

City of Ramsey
Agenda
Public Works Committee
Tuesday January 20, 2015
6:00 pm
Lake Itasca Room, 7550 Sunwood Drive NW

- 1. Call to Order**
- 2. Citizen Input**
- 3. Approve Agenda**
- 4. Approve Minutes**
 1. Approve Meeting Minutes from November 18, 2014.
- 5. Committee Business**
 1. Nominate Chair and Vice-Chair for the Public Works Committee.
 2. Consider Planning Commission Recommendation to Reconstruct a Temporary Cul-De-Sac on Feldspar Street in the Brookfield Subdivision
 3. Consider City of Anoka request to extend sewer and water to serve two City-owned parcels.
 4. Update on 2015 Jarvis Street Reconstruction Plans and Estimated Costs
- 6. Committee/Staff Input**
 1. Update on Water Supply Planning Efforts
 2. Historical Background on High Water Issues in Ramsey
- 7. Adjournment**

Public Works Committee

4. 1.

Meeting Date: 01/20/2015

Submitted For: Grant Riemer, Engineering/Public Works

By: MaryJo Warner, Engineering/Public Works

Title:

Approve Meeting Minutes from November 18, 2014.

Purpose/Background:

To review and approve meeting minutes from November 18, 2014.

Timeframe:

5 minutes.

Observations/Alternatives:

n/a

Funding Source:

n/a

Recommendation:

Approve minutes.

Action:

Motion to approve minutes of November 18, 2014.

Attachments

Minutes

Form Review

Inbox	Reviewed By	Date
Grant Riemer	MaryJo Warner	01/13/2015 09:38 AM
Mary Jo Warner (Originator)	MaryJo Warner	01/13/2015 10:29 AM
Grant Riemer	MaryJo Warner	01/13/2015 10:29 AM
Kurt Ulrich	Kurt Ulrich	01/15/2015 09:07 AM
Form Started By: MaryJo Warner		Started On: 01/13/2015 08:50 AM
Final Approval Date: 01/15/2015		

**PUBLIC WORKS COMMITTEE
CITY OF RAMSEY
ANOKA COUNTY
STATE OF MINNESOTA**

The Public Works Committee conducted a regular meeting on Tuesday, November 18, 2014 at the Ramsey Municipal Center, 7550 Sunwood Drive NW, Ramsey, Minnesota.

Members Present: Chairperson Randy Backous
 Councilmember Mark Kuzma
 Councilmember Chris Riley

Also Present: City Administrator Kurtis Ulrich
 Public Works Superintendent Grant Riemer
 City Engineer Bruce Westby
 Mayor Sarah Strommen

1. CALL TO ORDER

Chairperson Backous called the regular meeting of the Public Works Committee to order at 7:03 p.m.

2. CITIZEN INPUT

There was none.

3. APPROVE AGENDA

Motion by Councilmember Kuzma, seconded by Councilmember Riley, to approve the agenda, as presented.

Motion carried. Voting Yes: Chairperson Backous, Councilmembers Kuzma and Riley. Voting No: None.

4. APPROVE MINUTES

4.01: Approve October 21, 2014, Meeting Minutes

Motion by Councilmember Riley, seconded by Councilmember Kuzma, to approve the following minutes:

Regular Meeting Minutes dated October 21, 2014

Motion carried. Voting Yes: Chairperson Backous, Councilmembers Riley and Kuzma. Voting No: None.

5. COMMITTEE BUSINESS

5.01: Consider Stop Sign Installations on 146th Avenue at Iodine Street

City Engineer Westby reviewed the staff report and noted staff recommends installing two stop signs on Iodine Street. He said this can be done with in-house staff. This will be a 3-way stop. He pointed out the existing policy does not have language on what would trigger the installation of a stop sign. Staff will develop a policy to bring it back to have it considered.

Chairperson Backous asked whether each request has to come back to the committee if there is a policy. As long as a policy was in place, and staff followed the policy, it may not have to be formally discussed by a committee.

City Engineer Westby noted it could be written into the policy that not every request would have to be brought to Council and it could be delineated which situations need discussion.

Motion by Councilmember Riley, seconded by Councilmember Kuzma, to recommend that the City Council approve the installation of stop signs on 146th Avenue on both sides of Iodine Street.

Further discussion: Chairperson Backous questioned if the traffic count is 300 trips per day on the average. Public Works Superintendent Riemer stated they counted 10 trips per resident per day is normal. Chairperson Backous stated this count seems high.

Motion carried. Voting Yes: Chairperson Backous, Councilmembers Riley and Kuzma. Voting No: None.

6. COMMITTEE / STAFF INPUT

City Administrator Ulrich noted crossing flags have been installed at Ramsey Elementary.

Public Works Superintendent Riemer explained the flags were installed on the County signs. Anoka County took objection to that, so staff moved and reinstalled them. He said neither Mn/DOT nor MUDTC have a standard sign for crossing flags, so staff had to make them. He said 20 flags were dropped off at the Elementary School. Recently only one was seen on the stand. Public Works Superintendent Riemer explained that it works with one person picking up a flag on one side of the street and carrying it and depositing it in a tube on the other side of the street. It creates awareness.

Mayor Strommen said she will investigate why there aren't more crossing flags.

Public Works Superintendent Riemer noted the stopping rate went up 74%.

Chairperson Backous inquired if there are crossing flags anywhere else.

Mayor Strommen noted she saw them at a school on Grand Avenue in St. Paul, and has seen them in Salt Lake City.

City Engineer Westby pointed out this is not in the *Minnesota Manual of Traffic Control Devices*, and it is not recognized as a manner of traffic control.

Mayor Strommen stated she has talked to Anoka County Commissioner Look regarding this issue and she is keeping him updated.

City Administrator Ulrich noted there is an open house on Thursday, November 20, from 4:00 to 7:00 p.m. regarding the Armstrong Interchange for the business community in the vicinity. He said Armstrong Kennel will be present to voice their opinion on the construction staging. He said Mn/DOT indicated the project can be done in eight months if Armstrong Boulevard is closed. If Armstrong Boulevard is not closed, it will take two years.

Councilmember Kuzma thanked the Council for the earlier Work Session and said it was a good discussion on the tax assessment. He stated the decision to assess each project will be a fair and positive outcome.

Chairperson Backous agreed.

7. ADJOURNMENT

Motion by Councilmember Kuzma, seconded by Councilmember Riley to adjourn the Public Works Committee meeting.

Motion carried.

The regular meeting of the Public Works Committee adjourned at 7:18 p.m.

Respectfully submitted,

Grant Riemer
Public Works Superintendent

Drafted by Chris Moksnes
TimeSaver Off Site Secretarial, Inc.

Public Works Committee

5. 1.

Meeting Date: 01/20/2015

Submitted For: Grant Riemer, Engineering/Public Works

By: MaryJo Warner, Engineering/Public Works

Title:

Nominate Chair and Vice-Chair for the Public Works Committee.

Purpose/Background:

Annually, the Public Works Committee nominates a Chair and Vice-Chair for their meetings.

Timeframe:

5 minutes.

Observations/Alternatives:

n/a

Funding Source:

n/a

Recommendation:

Action:

Motion to nominate_as Chair and_as Vice-Chair of the Public Works Committee.

