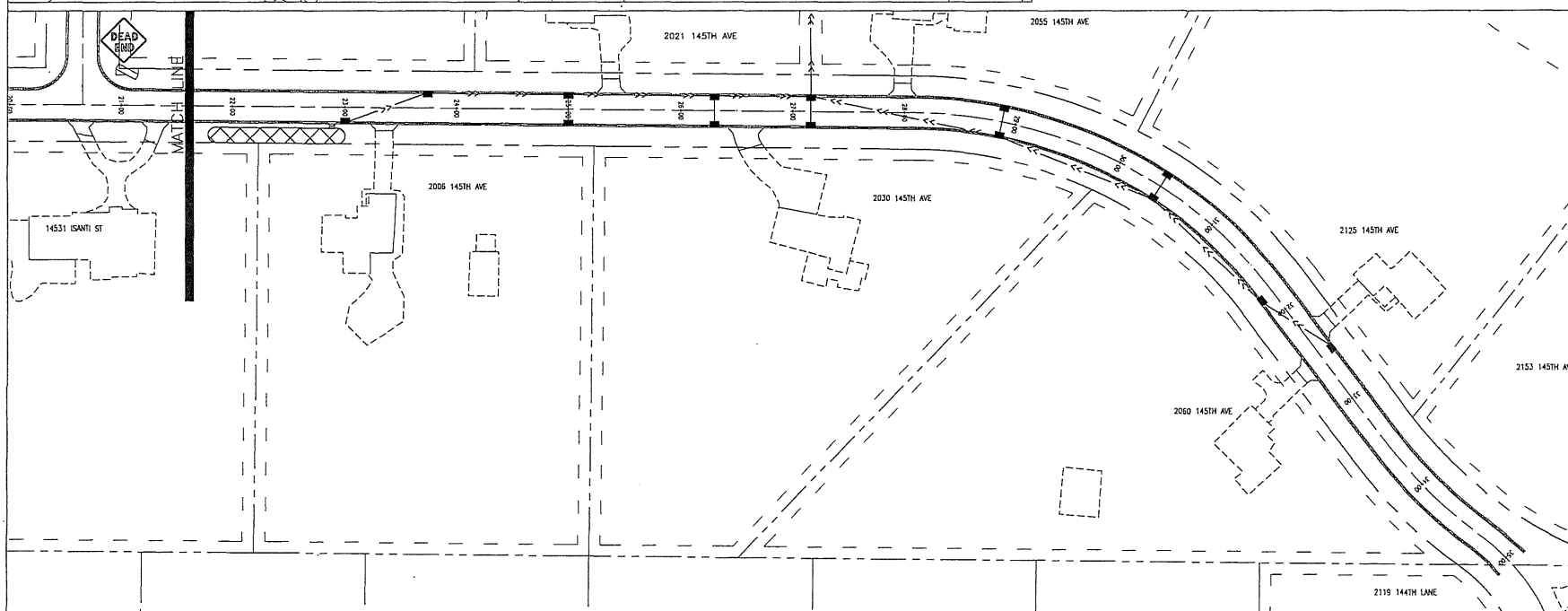
HAM LAKE IMPROVEMENT PROJECT 2105
CREEK VALLEY STREET RECONSTRUCTION
145TH AVE NE, KENYON ST
146TH AVE NE AND LONDON ST
SIGNING AND STRIPING PLAN

DWG: 2105 SIGN 1
DATE: 06/29/22
JOB NUMBER: 2105
SHEET: 36 OF 51
FILE: 34-2-148

DESIGN BY: LDZ DRAWN BY: LDZ CHECKED BY: DAK



NOTE:
1. LOCATION OF SIGNS PER MNMUTCD SPECIFICATIONS.



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

UTILITIES: CENTURYLINK (763) 712-6017
CENTERPOINT ENERGY (763) 323-2760
COMCAST (952) 607-4078
CONNECUS ENERGY (763) 252-4268
XCEL ENERGY (612) 526-4206

DATE	REVISION HISTORY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David Krogstad
DATE: 6/27/2021 REG. NO. 48768

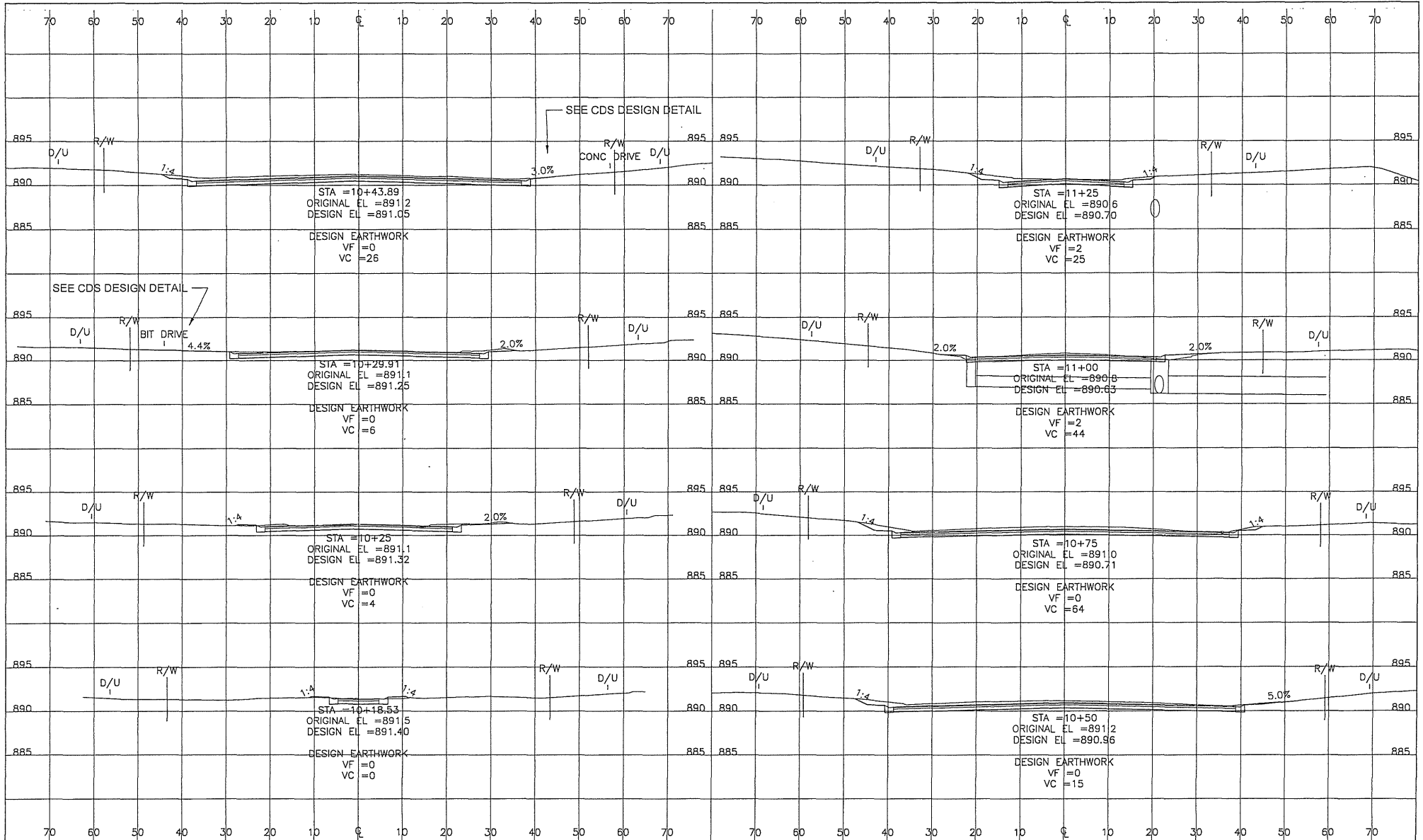
RFC ENGINEERING, INC.
Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
CREEK VALLEY STREET RECONSTRUCTION
145TH AVE NE, KENYON ST
146TH AVE NE AND LONDON ST
SIGNING AND STRIPING PLAN
SIGNING AND STRIPING PLAN

DWG: 2105 SIGN 2
DATE: 06/29/22
JOB NUMBER: 2105
SHEET: 37 OF 51
FILE: 34-2-149

DESIGN BY: LDZ DRAWN BY: LDZ CHECKED BY: DAK



SOPHER STATE ONE CALL
 800-252-1166 651-454-0002
 PRINT DATE: 6/29/22

UTILITIES:
 CENTURYLINK (763) 712-5017
 CENTERPOINT ENERGY (763) 323-2760
 COMCAST (952) 607-4078
 CONNEXUS ENERGY (763) 323-4288
 XCEL ENERGY (612) 526-4288

DATE	REVISION HISTORY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David Knapp
 DATE 6/2/2021 REG. NO. 48768

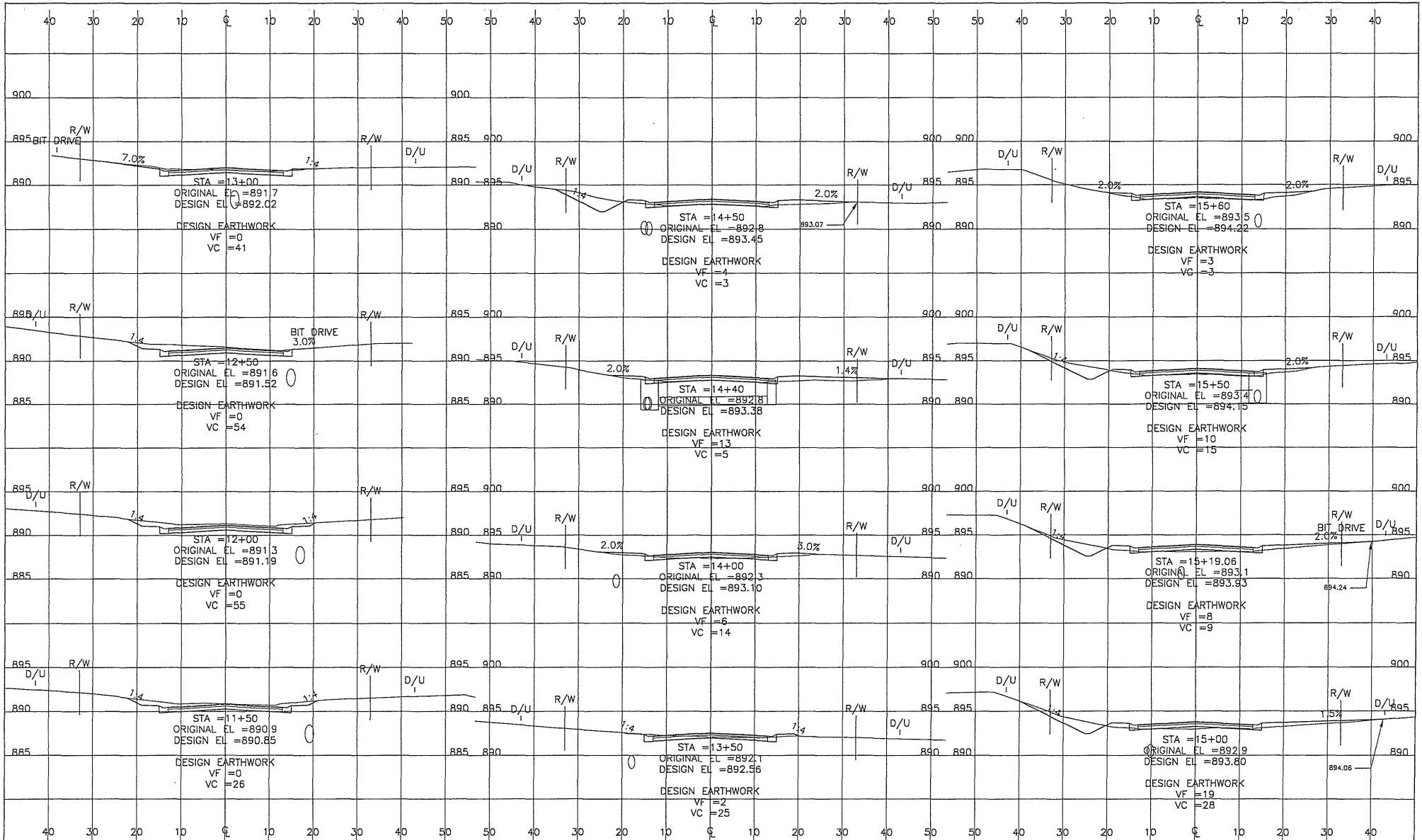
RFC ENGINEERING, INC.
 Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE, KENYON ST
 146TH AVE NE AND LONDON ST
 145TH AVENUE NE
 CROSS SECTIONS

DWG: RCD01021
 DATE: 06/29/22
 JOB NUMBER: 2105
 SHEET: 38 OF 51
 FILE: 34-2-150

DESIGN BY: LOZ DRAWN BY: LOZ CHECKED BY: DAK



GOVERNOR STATE ONE CALL
 800-252-1166 651-454-0002
 PLOT DATE: 6/20/2021 9:10

UTILITIES: CENTURYLINK (763) 712-8017
 CENTERPOINT ENERGY (763) 323-2760
 COMCAST (952) 607-4078
 CONXIOUS ENERGY (763) 352-4288
 XCEL ENERGY (612) 526-4008

DATE	REVISION HISTORY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Nase Knapton
 DATE: 6/2/2021 REG. NO. 48768

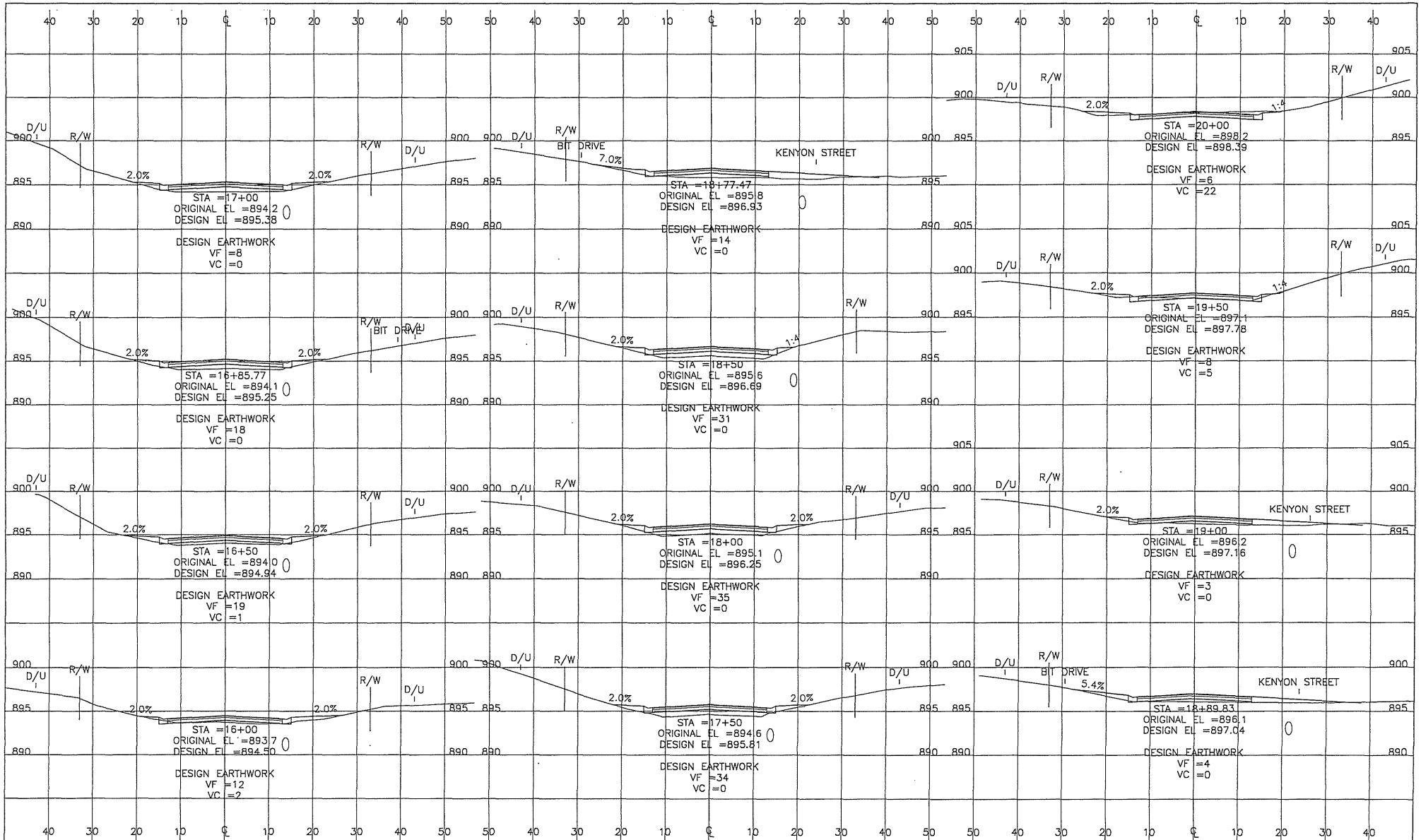
RFC ENGINEERING, INC.
 Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE, KENYON ST
 146TH AVE NE AND LONDON ST
 145TH AVENUE NE
 CROSS SECTIONS

DWG: R0022021
 DATE: 06/29/22
 JOB NUMBER: 2105
 SHEET: 39 OF 51
 FILE: 34-2-151

DESIGN BY: LOZ DRAWN BY: LOZ CHECKED BY: DAK



**GOPHER STATE
ONE CALL**
800-252-1166 651-454-0002
PLOT DATE: 05/29/22

UTILITIES: CENTURYLINK (763) 712-5017
CENTERPOINT ENERGY (763) 323-2760
COMCAST (952) 607-4078
CONNECUS 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 REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David R. Kasper
DATE 5/2/2021 REG. NO. 48768

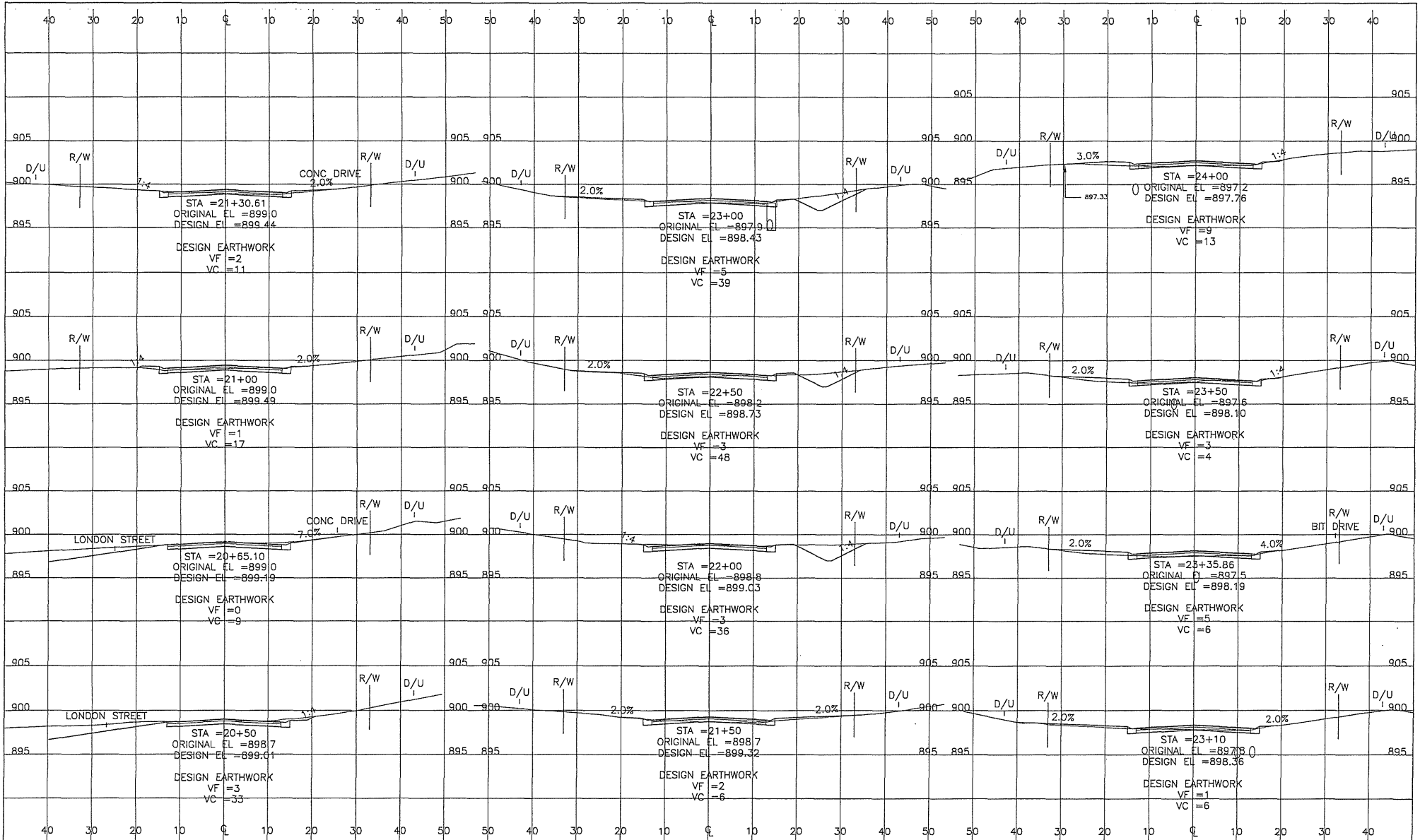
RFC ENGINEERING, INC.
Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
CREEK VALLEY STREET RECONSTRUCTION
145TH AVE NE, KENYON ST
146TH AVE NE AND LONDON ST
145TH AVENUE NE
CROSS SECTIONS

DWG: RCD03021
DATE: 05/29/22
JOB NUMBER: 2105
SHEET: 40 OF 51
FILE: 34-2-152

DESIGN BY: LDZ DRAWN BY: LDZ CHECKED BY: DAK



GOPHER STATE ONE CALL
 800-252-1166 651-454-0002
 PLOT DATE: 6/29/22

UTILITIES:
 CENTURLINK (763) 712-5917
 CENTERPOINT ENERGY (763) 323-2766
 COMCAST (952) 607-4076
 CONXEVUS 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 FULLY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David K. Ruppel
 DATE: 8/3/2021 REG. NO. 48758

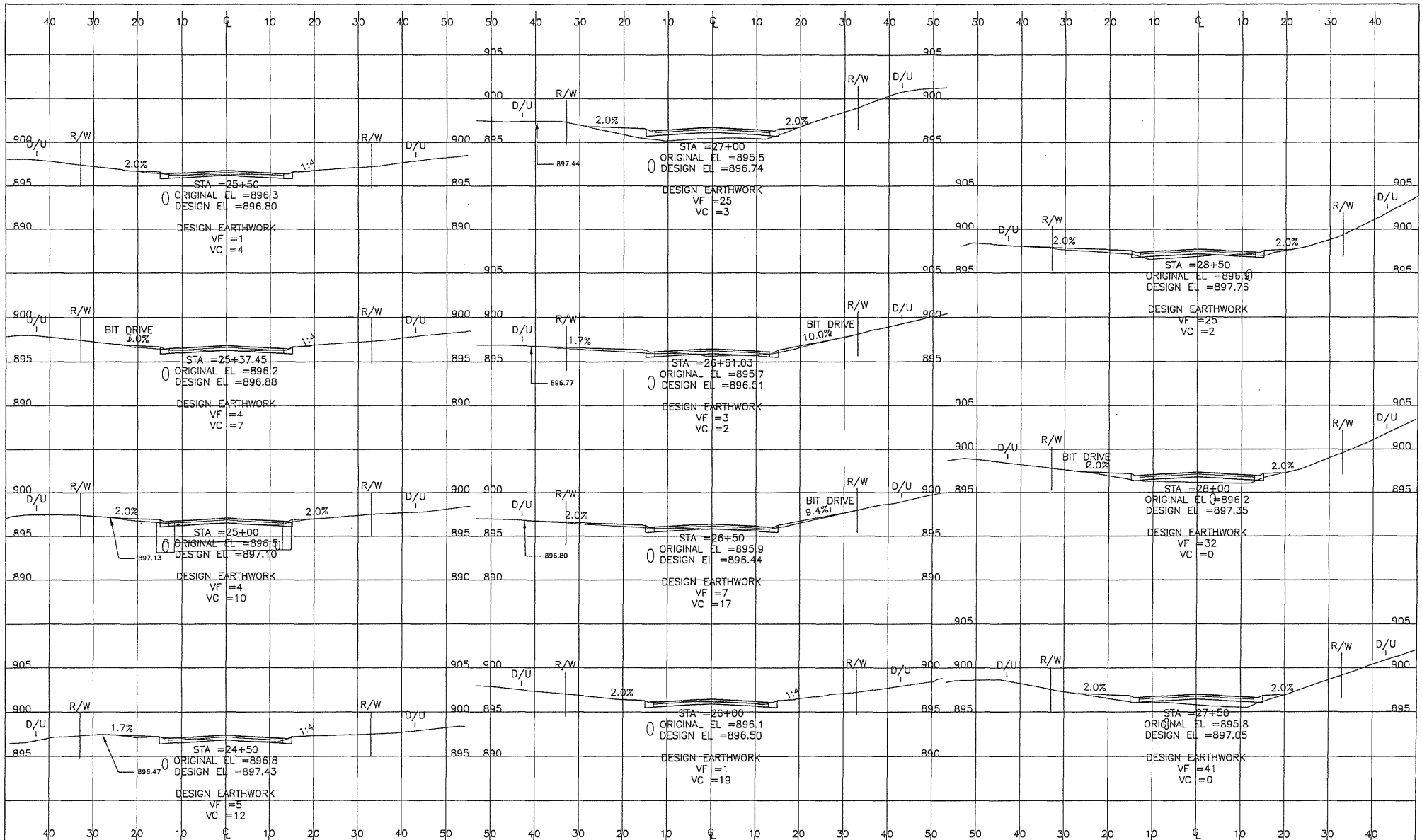
RFC ENGINEERING, INC.
 Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE AND LONDON ST
 146TH AVE NE AND LONDON ST
 145TH AVENUE NE CROSS SECTIONS

DWG: RCD04021
 DATE: 06/29/22
 JOB NUMBER: 2105
 SHEET: 41 OF 51
 FILE: 34-2-153

DESIGN BY: LDZ DRAWN BY: LDZ CHECKED BY: DAK



GOVERNOR STATE ONE CALL
 800-252-1166 651-454-0002
 PLOT DATE: 05/29/22

UTILITIES:
 CENTURYLINK (763) 712-5017
 CENTERPOINT ENERGY (763) 323-2760
 COMCAST (952) 607-4076
 CONNEXUS ENERGY (763) 323-4266
 XCEL ENERGY (612) 526-4506

DATE	REVISION HISTORY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David W. Richter
 DATE: 5/2/2021 REG. NO. 48768

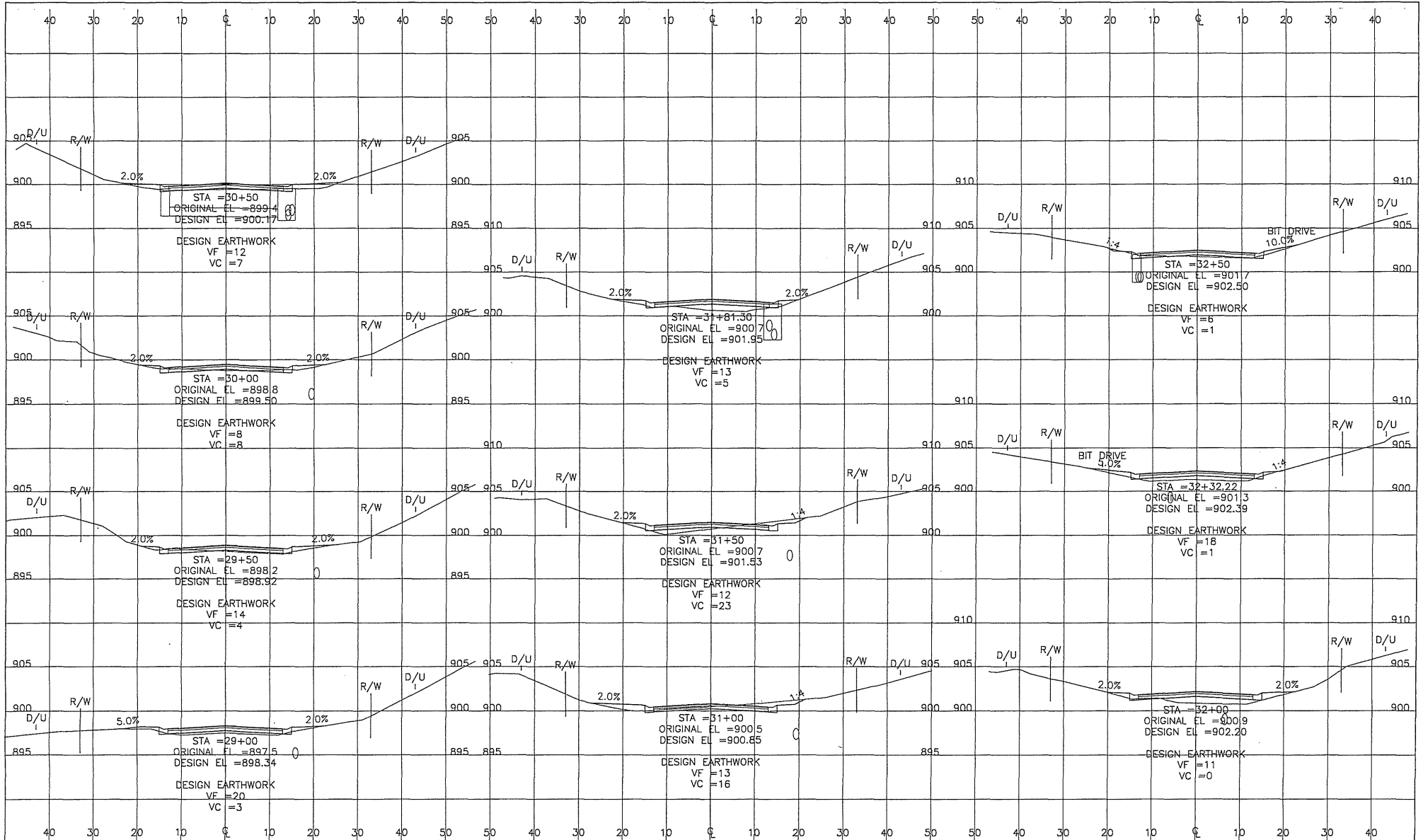
RFC ENGINEERING, INC.
 Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 146TH AVE NE AND KENYON ST
 146TH AVE NE AND LONDON ST
 145TH AVENUE NE
 CROSS SECTIONS

DWG: RC005021
 DATE: 05/29/22
 JOB NUMBER: 2105
 SHEET: 42 OF 51
 FILE: 34-2-154

DESIGN BY: LOZ DRAWN BY: LOZ CHECKED BY: DAK



BOYER STATE ONE CALL
 800-252-1166 651-454-0002
 PLOT DATE: 6/30/2021

UTILITIES: CENTURION (763) 712-5017
 CENTERPOINT ENERGY (763) 323-2760
 COMCAST (952) 607-4078
 CONNEXUS ENERGY (763) 323-4268
 XCEL ENERGY (612) 526-4506

DATE	REVISION HISTORY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Steve Krueger
 DATE 6/2/2021 REG. NO. 48268

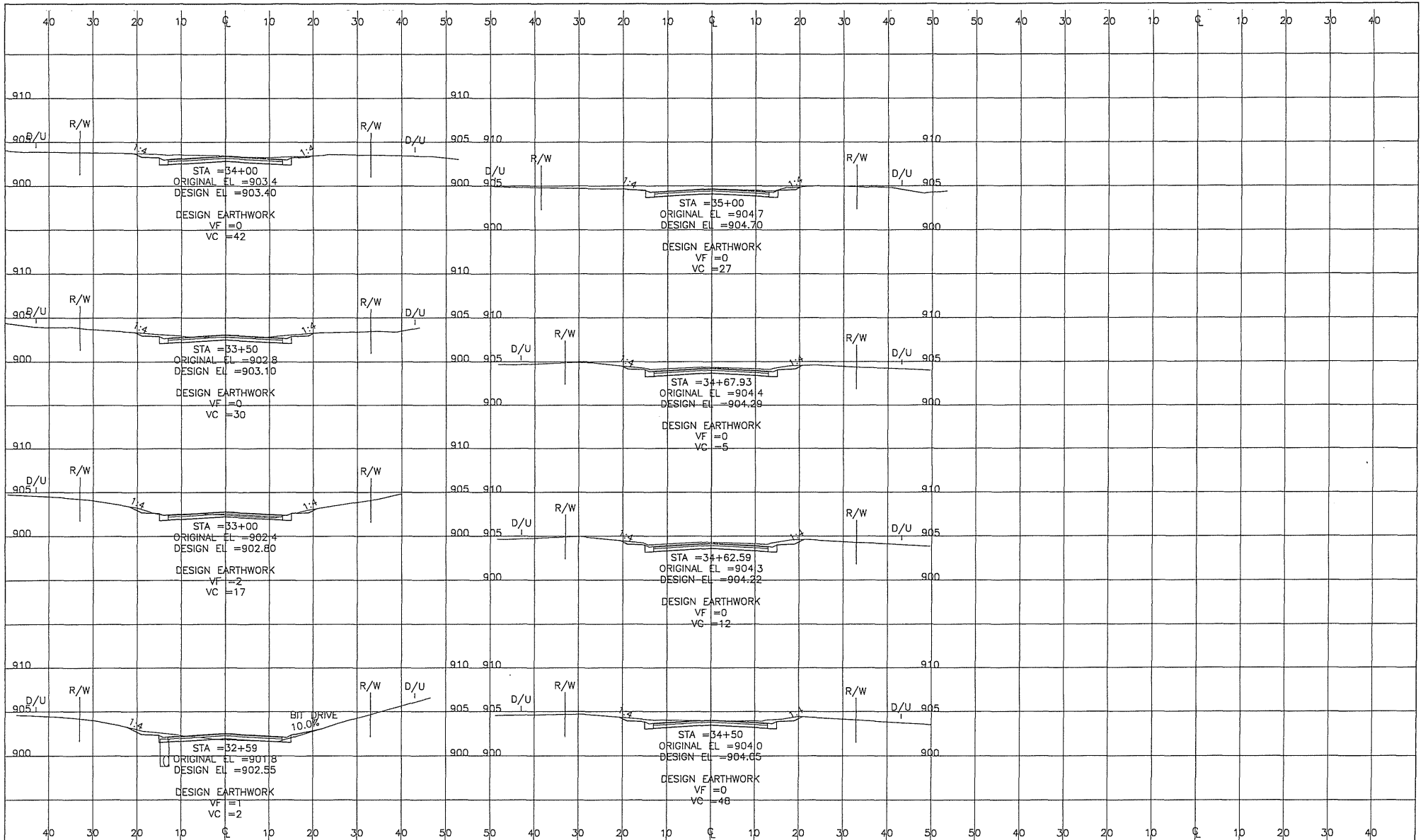
RFC ENGINEERING, INC.
 Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE, KENYON ST
 146TH AVE NE AND LONDON ST
 145TH AVENUE NE
 CROSS SECTIONS

DWG: RCD06021
 DATE: 05/29/22
 JOB NUMBER: 2105
 SHEET: 43 OF 51
 FILE: 34-2-155

DESIGN BY: LOZ DRAWN BY: LOZ CHECKED BY: DAK



800-252-1166 651-454-0002
 PRINT DATE: 05/29/22 09:10

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 REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Robert A. Ruppert
 DATE: 5/3/2021 REG. NO. 48268

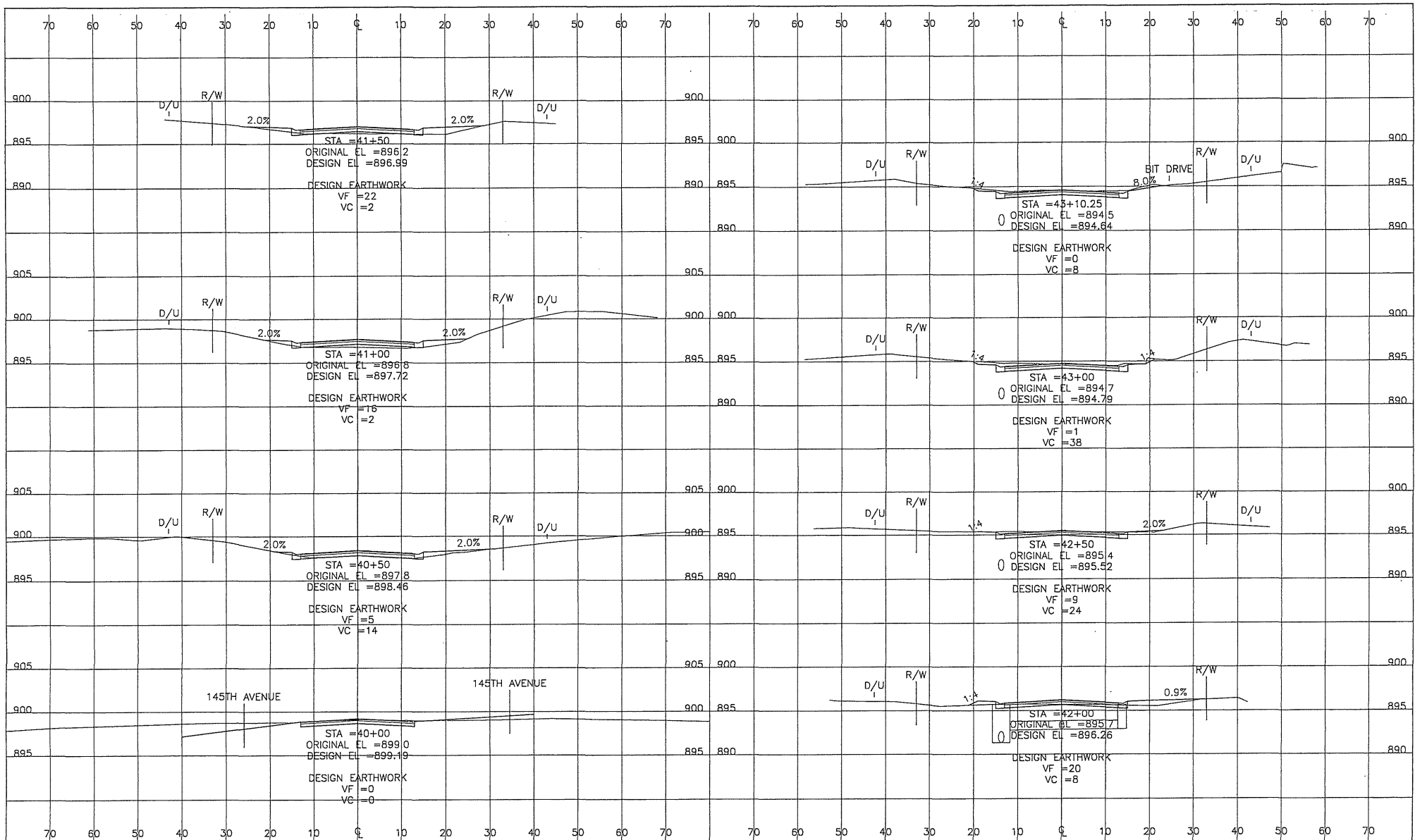
RFC ENGINEERING, INC.
 Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE, KENYON ST
 146TH AVE NE AND LONDON ST
 145TH AVENUE NE
 CROSS SECTIONS

DWG: RC007021
 DATE: 06/29/22
 JOB NUMBER: 2105
 SHEET: 44 OF 51
 FILE: 34-2-156

DESIGN BY: LDZ DRAWN BY: LDZ CHECKED BY: DAK



BOPHER STATE ONE CALL
 800-252-1166 651-454-0002
PLANT MAP - 10/20/2019 BY 10

UTILITIES:
 CENTURYLINK (763) 712-5017
 CENTERPOINT ENERGY (763) 323-2160
 COMCAST (952) 607-4078
 CONNEXUS ENERGY (763) 323-4288
 XCEL ENERGY (612) 526-4308

DATE	REVISION HISTORY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David Kluge
 DATE 6/2/2021 REC. NO. 48268

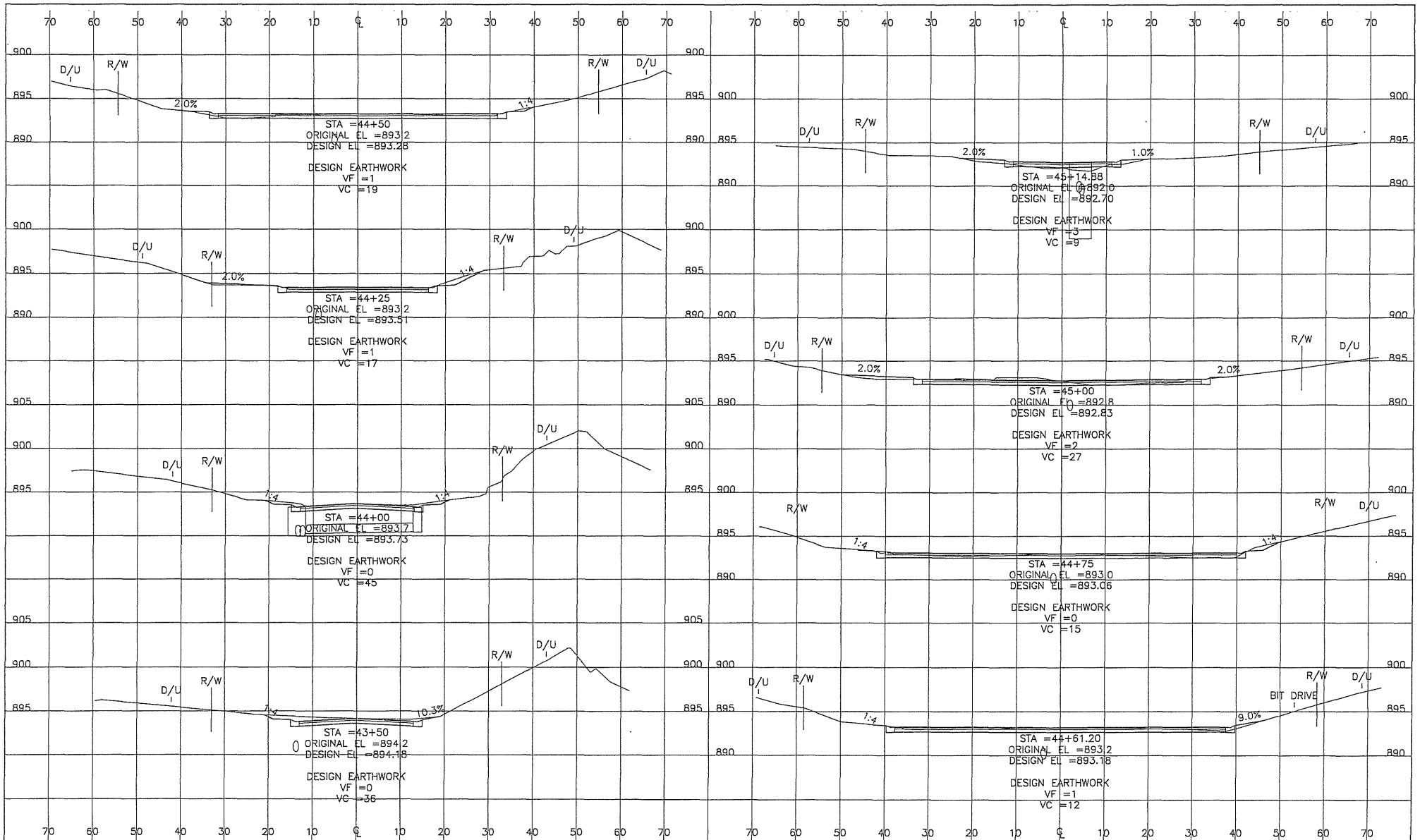
RFC ENGINEERING, INC.
 Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE, KENYON ST
 146TH AVE NE AND LONDON ST
 LONDON STREET
 CROSS SECTIONS

DWG: RC001022
 DATE: 05/29/22
 JOB NUMBER: 2105
 SHEET: 45 OF 51
 FILE: 34-2-157

DESIGN BY: LOZ DRAWN BY: LOZ CHECKED BY: DAK



GOVERNOR STATE ONE CALL
 800-252-1166 651-454-0002
POST DATE: 6/29/22 07:18

UTILITIES: CENTURYLINK (763) 712-5017
 CENTERPOINT ENERGY (763) 323-2760
 COMCAST (952) 607-4076
 CONXELUS ENERGY (763) 323-4268
 XCEL ENERGY (612) 326-4208

DATE	REVISION HISTORY

HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Don Krueger
 DATE 6/3/2021 REG. NO. 48768

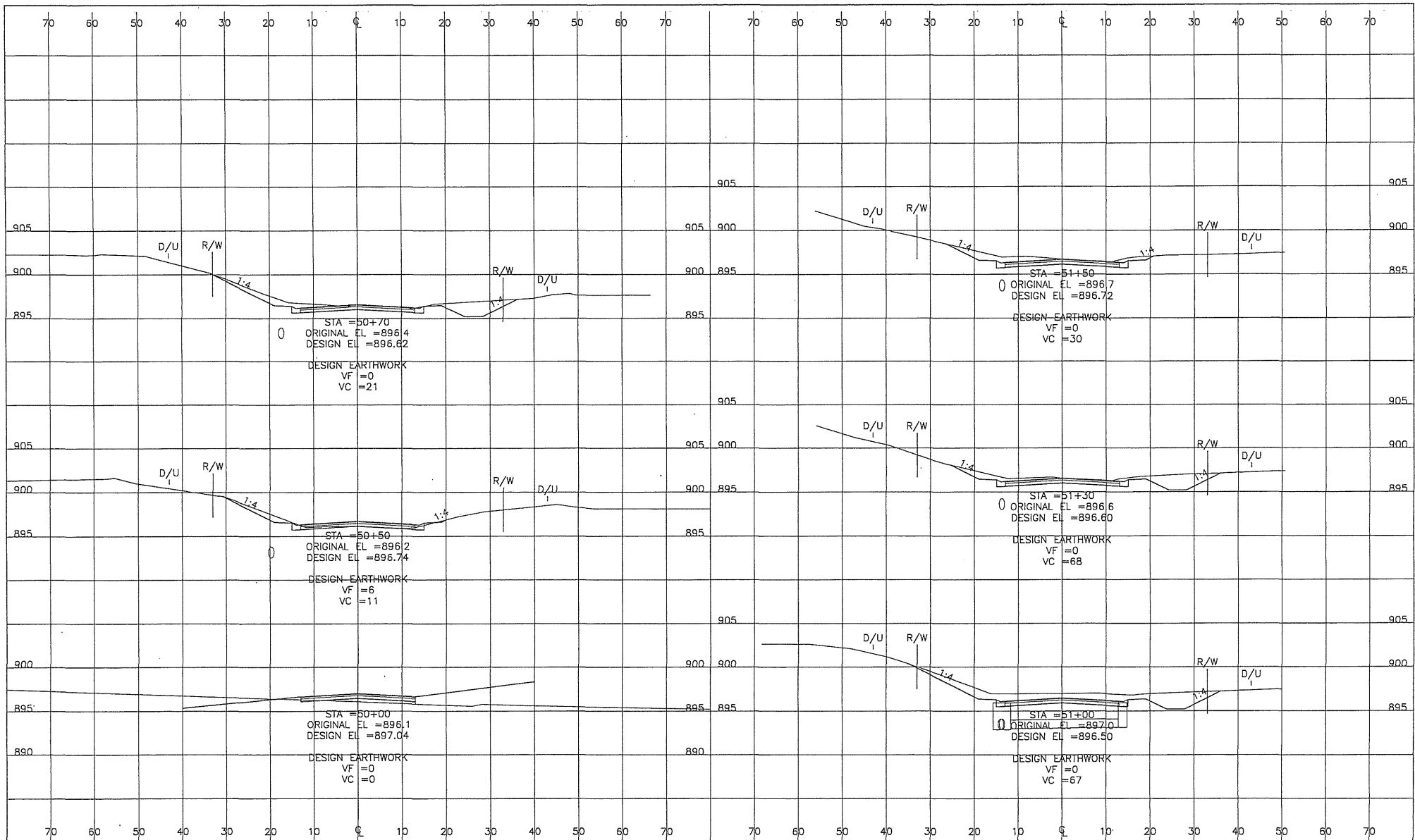
RFC ENGINEERING, INC.
Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE, KENYON ST
 LONDON STREET
 CROSS SECTIONS

DWG: RCD02022
 DATE: 06/29/22
 JOB NUMBER: 2105
 SHEET: 46 OF 51
 FILE: 34-2-158

DESIGN BY: LDZ DRAWN BY: LDZ CHECKED BY: DAK





 800-252-1166 651-454-0002

UTILITIES: CENTURYLINK (763) 712-5017
 CENTERPOINT ENERGY (763) 323-2760
 COMCAST (952) 607-4078
 CONNEXUS ENERGY (763) 323-4288
 XCEL ENERGY (612) 526-4308

DATE	REVISION HISTORY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Rose Krogstad
 DATE 5/2/2021 REG. NO. 48768