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
Grant Riemer	Grant Riemer	01/13/2015 09:23 AM
Kurt Ulrich	Kurt Ulrich	01/15/2015 09:07 AM
Form Started By: MaryJo Warner		Started On: 01/12/2015 03:19 PM
Final Approval Date: 01/15/2015		

Public Works Committee

5. 2.

Meeting Date: 01/20/2015

By: Chris Anderson, Community
Development

Title:

Consider Planning Commission Recommendation to Reconstruct a Temporary Cul-De-Sac on Feldspar Street in the Brookfield Subdivision

Purpose/Background:

21st Century Bank (the "Applicant") has submitted an application for Sketch Plan and Preliminary Plat for a proposed minor plat known as Brookfield 5th Addition. The minor subdivision proposes to re-plat approximately 0.31 acres to create one (1) buildable single-family lot. The proposed plat would not re-configure existing property lines, other than to encumber the existing cul-de-sac within right of way. The proposed plat would convert an existing outlot to a buildable lot (the "Property"). By definition, an outlot is an undeveloped area set aside for future development, at which time review of the feasibility and payment of development fees occur. The Property is generally located west of Nowthen Boulevard (CSAH 5) at the terminus of Feldspar Street and would gain access via an existing cul-de-sac constructed to temporary road standards.

At their January 8, 2015 meeting, the Planning Commission conducted a Public Hearing regarding this proposed plat. At least one (1) property owner adjacent to the cul-de-sac expressed concern with the existing conditions of the cul-de-sac. Previously, multiple property owners had expressed the same. The Planning Commission also expressed concern with the temporary cul-de-sac due to how it was originally constructed in a temporary fashion. The Planning Commission recommended that the City upgrade it to current construction standards within its existing footprint.

Timeframe:

30 minutes

Observations/Alternatives:

When BROOKFIELD 1ST ADD was approved, it was anticipated that the extension of Feldspar Street further south would occur in the near future to accommodate redevelopment of those larger, existing lots. Thus, the 'wings' of the cul de sac were designed and constructed to meet the standard of a temporary road, which does not include curb and gutter and only required a two (2) inch lift of bituminous pavement (note that Feldspar St does have curb and gutter through the center of the cul-de-sac, but the 'wings' do not). Those improvements were constructed in 2007 and signs of deterioration are beginning to emerge. It is also noted that the current configuration of curb and gutter creates maintenance issues for our Public Works Department during snow removal.

The owner of the adjacent parcel to the south has stated on multiple occasions, and again at the Public Hearing on January 8, 2015, that he he has no intention of selling or subdividing the adjacent parcel for the foreseeable future and also noted as such as part of the original review process of Brookfield in the past.

Furthermore, there is lowland in the rear yards of Lots 2 & 3, Block 3, Now and Then Estates that would further complicate the potential extension of Feldspar Street. While together these don't completely eliminate the possibility of future redevelopment and the extension of Feldspar Street, it certainly appears that it won't occur in the near future. Based on the unlikely development potential of the property to the south, at least based on information available at present time, the general sense is that this cul-de-sac is truly a 'permanent' cul-de-sac and that it should be reconstructed in accordance with the subdivision design standards of Chapter 117, Article III.

The cul-de-sac is currently encumbered with a Temporary Road Easement across portions of Lot 12, Block 2, Lot 1

Block 4, and the Property. The proposed plat of Brookfield 5th Addition would dedicate right-of-way to the City for the Property while the Temporary Road Easement would remain encumbering portions of the other two lots. The City has the opportunity to secure the necessary right-of-way as it is responding to a land use request for the Property. If directed, the City could begin discussions with the remaining impacted properties to secure the remainder of the right-of-way needs. Nonetheless, an easement exists today to allow for the cul-de-sac.

Upgrading the cul-de-sac to current construction standards would result in some benefit to our maintenance procedures. While it would not enlarge the existing footprint providing additional maneuvering area, it would eliminate the curb lines that run through the center of the cul-de-sac, thus improving the conditions during snow plowing events. Also, with Garnet St likely being reconstructed in 2015, it may be an opportune time to upgrade the cul-de-sac as the City would likely realize cost-savings on both mobilization and materials due to an anticipated reduction in bituminous pavement costs for 2015 construction due to the recent but prolonged drop in oil prices. Staff estimates the cost to reconstruct the cul-de-sac within its existing footprint will range between \$25,000 and \$50,000, depending on the level of subgrade corrections required and the limits of the required driveway apron reconstructions. Poor (clay) soils exist in this area of the City.

As a final note, within the past year, this is the second request of this nature that the City has reviewed. Additionally, similar requests have been submitted as part of the preparation of the Brookfield 4th Addition and Country Club Hills Plat. It has become very evident based on resident feedback and maintenance operations that the use of an outlot and temporary, reduced road easement is not the ideal tool to address adequate turn around space at the end of a street. Staff is working on developing a policy to avoid this situation in the future.

Alternatives

Option #1: Recommend to the City Council that the City upgrade this temporary cul-de-sac to current construction standards. Whether the Property is platted into a buildable lot or not, it has become evident that this cul-de-sac is no longer functioning as a temporary turn-around as originally anticipated and designed. In addition to addressing a concern raised by one of the property owners on this cul-de-sac during recent public hearings regarding the proposed plat, upgrading the cul-de-sac to current construction standards, within its existing footprint, would also benefit the City, at least as it relates to snow plowing.

Option #2: Recommend to the City Council that the Applicant be responsible for the upgrades to the cul-de-sac as part of their plat. Whether the existing outlot is platted as a buildable lot or not doesn't have any bearing on the current condition or status of the cul-de-sac. Until the property to the south is redeveloped, Feldspar Street will not be extended and thus, the cul-de-sac will remain, which means that it is really acting as a permanent cul-de-sac without being properly constructed. City Staff does not support this option, although the City would be acting within its abilities to consider at least a portion of the cost attributed to the Owner.

Option #3: Recommend to the City Council that no improvements be made to the cul-de-sac at this time. Regardless of whether Brookfield 5th Addition is approved or not, this reconstruction of the cul-de-sac will need to be addressed. It is likely that the temporary cul-de-sac wing sections will deteriorate at a quicker pace than the remainder of Feldspar Street, and thus require reconstruction sooner. Upgrading the cul-de-sac this year would allow the City to capitalize on both anticipated lower costs for bituminous material in 2015 and a savings on mobilization due to the likely reconstruction of Garnet Street in the near vicinity. Furthermore, if the cul-de-sac is left as is, there is no benefit realized with regarding to snow plowing. City Staff does not support this option.

Funding Source:

Staff estimates the cost to reconstruct the cul-de-sac within its existing footprint will range between \$25,000 and \$50,000, depending on the level of subgrade corrections required and the limits of the required driveway apron reconstructions. The funding source is yet to be determined.

Recommendation:

The Planning Commission has recommended that the City upgrade the cul-de-sac to current construction standards within its existing footprint. The end effect will not enlarge the cul-de-sac diameter itself, but improve the pavement quality and construction.

Action:

Motion to recommend to City Council that the City upgrade the temporary cul-de-sac to current construction standards within its existing footprint.

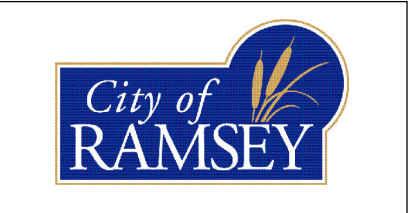
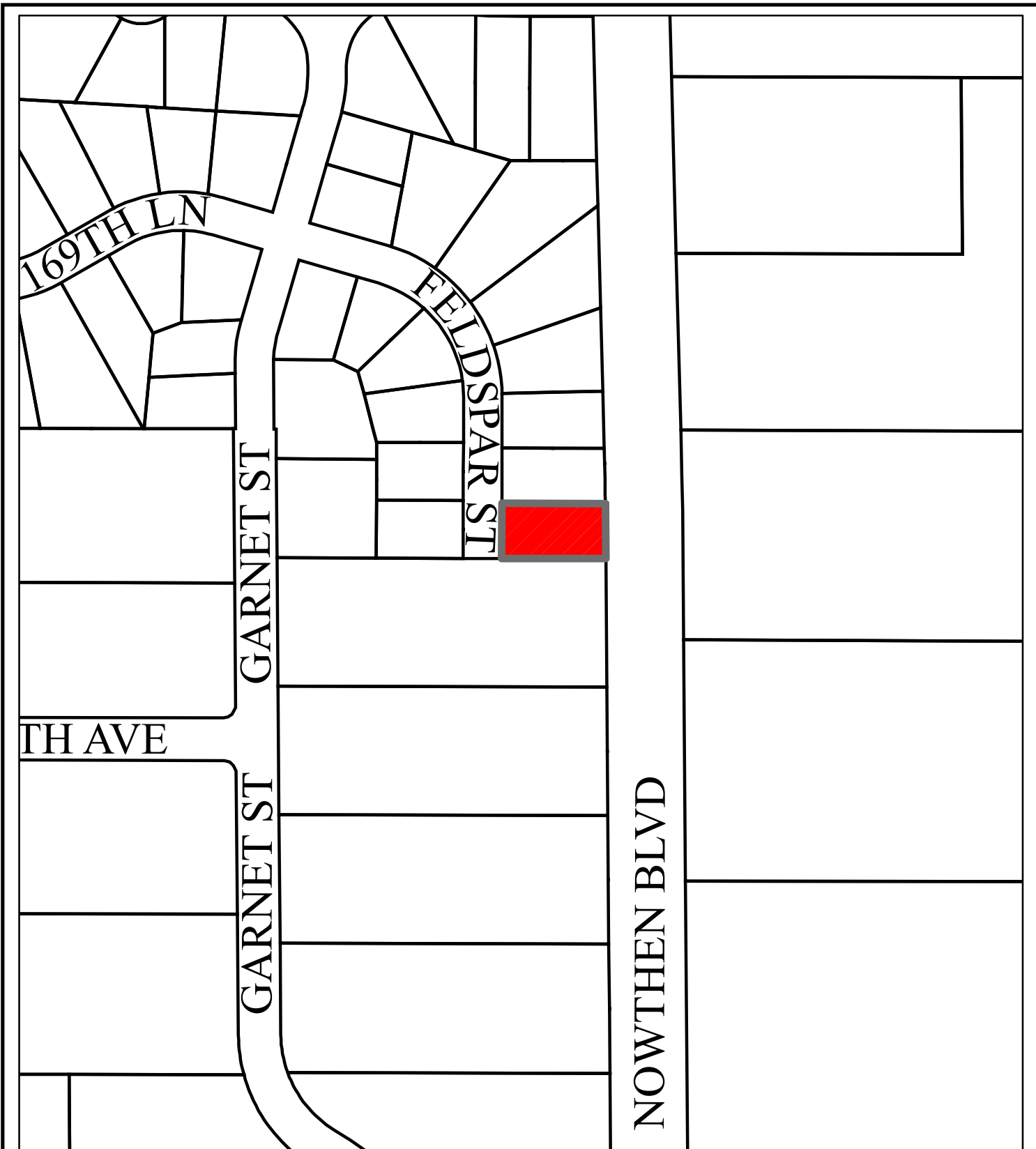
Attachments

Site Location Map

Brookfield 5th Add Preliminary Plat

Form Review

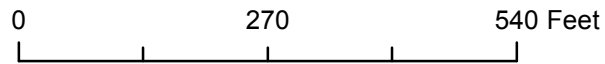
Inbox	Reviewed By	Date
Tim Gladhill	Tim Gladhill	01/14/2015 04:28 PM
Bruce Westby	Bruce Westby	01/15/2015 11:21 AM
Grant Riemer	Grant Riemer	01/15/2015 11:26 AM
Kurt Ulrich	MaryJo Warner	01/15/2015 01:13 PM
Form Started By: Chris Anderson		Started On: 01/12/2015 10:15 AM
Final Approval Date: 01/15/2015		



Brookfield Fifth Addition

Legend

-  Site
-  Parcels

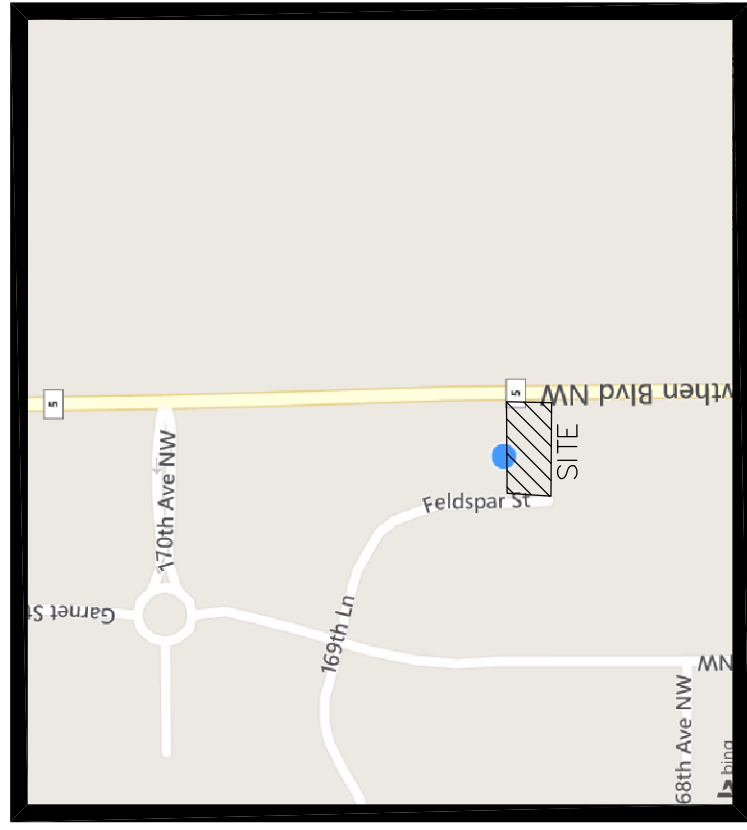


PRELIMINARY PLAT

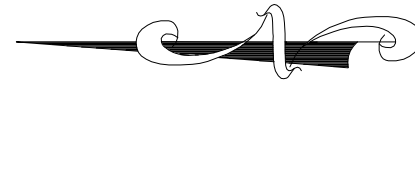
~of~ BROOKFIELD FIFTH ADDITION
 ~for~ 21ST CENTURY BANK
 9380 CENTRAL AVENUE NE
 BLAINE, MN 55434