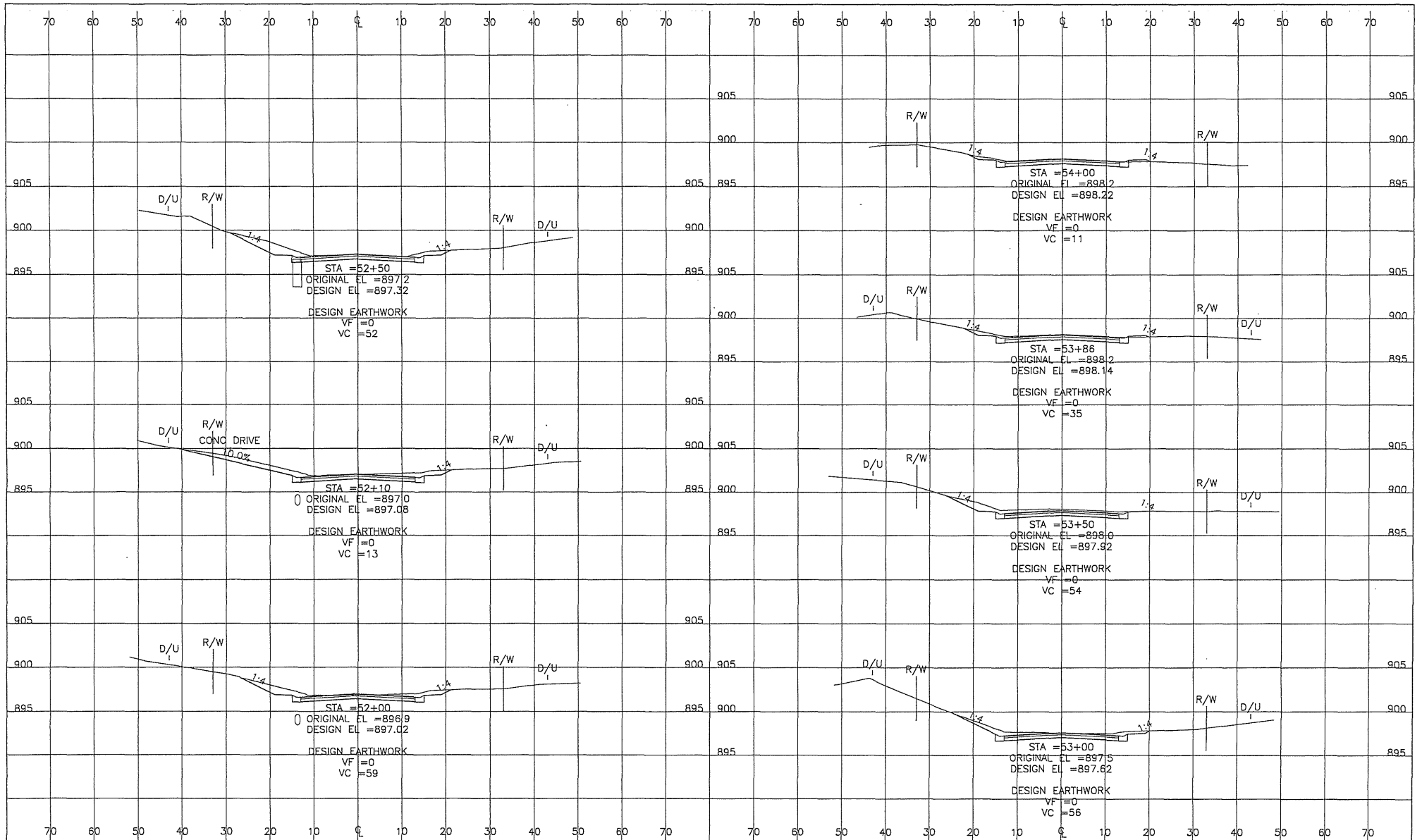
RFC ENGINEERING, INC.
 Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE, KENYON ST
 146TH AVE NE AND LONDON ST
 KENYON STREET
 CROSS SECTIONS

DWG: RCD01023
 DATE: 06/29/22
 JOB NUMBER: 2105
 SHEET: 47 OF 51
 FILE: 34-2-159I

DESIGN BY: LDZ DRAWN BY: LDZ CHECKED BY: DAK



GOVERNOR STATE ONE CALL
 800-252-1166 651-454-0002
PL01 DATE: 6/29/22 01:11

UTILITIES:
 CENTURYLINK (763) 712-5017
 CENTERPOINT ENERGY (763) 323-2760
 COMCAST (952) 607-4078
 CONNECUS 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 REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David Knapp
 DATE 6/3/2021 REG. NO. 48788

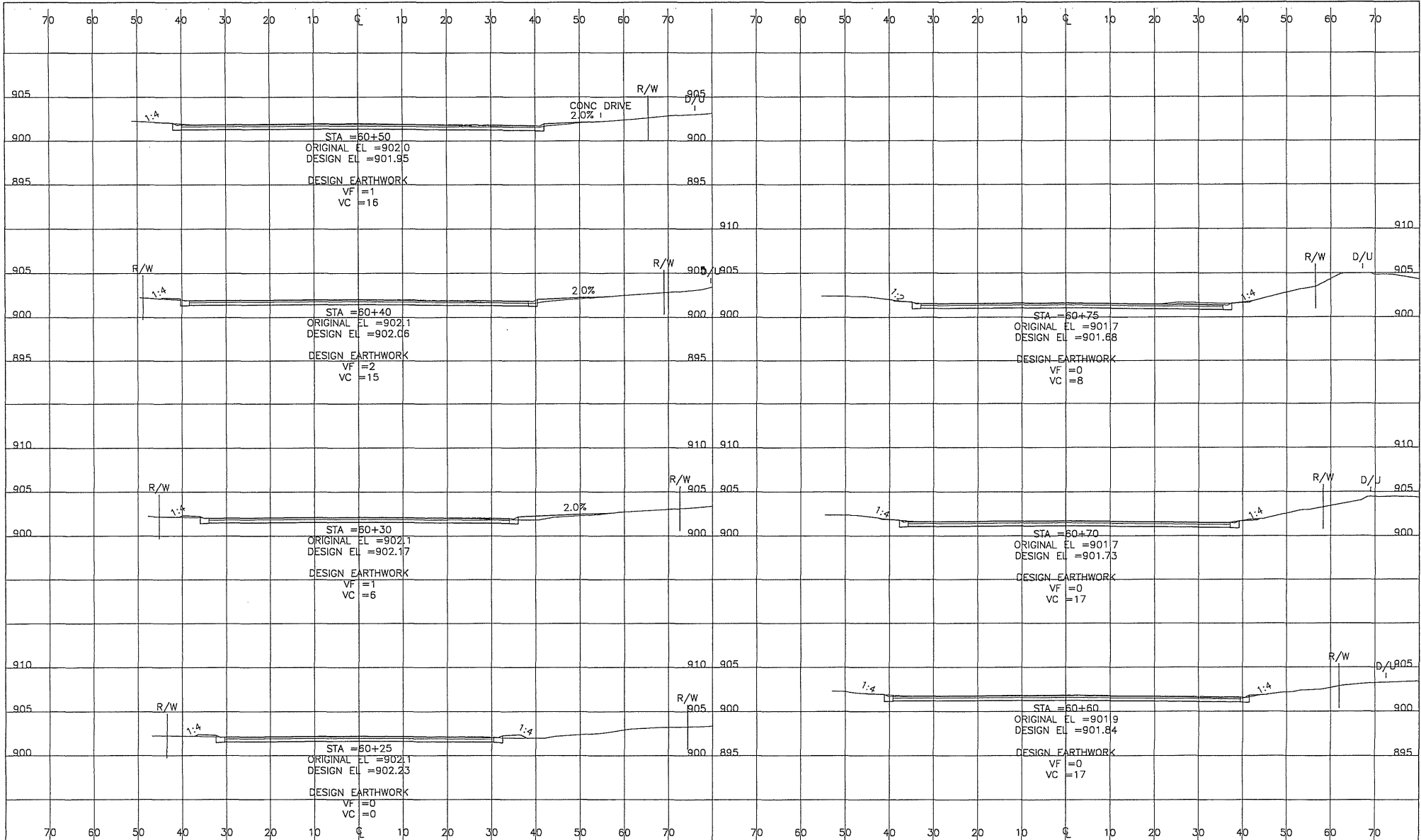
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 Consulting Engineers

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 Ham Lake, MN 55304
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 Fax 763-862-8042

HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE, KENYON ST
 146TH AVE NE AND LONDON ST
 KENYON STREET
 CROSS SECTIONS

DWG: RCO02023
 DATE: 06/29/22
 JOB NUMBER: 2105
 SHEET: 48 OF 51
 FILE: 34-2-160

DESIGN BY: LOZ DRAWN BY: LOZ CHECKED BY: DAK



800-252-1166 651-454-0002
 PLOT DATE: 05/29/22 07:11

UTILITIES:
 CENTURYLINK (763) 712-5017
 CENTERPOINT ENERGY (763) 323-2760
 COMCAST (952) 607-4078
 CONNEXUS ENERGY (763) 322-4268
 XCEL ENERGY (612) 526-4306

DATE	REVISION HISTORY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David R. Engler
 DATE 5/2/2021 REG. NO. 48768

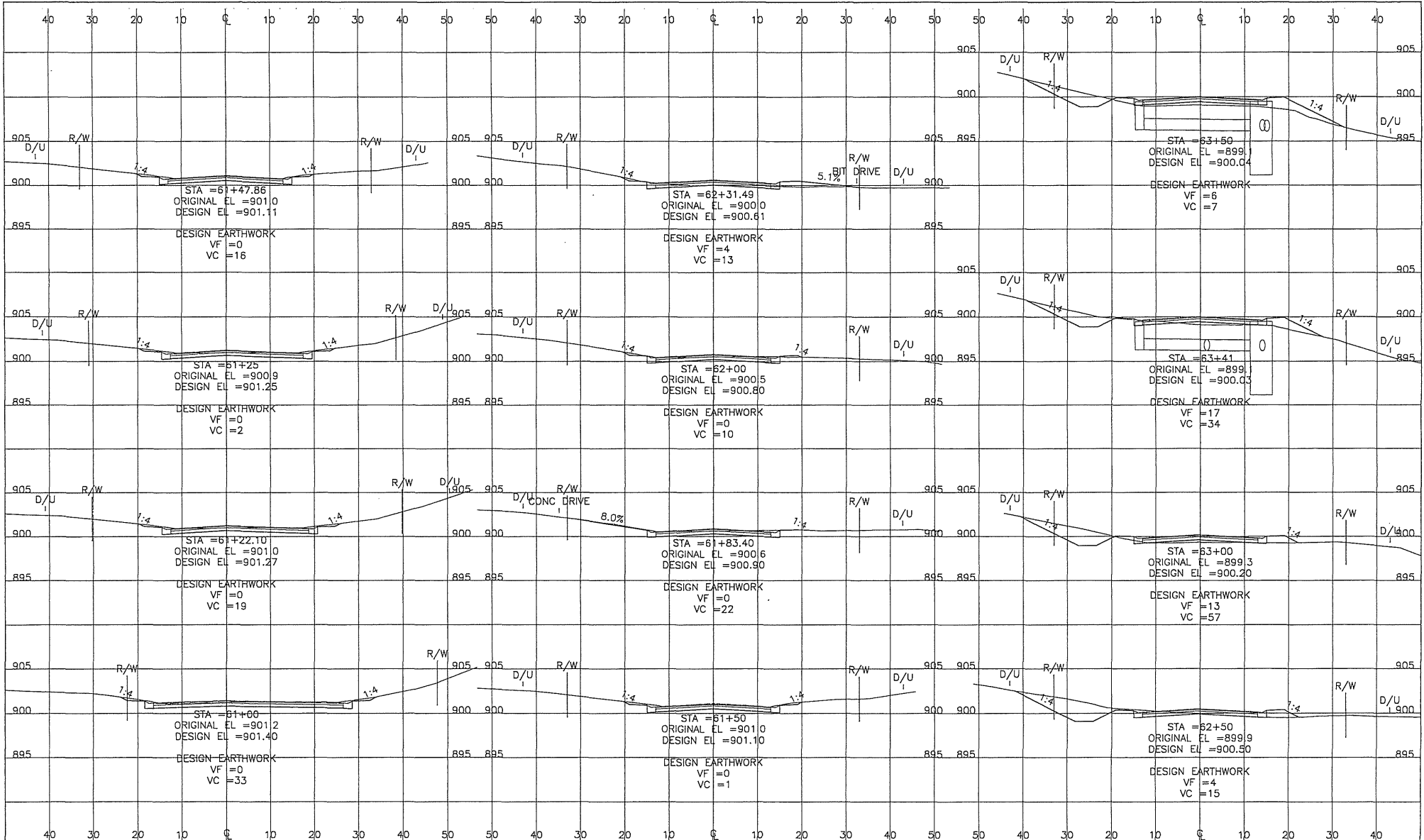
RFC ENGINEERING, INC.
 Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE, KENYON ST
 146TH AVE NE AND LONDON ST
 146TH AVENUE NE
 CROSS SECTIONS

DWG: RC001024
 DATE: 05/29/22
 JOB NUMBER: 2105
 SHEET: 49 OF 51
 FILE: 34-2-161

DESIGN BY: LDZ DRAWN BY: LDZ CHECKED BY: DAK



GO PHER STATE CALL
 800-252-1166 651-454-0002
PRINT DATE: 6/29/22 07:11

UTILITIES: CENTURYLINK (763) 712-5017
 CENTERPOINT ENERGY (763) 323-2760
 COMCAST (952) 607-4078
 CONNEXUS ENERGY (763) 323-4268
 XCEL ENERGY (612) 526-4808

DATE	REVISION HISTORY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Name *Receipt*
 DATE 6/3/2021 REC. NO. 48768

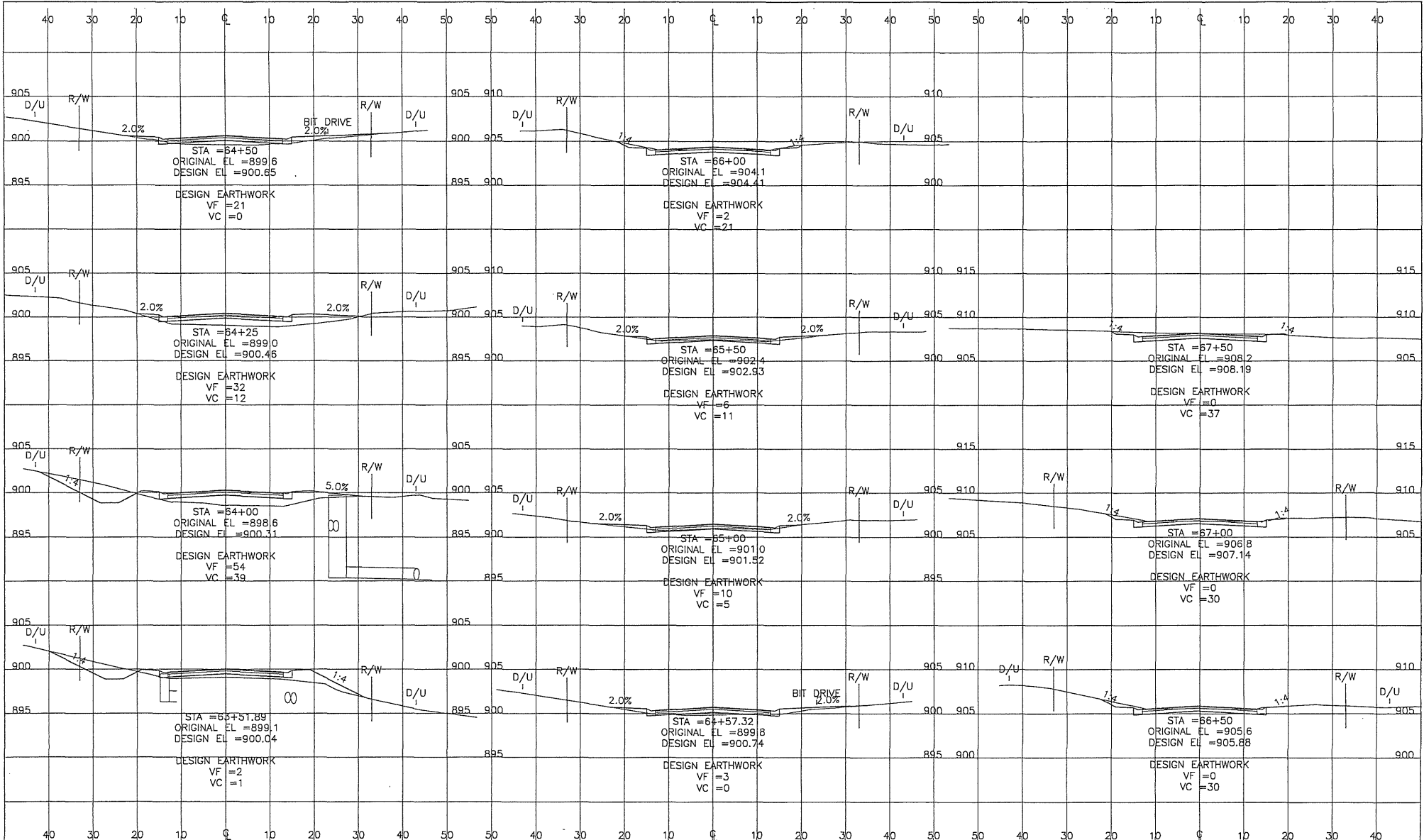
RFC ENGINEERING, INC.
 Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE, KENYON ST
 146TH AVE NE AND LONDON ST
 146TH AVENUE NE
 CROSS SECTIONS

DWG:	RC002024
DATE:	06/29/22
JOB NUMBER:	2105
SHEET:	50 OF 51
FILE:	34-2-162

DESIGN BY: 117 DRAWN BY: 117 CHECKED BY: 117



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

UTILITIES:
 CENTURYLINK (763) 712-5017
 CENTERPOINT ENERGY (763) 323-2760
 COMCAST (952) 507-4078
 CONNEXUS ENERGY (763) 323-4268
 XCEL ENERGY (612) 528-4508

DATE	REVISION HISTORY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Nase Regehr
 DATE 6/3/2021 REG. NO. 48768

RFC ENGINEERING, INC.
 Consulting Engineers

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

HAM LAKE IMPROVEMENT PROJECT 2105
 CREEK VALLEY STREET RECONSTRUCTION
 145TH AVE NE, KENYON ST
 146TH AVE NE AND LONDON ST
 146TH AVENUE NE
 CROSS SECTIONS

DWG: RC003024
 DATE: 06/29/22
 JOB NUMBER: 2105
 SHEET: 51 OF 51
 FILE: 34-2-163

Meeting Date: July 5, 2022

CITY OF HAM LAKE
STAFF REPORT

To: Mayor and Councilmembers
From: Mike Raczkowski, Fire Chief
Item/Title/Subject EOC AV Equipment Replacement

Introduction/Discussion:

At the June 6, 2022 Budget meeting there was a brief discussion about the need to update the AV equipment for the Emergency Operations Center (EOC) at Fire Station 1. It was mentioned that there were Cable TV funds available for this. I met with Z Systems and obtained a bid of \$74,984.09. This bid also included equipment for the backup EOC at Fire station 2. Z Systems are the same company that installed the equipment and is in use in the council chambers. The system would be very familiar to critical individuals and would require minimal training on their part. Z Systems will also have the knowledge to be able to service both systems if needed.

Recommendation:

I am recommending to use Z Systems to install new AV equipment for the EOC's at Fire Stations 1 and 2 for a cost of \$74,984.09 with monies coming from the Cable TV Fund.

Michael Raczkowski

From: Frederick Gotfredson <freddieg@zsyst.com>
Sent: Friday, June 24, 2022 3:46 PM
To: Michael Raczkowski; 'Matt Waldron'
Subject: PROPOSAL: Ham Lake Fire Training Rm EOC AV Upgrades 6 24 2022
Attachments: Ham Lake Fire Training Rm EOC AV Upgrades PROPOSAL 6 24 22.pdf; Ham Lake Fire Training Rm EOC AV Upgrades QUOTE 6 24 22.pdf

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

Hi there Mike and Matt,

Here is my proposal for the AV Upgrades at both fire stations. As we talked about in the walkthrough, this is a full replacement system. We will remove anything that is installed that is not needed and set it aside. A lot of that equipment might still work, but we don't have it in our proposal to be re-used, except for maybe some of the power strips, etc. Most of the existing system is outdated, except for perhaps the tabletop wireless mics. With the addition of ceiling microphones, there just isn't really a good reason to use those. They could be saved and used in a different system, however.

Please let me know if you have any questions or need any changes.

If everything looks good and you want to move forward, you can sign the quote and send it back to me. You can also issue a PO if you prefer.

Cheers!

-Freddie



Frederick Gotfredson
Account Manager – EDU/GOV/HOW Markets
p: 952.974.3140 ext 204 c: 612.568.6027 w: zsyst.com

Z Systems knows pro video. Click below to learn more:
[RENTAL](#) • [INTEGRATION](#) • [SALES](#) • [SERVICE](#) • [TRAINING](#)
[STORAGE](#) • [CAMERAS](#) • [LIVE PRODUCTION](#) • [BACKUP/ARCHIVE](#)
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Z Systems, inc

3724 Oregon Ave S
 Saint Louis Park, MN 55426
 Tel. 952.974.3140
 Fax. 952.974.3141
www.zsyst.com

Purchase Agreement

Date: 06/24/22 Quote #: ZSYQ1374
 P.O. #: FOB: Mfr's Dock
 Terms: 50% Down, Bal Net 15 Rep: **freddieg**
 Project: Training Room EOC AV Upgrades Q2 '22

Sold To:
Mike Raczkowski
 Ham Lake, City of

City of Ham Lake
 15544 Central Ave NE
 Ham Lake, MN 55304

Ship To:
 Hame Lake Fire Department
 Hame Lake Fire Department
 15544 Central Ave NE
 Ham Lake, MN 55304

Attn: Mike Raczkowski

Item	Qty	Description	Unit Cost	Total
Cameras				\$5,495.04
HC12X-HUDDLEVIEW	1	HuddleCamHD HC12X 2.14MP PTZ 12x Optical Auto-Framing Camera	\$2,398.80	\$2,398.80
HC20X-SIMPLTRACK2	1	HuddleCamHD 20x SimplTrack2 Auto Tracking Camera (Black)	\$2,879.04	\$2,879.04
HCM-1-BK	2	HuddleCamHD HCM-1 Small Wall Mount Bracket (Black)	\$86.40	\$172.80
WT-GAF-PTZOptics	2	GAF-12v12w splitter with RJ-45 and DC EIAJ-04 barrel	\$22.20	\$44.40
Displays and Projectors				\$6,464.32
BE75T-H	2	Samsung BE75T-H BET-H Pro TV Series - 75' LED-backlit LCD TV - 4K	\$1,207.70	\$2,415.40
EK-700LU	1	EIKI 7,000 Lumens; 5,000,000:1 Contrast, 17.0 lbs	\$3,105.00	\$3,105.00
LSM1U	2	Chief Micro-Adjust Fixed Wall Mount Large	\$195.12	\$390.24
RPAUW	1	Chief UNIVERSAL RPA WHITE	\$193.68	\$193.68
TBD	1	24" Touchscreen Monitor	\$360.00	\$360.00
Control, Switching, Distribution				\$12,190.82
AT-HDR-H2H-88MA	1	Atlona - 4K/UHD HDR 8x8 HDMI Matrix Switcher	\$2,793.00	\$2,793.00
AT-VGW-HW-3	1	Atlona - Atlona Velocity Hardware Gateway for Control 3 Rooms	\$997.50	\$997.50
AT-VTP-1000VL-BL	1	Atlona - Velocity System 10" VESA Mount Touch Panel with LED (Black)	\$1,410.75	\$1,410.75
AT-VTP-VTM	1	Atlona - Tabletop Mounting Kit for Touch Panels	\$175.28	\$175.28
AT-AVA-EX70-KIT	3	Atlona - Avance 4K/UHD PoE HDMI Transmitter and Receiver Kit	\$359.81	\$1,079.43
AT-RACK-1RU-ME	1	Atlona - Atlona Multi-Extender 1RU Rack Shelf	\$109.73	\$109.73
AT-OME-EX-WP-KIT-L T	1	Atlona - Omega 4K/UHD HDMI Over HDBaseT TX Wallplate/RX	\$662.63	\$662.63
R9861511US	1	Barco ClickShare C-10	\$1,375.00	\$1,375.00
AMS-1816P	1	Luxul AV SERIES 18-Pt/16 PoE+ GbE Mngd Sw	\$743.75	\$743.75
32050	2	Magewell USB Capture SDI Plus	\$336.25	\$672.50
530400000	1	Magewell Ultra Encode HDMI	\$440.00	\$440.00
530500000	2	Magewell Ultra Encode SDI	\$440.00	\$880.00
BMD-HYPERD/ST/DA HM	1	Blackmagic HyperDeck Studio HD Mini	\$475.20	\$475.20
BMD-CONVMUDCSTD/ HD	1	Blackmagic Mini Converter - UpDownCross HD	\$148.80	\$148.80
SMART500RT1U	1	Tripp Lite SmartPro 500VA 300W 120V Line-Interactive UPS	\$227.25	\$227.25

Item	Qty	Description	Unit Cost	Total
		Audio		\$9,500.15
80-0206	1	Symetrix Radius NX 12x8 USB-B Programmable DSP	\$2,698.75	\$2,698.75
80-0152	1	Symetrix AEC Module, AEC-1 Single Core AEC Coprocessor	\$433.75	\$433.75
999-88100-000	1	Vaddio EasyUSB MicPOD Kit w/ (4) Microphones	\$2,946.50	\$2,946.50
509637	1	Sennheiser ew 100 G4-ME2-A Wireless lavalier set.	\$670.80	\$670.80
509725	1	Sennheiser ew 100 G4-835-S-A Wireless vocal set.	\$670.80	\$670.80
TX-J2	6	RDL TX-J2 Unbalanced Stereo to Balanced Mono Input Transformer	\$74.14	\$444.84
TX-A2	4	RDL TX-A2 Balanced Mono to Unbalanced Stereo Audio Converter	\$111.55	\$446.20
TX-RA5	3	RDL TX Series 19' Racking System - 5 modules 1RU	\$40.54	\$121.62
AT-GAIN-120	1	Atlona - 120W Amplifier, 4/8 Ohm x2, 70V/100V x1	\$687.56	\$687.56
AT-RACK-1RU	1	Atlona - 1 RU rack for GAIN and SW Families	\$86.21	\$86.21
CONTROL 24C MICRO	4	JBL All-In-One Ceiling Speaker System - Price Each - Sold In Pairs	\$73.28	\$293.12
		Fire Station 2 Equipment		\$5,385.19
R9861512US	1	Barco ClickShare CX-20 Wireless Conferencing System	\$1,770.00	\$1,770.00
BE65T-H	1	Samsung BET-H 65' Class 4K UHD Commercial LED TV	\$736.15	\$736.15
960-001336	1	Logitech Rally Bar Mini (Graphite)	\$2,879.04	\$2,879.04
		Installation Materials		\$2,378.61
Materials	1	Misc Installation Materials and Installation Supplies (lot).	\$2,378.61	\$2,378.61
		Labor		\$29,998.53
Installation	1	Installation Labor (lot). - Per Attached Scope.	\$29,998.53	\$29,998.53
		Warranty and Service Contract		\$3,571.43
SC-Std Warranty	1	This system comes with a 90 day installation warranty along with the various manufacturer's warranties - usually 1 year parts and labor.	\$0.00	\$0.00
SC-Silver	1	Z Systems Annual Service and Support Contract - Silver Level - Remote and On-Site Support. Includes email, telephone, remote access, and on-site troubleshooting services and installation of software updates. Does not include software, software updates, parts, repair costs, hardware warranties, manufacturer support and/or software assurance contracts.	\$3,571.43	\$3,571.43
		Shipping		\$0.00
Shipping	1	(Shipping Charges Will Be Added To The Final Invoice)	\$0.00	\$0.00

Please contact me if I can be of further assistance.