VICINITY MAP

PART OF SEC. 10, TWP. 32, RNG. 25

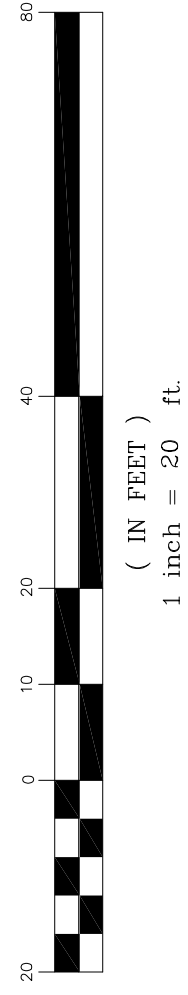


ANOKA COUNTY, MINNESOTA
 (NO SCALE)



NORTH

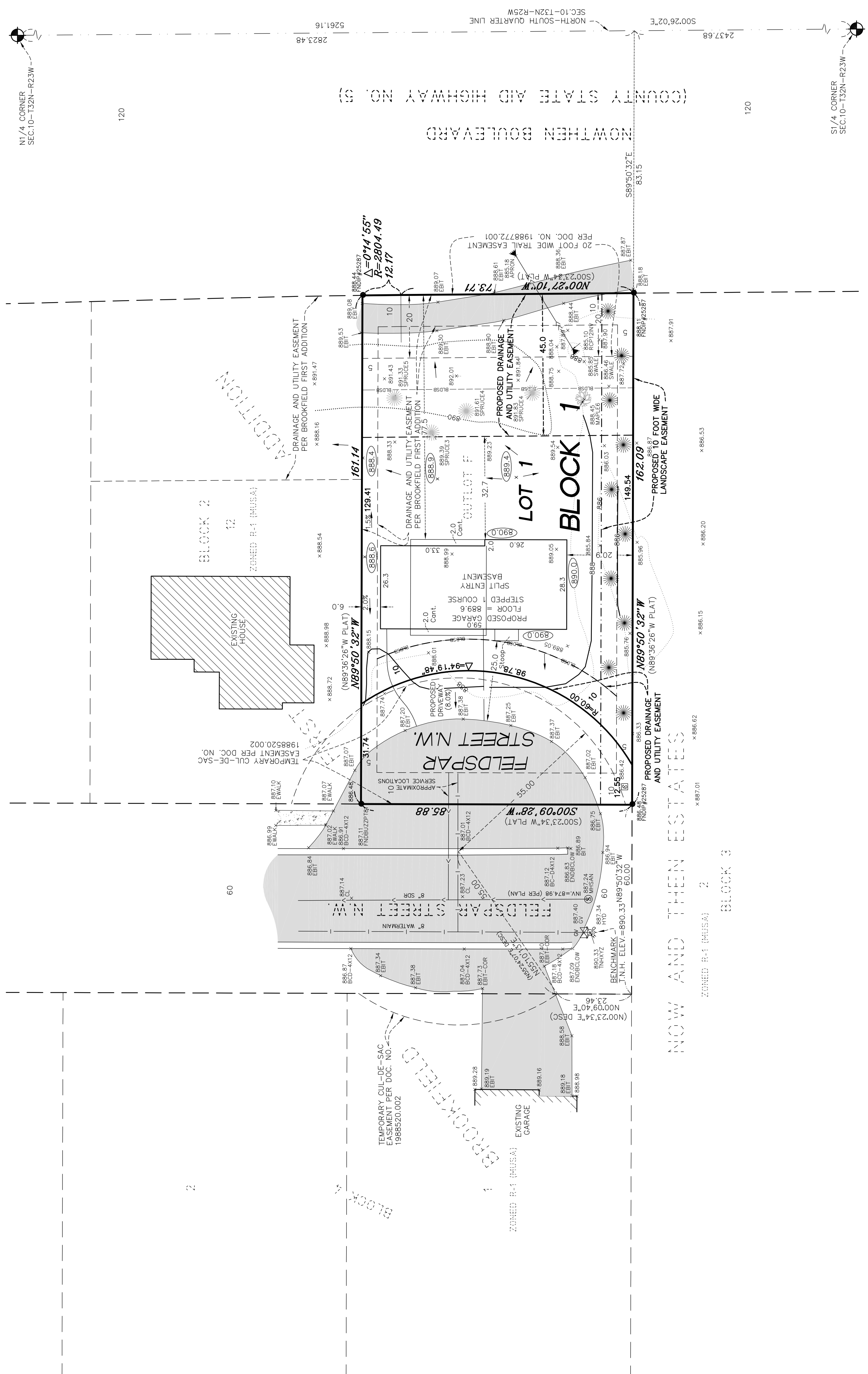
GRAPHIC SCALE



LEGEND

- DENOTES IRON MONUMENT FOUND AS LABELED
- DENOTES ANOKA COUNTY CAST IRON MONUMENT
- DENOTES CABLE PEDESTAL
- ⊗ DENOTES SANITARY SEWER MANHOLE
- ⊕ DENOTES HYDRANT
- ⊗ DENOTES GATE VALVE
- ⊗ DENOTES EXISTING SPOT ELEVATION
- ⊗ DENOTES STORM SEWER APRON
- ⊗ DENOTES EXISTING CONTOURS
- ⊗ DENOTES EXISTING SANITARY SEWER
- ⊗ DENOTES EXISTING STORM SEWER
- ⊗ DENOTES EXISTING WATER MAIN
- ⊗ DENOTES BUILDING SETBACK LINE
- ⊗ DENOTES CONCRETE SURFACE
- ⊗ DENOTES BITUMINOUS SURFACE
- ⊗ DENOTES PROPOSED CONTOURS
- ⊗ DENOTES PROPOSED ELEVATION
- ⊗ DENOTES DIRECTION OF DRAINAGE
- ⊗ DENOTES PROPOSED CONIFEROUS TREE PLANTING (SIZE, CALIBER AND SPECIES PER CITY SPECIFICATIONS)

E.G. RUD & SONS, INC.
 EST. 1977
 Professional Land Surveyors
 6776 Lake Drive NE, Suite 110
 Lino Lakes, MN 55014
 Tel. (651) 361-8200 Fax (651) 361-8701
 www.egrud.com



PROPERTY DESCRIPTION

- Outlot F, BROOKFIELD FIRST ADDITION, Anoka County, Minnesota.
- Field survey was completed by E.G. Rud and Sons, Inc. on 06/17/14 and 8-6-14.
- Bearings shown are on the Anoka County Coordinate System.
- Curb shots are taken at the top and back of curb.
- This survey was prepared based upon Title Commitment File No. 3205-21-2283, prepared by WFG National Title Insurance Company, dated June 25, 2014.

NOTES

AREA COMPUTATIONS

TOTAL SITE AREA: 13,881± S.F.
 PROPOSED SINGLE FAMILY LOT: 10,870± S.F.
 PROPOSED RIGHT OF WAY: 3,071± S.F.
 1 PROPOSED SINGLE FAMILY LOT
 DENSITY: 3.1 LOTS/ACRE

ZONING AND SETBACKS

CURRENT ZONING IS R-1 RESIDENTIAL (MUSA)
 PROPOSED ZONING IS R-1 RESIDENTIAL (MUSA)

FRONT SETBACK 25 FEET (FROM BITUMINOUS CUL-DE-SAC) [VARIANCE REQUIRED]
 10 FEET (FROM RIGHT-OF-WAY)
 HOUSE SIDE SETBACK (INTERIOR) 10 FEET
 GARAGE SETBACK 6 FEET
 REAR SETBACK 30 FEET

DEVELOPMENT REQUIREMENTS FOR ZONE R-1 RESIDENTIAL (MUSA)
 MINIMUM LOT AREA 10,800 S.F.
 MINIMUM LOT WIDTH 80 FEET AT SETBACK LINE

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.