As an authorized representative of the organization listed above, I hereby order and agree to purchase these products and/or services from Z Systems based on the terms and conditions set forth in this agreement and the document 'Z SYSTEMS INC. Terms and Conditions' which can be found at zsyst.com/terms. All pricing quoted is subject to change / management approval at time of order entry/acceptance. Any returns, if accepted by our vendors, will be subject to a 20% restocking fee.

Subtotal	\$74,984.09
Sales Tax	\$0.00

Total	\$74,984.09
--------------	--------------------

SIGNATURE: _____



**City of
Ham Lake**

Fire Department

6/24/2022

Your Vision, Our Experience:

Ham Lake Fire Department

**Emergency Operations
Center / Training Room and
Conference Room AV
Upgrades**

**Proposal for Engineering,
Procurement, Installation,
Integration, and Training**

Introduction

Contents

Page 2	Introduction	Page 4	Our Team
Page 2	Design Requirements	Page 5	Our Work / References
Page 3	System Description	Page 5-6	Project Scope / Deliverables
		Page 7	System Diagram (Fire Station 1)

About Z Systems

Z Systems, Inc. is a professional video integrator, reseller, and rental house, specializing in the engineering, design, and integration of customized video and A/V systems. Z Systems is a small business based in St. Louis Park, MN.

Design Requirements

Ham Lake Fire Department would like to do audiovisual upgrades to an existing training room. They are looking for a system that is multi-purpose. There are, in general, three scenarios that the room will be used for:

- A training & conference room, in which people in this room will be observing and participating in trainings or meetings given by people in other locations, via Zoom or other soft conferencing codec.
- A training room, in which a presenter in this room will be conducting the training (or doing the presentation), with people in other locations observing and participating in the training via Zoom or other soft conferencing codec.
- An Emergency Operations Center, in which several displays may be used to show several different sources, and video conferencing will be available with another location as well.

Additionally, an upgraded display with video conferencing ability is needed at Fire Station 2.



Continued on Next Page...

System Description

System Description

Z Systems is proposing a new audiovisual system that includes the following:

- Two pan-tilt-zoom video cameras – A camera with speaker tracking on rear wall and a camera with speaker framing functionality on the front wall. Both will connect to a customer-supplied in-room PC.
- A new projector, two 65" TV screens and a 24" touchscreen. 65" displays will be mounted underneath each window on the front wall. 24" touchscreen will replace existing lectern touchscreen. New projector will be mounted in place of existing projector.
- Inputs to the system will be: A wireless presentation system, with one USB 'button,' a wall-mounted HDMI input, and two inputs for cable or streaming TV.
- A touch panel control system which will allow any source to be routed to any of the in-room displays. System will also control volume levels.
- Four (4) hanging array microphones, a lavalier (lapel) wireless microphone for a presenter, a handheld wireless microphone, four ceiling speakers, a new amplifier, and a new audio digital signal processor with acoustic echo cancellation.
- An SD card video recorder which will received an output from the matrix switcher.
- Two streaming encoders which will receive video signals from the two cameras and a third streaming encoder will receive the presentation/video conferencing application output. These signals will be encoded to be received at North Metro TV via RTMP.
- A satellite system at Fire Station 2, which will include a Logitech Rally Bar Mini video conferencing bar with a Barco CX-20 wireless conferencing system for BYOD video conferencing



Our Team

Company Background

- Number of years in business: **22 years**
- Taxpayer Identification Number: **41-2007713**
- Number of years working with government agencies: **12 years**
- Resumes of the project manager and key personnel who will be responsible for performance of any contract resulting from this RFP: **(see right)**
- Firm ownership and, if incorporated, the state in which the firm is incorporated and the date of incorporation: **Marjorie Zdechlik, incorporated on September 1, 1998, in the State of MN**

Z Systems has decades of combined experience in pro video and A/V integration. We are a team and a family. Here are the key Z Systems staff members you will be working with throughout this project:



Frederick Gotfredson | Account Manager freddieg@zsys.com

Freddie will function as the primary contact on this project, and his responsibility is to ensure clear communication among all parties and that any customer needs are met in a timely manner. Freddie has a passion for customer service. He brings with him a lifetime of experience in the world of multimedia production and design, having worked as a freelance audio and video producer, as well as a graphic, web, and print designer.



Jay Gallentine | Integration Manager and Lead Engineer jayg@zsys.com

As the leader of the integration department, Jay will serve as the lead engineer and project manager. He's been with Z Systems since 2000 and has run the integration department since 2007. His primary duties here are facility design & engineering, estimating jobs, and managing projects. Jay holds a Bachelor's Degree with Honors in Broadcasting and Film Production from the University of Iowa.



Jeremy Hauer | Technician and Audio Specialist jeremyh@zsys.com

Jeremy will be assisting in the installation and integration of this project. Jeremy has a background in engineering and construction, having worked as a television sound editor and construction contractor for a combined 22 years. Jeremy's education was in networking, and he has certifications from Atlona, Cisco, Microsoft, and Apple, as well as the ProTools media production suite.



Margie Zdechlik | Owner, President and Controller margiez@zsys.com

As the President of Z Systems, Margie is quintessential to all aspects of our business, including our company culture, our commitment to customer service and professionalism, and our business operations. As the controller, customers will interact with her on issues such as billing and shipping. When you call the main office line at Z Systems, Margie is often the one answering the phones as well.



Our Work

References

City of Ham Lake Denise Webster
(763) 245-1680
dwebster@ci.ham-lake.mn.us

City of Edina Scott Denfeld
(952) 903-5776
sdenfeld@edinamn.gov

City of Minneapolis C. John Harrison
(612) 673-2906
cjohn.harrison@ci.minneapolis.mn.us

City of Belle Plaine Amy Jirik
(952) 8735498
ajirik@ci.belleplaine.mn.us

City of Mound Catherine Pausche
(952) 472-0633
catherinepausche@cityofmound.com

City of Circle Pines Patrick Antonen
(763) 241-2605
pantonen@ci.circle-pines.mn.us

Lake Minnetonka Communications Commission Jim Lundberg
(952) 471-7125 jim@lmcc-tv.org

For further details, such as project start and end dates, descriptions, staff assigned and outcomes, please inquire.



Z Systems has decades of experience engineering and integrating customized A/V and video solutions. We have worked with city governments, houses of worship, educational institutions, professional sports teams, and Fortune 500 companies. Whatever the job, Z Systems has the experience to get it done correctly, on time and on budget.



City of Ham Lake Council Chambers HD Live Production System

The City of Ham Lake had an aging, standard definition live production system and the time had come for an upgrade. After fielding proposals from several different audiovisual integrators, they selected Z Systems. They noted that Z Systems proposal not only had a competitive cost, but that Z Systems was by far the most responsive vendor in terms of making site visits, returning emails and phone calls, as well as checking in to make sure they had no questions or concerns about the proposal.

Z Systems procured and integrated all of the equipment in the proposal, which included a Ross Carbonite Switcher with LCS control system, a new presentation system and a new audio system.

Although not a part of the original proposal, Z Systems took it upon themselves (*at no cost to Ham Lake*) to design and 3-D print specialty custom enclosures for the camera cabling, in order to achieve a concealed, professional look. Additionally, Z Systems repurposed some LED buttons which had been installed on the dais and mounted them on a specialty panel in the control room to allow the presentation system to be controlled from the chambers as well as the control room.

The installation process started and finished on the exact days which were initially agreed upon. Throughout the process, Z Systems sent daily emails to Ham Lake outlining the work that was done on each day of install, and what was to be done the next day. Ham Lake was so pleased with the quality of work and professionalism, they agreed to take part in a promotional video for Z Systems.

City of Mounds View City Council Chambers Live Production System

The City of Mounds View had very specific and complex requirements for their new council chambers production system. It was based on Panasonic HE-130 PTZ cameras, and required a 'simple mode' with DSP auto-mixing and switching based on Ross Lighting software and an 'advanced mode' with a mixing console and traditional switcher control panel. Additionally, the entire system is controllable via tablets as well, so that the video operator can be in the chambers during a meeting.



2401 Mounds View
Boulevard, Mounds
View, MN 55112

Contact:
Vanessa Van Alstine
612-868-9887

Scope of Work

Fire Station I

- Generation of CAD drawings of system audiovisual equipment and signal flow
- Travel to jobsite, load in.
- Staging of materials and unboxing of gear.
- Removal of existing unused equipment. Equipment will be set aside with no further attention given.
- Mounting of two TVs on wall.
- Cable pull to TV locations.
- Cable pull to camera locations on north and south wall.
- Mounting and configuration of 2 PTZ cameras – One speaker tracking camera and one speaker framing camera.
- Cable pull to ceiling speakers (four)
- Installation of ceiling speakers (four)
- Cable pull to ceiling microphones (four)
- Installation of ceiling microphones (four)
- Installation and configuration of wireless lavalier and handheld mic systems.
- Installation and configuration of monitor on lectern.
- Installation and configuration of matrix switcher.
- Installation and programming of touch panel on south wall.
- Installation and programming of audio DSP.
- Installation and configuration of Barco Clickshare wireless presentation system.
- Installation of three streaming encoders one for each camera and one from matrix switcher.
- Installation and configuration of network switch for control system.
- Installation and configuration of all other equipment, as indicated in quote and on diagram.
- Installation of 120W amplifier.
- Connection of signals to OFE PC.
- Testing and commissioning of system.
- Up to three hours training on system.
- Creation of binder book with manuals, drawings, contract information, etc.
- Clean up, load-out.



Scope of Work

Fire Station 2

- Installation of plywood backing board on front of TV cabinet.
- Installation of new 65" TV.
- Installation and configuration Logitech video conferencing system.
- Installation and configuration of Barco Clickshare conferencing system.
- Up to one-hour overview.

Scope does NOT Include:

All tasks not included on scope are gladly available on a time and materials basis.

Scope does not include any tasks not specifically mentioned above. Additionally, scope doesn't include:

- Configuration of room PC. This PC is owned and maintained by customer. Z Systems will test Zoom meeting functionality, but is not responsible for installing the software or any accounts on the Staff PC.
- Electrical. Customer must provide electrical outlets at TV locations, projector, rack, etc.
- Additional training sessions. All staff members who are expected to learn the system must be present at training. If additional training is needed, it will be billed at our standard rate.

Annual Service Contract

This proposal includes an annual service contract, which would include service calls on this system for one year from project signoff. **Customer is free to decline this service contract** – The system will still include our 90-day installation warranty.

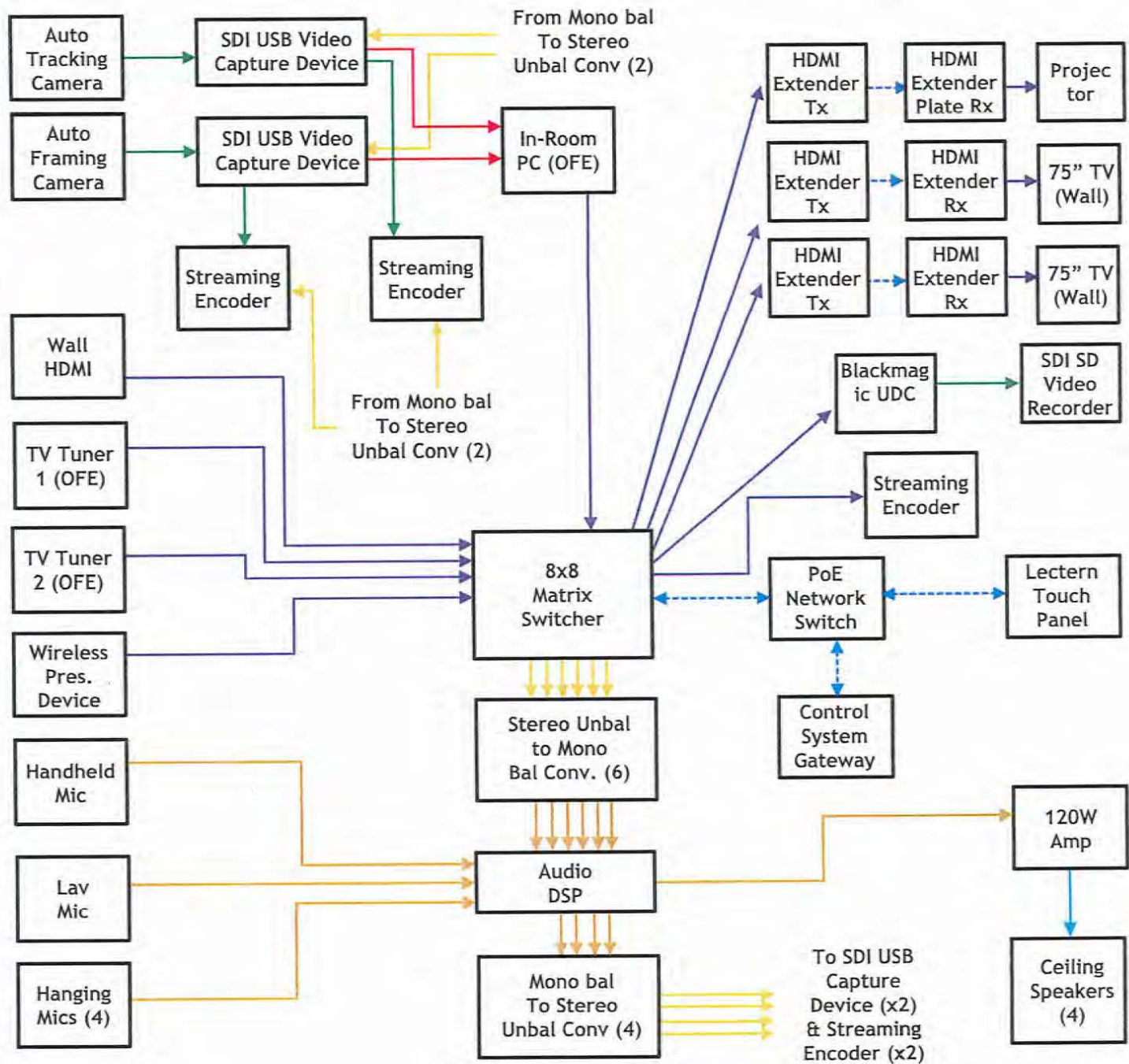
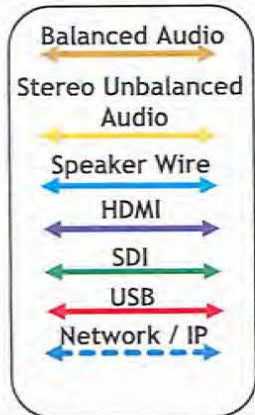


System Diagram

Note

This is a high-level connectivity diagram depicting basic signal flow. It may not include all converters, power, splitters, distribution amplifiers, etc. Diagram doesn't show all network connections

OFE= Owner Furnished Equipment



Meeting Date: July 5, 2022

CITY OF HAM LAKE

STAFF REPORT

To: Mayor and Councilmembers
From: Mike Raczkowski, Fire Chief
Item/Title/Subject: Firefighter's Approval as Regular Members

Introduction/Discussion:

The Seven firefighters listed below have served as probationary members since joining the department in March of 2021. They have since met the requirements listed in the department's regulations for removal of their probationary status. The regulations also require approval of the Ham Lake City Council for acceptance as regular members.

Firefighter Dan Beane	Firefighter Brandon Hanson	Firefighter Andrew Kuntz
Firefighter Damon Lucas	Firefighter Chandler Schahn	Firefighter Alexandru Schillo
Firefighter Bill Thorpe		

Recommendation:

I recommend acceptance of the above-named firefighters as regular members of the Ham Lake Fire Department.

RESOLUTION NO. 22-XX

WHEREAS, the City Council of the City of Ham Lake is required by MS 204B.21, Sec. 2, to officially approve the appointment of election judges; and

WHEREAS, the Ham Lake City Council hereby adopts the judges on the attached list, as the official judges for the August 9, 2022 Primary Election, with the understanding that amendments may be necessary to the appointments in order to fill vacancies and meet party requirements.

NOW THEREFOR, BE IT RESOLVED, that the names listed on the attached list are the official election judges for the August 9, 2022 Primary Election.

Adopted by the City Council of the City of Ham Lake this 5th day of July, 2022.

Brian Kirkham, Mayor

Denise Webster, City Clerk

Poll Worker Report, 2022 Statewide Election

Primary Election, Tuesday, August 9, 2022

Ham Lake P-1

Glen Cary Lutheran Church, 15531 Central Avenue NE, Ham Lake, MN 55304

Teresa Berglin, Head Judge
Jeanne Ullevig-Martin, Assistant Head Judge
Andrew Audette, Election Judge
Jill Bjornson, Election Judge
Philip Engelmeyer, Election Judge
James Gutz, Election Judge
Sandra Hanson, Election Judge
Brenda Hovet, Election Judge
John Rafalski, Election Judge
Dorothy Siegler, Election Judge
Duane Steele, Election Judge
Margaret Trautwein, Election Judge
David Urban, Election Judge
Jan Wymore, Election Judge

Ham Lake P-2

Ham Lake Senior Center, 15544 Central Avenue NE, Ham Lake, MN 55304

James Hunter, Head Judge
Tiffany Weeks, Assistant Head Judge
Rita Culshaw, Election Judge
Tina Giddings, Election Judge
Roxann Henderson, Election Judge
Rosemary Huray, Election Judge
Patty Kappelhoff, Election Judge
Roberta McCullough, Election Judge
Jacqueline Roub, Election Judge
Carolyn Soule, Election Judge
Fred Trosvik, Election Judge
Rebecca Urban, Election Judge
Daniel Van House, Election Judge

Ham Lake P-3

Oak Haven Church, 1555 Constance Boulevard NE, Ham Lake, MN 55304

Thomas Martin, Head Judge
Shannon Southerland, Assistant Head Judge
Jason Alinder, Election Judge
Brian Berglin, Election Judge
Ronda Dick, Election Judge
Mary Ann Egan, Election Judge
Shannon Fletcher, Election Judge
Roger Langerud, Election Judge
JoAnn Lindgren, Election Judge
Michael Marchand, Election Judge
Doreen Pelkey, Election Judge
Kristi Phetdara, Election Judge
Laura Regino, Election Judge
Paul Schultz, Election Judge
Carol Wawers, Election Judge
Mark Welter, Election Judge

Ham Lake P-4

Eagle Brook Church - Ham Lake Campus, 1503 157th Avenue NE, Ham Lake, MN 55304

Poll Worker Report, 2022 Statewide Election

Timothy Hanschen, Head Judge
Jean Doolittle, Assistant Head Judge
Patricia Callahan, Election Judge
Gary Glauner, Election Judge
Edward Hagenbuch, Election Judge
Joann Herman, Election Judge
Kim Hogdal, Election Judge
Jeffrey Holec, Election Judge
Susan Klecker, Election Judge
Paulette Kostick, Election Judge
John Lund, Election Judge
Bradley Nelson, Election Judge
Troy Neurauter, Election Judge
Wendy O'Neil, Election Judge
Dale Ocker, Election Judge
Jay Thorson, Election Judge

Ham Lake P-5

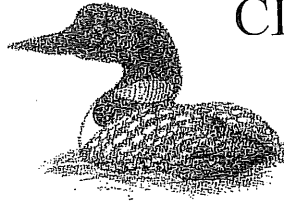
Radisson Road Baptist Church, 13627 Radisson Road NE, Ham Lake, MN 55304

Janis Antinozzi, Head Judge
Carl Schwanbeck, Assistant Head Judge
Rebecca Hagenbuch, Election Judge
Mary Jirak, Election Judge
Gaelen Kesler, Election Judge
Gail Loverud, Election Judge
Patrick Maher, Election Judge
Stephen Petersen, Election Judge
Corinne Seltz, Election Judge
Allen Stauffacher, Election Judge
Judy Wilken, Election Judge

Ham Lake P-6

Church of Saint Paul, 1740 Bunker Lake Blvd NE, Ham Lake, MN 55304

Rebecca Cook, Head Judge
Dixie Steele, Assistant Head Judge
Marcia Akhter, Election Judge
Cheryl Alberts, Election Judge
Darleen Baillargeon, Election Judge
Carrie Brandel, Election Judge
Ruth Castle, Election Judge
Thomas Culshaw, Election Judge
James Kappelhoff, Election Judge
Stephen Kesler, Election Judge
Laura Klimisch, Election Judge
Paula Lang, Election Judge
Shari Lero, Election Judge
Janet Liebsch, Election Judge
Sharon Wolfram, Election Judge



CITY OF HAM LAKE

15544 Central Avenue NE
Ham Lake, Minnesota 55304
(763) 434-9555
Fax (763) 434-9599

CITY OF HAM LAKE PLANNING COMMISSION AGENDA MONDAY, JUNE 27, 2022

CALL TO ORDER: 6:00 p.m.

PLEDGE OF ALLEGIANCE

APPROVAL OF MINUTES: June 13, 2022

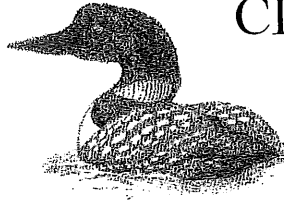
PUBLIC HEARING: None

NEW BUSINESS:

1. Gary Houle, Lino Lakes Landscaping, requesting Sketch Plan approval for Bluegrass Estates 3rd Addition (16 single family residential lots) located in Section 01
2. Larry Schwartz requesting Sketch Plan approval for Schwartz Estates (3 single family residential lots) located in Section 23

COMMISSION BUSINESS:

1. City Council Update



CITY OF HAM LAKE

15544 Central Avenue NE
Ham Lake, Minnesota 55304
(763) 434-9555
Fax (763) 434-9599

CITY OF HAM LAKE PLANNING COMMISSION MINUTES MONDAY, JUNE 27, 2022

The Ham Lake Planning Commission met for its regular meeting on Monday, June 27, 2022 in the Council Chambers at Ham Lake City Hall located at 15544 Central Avenue NE in Ham Lake, Minnesota.

MEMBERS PRESENT: Chair Brian Pogalz and Commissioners Dave Ringler, Scott Heaton, Jeff Entsminger and Jonathan Fisher

MEMBERS ABSENT: Commissioners Kyle Lejonvarn and Erin Dixon

OTHERS PRESENT: City Engineer, Tom Collins and Building and Zoning Clerk, Jennifer Bohr

CALL TO ORDER: Chair Pogalz called the meeting to order at 6:00 p.m.

PLEDGE OF ALLEGIANCE:

The pledge of allegiance was recited by all in attendance.

APPROVAL OF MINUTES:

Motion by Ringler, seconded by Fisher, to approve the minutes of the June 13, 2022 Planning Commission meeting as written. All present in favor, motion carried.

PUBLIC HEARING: None

NEW BUSINESS:

Gary Houle, Lino Lakes Landscaping, requesting Sketch Plan approval for Bluegrass Estates 3rd Addition (16 single family residential lots) located in Section 01.

Mr. Gary Houle was present. Chair Pogalz stated the overall Bluegrass Estates Sketch Plan was approved in 2003 and Preliminary Plat approval was in 2005; due to the length of time that has passed, and some minor revisions, a Sketch Plan for the third phase has been submitted. Engineer Collins stated there are 16 lots proposed in the third addition and 6 lots proposed in a future fourth addition. Engineer Collins stated the temporary cul-de-sac in the southerly portion of the 16-lot development will be extended to the Lexington Avenue NE and Broadway Avenue NE intersection when the future 6 lot development is constructed; the alignment proposed for that street extension is different than what was approved in 2005. Engineer Collins stated 178th Avenue NE is the northern most outlet to Lexington Avenue NE, a County roadway. Engineer Collins stated that the Anoka County Highway Department wanted northbound and southbound

turn lanes constructed at the Lexington Avenue NE and Broadway Avenue NE intersection when they reviewed this development years ago; there may be turn lane and/or bypass lane requirements at 178th Avenue NE outlet. Engineer Collins stated a 20-foot trail easement to be dedicated on the east side of the development, adjacent to Anoka County right-of-way, is impacting livability requirements for Lot 5. Engineer Collins stated Section 10-302.C of the City Code is not clear as to whether or not trail easements can encroach into yard areas; a message will be sent to the City Attorney to clarify this. Engineer Collins stated the variance should be granted as the lot would meet livability requirements if a trail easement was not required. Engineer Collins stated he would recommend a variance to the 300-foot intersection spacing from Lexington Avenue NE to the proposed Stutz Street NE at 178th Avenue NE due to the significant amount of resulting wetland impacts if Stutz Street NE is moved further west to meet the 300-foot intersection spacing from Lexington Avenue NE. Engineer Collins stated in 2004 and 2006 the Park and Tree Commission recommended the dedication of a 20-foot trail easement along Lexington Avenue NE and that the developer should obtain approval for wetland impacts and wetland mitigation associated with the future construction of the trail by the City; the value of the 20-foot trail easement and the cost of the wetland mitigation study should be deducted from the parkland dedication fee. Engineer Collins stated Public Works Superintendent John Witkowski does not recommend acquiring any additional land, beyond what has already been dedicated for the 6.95-acre park. Engineer Collins stated the majority of the proposed development is within a FEMA, Zone A, 100-year flood boundary; Letters of Map Amendment (LOMA) will be required. Engineer Collins stated the plat will require approval from two watersheds-the Coon Creek Watershed District (CCWD) and the Sunrise River Watershed District. **Motion by Pogalz, seconded by Ringler, to recommend approval of the Bluegrass Estates 3rd Addition Sketch Plan presented by Gary Houle, Lino Lakes Landscaping, for a 16-lot single family residential plat located in Section 01 subject to obtaining a variance to the yard area requirement due to the City requiring a 20-foot trail easement along Lexington Avenue NE, obtaining a variance to the 300-foot intersection spacing from Lexington Avenue NE to the proposed Stutz Street NE at 178th Avenue NE due to the amount of wetland to the west of Stutz Street NE, obtaining a 20-foot trail easement west of Lexington Avenue NE, the developer obtaining approval for wetland impacts and wetland mitigation associated with constructing the trail, accepting money in lieu of parkland deducting the value of the trail and the cost of the wetland mitigation study from monies due, meeting the requirements of the City Engineer and meeting all City, State and County requirements. All present in favor, motion carried. This item will be placed on the July 5, 2022 City Council Agenda.**

Larry Schwartz requesting Sketch Plan approval for Schwartz Estates (3 single family residential lots) located in Section 23.

Mr. and Mrs. Larry Schwartz were present. Chair Pogalz asked Engineer Collins to comment on the plat. Engineer Collins stated the plat consists of three lots and it will be reviewed as a minor plat. Engineer Collins stated the current zoning is Rural Single Family Residential (R-A), the proposed zoning is Single Family Residential (R-1). Engineer Collins stated the plans show an existing house and accessory building on Lot 1 which are to be removed. Engineer Collins stated a septic compliance inspection is not

required for Lot 1 with the existing structures as soil borings for the proposed septic system on that lot have already been done. Engineer Collins stated the wetland boundary on the plans in the southeast corner of the plat will need to be modified as the wetland area is larger than what is shown on the sketch plan; the approximate southerly third of the proposed plat is designated as FEMA Flood Zone A, the final plans will need to show the Zone A boundary; CCWD approval is needed for the plat although CCWD has confirmed that the process of platting 3 lots on this property does not trigger their stormwater requirements. Engineer Collins stated Public Works Superintendent John Witkowski recommends accepting money in lieu of parkland for this plat; a \$2500 parkland fee and a \$200 drainage fee will be required for each lot in the plat; the fees will have to be paid before a building permit can be issued; there will not be any road improvements in this development so there will not be a development agreement. Engineer Collins stated the existing fence in the 155th Avenue NE right-of-way will need to be removed and that will need to be shown on the preliminary/final plat submittal. Mr. Schwartz stated the home that was on Lot 1 has already been removed but the pole barn is not proposed to be removed. Engineer Collins stated the preliminary/final plat submittal will need to verify that the accessory building complies with City Code. **Motion by Pogalz, seconded by Heaton, to recommend approval of the Schwartz Estates Sketch Plan presented by Larry Schwartz, for a 3-lot single family residential plat located in Section 23 subject to the removal of the house on Lot 1, removal of the existing fence within the 155th Avenue NE right-of-way, accepting money in lieu of parkland, meeting the requirements of the City Engineer and meeting all City, State and County requirements. All present in favor, motion carried. *This item will be placed on the July 5, 2022 City Council Agenda.***

COMMISSION BUSINESS:

City Council Update

A commissioner was not present at the June 20, 2022 City Council meeting; no update was given. A Planning Commissioner will not be present at the July 5, 2022 City Council meeting.

ADJOURNMENT:

Motion by Heaton, seconded by Fisher, to adjourn the Planning Commission meeting at 6:27 p.m. All present in favor, motion carried.

Jennifer Bohr
 Building and Zoning Clerk



CITY OF HAM LAKE

PLANNING REQUEST

15544 Central Avenue NE

Ham Lake, MN 55304

Phone (763) 434-9555 Fax (763) 235-1697

Date of Application 6-13-22

Date of Receipt 6-13-22

Receipt # 93029

Meeting Appearance Dates:

Planning Commission 6-27-22

City Council _____

Please check request(s):

- Metes & Bounds Conveyance
- Sketch Plan
- Preliminary Plat Approval*
- Final Plat Approval
- Rezoning*
- Multiple Dog License*

- Commercial Building Site
- Certificate of Occupancy
- Home Occupation Permit
- Conditional Use Permit (New)*
- Conditional Use Permit (Renewal)
- Other

**NOTE: Advisory Signage is required for land use alterations and future road connections. This application also requires a Public Hearing. Such fees shall be deducted from deposit.*

Development/Business Name: Blue Heron Estates 3rd Add

Address/Location of property: _____

Legal Description of property: Outlot A, Bluegrass Estates 2nd Add.

PIN # 01-32-23-41-0006 01-32-23-42-0010 + Current Zoning R-A Proposed Zoning R-1

Notes: _____

16 single family lots

Applicant's Name: GARY HOWE

Business Name: _____

Address 18400 Lea Ave

City Wyong State MN Zip Code 55092

Phone _____ Cell Phone 651 497 0382 Fax _____

Email address _____

You are advised that the 60-day review period required by Minnesota Statutes Chapter 15.99 does not begin to run until all of the required items have been received by the City of Ham Lake.

SIGNATURE [Signature] DATE Jun 13 22

- FOR STAFF USE ONLY -

ACTION BY: Planning Commission _____
City Council _____

PROPERTY TAXES CURRENT () YES NO

Memorandum

Date: June 22, 2022

To: Planning Commissioners

From: Tom Collins, City Engineer

Subject: Bluegrass Estates 3rd Addition Sketch Plan

Introduction:

The proposed 16-lot residential development is located on the 51.6 acre combined area of parcels 01-32-23-14-0004, 01-32-23-41-0006 and 01-32-23-42-0010. The Sketch Plan also includes a future 6-lot residential development within the southeast 21.05 acres. A lot line adjustment will be needed for the future phase. The parcels are already zoned Single Family Residential (R-1). A 400-scale aerial photo, 400-scale half-section map and 600-scale zoning map are attached. The proposed 16-lot development and future phase are within Outlot A of the attached plat of Bluegrass Estates 2nd Addition.

Discussion:

The overall Bluegrass Estates development, including the 2 phases already constructed, received Sketch Plan approval at the April 21, 2003 City Council meeting and Preliminary Plat approval at the February 22, 2005 City Council meeting. The approved Sketch Plan is attached. The Bluegrass Estates 3rd Addition is back to sketch plan phase due to the long period of time that has passed since prior approvals.

The street network within the southerly portion of the 16-lot development ends in a temporary cul-de-sac, that will be extended to the Lexington Avenue NE and Broadway Avenue NE intersection with the future 6-lot residential development. Note that the alignment is different from the Sketch Plan approved at the February 22, 2005 City Council meeting. The updated alignment reflects the attached March 29, 2006 Preliminary Plat alignment for Lexington Oaks. The Lexington Oaks development application was subsequently withdrawn.

10-302 of City Code requires a minimum of 29,500 square feet of septic area (7,500 square feet), building pad (10,000 square feet and yard area (12,000 square feet). The Plan includes a Lot 5 note that a variance is required to accommodate the trail easement. The total "yard area" of 26,222 square feet is less than required 29,500 square feet. There is an additional 5,232 square feet within the 20-foot trail easement that is excluded from the 26,222 square feet, for a total of 31,454 square feet. The 10-302 area requirements would be met if the 20-foot trail easement was not required. 10-302C does allow for areas reserved by easement or otherwise for other public utility purposes, but may not encroach into any other area reserved by dedication or otherwise for road or drainage purposes. Although 10-302C does not specify whether trail easements can be included, it is recommended that a variance to the yard area be approved, per the attached 10-600, due to the required dedication of the 20-foot trail easement.

The attached Figure 32 of the Anoka County Highway Department's 2040 Transportation Plan identifies Lexington Avenue NE (County State Aid Highway 17) as a minor arterial. The minimum CSAH 17 intersection spacing of 1,320 feet is exceeded with the proposed 178th Avenue NE connection and future

connection at Broadway Avenue NE with the 6-lot future phase. Anoka County Highway Department (ACHD) approval is needed of the proposed connections, right-of-way width, trail location or whether a right turn lane and/or bypass lane will be required at the 178th Avenue NE connection. The 2006 combined ACHD review of Bluegrass Estates 2nd Addition and Lexington Oaks is attached for reference.

Per the attached Resolution 05-10, the minimum intersection spacing from arterial Lexington Avenue NE is 300-feet. The proposed Stutz Street NE alignment does not meet this 300-foot requirement. It is recommended that a variance to 300-foot intersection be approved, per the attached 10-600, due to the significant amount of wetland impacts that would result to meet the intersection spacing requirement.

A 6.95 acre park was dedicated with the Bluegrass Estates 2nd Addition, which was more than the maximum amount of land required of 4.22 acres. The Developer voluntarily dedicated more than the City could legally require. A 20-foot wide trail easement is shown, per the attached December 15, 2004 Park and Tree Commission recommendations. The Park and Tree Commission, per the attached June 21, 2006 meeting minutes, also recommended that the Developer obtain approval for wetland impacts and wetland mitigation associated with constructing the trail in the future by the City. The Parkland Dedication Fee in the Development Agreement will be reduced by the value of the 20-foot wide trail easement and the cost for wetland mitigation. Per correspondence with Public Works Superintendent John Witkowski, additional parkland dedication other than the 20-foot trail easement is not recommended.

The majority of the proposed development is within the Anoka County 2015 FEMA Zone A 100-year flood boundary. Letter of Map Amendments (LOMAs) will be required. The adjacent Bluegrass Estates 2nd Addition was also within the FEMA Zone A, but LOMAs were approved for all lots within that designation per the attached 400-scale exhibit.

The southeast portion of the development is located within the jurisdictional boundary of the Coon Creek Watershed District (CCWD), and the remainder within the Sunrise River Watershed Management Organization (SRWMO). A portion of the development within the SRWMO is hydraulically within the CCWD. CCWD approval is required as is compliance with SRWMO Watershed Management Plan and regulatory standards. That portion of the development within the jurisdictional boundary of the CCWD is classified as drainage sensitive land uses, meaning that downstream lands are dependent upon removal of water from the soil profile for their continued use. The CCWD will require that post development 100-year discharge rates do not exceed pre development 25-year rates.

The Natural Heritage Information System data review by the DNR is required to determine whether any state-protected species may be located within the plat boundary. The parcels are not located within any of the 20 major natural resource clusters identified in the Anoka Conservation District's April 2008 Natural Resources Inventory and Assessment (NRIA), per the attached "Map 3". The NRIA is Appendix S of the Storm Water Pollution Prevention Plan.

Recommendation:

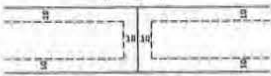
It is recommended that the Bluegrass Estates 3rd Addition Sketch Plan be recommended for approval, including a variance to the yard area for Lot 5 and a variance to the Stutz Street NE intersection spacing from Lexington Avenue NE. The preliminary plat submittal is to include the costs associated with obtaining approval of the wetland mitigation costs associated with constructing the trail in the future.

CONCEPT PLAN

for LINO LAKES LANDSCAPING
of BLUEGRASS ESTATES 3RD ADDITION

TYPICAL EASEMENTS

(NOT TO SCALE)



10 FEET UTILITY EASEMENT FROM CENTERLINE OF UTILITY LINES AND 10 FEET UTILITY EASEMENT FROM CENTERLINE OF UTILITY LINES UNLESS OTHERWISE SHOWN.

PROPERTY DESCRIPTION

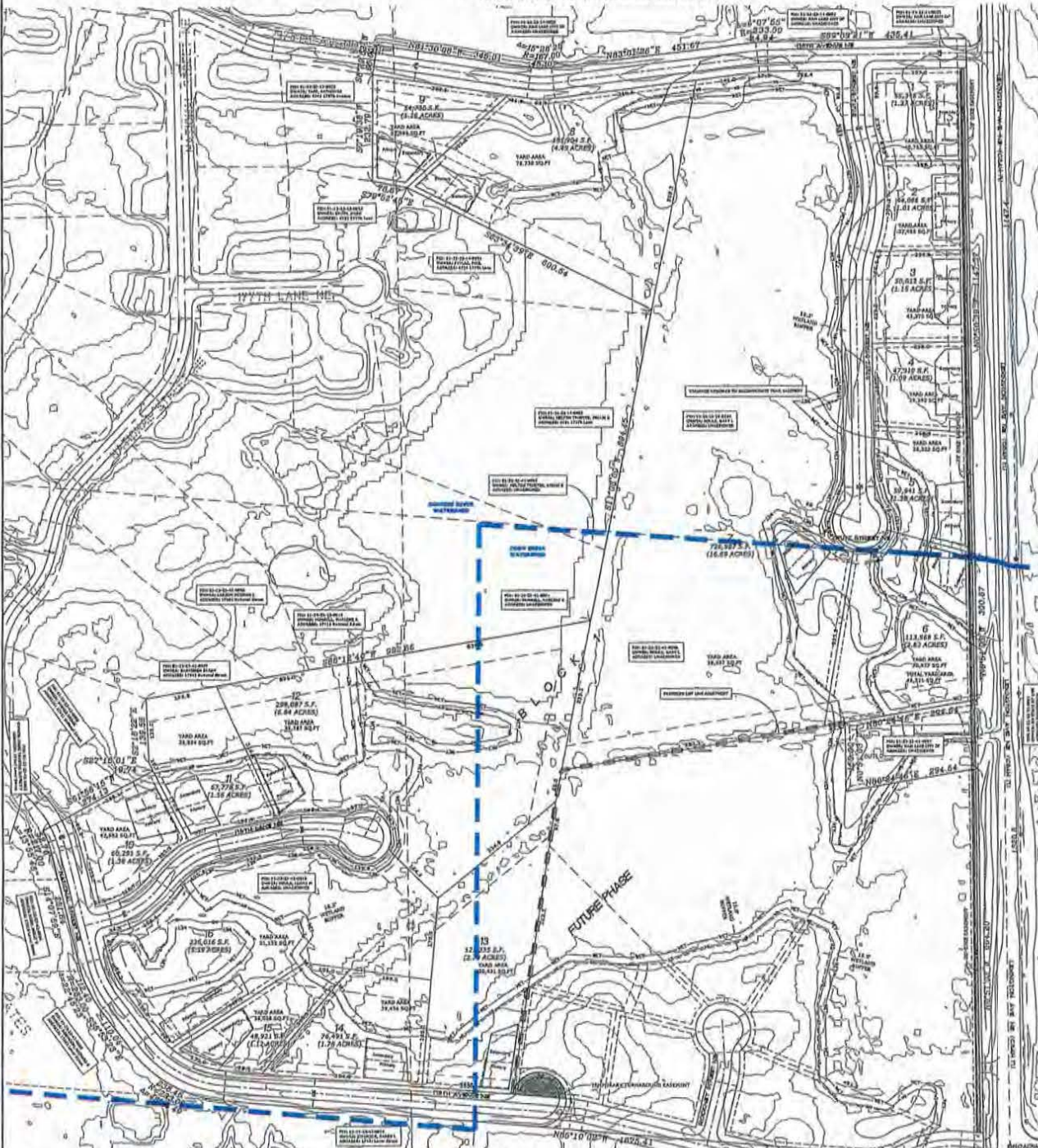
SOUTH A, BLUEGRASS ESTATES SECOND ADDITION, ANOKA COUNTY, MINNESOTA

NOTES

- 1. Hearings shown are an Anoka County delin.
- 2. This survey was prepared without the benefit of title work. Additional easements, restrictions and/or encroachments may exist other than those shown herein. Survey subject to review upon receipt of a current title commitment or an attorney's title opinion.
- 3. Total lot areas are calculated to avoid cumulative per centum.
- 4. Wetlands delineated by K&H Environmental Services, Inc.
- 5. Parcel ID #'s: 01-92-23-41-0206, 01-92-23-42-0210, and 01-92-23-34-0204.

DEVELOPMENT DATA

TOTAL SITE AREA = 72.634 ACRES (INCLUDING FUTURE PHASE)
TOTAL SITE AREA = 51.628 ACRES (INCLUDING FUTURE PHASE)
18 PROPOSED SINGLE FAMILY LOTS
AVERAGE LOT SIZE = 2.328 ACRES
MINIMUM STREET FRONTAGE = 100 FEET
MINIMUM LOT SIZE = 1.00 ACRES (INCLUDING HALF OF STREET ROW)
PROPOSED ZONING = R-1
BUILDING SETBACKS: FRONT = 30 FEET, REAR = 10 FEET, COUNTY ROAD = 30 FEET



LEGEND

- EXISTING FROM PREVIOUS RECORDS OR EXISTING
- EXISTING FROM HIGHWAY DEPT, HARBOR PLANT EXIST
- EXISTING EXISTING OUTLINE
- EXISTING LOTS 1' AND/OR PORTALS
- EXISTING UTILITY RIGHTS (12" OF WIDTH OR SMALLER SIZE) (WETLANDS, AND OTHER WIDE WADERS (UNDER TOLERANCE))
- EXISTING ROAD LINE

E. G. RUD & SONS, INC.
Professional Land Surveyors
6776 Lake Drive NE, Suite 110
Lino Lakes, MN 55014
Tel. (651) 361-0200 Fax (651) 361-6701



NORTH

I hereby certify that this survey, plan 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.

JACOB B. RUD
Date: 5/2/2022 License No. 43376

NO.	DATE	DESCRIPTION	BY
1			
2			
3			



1" = 400'

N 1/2 SECTION 1, T. 32, R. 23

CITY OF HAM LAKE

CITY OF EAST BETHEL



1"=400'



ANOKA COUNTY
SURVEYOR'S OFFICE
ROOM 224
2100 3RD AVENUE
ANOKA, MN 55303
(763) 324-3200

QUARTER QUARTER INDEX

22	21	12	11	NORTH HALF OF SECTION
23	24	13	14	
32	31	42	41	SOUTH HALF OF SECTION
33	34	43	44	

PROPERTY IDENTIFICATION NUMBER

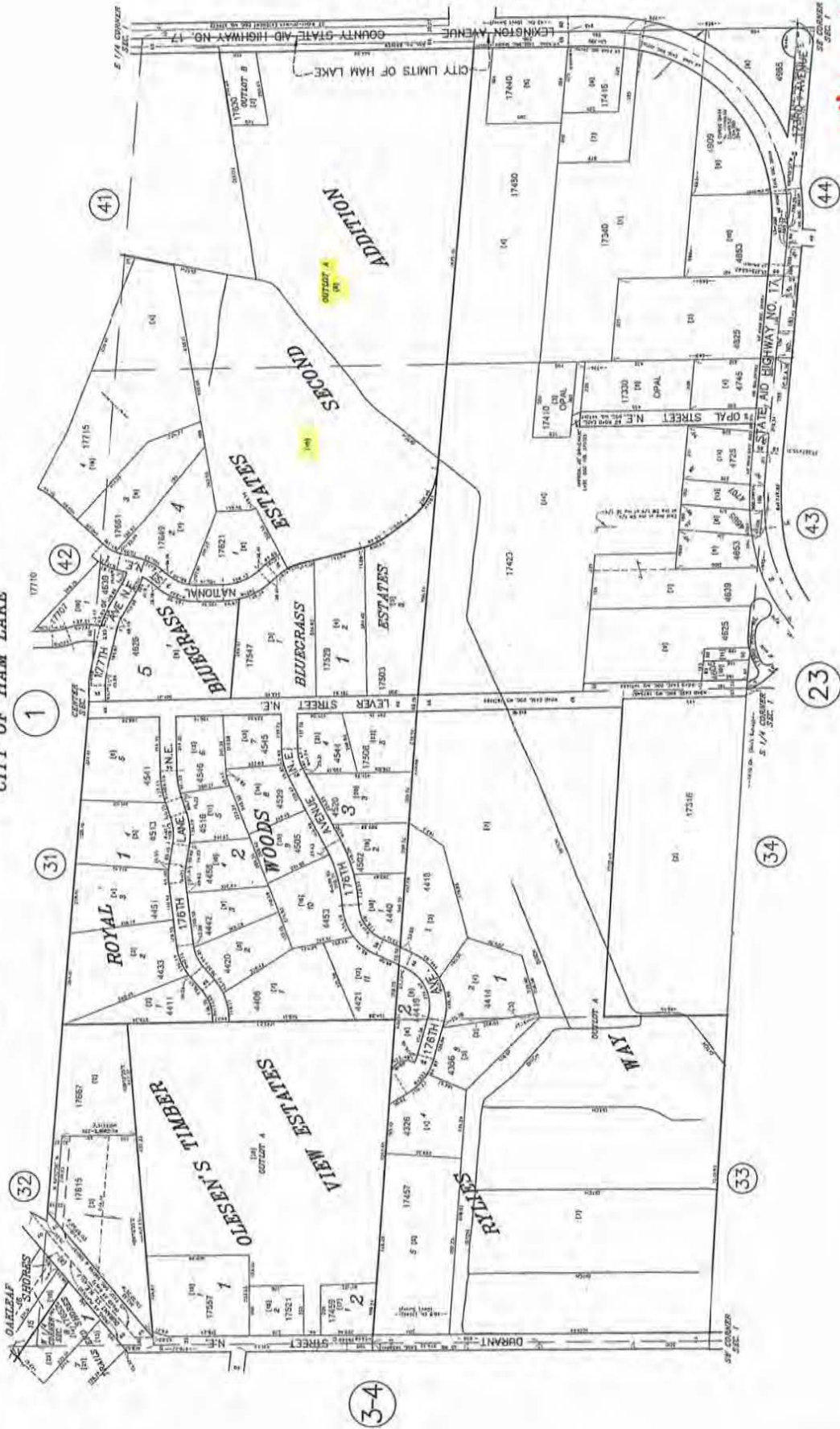
Section	Township	Range	Quarter	Specific
Number	Number	Number	Number	Number
XX	XX	XX	XX	XXXX

SPECIFIC PARCEL NUMBERS ARE IN BRACKETS (1)
© 1994 ANOKA COUNTY SURVEYOR'S OFFICE

THIS IS A COMPILATION OF RECORDS AS THEY APPEAR IN THE ANOKA COUNTY OFFICES AFFECTING THE AREA SHOWN. THIS DRAWING IS TO BE USED ONLY FOR REFERENCE PURPOSES AND THE COUNTY IS NOT RESPONSIBLE FOR ANY INACCURACIES HEREIN CONTAINED.

S 1/2 SECTION 1, T. 32, R. 23

CITY OF HAM LAKE



THIS IS A COMPILATION OF RECORDS AS THEY APPEAR IN THE ANOKA COUNTY RECORDS. THE DRAWING IS TO BE USED ONLY FOR REFERENCE PURPOSES AND THE COUNTY IS NOT RESPONSIBLE FOR ANY INACCURACIES THEREIN CONTAINED.