JASON E. RUD
 License No. 41578
 Date: 1-05-2015

NO.	DATE	DESCRIPTION	BY
1	08/07/14	Additional Topo	JEN
2	12/05/14	Revision per staff meeting	JEN
3	1/05/15	Revision per city staff	JEN

Public Works Committee

5.3.

Meeting Date: 01/20/2015

By: Bruce Westby, Engineering/Public Works

Title:

Consider City of Anoka request to extend sewer and water to serve two City-owned parcels.

Purpose/Background:

Purpose:

The purpose of this case is to review the attached draft Joint Powers Agreement addressing the costs, terms and conditions associated with the City of Anoka's request for the City of Ramsey to extend public sanitary sewer and water utilities into the City of Anoka, and to provide a recommendation to the City Council in response to Anoka's request. The extended utilities would serve two City of Anoka-owned parcels south of Highway 10 and east of the existing Rivlyn Avenue cul-de-sac.

Background:

City of Ramsey sanitary sewer and watermain are proposed to be extended east of Rivlyn Avenue to serve the proposed Ridgepoint 7-unit residential development, pending required approvals. The Ridgepoint development has received preliminary plat approval from the City, and staff is working with the developer's engineer to prepare plans for bidding the public improvements this winter for spring construction. The City of Anoka owns two parcels immediately east of the proposed Ridgepoint development and is therefore requesting that the City of Ramsey extend our public utilities to serve their two parcels as shown in the attached plan sheet.

Attached is a draft Joint Powers Agreement (JPA) between the City of Anoka and the City of Ramsey as drafted by the City of Anoka and reviewed by the Ramsey City Attorney. The City Attorney's comments are included in track changes format.

The draft JPA defines the scope of the proposed utility extensions, the costs to be paid by the City of Anoka for constructing and maintaining the utility extensions, and all other applicable terms and conditions regarding the rights and responsibilities of both cities related to constructing and maintaining the utilities.

At the time this case was published, City staff had completed a preliminary review of the JPA to ensure it contains all necessary provisions to protect the City of Ramsey from future expenses or liabilities related to the utility extensions serving the City of Anoka, and to protect against future interruption of services for our businesses and residents. If any additional revisions are recommended/requested by staff, this information will be presented to the Committee during presentation of this case.

Staff plans to request City Council approval of the draft JPA on January 27th.

Timeframe:

Approximately 10 minutes for presentation and discussion.

Observations/Alternatives:

Observations:

A similar JPA exists between the City of Anoka and the City of Coon Rapids. Staff therefore believes the City of Anoka's request is reasonable and that the City should give serious consideration to approving it.

Alternatives:

Alternative #1 – Motion recommending City Council approval of the draft JPA as is.

Alternative #2 – Motion recommending City Council approval of the draft JPA with the following minor modifications; _____.

Alternative #3 – Motion recommending City Council denial of the draft JPA pending resolution of the following issue(s); _____.

Funding Source:

No funding is required from the City of Ramsey to approve this request, other than the staff time required to process the request.

Per the attached JPA, the City of Anoka will pay for all costs associated with the development and recording of the JPA, and for constructing and maintaining the utility extensions based on the locations identified in the JPA.

Recommendation:

Staff recommends selecting Alternative #1 if the Public Works Committee supports the City of Anoka’s request and draft JPA as written. Staff would also support selecting Alternative #2 if the Committee requests minor modifications be made to the JPA.

Though not supported by staff, Alternative #3 should be selected if the Public Works Committee does not support Anoka’s request in general or the draft JPA without one or more significant issues first being addressed.

Action:

Recommend City Council approval or denial of the draft JPA.

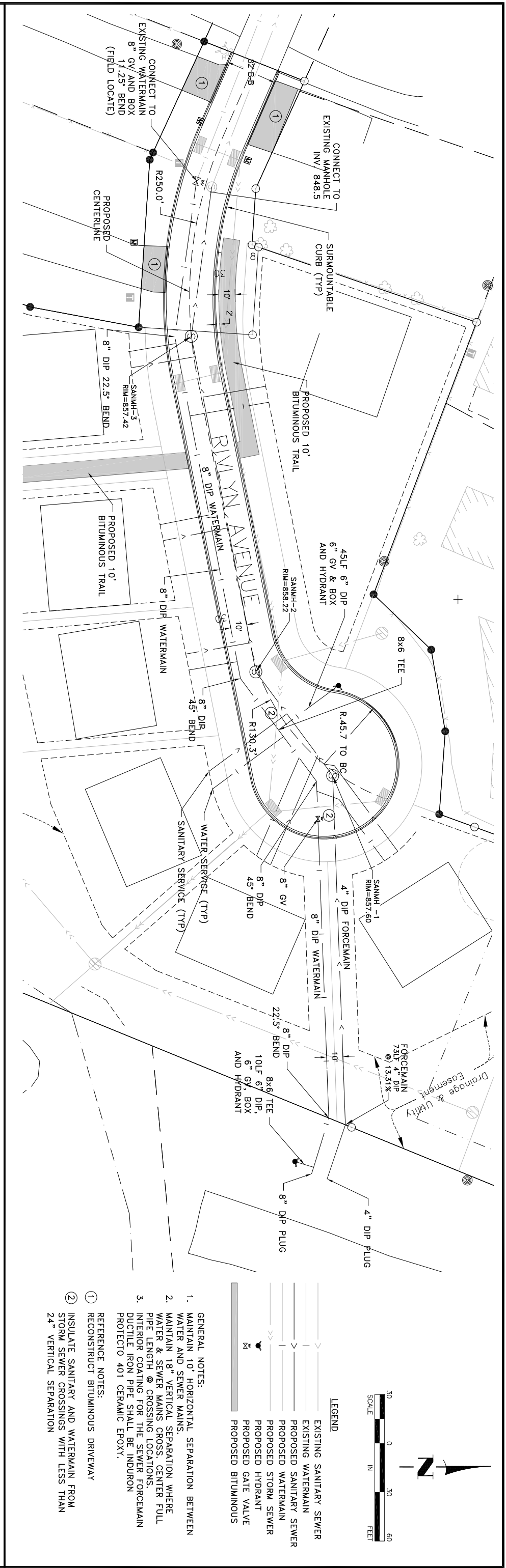
Attachments

JPA Exhibit A

JPA Anoka Utility Services

Form Review

Inbox	Reviewed By	Date
Grant Riemer	Grant Riemer	01/15/2015 12:58 PM
Kurt Ulrich	MaryJo Warner	01/15/2015 01:13 PM
Form Started By: Bruce Westby		Started On: 01/12/2015 04:14 PM
Final Approval Date: 01/15/2015		