PROPERTY IDENTIFICATION NUMBER
 Section Township Range Quarter Specific
 Number Number Number Parcel Parcel
 XX XX XX XX XX XXXX
 SPECIFIC PARCEL NUMBERS ARE IN BRACKETS: (1)
 EXAMPLE: (1) 11 24 43 41 44

QUARTER-QUARTER INDEX

NORTH HALF OF SECTION		SOUTH HALF OF SECTION	
22	21	12	11
20	19	10	9
18	17	8	7
16	15	6	5
14	13	4	3
12	11	2	1

ANOKA COUNTY SURVEYORS OFFICE
 ROOM 234
 2100 MAD AVE
 ANOKA, MN 55303
 (763) 324-3200



R-A

R-1

R-A

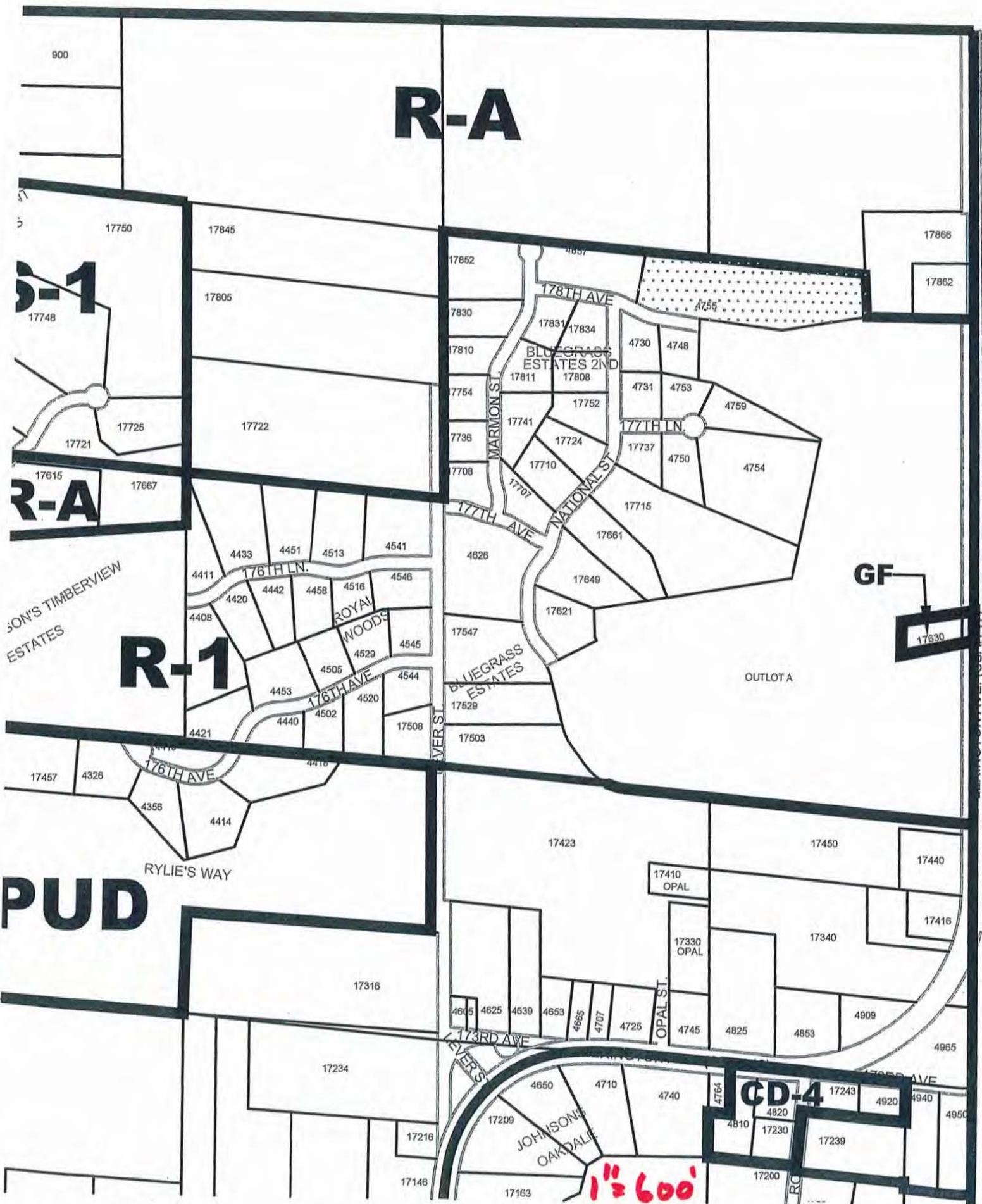
R-1

GF

PUD

CD-4

1" = 600'



SON'S TIMBERVIEW
ESTATES

JOHNSON'S
OAKDALE

BLUEGRASS
ESTATES

BLUEGRASS
ESTATES 2ND

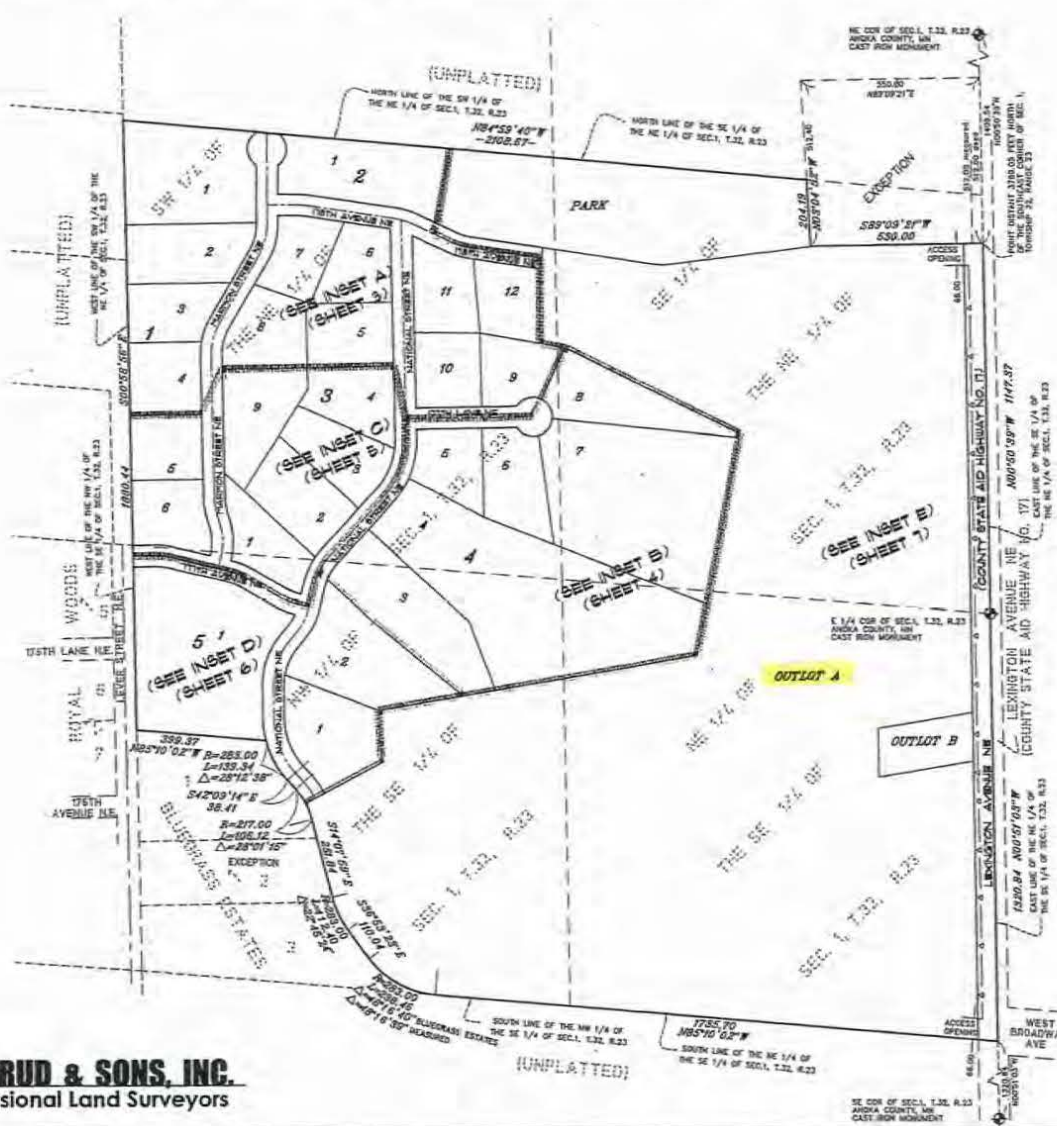
ROYAL
WOODS

RYLIE'S WAY

OUTLOT A

RC

BLUEGRASS ESTATES SECOND ADDITION

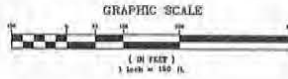


- DENOTES ANOKA COUNTY MONUMENT AS LABELED
- DENOTES 1/2 INCH FOUND IRON MONUMENT MARKED R.I.S. NO. 41578, UNLESS OTHERWISE NOTED.
- DENOTES A 1/2 INCH BY 18 INCH IRON PIPE MARKED R.I.S. NO. 41578, WHICH HAS BEEN OR WILL BE SET WITHIN ONE YEAR AFTER THE RECORDING DATE OF THIS PLAT, UNLESS OTHERWISE NOTED.
- DENOTES WET LAND LINE
- DENOTES RIGHT OF ACCESS DEDICATED TO ANOKA COUNTY.

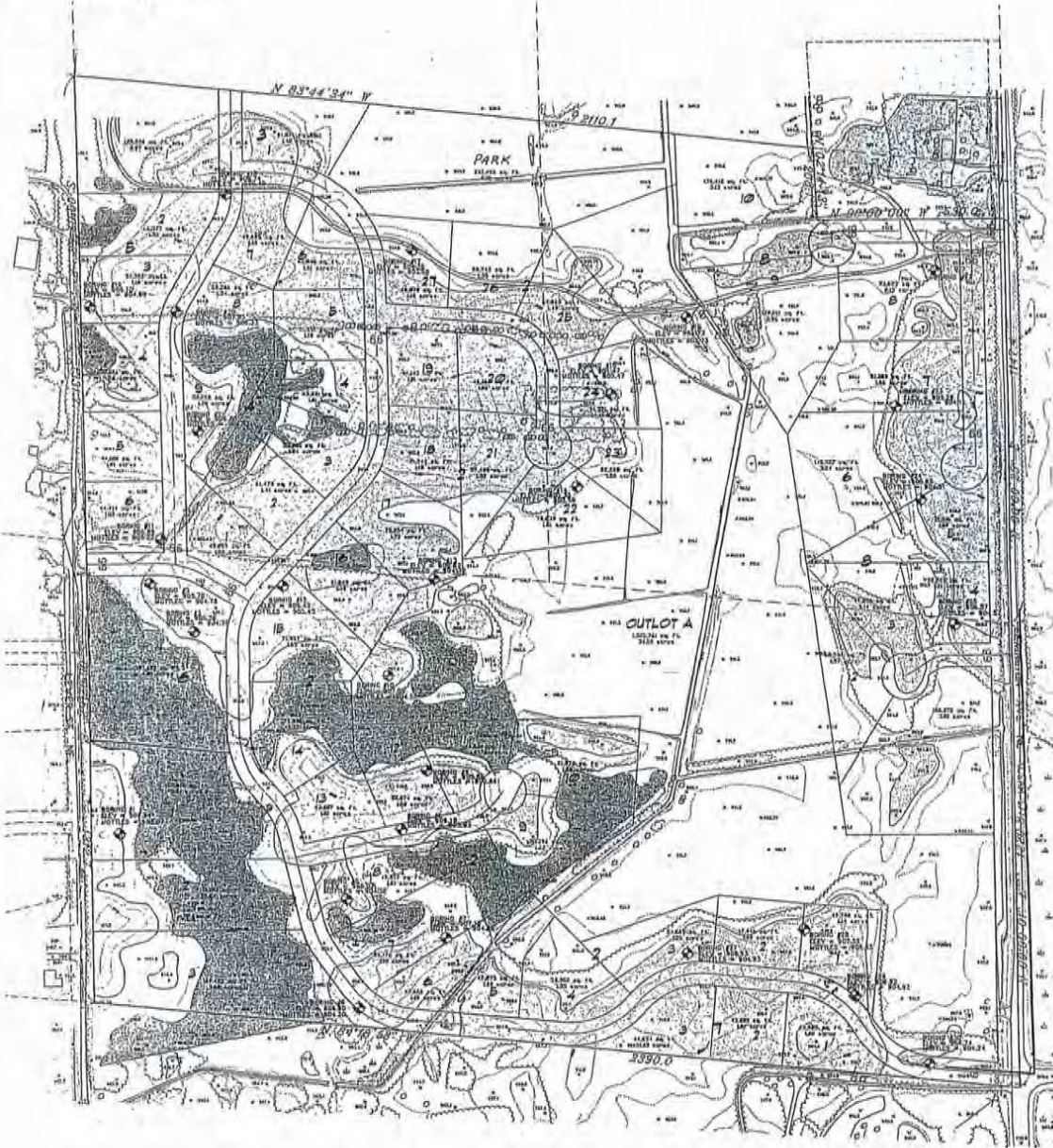
For the purpose of this plat the West line of the Northeast Quarter of Section 1, Township 32, Range 23, Anoka County, Minnesota has a bearing of $202^{\circ}56'56''E$.

BLUEGRASS ESTATES

CONCEPT PLAN - *Approved 2/22/05*



FOR:
GARY HOULE
18400 LEXINGTON AVE.
WYOMING, MN 55092
Tel. (651) 464-6076



DEVELOPMENT STANDARDS:

- PROPOSED AND EXISTING ZONING = R-1
- P.A. REQUIREMENTS:
 - * FRONT SETBACK = 30 FEET
 - * REAR SETBACK = 35 FEET
 - * SIDE SETBACK = 10 FEET
- * MINIMUM LOT WIDTH = 100 FEET
- * MINIMUM LOT WIDTH ON 104-00-142 = 80 FEET @ R/W
- * MINIMUM LOT AREA = 1.0 ACRES
- * MINIMUM BUILDABLE AREA = 18000 SQ FT ± FT ABOVE OUTLETS (THIS MAY BE USED TO CREATE DOUBLE GARAGE AREAS)
- * I.P.S. AREA = 1500 SQ FT ± FT ABOVE OUTLETS (THIS MAY BE CONTRIBUTED AS CONTAINMENT UNDEVELOPED SOCS)
- * JOHANNI YARD AREA = 76200 SQ FT ± FT ABOVE 100' NEAR HIGH WATER LEVEL.

LEGEND

- REVEALS WETLAND INDICATED BY POTENTIAL ECOLOGICAL DATA
- EASEMENT AND BOUNDARY
- UTILITIES AND TIE LINES
- DRIVEWAYS & FOOT COUNTERS

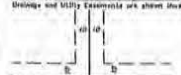
NO.	DATE	DESCRIPTION	BY
1	12-31-04	LAYOUT REVISIONS	AND
1	01-22-05	1. STUDY REVISIONS	AND

JOB NUMBER 02.450 PP

I hereby certify that this survey, plan 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.



EASEMENT DETAIL:



Being 10 feet in width with existing street and rear lines, unless otherwise indicated, and 10 feet in width and extending side of line, unless otherwise indicated.

SURVEY NOTES:

- 1) THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF CURRENT TITLE WORK, EASEMENTS AND ENCUMBRANCES MAY EXIST IN ADDITION TO THOSE SHOWN THEREON. THIS SURVEY IS SUITED TO REFLECT UPON RESULTS OF CURRENT TITLE WORK.

DEVELOPMENT STATISTICS:

- * TOTAL SITE AREA = 10478 ACRES (ENVELOPING R/W)
- * TOTAL OUTLOT AREA = 41.43 ACRES
- * TOTAL NUMBER OF PROPOSED LOTS = 37 LOTS
- * AVERAGE PROPOSED LOT SIZE = 282 ACRES

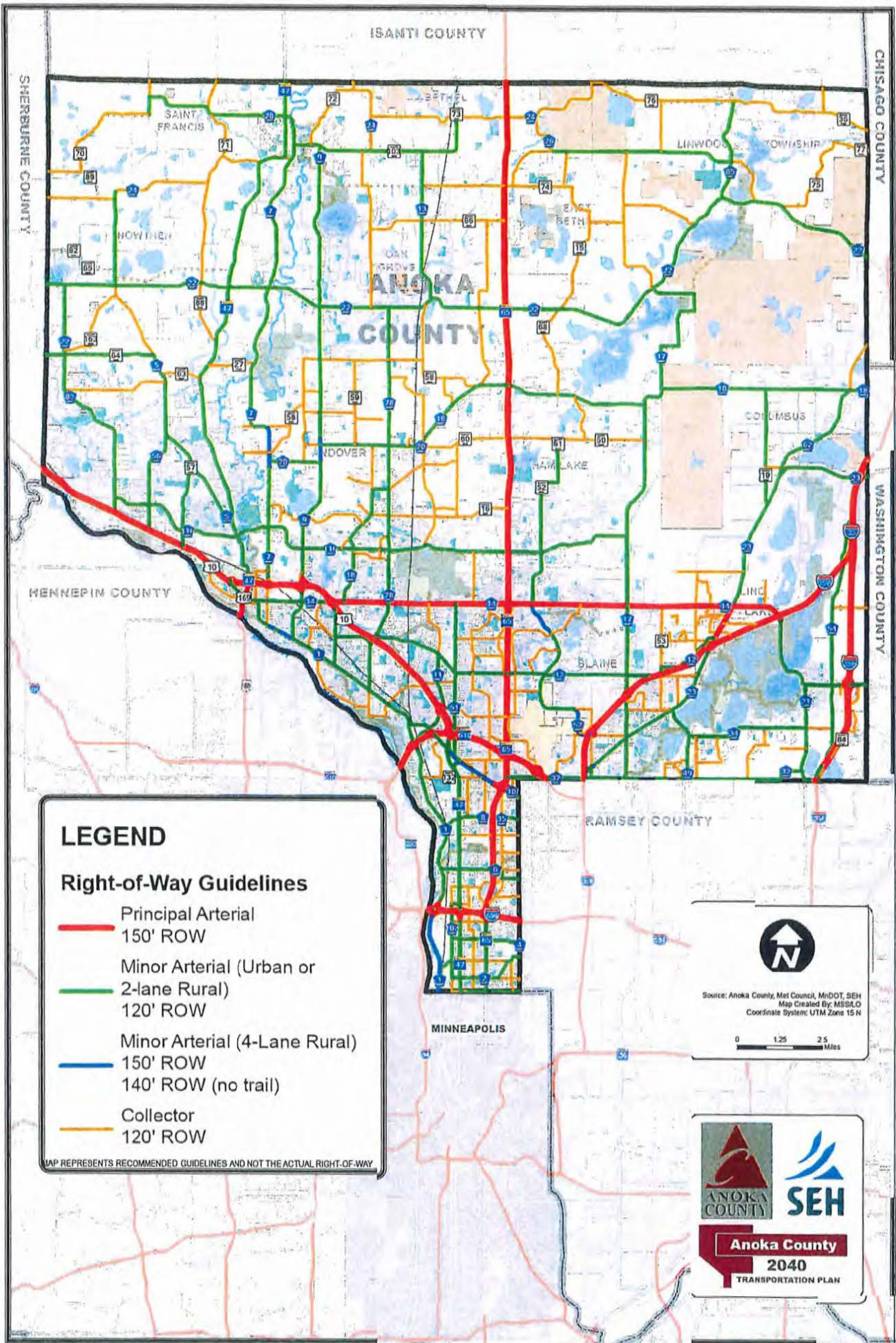
E. G. RUD & SONS, INC.
Land Surveyors
9180 LEXINGTON AVENUE NE.
CIRCLE PINES, MN. 55014-3625
Tel. (763)786-5956 Fax (763)786-6007



10-600 Variances

The City Council shall have the power to authorize variances from the requirements of Article 10, and to attach such conditions to the variance as it deems necessary to assure compliance with the purpose of this Code. A variance may be permitted if the following requirements are met:

- a) There is an unusual physical hardship to the land that would prevent the reasonable usage of the land without a variance, and all the conditions of sub-paragraph b), c) and d) below are met.
- b) The variance is in harmony with the general purpose and intent of the Code and is consistent with the Comprehensive Plan.
- c) The plight of the landowner is due to circumstances unique to the property not created by the landowner; and
- d) The variance, if granted, will not alter the essential character of the locality



MINIMUM RIGHT-OF-WAY GUIDELINES

COUNTY OF ANOKA

Public Services Division

HIGHWAY DEPARTMENT

1440 BUNKER LAKE BLVD. N.W., ANDOVER, MINNESOTA 55304-4005

(763) 862-4200 FAX (763) 862-4201

May 8, 2006

Tom Collins
RFC Engineering/City of Ham Lake
13635 Johnson Street
Ham Lake, MN 55304

Re: Plat Reviews -
Lexington Oaks and Bluegrass Estates 2nd Addition

Dear Tom,

We have reviewed the plats of Lexington Oaks and Bluegrass 2nd Addition, located west of CSAH 17 (Lexington Ave.) in the vicinity of CSAH 18 (Broadway Ave.). Since these two plats are adjacent to each other and both are to gain access to CSAH 17 via local roadways with interconnectivity, the plat reviews for both developments are being addressed in one letter, and I offer the following comments:

The existing right-of-way west of CSAH 17 appears to be 60 feet from centerline along the boundaries of both plats, which should be adequate for future reconstruction purposes. It is possible that an additional 5-15foot drainage, trail and/or utility easement may be needed beyond the 120ft right of way corridor along CSAH 17, depending on the type of roadway section that CSAH 17 is someday reconstructed to.

It appears that there are sight distance deficiencies for the Intersection Sight Distance Requirements at the proposed street intersections with CSAH 17 (Broadway Avenue NE and 178th Avenue NE), with the obstructions being primarily trees and brush. The City/Developer shall ensure that clearing and/or grading is completed to satisfy the Sight Corner requirements to the fullest extent possible for this development. Additionally, please note that there are deficiencies for the Case IIB condition at the CSAH 18/Broadway Avenue NE intersection, caused by the horizontal curvature of CSAH 17, which is consequently considered non-correctable. Please note no private signs or plantings will be permitted within the county right of way. Care must be exercised when locating signs, buildings, structures, plantings, berms, etc. outside of the county right of way, so as not to create additional sight distance obstructions for these developments.

As proposed, all lots within the plats would have access via local roadways, and no driveways are proposed to CSAH 17, which is consistent with county policy and is acceptable. The right of access along CSAH 17 is to be dedicated to Anoka County with exceptions for the two new local roadways (Broadway Avenue NE and 178th Avenue NE). Any existing driveways or field entrances along CSAH 17 within the boundaries of this plat shall be removed and the ditch section restored to match existing depth, slope, and grade as a part of this development. Prior to the sale of any parcels, the developer shall complete all work relative to any existing driveway/field entrance removal.

The extension of Broadway Avenue NE west of CSAH 17 introduces safety problems to the CSAH 17/CSAH 18 intersection. Currently, this intersection consists of a NB CSAH 17 right turn lane and a SB CSAH 17 bypass lane. These developments will cause changes to the numbers and types of turning maneuvers along CSAH 17. As a result of the developments and particularly the extension of Broadway Avenue NE west of CSAH 17, it is no longer safe to have a SB CSAH 17 bypass lane at CSAH 18. However, given the number of SB CSAH 17 left turning vehicles combined with the high speed (55mph) of CSAH 17, a refuge for left turning vehicles must be provided on CSAH 17 or significant safety issues will be likely. The Lexington Oaks development consists of 10 residential lots and the Bluegrass Estates 2nd Addition consists of 70 residential lots (introduction of approx. 700 new vehicular trips/turning maneuvers). Construction of NB and SB CSAH 17 left and right turn lanes at CSAH 18/Broadway Avenue NE (estimated \$550.00 = Engineering Plan Review Fee), and a NB CSAH 17 bypass lane and SB CSAH 17 right turn lane at 178th Avenue NE (estimated \$850.00 = Engineering Plan Review Fee) will be required to be completed in conjunction with this development. The developers will need to prepare a concept plan for these roadway improvements that fit into the available CSAH 17 right of way corridor, or possibly acquire additional right of way along the east side of CSAH 17. To avoid the acquisition of additional right of way on CSAH 17 outside the boundaries of this plat, the developers may wish to consider an urban section (curb and gutter) vs. a rural section (roadside ditches) to narrow-up the right of way section needed for the turn lane construction on CSAH 17. The costs for design and construction of these roadway improvements shall be the responsibility of the City/Developer. Calculations must be submitted along with a grading and erosion control plan that delineates the drainage areas for this development. The post-developed rate/volume of runoff must not exceed the pre-developed rate/volume of runoff for the 10-year, critical design storm. Contact Andrew Witter, Construction Engineer, for further information and to coordinate the engineering plan review process. Please submit the drainage calculations, grading and erosion control plans, right and left turn lane and bypass lane construction plans, the ACHD Design Requirements Checklist for County Highway Modifications (copy available via our website) and the applicable engineering plan review fee to Mr. Witter for his review and approval.

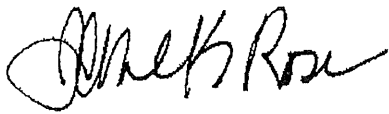
It should be noted that residential land use adjacent to highways usually results in complaints regarding traffic noise. Traffic noise at this location could exceed Noise Standards established by the US Department of Housing and Urban Development, and the Minnesota Pollution Control Agency. Anoka County Policy regarding new developments adjacent to existing county highways prohibits the expenditure of highway funds for noise mitigation measures. The City and/or the Developer should assess the noise situation and take any action deemed necessary to minimize associated impacts at this site from any traffic noise.

Access permits for the two new local roadways and a permit for work within the county right of way will be required and must be obtained prior to any construction activity within Anoka County Right of Way (access permit fee = \$150.00 each; Permit for Work Within County R/W = \$110.00). License Permit Bonding, methods of construction, work zone traffic control, restoration requirements and follow-up inspections are typical elements of the permitting process. Contact Terri Klein, Permit Technician, for additional information on the permit process. Installation and maintenance of the necessary permanent traffic control devices within the county right of way will be coordinated by this department in conjunction with the permit process.

Tom Collins
May 9, 2006
Page 3

Thank you for the opportunity to comment. Feel free to contact me if you have any questions.

Sincerely,



Jane K. Rose
Traffic Engineering Manger

xc: CSAH 17 + CSAH 18/PLATS/2006
Mike Kelly, Chief Right Of Way Agent
Larry Hoiium, County Surveyor
Tom Hornsby, Traffic Services Supervisor – Signs
Randy Bettinger, Traffic Engineering Coordinator
Terri Klein, Permit Technician
Josie Scott, Traffic Engineering Technician
Andrew Witter, Construction Engineer
Tom Collins, RFC Engineering

RESOLUTION NO. 05-10

WHEREAS, Article 10-430K states that specific design standards for streets and roads shall be established from time to time by Resolution of the City Council, upon recommendation of the City Engineer;

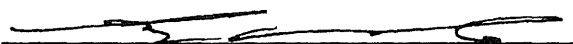
NOW THEREFORE, BE IT RESOLVED, by the City Council of the City of Ham Lake that the following specific design standards for streets and roads be adopted.

GENERAL REQUIREMENTS

In the case of subdivisions for commercial, industrial and public purposes, no street giving access upon arterial road shall be located closer than three hundred (300) feet from right-of-way line to right-of-way line along the same side of such arterial road, to any other driveway, public or private street in the same or another subdivision.

- A. As a general requirement, a 66-foot minim right-of-way width service road shall be dedicated to the public parallel with the Minnesota State right-of-way. Such service road to be provided on both sides of the highways and lands adjacent to the highway are subdivided and platted.
- B. The intersection of a Service Road with a street which intersects the Minnesota State Highway, shall observe a minimum distance of 300 feet from the Minnesota State right-of-way.
- C. Where access is restricted to one directional ingress and same directional egress, and competent professional review of traffic patterns indicates that no traffic hazard will be present, a right-in/right-out ingress/egress point may be permitted at a distance closer than 300 feet from the right-of-way of a public street, in the sound discretion of the City Council, and upon review of the Planning Commission, City Engineer, and such other professionals as the City may choose to engage.

Adopted by a unanimous vote of the Ham Lake City Council this 7th day of March, 2005.


Gary W. Kirkeide, Mayor


Doris A. Nivala
Administrator

PARK BUSINESS (continued)

Lenes Development, Inc. – Sketch Plan for a Planned Unit Development in Section 36

Cindy Rogers, Project Manager for Lenes Development, Inc., requested clarification of the park dedication requirements approved by the Commission on November 17, 2004 and asked if the walking path is included in the dedication requirements.

Chair Aanerud explained the Park and Tree Commission previously recommended accepting six acres of land on the northeast corner of the lake with a 25 foot easement around the lake for a walking path. He stated the ordinance currently provides for the taking of 10% for park land or cash equivalent; if the proposed parkland does not amount to 10%, the City would accept monies in lieu of parkland for the remainder.

Chair Aanerud stated if Lenes Development is willing to put the walking path in at the same time as construction of the roads, the City would not incur the expense of the walking path construction and the City would offset the monies owed by the developer for the parkland dedication.

Ms. Rogers presented a revised sketch plan which moves the approximate 5.4 acre park to the south end of the pond and requested approval of the revised sketch plan.

Motion by Commissioner Gallina, seconded by Commissioner Beadell, to recommend to the Council to accept 9.3 acres of land dedicated for a neighborhood park and path easement around pond as presented in the revised sketch plan, and the remainder in monies in lieu of parkland, for the Lenes Development in Section 36. All in favor, motion carried.

* Gary Houle (not present) – Bluegrass Estates -Additional Easement for Bike Path Adjacent to Lexington

Public Works Superintendent stated this item is on the agenda because the City Council indicated it would like to see the trail placed along Lexington Avenue. He added this would require obtaining an easement from the County for a bike path.

Motion by Chair Aanerud, seconded by Commissioner Rubin, to recommend to the Council to accept approximately six acres of land dedicated for a neighborhood park to border on the north central boundary of the proposed development with a 20 foot easement along Lexington Avenue for a bike path, and the remainder in monies in lieu of parkland, for the development in Section 1 by Gary Houle. All in favor, motion carried.

PUBLIC WORKS SUPERINTENDENT

Public Works Superintendent Reiner distributed a thank you note received from residents for the recent work completed at Grandpa Scott's Park.

Public Works Superintendent Reiner stated the paths at Hiawatha Beach have been marked; however, some of the paths were marked by mistake. He stated the surveyors also missed one path near the middle and they will go out and re-mark it in the near future.

Hockey Rink Update

Superintendent Reiner is in the progress getting quotes for the hockey rink. Superintendent Reiner plans to present his findings to the Commission at the July 19th Park and Tree Commission meeting.

* Blue Grass Estates 2nd Addition

The Commission reviewed the information on Blue Grass Estates 2nd Addition. The Commission agrees with the recommendation from the City Engineer. **Motion by Saba, seconded by Rubin, to recommend to the City Council to concur with the recommendation from the City Engineer that the Developer obtains approval for the wetland impacts and wetland mitigation associated with this bike trail construction, with the wetland mitigation and trail footprint construction costs being negotiated with the developer. All present in favor, motion carried.**

Petal Pusher Signs

Commissioner Saba thinks the Petal Pusher Garden Club should be recognized for their efforts with some signage at the flowerbeds they plant and maintain. **Motion by Saba, seconded by Stauffacher, to recommend to the City Council to approve purchasing three signs to be placed in the parks to show recognition to the Petal Pusher Garden Club for planting and maintaining the flowerbeds in the various parks, with the signs reading "Flowerbeds tended by the Petal Pusher Garden Club" and not exceed \$75.00 a sign. All present in favor, motion carried.**

Tree Ordinance

Vice Chair Beadell handed out meeting notes to the Commissioners from her meeting with City Staff on June 13, 2006. The Commission discussed aspects of the ordinance such as educating the developers, builders and residents on trees, inserting information in the Ham Laker on a monthly basis, requiring two trees to be planted in the front yard with at least a caliper of two inches and four feet tall or an evergreen tree at least four feet in height, and discussing guidelines for commercial landscaping. **It was the consensus of the Park and Tree Commission to have Vice Chair Beadell move forward with the Tree Ordinance by making any necessary additions and/or corrections to the ordinance and have a preliminary edition of the ordinance ready for the July 19th Park and Tree meeting.**

5 Year Plan

Motion by Saba, seconded by Beadell, to recommend to the City Council the Five-Year Park and Tree Commission Capital Expenditures plan. All present in favor, motion carried.

than Andover before she makes a decision. Mayor Kirkeide stated that the City may need to create new classifications. Councilmember Erikson stated that this issue was discussed when she was on the Planning Commission regarding the possibility of setting up categories for CUPs depending on their usage. Councilmember Erikson stated that she feels it is nice to be able to inspect some businesses yearly, but she stated that there are some businesses that it is clear there are no inspections needed because they are always in compliance. Councilmember Erikson stated that she would support a reclassification system. City Attorney Dorn suggested that perhaps we have not had a lot of problems with CUPs is because we have annual inspections. **There was a consensus of the Council to send this issue back to the Planning Commission for discussion regarding possible reclassification in the CUPs.**

5.6 Appointment of a Planning Commissioner to the Excavation Ordinance task force
Motion by Larson, seconded by Erikson, to concur with the Planning Commission recommendation and appoint Commissioner Abel to the Excavation Ordinance task force. All in favor, motion carried.

6.0 **PARK AND TREE COMMISSION RECOMMENDATIONS**

* 6.1 Recommendation to accept bid from developers of Blue Grass Estates
Motion by Meunier, seconded by Theodorski, to concur with the Park and Tree Commission recommendation and accept Alternate A of the developers bid of \$25,857.30 in Blue Grass Estates 2nd Addition and to reject having a boardwalk on the lower part of the trail with this amount being offset by any parkland fees due. All in favor, motion carried.

6.2 Recommendation to approve Cub Scout Pack 509 adopting Enchanted Estates Park
Motion by Meunier, seconded by Theodorski, to concur with the Park and Tree Commission recommendation and agree to Cub Scout Pack 509 adopting Enchanted Estates Park as part of the Adopt-A-Park program. All in favor, motion carried.

7.0 **ECONOMIC DEVELOPMENT AUTHORITY - None**

8.0 **APPEARANCES - None**

9.0 **CITY ATTORNEY**

9.1 Consideration of Resolution No. 06-70, Findings of Fact for the denial of the request for John Fredrickson and Faith (Kaiser) Fredrickson

City Attorney Dorn stated that he received a call from the applicant's attorney and they were under the mistaken impression that the City was going to force them to combine these lots. City Attorney Dorn explained that the City would tolerate this nonconforming use, but would not exacerbate the problem by allowing an expansion of its usage. **Motion by Theodorski, seconded by Larson, to adopt Resolution No. 06-70, Findings of Fact for the denial of the request for John Fredrickson and Faith (Kaiser) Fredrickson. All in favor, motion carried.**

Bluegrass Estates 3rd Addition FEMA Zone A

BFE and Source:



Legend

FIRM Panels

Base Flood Elevation

Cross Sections

Flood Hazard Zones

Zone A

Zone AE

Zone AE Floodway

6/21/2022, 10:50:12 AM

0.05

0.1

0.2 mi



DISCLAIMER - The FEMA base flood elevations are used to determine flood insurance rates and whether flood insurance is mandatory. Please note: (1) The city (or township) and watershed district regulations require minimum floor elevations higher than the FEMA base flood elevations (BFEs). Check with your city (or township) on those requirements for any additions or new construction. (2) Areas OUTSIDE of the FEMA mapped zones still have flooding risk. Floods higher than base flood elevations can occur and have occurred all over Minnesota. Those with low floors below or near the base flood elevations are especially encouraged to consider purchasing a Preferred Risk Policy, which is a discounted flood insurance option for those "outside" of the FEMA flood zones. (3) Areas OUTSIDE of the FEMA mapped zones are still subject to city (or township) and watershed district regulation of minimum elevations.

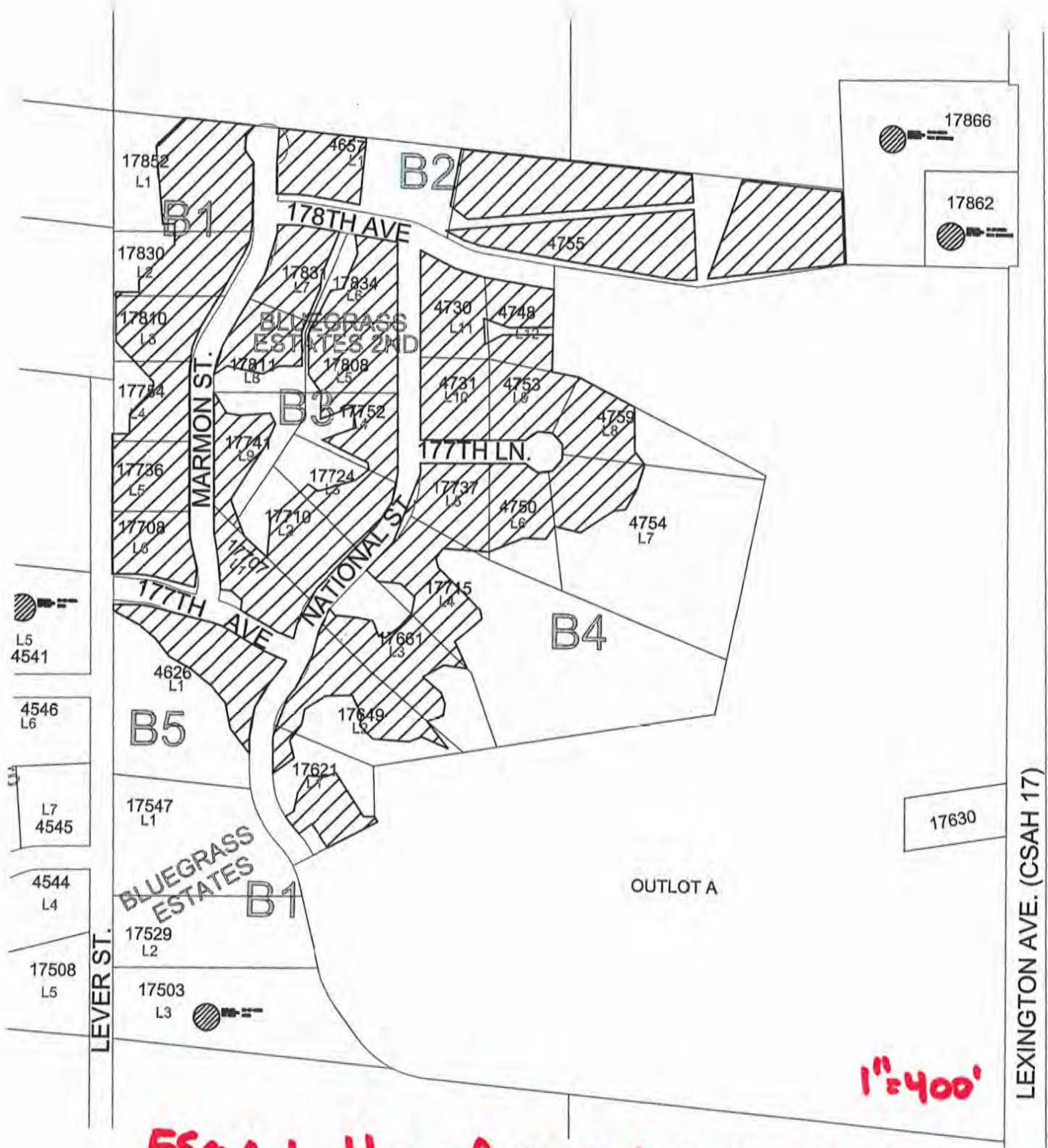
AerialsFlown: Fall 2017

vertical Datum for Contours: NAVD88

Contours Source: Minnesota Department of Natural Resources

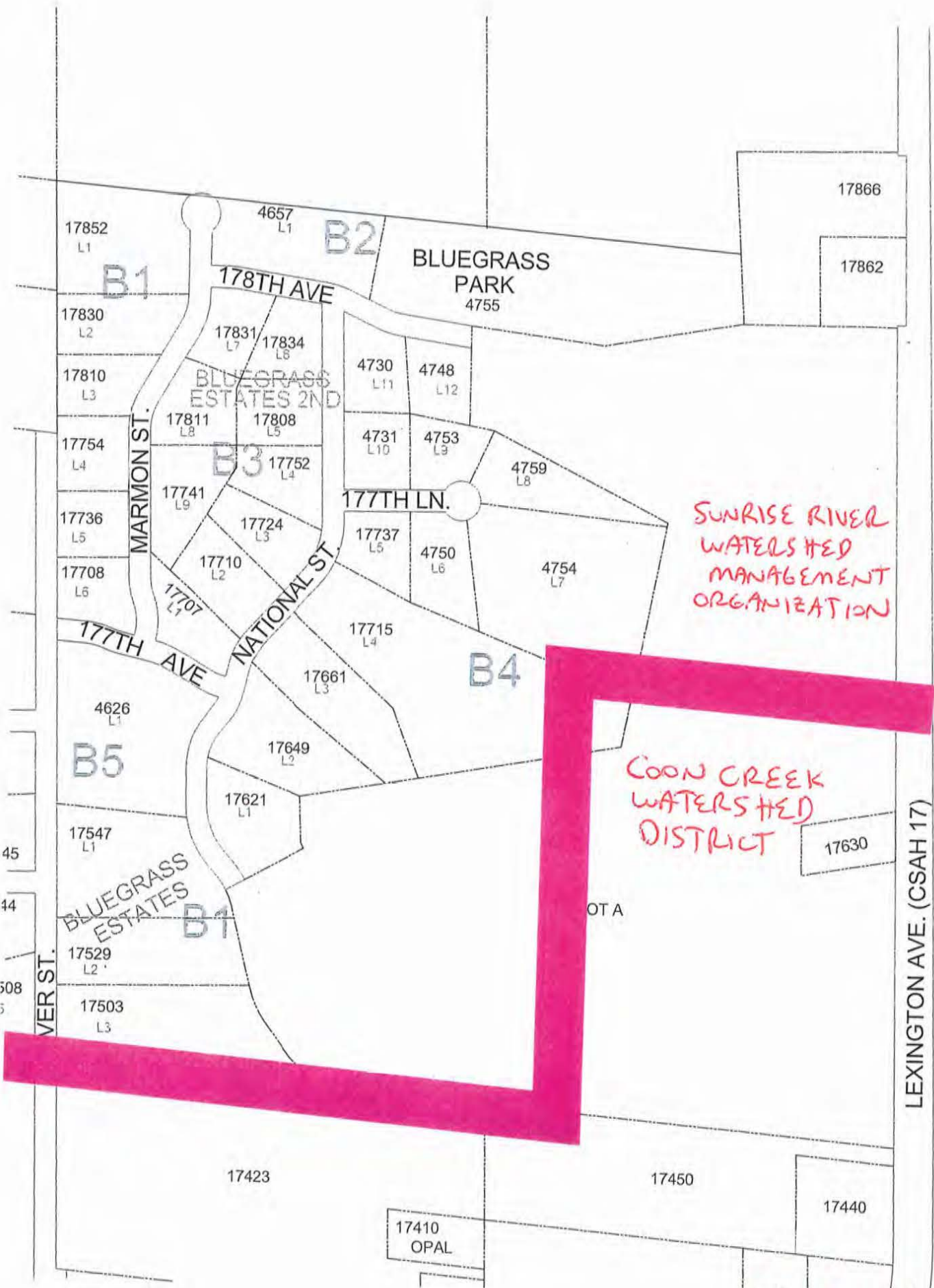
The information on this map was compiled from public data sources. Anoka County cannot accept any responsibility for errors, omissions, or positional accuracy. There are no warranties, expressed or implied, including the warranty of merchantability or fitness for a particular purpose, accompanying this product.

Created by:



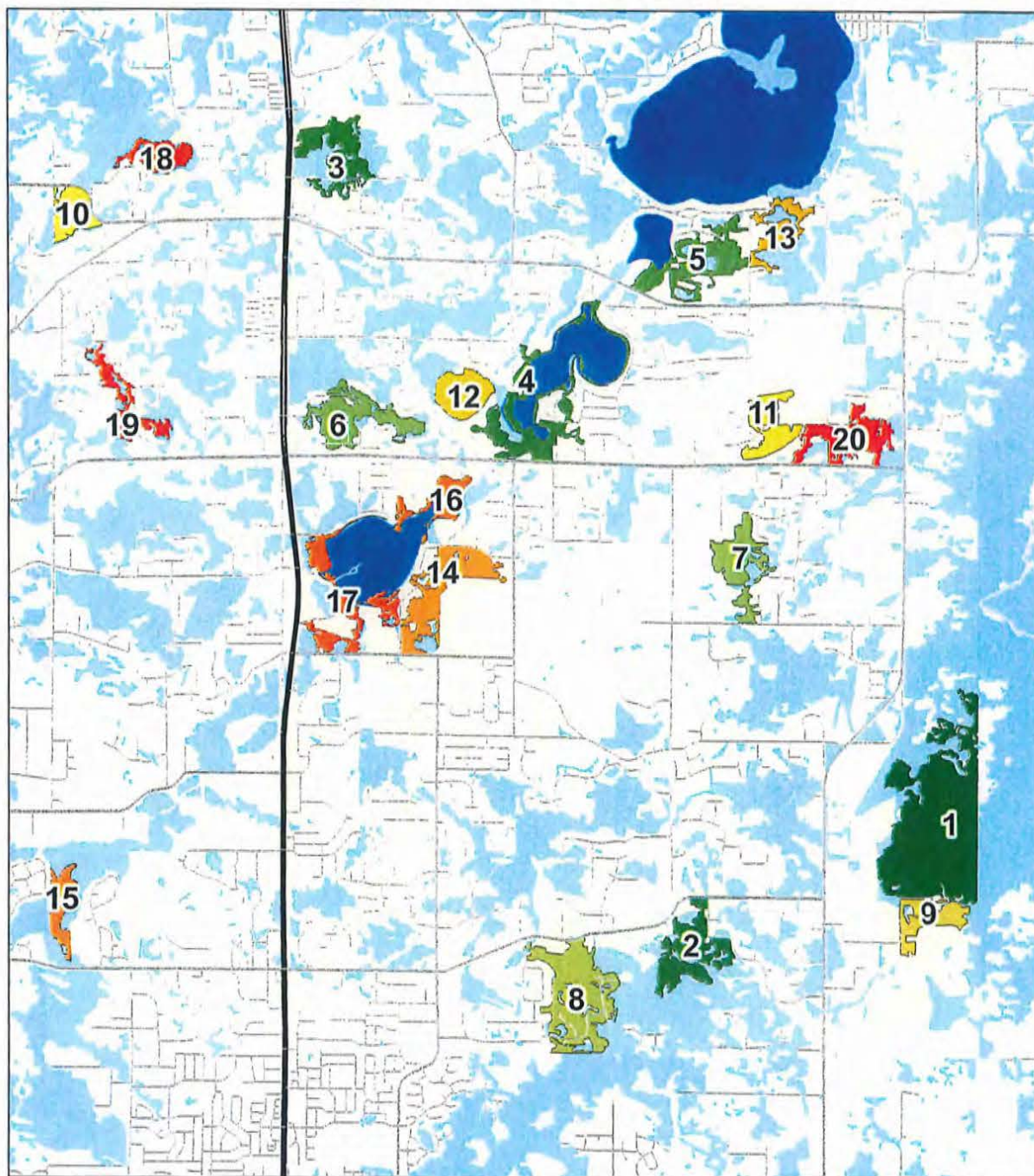
FEMA Letter of map Amendments Approved

LEXINGTON AVE. (CSAH 17)



1" = 400'

Major Natural Resource Concentrations City of Ham Lake



Natural Resource Clusters

(Top 20 Natural Resource Clusters, by Undeveloped Acreage)

- Largest Undeveloped Acreage
-
-
- Smallest Undeveloped Acreage

Lakes



Wetlands



Roads

- Interstate Highways
- U.S. Highways
- State Highways
- County Roads/CSAHs
- Municipal Streets
- Misc. Other



CITY OF HAM LAKE

15544 Central Avenue NE
Ham Lake, MN 55304

Phone (763) 434-9555 Fax (763) 235-1697

PLANNING REQUEST

Date of Application 6-14-22

Date of Receipt 6-14-22
Receipt # 93049

Meeting Appearance Dates:
Planning Commission 6-27-22

City Council _____

Please check request(s):

- Metes & Bounds Conveyance
- Sketch Plan
- Preliminary Plat Approval*
- Final Plat Approval
- Rezoning*
- Multiple Dog License*

- Commercial Building Site
- Certificate of Occupancy
- Home Occupation Permit
- Conditional Use Permit (New)*
- Conditional Use Permit (Renewal)
- Other

**NOTE: Advisory Signage is required for land use alterations and future road connections. This application also requires a Public Hearing. Such fees shall be deducted from deposit.*

Development/Business Name: SCHWARTZ ESTATES

Address/Location of property: 4012 155TH AVENUE NE

Legal Description of property: EAST 600 FT OF NORTH 726 FEET OF WEST 2052.14 FEET OF S 1/2 OF NE 1/4, SEC. 23, T. 32, R. 23

PIN # 23-32-23-14-0003 Current Zoning R-A Proposed Zoning R-1

Notes: 3 lot minor plat

Applicant's Name: LARRY SCHWARTZ

Business Name: N/A

Address 1543 105TH LANE NW

City COON RAPIDS State MN Zip Code 55433

Phone _____ Cell Phone 612-386-6180 Fax _____

Email address LESchwartz@Victorinc.com

You are advised that the 60-day review period required by Minnesota Statutes Chapter 15.99 does not begin to run until all of the required items have been received by the City of Ham Lake.

SIGNATURE [Signature] DATE 14-JUN-2022

- FOR STAFF USE ONLY -

ACTION BY: Planning Commission _____
City Council _____

PROPERTY TAXES CURRENT YES NO

Memorandum

Date: June 21, 2022
To: Planning Commissioners
From: Tom Collins, City Engineer
Subject: Schwartz Estates Sketch Plan

Introduction:

The Sketch Plan proposed to subdivide the 10-acre 4012 155th Avenue / 23-32-23-22-0001 parcel (<https://gis.anokacountymn.gov/propertysearch/?find=23-32-23-14-0003>) into three lots. The parcel is zoned Rural Single Family Residential (R-A) and the proposed zoning is Single Family Residential (R-1). A 600-scale zoning map and 100 scale aerial photo are attached.