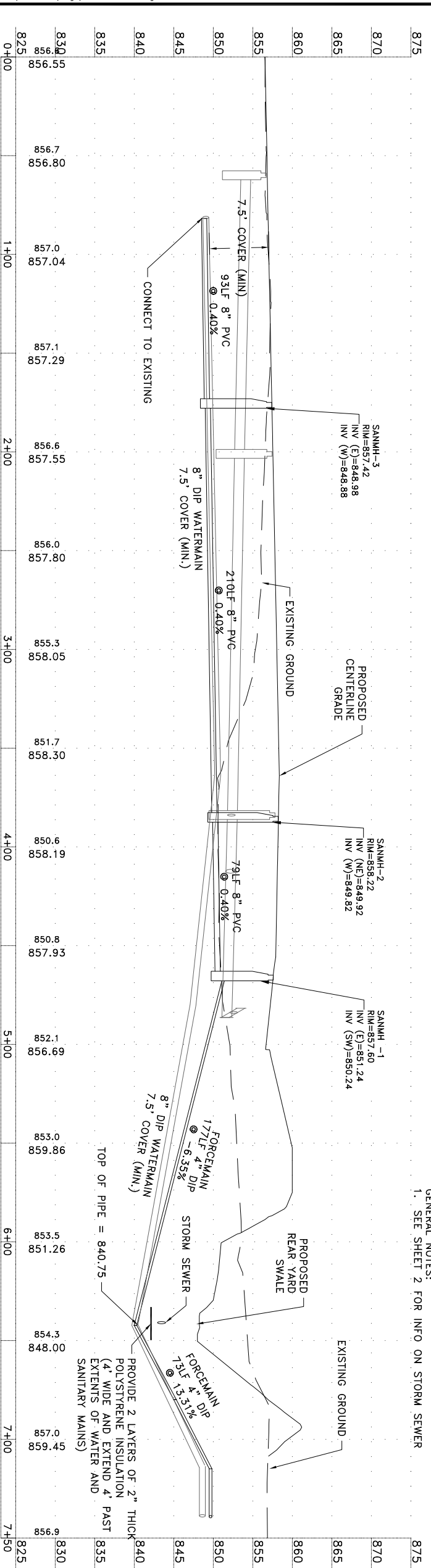


- LEGEND**
- EXISTING SANITARY SEWER
 - EXISTING WATERMAIN
 - PROPOSED SANITARY SEWER
 - PROPOSED WATERMAIN
 - PROPOSED STORM SEWER
 - PROPOSED HYDRANT
 - PROPOSED GATE VALVE
 - PROPOSED BITUMINOUS

- GENERAL NOTES:**
1. MAINTAIN 10' HORIZONTAL SEPARATION BETWEEN WATER AND SEWER MAINS.
 2. MAINTAIN 18" VERTICAL SEPARATION WHERE WATER & SEWER MAINS CROSS. CENTER FULL PIPE LENGTH @ CROSSING LOCATIONS. INTERIOR COATING FOR THE SEWER FORCEMAIN DUCTILE IRON PIPE SHALL BE INDURON PROTECTO 401 CERAMIC EPOXY.
- REFERENCE NOTES:**
- ① RECONSTRUCT BITUMINOUS DRIVEWAY
 - ② INSULATE SANITARY AND WATERMAIN FROM STORM SEWER CROSSINGS WITH LESS THAN 24" VERTICAL SEPARATION

GENERAL NOTES:

1. SEE SHEET 2 FOR INFO ON STORM SEWER



DATE	REVISION	DESIGNER	CHECKER	TITLE
11/19/14	FINAL DEVELOPMENT PLANS	AMT	AMT	TALE

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

ADAM M. THIEL, PE
 Lic. No. 51317
 Date 6/23/14

Hakanson Anderson
 Civil Engineers and Land Surveyors
 3601 Thurston Ave., Anoka, Minnesota 55303
 763-427-5860 FAX 763-427-0520
 www.hakanson-anderson.com

RIDGEPOINT

STREET & UTILITY PLAN
 CITY OF RAMSEY, MINNESOTA

SHEET 8 OF 8 SHEETS

Exhibit A

**A JOINT POWERS AGREEMENT BY AND BETWEEN THE
CITIES OF ANOKA AND RAMSEY
FOR THE CONSTRUCTION AND MAINTENANCE OF
CERTAIN PUBLIC UTILITIES WITHIN THE
CITY OF ANOKA AND THE CITY OF RAMSEY**

This Agreement made and entered into this the 9th day of December, 2014, by and between the City of Anoka, a municipal corporation (hereinafter referred to as "Anoka") and the City of Ramsey, a municipal corporation (hereinafter referred to as "Ramsey").

WITNESSETH:

WHEREAS, Anoka and Ramsey share a common border; and

WHEREAS, there are two parcels within the City of Anoka limits currently not served by municipal sewer or water service; and

WHEREAS, said parcels are commonly known as 6058 Highway 10 (PIN #35-32-25-31-0001), a 0.43 acre parcel, and 6050 Highway 10 (PIN #35-32-25-31-0004), a 3.85 acre parcel; and

WHEREAS, Ramsey has a proposed subdivision ("~~Ramsey Subdivision~~Ridgepoint") whereby the public utilities located within the Rivlyn Avenue right-of-way would be extended to the east near the common municipal border as more fully illustrated in the attached Exhibit A; and

WHEREAS, an engineering analysis indicates that the most efficient and cost-effective way to provide parcels PIN #35-32-25-31-0001 and PIN #35-32-25-31-0004 in Anoka with municipal utilities is by extending water and sanitary sewer services from the Ramsey-Ridgepoint Subdivision to these parcels in Anoka; and

WHEREAS, Minnesota Statutes Section 471.59 authorizes political subdivisions of the State to enter into joint power agreements for the joint exercise of powers common to each.

NOW, THEREFORE, it is mutually stipulated and agreed:

- 1 Purpose: As part of the public improvement process associated with ~~the Ramsey Subdivision~~Ridgepoint, Ramsey will allow for the extension of water and sanitary sewer services into that parcel located in the City of Anoka, identified as PIN #35-32-25-31-0004, as more fully illustrated in the attached Exhibit A.
- 2 Services: The services contemplated by this Agreement shall include an 8 inch diameter ductile iron pipe as the water service, with a hydrant connection and hydrant at the end, and a 4 inch ductile iron pipe (force main) to serve as a sanitary sewer service.

3. Cost: The City of Anoka shall pay for all costs to extend the sanitary forcemain from the easternmost manhole to the end of the pipe, and the watermain from the easternmost valve to the end of the pipe and the hydrant ~~said utility services to on~~ parcel PIN#35-32-25-31-0004, including, but not limited to engineering, inspection, testing, and administrative costs.
4. Sewer and Water Charges: Upon connection to the water system constructed under this Agreement, and upon the development of parcel PIN#35-32-25-31-0004, the City of Ramsey shall install or require the developer of parcel 35-32-25-31-0004 to install ~~a~~-water meter(s) to monitor water services provided to said property. The owner(s) of said property within Anoka will be billed by the City of Ramsey for sewer and water services based upon methods and policies establishes for similar parcels within the Ramsey city limits and in accordance with rates established by the City of Ramsey. The City of Anoka will notify the City of Ramsey at such time as any new connection is made to the system.
5. Facility Maintenance and Operation: The City of Anoka shall retain ownership of and shall maintain the utility services for parcel PIN #35-32-25-31-0004 in Anoka. Maintenance work performed by the City of Anoka within the Ramsey City limits will require the City of Anoka to receive authorization from the City of Ramsey. The services will be defined as the point of connection to the Ramsey municipal systems to the common municipal border. The point of connection for the water service will be the last, easterly most gate valve on Rivlyn Avenue. The sanitary sewer service connection will be the point where the service connects to the last, easterly most, sanitary sewer manhole on Rivlyn Avenue.
6. Inspection: The City of Anoka grants the City of Ramsey the right to install and periodically monitor the sewage flow in the sewer manhole located at the Rivlyn Avenue right-of-way to evaluate any infiltration or inflow that may be introduced into the sewage line.
7. Indemnification: Each party hereto agrees to indemnify, defend and hold harmless the other from any claims, losses, costs, expenses or damages resulting from the acts or omissions of its respective officers, agents, or employees relating to activities conducted under this Agreement.
8. Contingency: This Agreement is contingent upon the extension of the Ramsey utility services identified herein to the points illustrated in attached Exhibit A.
- ~~8.~~9. Termination: This agreement shall continue until rescinded by joint resolution of Ramsey and Anoka.
- ~~9.~~10. Entire Agreement/Requirement of a Writing: It is understood and agreed that the entire agreement of the parties is contained herein and this Agreement supersedes all Agreements and all negotiations between the parties relating to the subject matter