Discussion:

The proposed subdivision falls under the Minor Plat portion of City Code Section 10-101. Consideration of approving both the preliminary and final plat will be before the Planning Commission at the same meeting, following the public hearing. Easement dedication will be required around the perimeter of each proposed parcel, along with easement dedication over County Ditch 44. The easement dedicated over County Ditch 44 will contain the wetlands in the southeast portion of the parcel. Per correspondence with Public Works Superintendent John Witkowski, it is recommended that parkland dedication fees be collected rather than the dedication of parkland or trail easement.

The existing house and accessory buildings are proposed to be removed. A demolition permit will need to be approved by the Building Official. Because the existing house is being demolished, and the existing septic system is not proposed to be utilized, a compliance inspection is not required of the existing septic system.

The Sketch Plan shows the location and surface elevation of four septic soil borings and one building pad boring for each lot. The soil boring logs need to be submitted for review of compliance with septic separation from mottling and low floor determinations. Per 10-204.B.iii of City Code, the building pad boring shall come from the approximate center of the Eligible Building Area. The building pads for Lot 1 and Lot 3 will need to be moved, else additional soil boring logs will be required.

Coon Creek Watershed District (CCWD) approval is needed for the Minor Subdivision, although the CCWD has confirmed that the process of platting 3 lots on this property does not trigger their stormwater requirements. The wetland boundary is larger than shown on the Sketch Plan, per the attached Board of Water and Soil Resources Notice of Decision. The preliminary/final plat submittals will need to include the approved wetland boundary. The CCWD will determine the need for a DNR Natural Heritage Information System data review determining whether any state-protected species may be located within the Minor Subdivision boundary, based on CCWD data.

The Sketch Plan shows the required 10-foot drainage and utility easements adjacent to all proposed lot lines. The preliminary/final plat submittals will need to show a drainage and utility easement, up to 50-feet in width, over that portion of County Ditch #44 within the parcel boundary and an easement containing the wetland boundary. The southerly third of the parcel is designated as FEMA Zone A, which represents an approximation of the 100-year flood elevation. The preliminary/final plat submittals will need to show the Zone A boundary to verify that no portion of the building pads are within the Zone A designation. The existing fence within the 155th Avenue right-of-way will need to be shown as removed on the preliminary/final plat submittal.

Recommendations:

It is recommended that the Schwartz Estates Sketch Plan be recommended for approval.

SKETCH PLAN

~for~ LARRY SCHWARTZ
 ~of~ SCHWARTZ ESTATES
 4012 155th Ave NE
 Ham Lake, MN

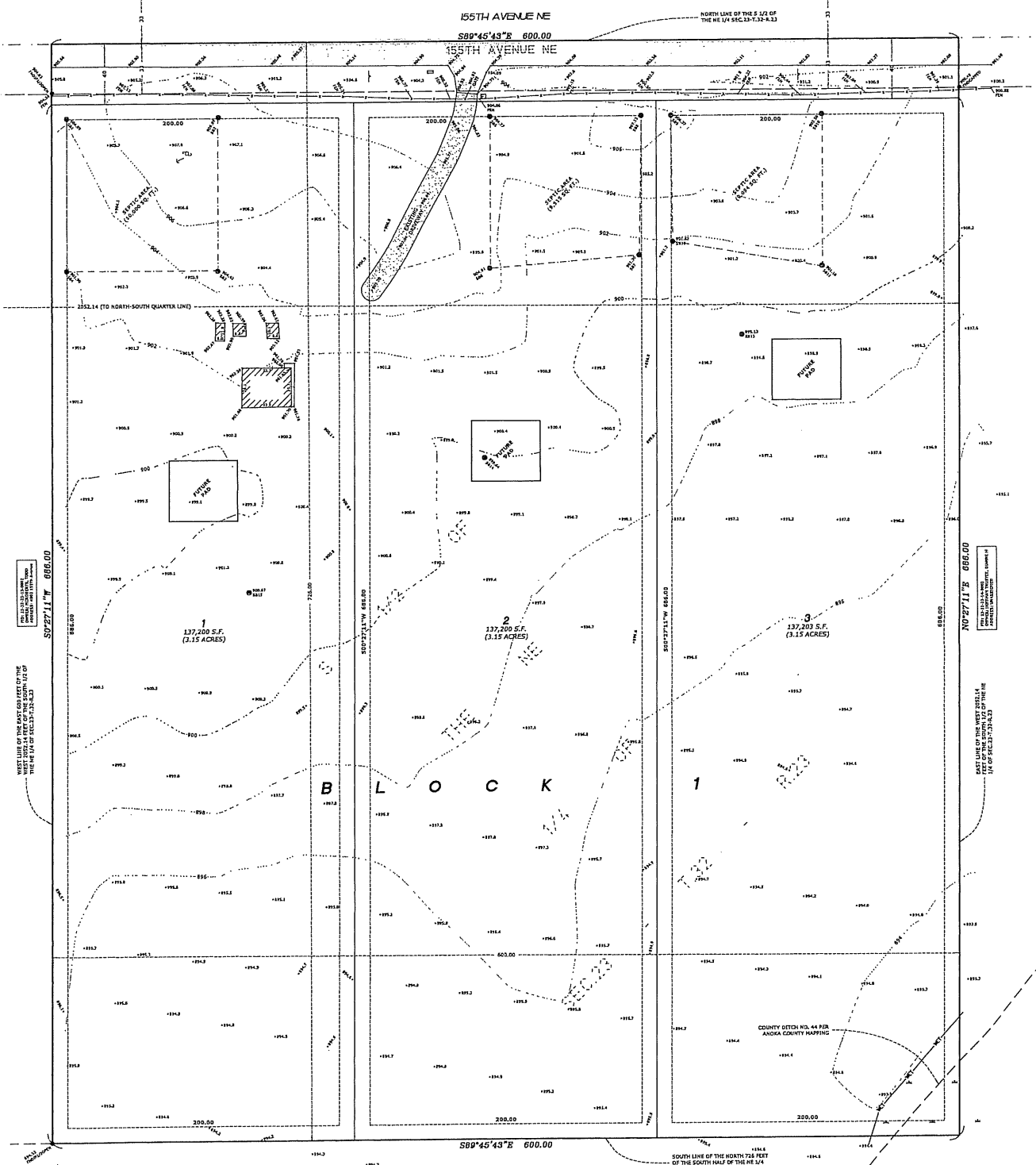
AUSTIN
 STREET
 NE

FIG. 23-23-23-11-0004
 200'-00" PERM. LIMIT
 ADDRESS: 4012 155TH AVE NE

FIG. 23-23-23-11-0006
 200'-00" PERM. LIMIT
 ADDRESS: 4012 155TH AVE NE

FIG. 23-23-23-11-0014
 200'-00" PERM. LIMIT
 ADDRESS: 4012 155TH AVE NE

FIG. 23-23-23-11-0013
 200'-00" PERM. LIMIT
 ADDRESS: 4012 155TH AVE NE



EXISTING LEGAL DESCRIPTION

(PER ANOKA COUNTY TAX DESCRIPTION)

The East 600 feet of the North 726 feet of the West 2652.14 feet of the South Half of the Northeast Quarter of Section 23, Township 32, Range 23, Anoka County, Minnesota.

NOTES

- Field survey was completed by E.G. Rud and Sons, Inc. on 05/06/22.
- Bearings shown are on Anoka County datum.
- Parcel ID Number: 23-23-23-14-0003.
- This survey was prepared without the benefit of title work. Additional easements, restrictions and/or encumbrances may exist other than those shown hereon. Survey subject to revision upon receipt of a current title commitment or an attorney's title opinion.
- Wetland delineation completed by Jacobson Environmental.

LEGEND

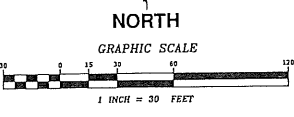
- DENOTES IRON MONUMENT FOUND AS LABELED
- DENOTES IRON MONUMENT SET, MARKED ALS# 41578
- DENOTES EXISTING SPOT ELEVATION
- DENOTES FIBER OPTIC BOX
- DENOTES GUY WIRE
- DENOTES MAILBOX
- DENOTES POWER POLE
- DENOTES SIGN
- DENOTES SOIL BORING (BY MARK TRADEWELL)
- DENOTES FENCE
- DENOTES EXISTING CONTOURS
- DENOTES BITUMINOUS SURFACE
- DENOTES CONCRETE SURFACE
- DENOTES GRAVEL SURFACE
- DENOTES ADJACENT PARCEL OWNER INFORMATION (PER ANOKA COUNTY TAX INFORMATION)

BENCHMARK

ANOKA COUNTY BENCHMARK NO. 2005
 ELEVATION = 405.730 (HAWDBR)

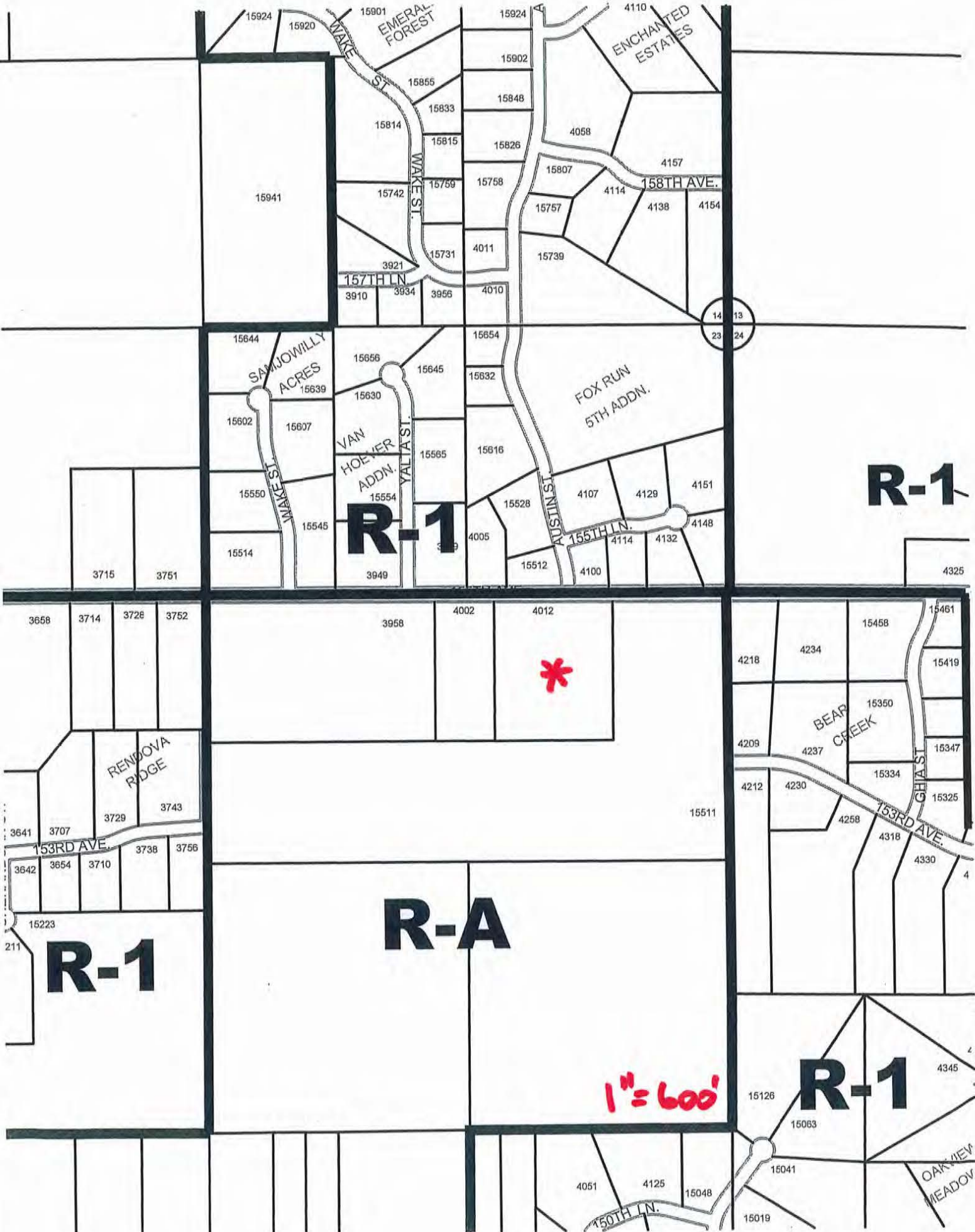
I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota.

JACOBSON E. RUD
 Date: 6/13/2022 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

NO.	DATE	DESCRIPTION	BY
1	6-13-22	ADD SOIL BORINGS	CHS
2			
3			



R-1

R-1

R-A

R-1

R-1

1" = 600'



14 13
23 24

4

2

15924 15920 WAKE ST 15901 EMERALD FOREST 15924 4110 ENCHANTED ESTATES 15902 15855 15833 15848 15814 15815 15826 4058 15807 4157 15742 15759 15758 15807 4114 158TH AVE. 15757 4138 4154 15731 4011 15739 3921 157TH LN 3910 3934 3956 4010 15644 SAMJOWILLY ACRES 15656 15645 15654 15632 15630 15602 15607 15550 15554 15545 15514 15554 15528 4107 4129 4151 15512 4100 155TH LN. 4114 4132 4148 3715 3751 3949 4005 4325 3658 3714 3728 3752 3958 4002 4012 4218 4234 15458 15461 15419 4209 4237 BEAR CREEK 15350 15347 4212 4230 15334 15325 15511 4258 153RD AVE. 4318 4330 4345 15223 211 R-1 15126 15063 R-1 4051 4125 15048 15041 15019 150TH LN. OAKVIEW MEADOW

15512
L5

4100
L7

L6

TH AVE.

4012

1"=100'

Minnesota Wetland Conservation Act Notice of Decision

Local Government Unit: Coon Creek Watershed District (CCWD)	County: Anoka
Applicant Name: Lawrence Schwartz	
Applicant Representative: Jacobson Environmental – Wayne Jacobson	
Project Name: 4012 155th Ave NE LGU Project No. (if any): W22-010	
Date Complete Application Received by LGU: 5/5/2022	
Date of LGU Decision: 6/16/2022	
Date this Notice was Sent: 6/16/2022	

WCA Decision Type - check all that apply

<input checked="" type="checkbox"/> Wetland Boundary/Type	<input type="checkbox"/> Sequencing	<input type="checkbox"/> Replacement Plan	<input type="checkbox"/> Bank Plan (not credit purchase)
<input type="checkbox"/> No-Loss (8420.0415)	<input type="checkbox"/> Exemption (8420.0420)		
Part: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H		Subpart: <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9	

Replacement Plan Impacts (replacement plan decisions only)

Total WCA Wetland Impact Area:
Wetland Replacement Type: <input type="checkbox"/> Project Specific Credits: <input type="checkbox"/> Bank Credits:
Bank Account Number(s):

Technical Evaluation Panel Findings and Recommendations (attach if any)

<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Approve w/Conditions <input type="checkbox"/> Deny <input type="checkbox"/> No TEP Recommendation
--

LGU Decision

<input type="checkbox"/> Approved with Conditions (specify below) ¹ List Conditions:	<input checked="" type="checkbox"/> Approved ¹	<input type="checkbox"/> Denied
Decision-Maker for this Application: <input checked="" type="checkbox"/> Staff <input type="checkbox"/> Governing Board/Council <input type="checkbox"/> Other:		
Decision is valid for: <input checked="" type="checkbox"/> 5 years (default) <input type="checkbox"/> Other (specify):		

¹ *Wetland Replacement Plan approval is not valid until BWSR confirms the withdrawal of any required wetland bank credits. For project-specific replacement a financial assurance per MN Rule 8420.0522, Subp. 9 and evidence that all required forms have been recorded on the title of the property on which the replacement wetland is located must be provided to the LGU for the approval to be valid.*

LGU Findings – Attach document(s) and/or insert narrative providing the basis for the LGU decision¹.

<input checked="" type="checkbox"/> Attachment(s) (specify): Site Location, Delineation Map <input checked="" type="checkbox"/> Summary: The site is located in Section 23, Township 32 North, Range 23 West, City of Ham Lake, Anoka County. The site is located at 4012 155 th Ave NE, and is approximately 9.48 acres. A field investigation was performed on April 13, 2022. It was determined that one wetland was present on the site: Wetland 1: Type 1– 3.43 acres The TEP reviewed the wetland delineation on May 20, 2022. Because the site is an active sod field, the TEP determined that insufficient information had been provided to support the wetland line. In lieu of hydrologic

monitoring to establish the extent of wetland hydrology, the TEP suggested providing a conservative delineation based on the 896' elevation contour. The applicant provided a revised wetland delineation report with a revised wetland boundary corresponding to the 896' elevation contour as depicted in the LiDAR data. The TEP concurs with this wetland delineation as revised. This decision approves the wetland delineation for the site as shown in the revised delineation figure.

¹ Findings must consider any TEP recommendations.

Attached Project Documents

Site Location Map Project Plan(s)/Descriptions/Reports (specify): Delineation Map

Appeals of LGU Decisions

If you wish to appeal this decision, you must provide a written request within 30 calendar days of the date you received the notice. All appeals must be submitted to the Board of Water and Soil Resources Executive Director along with a check payable to BWSR for \$500 *unless* the LGU has adopted a local appeal process as identified below. The check must be sent by mail and the written request to appeal can be submitted by mail or e-mail. The appeal should include a copy of this notice, name and contact information of appellant(s) and their representatives (if applicable), a statement clarifying the intent to appeal and supporting information as to why the decision is in error. Send to:

Appeals & Regulatory Compliance Coordinator
Minnesota Board of Water & Soils Resources
520 Lafayette Road North
St. Paul, MN 55155
travis.germundson@state.mn.us

Does the LGU have a local appeal process applicable to this decision?

Yes¹ No

¹If yes, all appeals must first be considered via the local appeals process.

Local Appeals Submittal Requirements (LGU must describe how to appeal, submittal requirements, fees, etc. as applicable)

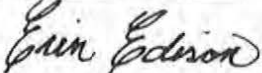
Notice Distribution (include name)

Required on all notices:

- | |
|--|
| <input checked="" type="checkbox"/> SWCD TEP Member: Becky Wozney (becky.wozney@anokaswcd.org) |
| <input checked="" type="checkbox"/> BWSR TEP Member: Ben Meyer (ben.meyer@state.mn.us) |
| <input type="checkbox"/> LGU TEP Member (if different than LGU contact): |
| <input checked="" type="checkbox"/> DNR Representative: Melissa Collins (melissa.collins@state.mn.us); Julie Siems (Julie.Siems@state.mn.us) |
| <input type="checkbox"/> Watershed District or Watershed Mgmt. Org.: |
| <input checked="" type="checkbox"/> Applicant: Ryan Schwartz (ryanschwartz@schwartzandsons.com) |
| <input checked="" type="checkbox"/> Agent/Consultant: Wayne Jacobson (jacobsonenv@msn.com) |

Optional or As Applicable:

- | |
|--|
| <input checked="" type="checkbox"/> Corps of Engineers: usace_requests_mn@usace.army.mil |
| <input type="checkbox"/> BWSR Wetland Mitigation Coordinator (required for bank plan applications only): |
| <input checked="" type="checkbox"/> Members of the Public (notice only): Eric Trelstad <input checked="" type="checkbox"/> Other: City of Ham Lake |

Signature: 	Date: 6/16/2022
--	-----------------

This notice and accompanying application materials may be sent electronically or by mail. The LGU may opt to send a summary of the application to members of the public upon request per 8420.0255, Subp. 3.

Figure 1 Site Location



Parcel Information:

23-32-23-14-0003
4012 155TH AVE NE
HAM LAKE
MN 55304
Plat:

Approx. Acres: 9.48

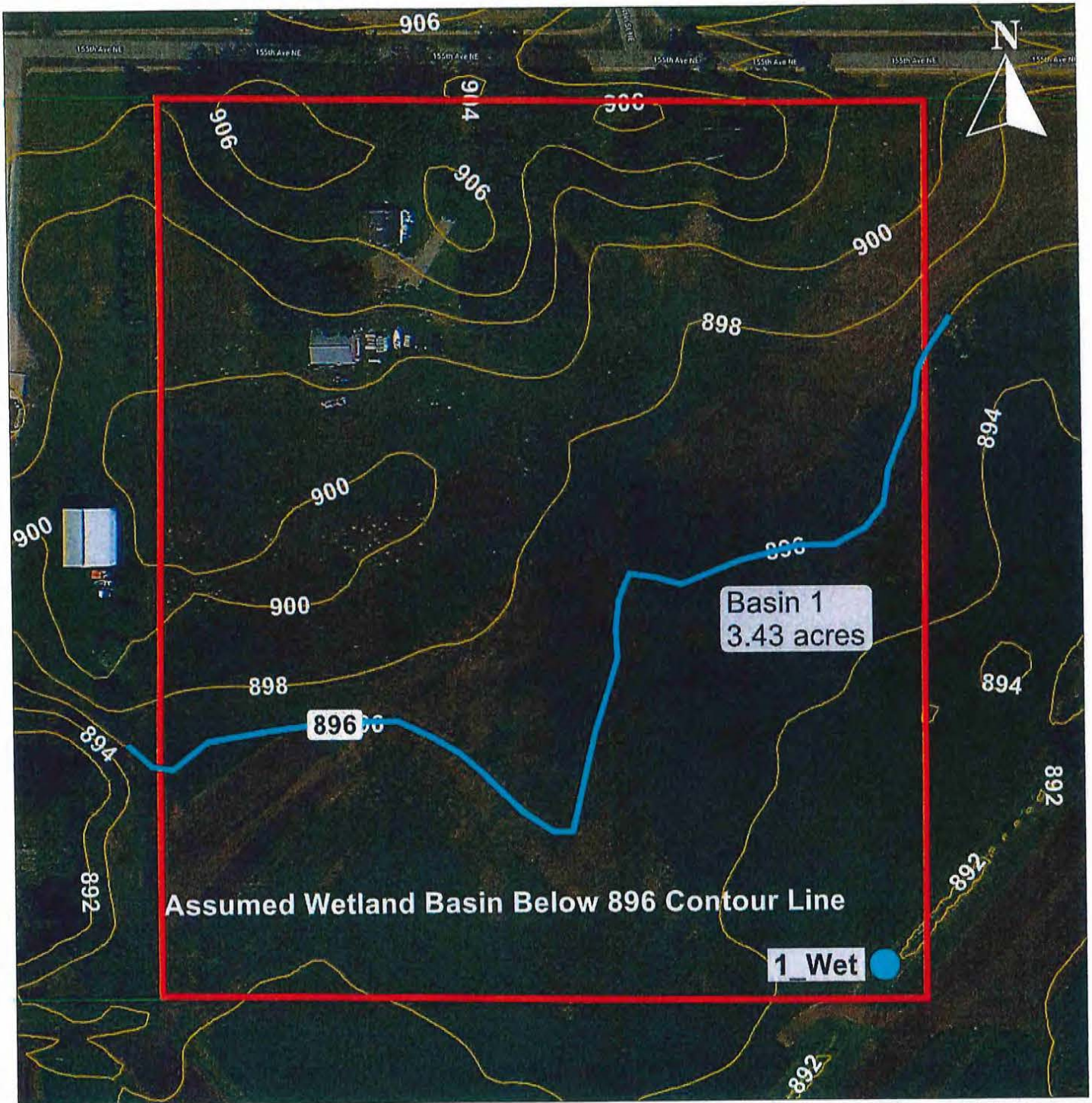
Commissioner: JULIE BRAASTAD

Owner Information:

SCHWARTZ, LAWRENCE E
1543 105TH LN NW
COON RAPIDS
MN
55433



Figure 5 Delineation Map









Map layers

- Assumed Wetland Boundary
- Sample Point
- Property Boundary
- Anoka County Parcels
- Contour_2f_3m

0 100 200 300
Feet



Legend

 FIRM Panels	 Zone A
 Base Flood Elevation	 Zone AE
 Cross Sections	 Zone AE Floodway

6/20/2022, 2:13:04 PM 0 0.01 0.02 0.04 mi



DISCLAIMER - The FEMA base flood elevations are used to determine flood insurance rates and whether flood insurance is mandatory. Please note: (1) The city (or township) and watershed district regulations require minimum floor elevations higher than the FEMA base flood elevations (BFEs). Check with your city (or township) on those requirements for any additions or new construction. (2) Areas OUTSIDE of the FEMA mapped zones still have flooding risk. Floods higher than base flood elevations can occur and have occurred all over Minnesota. Those with low floors below or near the base flood elevations are especially encouraged to consider purchasing a Preferred Risk Policy, which is a discounted flood insurance option for those "outside" of the FEMA flood zones. (3) Areas OUTSIDE of the FEMA mapped zones are still subject to city (or township) and watershed district regulation of minimum elevations.

AerialsFlown: Fall 2017
 vertical Datum for Contours: NAVD88
 Contours Source: Minnesota Department of Natural Resources
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