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thereof as well as any previous Agreement presently in effect between the parties relating to the subject matter thereof. Any alterations, variations, or modifications of the provisions of the Agreement shall be valid only when they have been reduced to writing and duly signed by the parties therein.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement by their duly authorized officers.

CITY OF ANOKA

CITY OF RAMSEY

Phil Rice, Mayor

Sarah Strommen, Mayor

Tim Cruikshank, City Manager

Kurt Ulrich, City Administrator

Approved as to Form

Approved as to Form

| Scott C. Baumgartner, City Attorney

~~Joe~~ [Joseph J. Langel](#), City Attorney

Public Works Committee

5. 4.

Meeting Date: 01/20/2015

By: Bruce Westby, Engineering/Public Works

Title:

Update on 2015 Jarvis Street Reconstruction Plans and Estimated Costs

Purpose/Background:

Purpose:

The purpose of this case is to update the Public Works Committee on Elk River's Council approved plans and updated estimated costs to reconstruct Jarvis Street between Highway 10 and 165th Avenue as part of their 2015 street reconstruction program, which includes approximately 3,800 linear feet of Jarvis Street that is shared between the cities of Elk River and Ramsey, and to improve the Jarvis Street railroad crossing to allow the crossing to become a railroad quiet zone.

Background:

On September 16th, 2014, staff presented the attached proposal letter from the City of Elk River dated August 28th, 2014 requesting that the City of Ramsey share in 50% of the costs to reconstruct about 3,800 linear feet of Jarvis Street between Highway 10 and 165th Avenue that is shared by the two cities, and to improve the Jarvis Street railroad crossing to make it quiet zone eligible. As noted at the time, though the railroad crossing is located entirely within the City of Elk River, City of Ramsey businesses and residents would benefit from the quiet zone so Elk River requested that the City of Ramsey contribute 50% of the costs. Elk River proposed to reconstruct Jarvis Street as a 9-ton road with bituminous pavement and concrete curb and gutter at a width of 32-feet. In addition, a 10-foot wide off-road bituminous trail was proposed to be constructed west of Jarvis Street to connect the City of Ramsey's Mississippi River Trail, which is proposed to be constructed along the south side of Highway 10, to Elk River's proposed Mississippi River Trail, which is proposed to be routed through the City of Elk River and not along Highway 10. Though this work is not included in the City of Ramsey's 2015 Capital Improvement Program it was discussed that the City of Elk River is willing to pay the City of Ramsey's up-front costs and then allow us up to 3 years to pay back our portion of the costs, interest-free. The total City of Ramsey estimated cost-share in September of 2014 was \$970,728.

In January of 2015, City staff received the attached City Council case with attached Feasibility Report from Elk River, along with the attached memo from their consulting engineer Bolton-Menk, Inc, (BMI) dated October 29th, 2014. The memo addresses revised estimated project costs based on City Council direction to revise the design for reconstructing Jarvis Street from a 32-foot wide street with two 16-foot through lanes, to a 36-foot wide street with two 12-foot wide through lanes and two 6-foot wide on-road bike lanes. No off-road trail is proposed to be constructed. Per the attached memo and 2-page cost estimate reflecting the old 32-foot wide street design, the revised 36-foot wide street design increases the City of Ramsey's costs by \$56,910 resulting in a new total City of Ramsey estimated cost-share of \$920,305.50.

Timeframe:

Approximately 15 minutes for presentation and discussion.

Observations/Alternatives:

Attached are updated plan sheets showing the 36-foot wide design for Jarvis Street.

The new total estimated cost-share for the City of Ramsey of \$920,305.50 is \$50,376 less than the amount previously discussed with the Public Works Committee when the Committee recommended Council approval of the project. Since then, staff has been waiting for further direction from Elk River before presenting the project to the City Council for consideration of approval.

In 2014 City of Ramsey staff rated this section of Jarvis Street with a PASER rating of 2 which warrants a total reconstruction. While this is not the worst street in the City of Ramsey, it certainly ranks quite close and as such is included in the City's 5-year CIP for street reconstruction projects.

Though the adjacent property uses are very different on either side of the shared section of Jarvis Street, with industrial properties in Elk River and residential properties in Ramsey, Jarvis Street is designated as a Municipal State Aid Street by both cities and as such must be reconstructed to State Aid standards as proposed by Elk River.

Reconstructing this section of Jarvis Street at the same time as the reconstruction of Andie Street and/or 164th Lane in 2016 and/or 2017 as shown in the current CIP would not be a good option as access to 164th Lane would be required from Jarvis Street from time to time. Therefore, reconstructing Jarvis Street in 2015 fits well with our scheduled road reconstruction projects.

Funding Source:

Based on Elk River's estimated cost-share information attached, the City of Ramsey's share of the project costs, estimated at 50%, equals \$920,305.50.

As previously noted, the City of Elk River is agreeable to paying for the City of Ramsey's share of the costs up-front with an interest-free payback period of 3-years. The proposed funding sources for this work include a mix of State Aid funds and road reconstruction bond funds which would be used to pay the City of Elk River back over a 3-year period from 2016 to 2018.

This project is not included in the City's 5-year Street Maintenance Program.

Recommendation:

Due to the mutual benefits provided by this project, and the ability to pay the costs back interest-free over a 3 year term, Staff recommends that the Public Works Committee recommend City Council approval of Elk River's revised cost-share proposal.

Action:

Motion recommending City Council approval or denial of the City of Elk River's revised cost-share proposal.

Attachments

[Elk River Proposal Ltr 102814](#)

[Elk River CCcase w Feas Rpt](#)

[Updated Ramsey Cost-Share Estimate](#)

[Updated Jarvis St Plan and Profile](#)

Form Review

Inbox	Reviewed By	Date
Grant Riemer	Grant Riemer	01/15/2015 03:21 PM
Kurt Ulrich	MaryJo Warner	01/15/2015 03:50 PM
Form Started By: Bruce Westby		Started On: 01/12/2015 03:51 PM
Final Approval Date: 01/15/2015		



August 28, 2014

Mr. Kurt Ulrich
City of Ramsey
7550 Sunwood Drive NW
Ramsey, MN 55303

Re: Jarvis Street and Quiet Zone Improvements

Dear Kurt:

Thank you for taking the time to meet with me and our City Engineer, Justin Femrite, on August 15 to discuss planned reconstruction of Jarvis Street and possible quiet zone improvements to the Jarvis Street and BNSF rail crossing.

The reconstruction of Jarvis St. was discussed by the Elk River and Ramsey City Councils at their last joint meeting held on May 9, 2011. At the meeting, the Ramsey Council indicated their desire to fund a portion of the improvements necessary to quiet the Jarvis rail crossing.

We have worked with our design team to prepare a preliminary estimate of cost for the common boarder along Jarvis as well as rail crossing quiet zone. The attached figure identifies our full project limits in yellow with the proposed cost split areas highlighted in red. Jarvis St. is proposed to be constructed as a 9-ton, 32-foot wide roadway with concrete curb and gutter and a 10' trail on the west side. Storm sewer piping will be installed to convey the water along this section of road to expanded and newly created ponding areas. Improvements at the rail crossing include non-traversable medians, a new crossing surface and upgraded gate system.

As discussed, we are seeking approval on the splitting of costs (50/50) for both the street reconstruction and the necessary quiet zone improvements. We are working toward final improvement design with expected construction in 2015.

We understand the Jarvis improvements are not currently in the City of Ramsey Capital Improvement plan. The Jarvis project is part of a large 2015 reconstruction plan in Elk River and we are confident we will receive attractive bid pricing. With respect to your capital plans, the City of Elk River is willing to cover the upfront expenditures with repayment of your share of costs from the City of Ramsey over the next three years.

Phone: 763.635.1000

www.ElkRiverMN.gov



Thanks again, Kurt, for taking the time to meet and discuss these mutually beneficial improvements. We look forward to collaborating to improve the quality of life of our communities.

If you have any further questions, please don't hesitate to let me know.

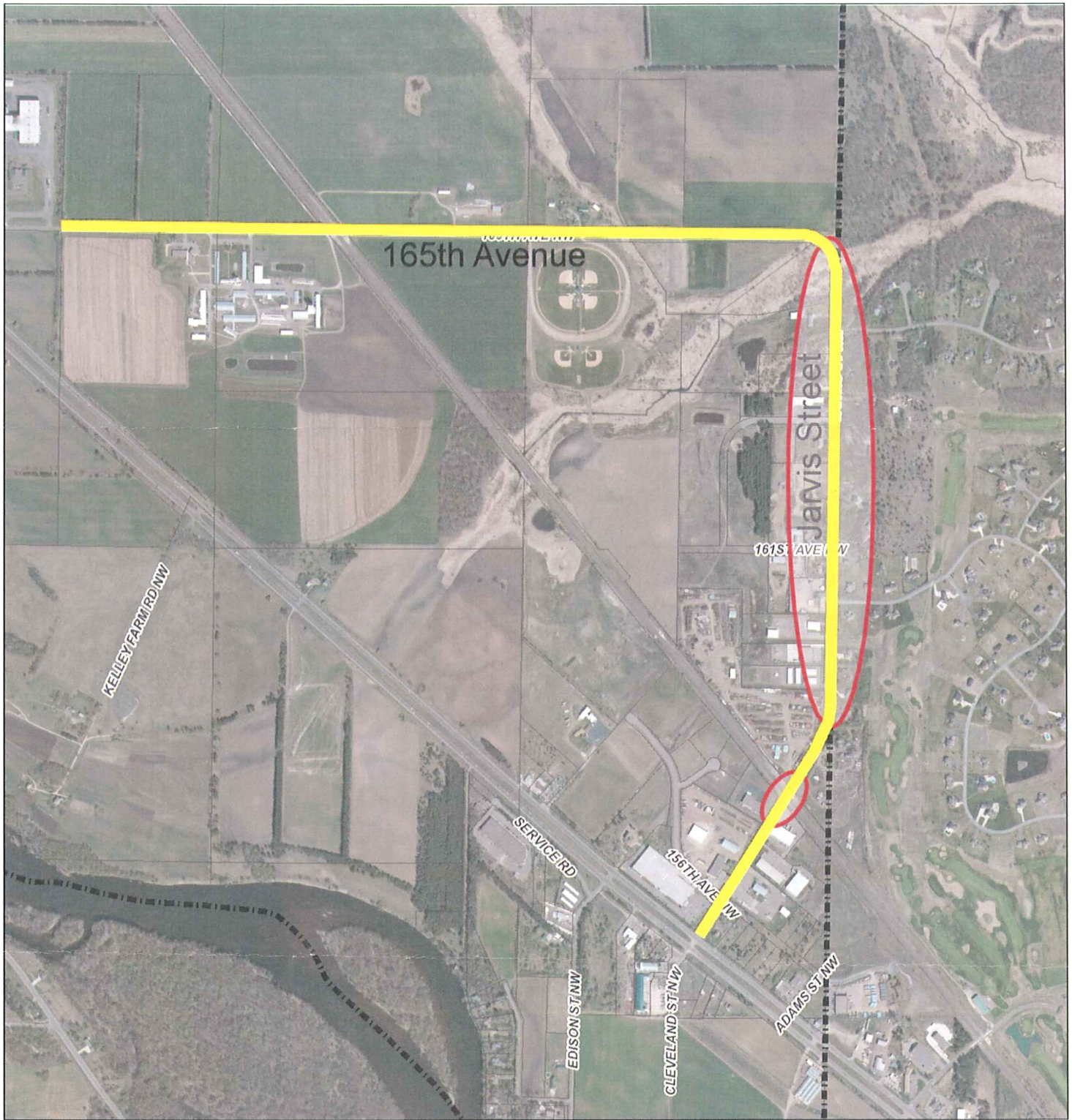
Sincerely,



Calvin P. Portner
City Administrator

Enclosure

cc: Justin Femrite, City Engineer



0 1,134 Feet

Disclaimer:
 This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information, and data located in various city, county, and state offices, and other sources affecting the area shown, and is to be used for reference purposes only. The City of Elk River is not responsible for any inaccuracies herein contained.



**165th and Jarvis
 Improvements**

JARVIS STREET
 COST SHARING
 STA. 79+00 TO STA. 117+00
 CITY OF ELK RIVER

NO.	ITEM	UNITS	QTY	UNIT PRICE	TOTAL PRICE
STREETS					
1	MOBILIZATION	LUMP SUM	1.00	\$15,000.00	\$15,000.00
2	TRAFFIC CONTROL	LUMP SUM	1.00	\$6,000.00	\$6,000.00
3	RECLAIM BITUMINOUS PAVEMENT (9")	SQ YD	10133	\$4.00	\$40,532.00
4	SUBGRADE EXCAVATION	CU YD	5600	\$7.00	\$39,200.00
5	COMMON EXCAVATION	CU YD	5500	\$8.00	\$44,000.00
6	POND EXCAVATION	CU YD	2200	\$8.00	\$17,600.00
7	GRANULAR BORROW	CU YD	17600	\$5.00	\$88,000.00
8	AGGREGATE BASE CLASS 5	TON	8000	\$12.00	\$96,000.00
9	TYPE SP 12.5 WEARING COURSE MIX (4,E)	TON	1500	\$75.00	\$112,500.00
10	TYPE SP 12.5 NON WEARING COURSE MIX (4,B)	TON	1900	\$70.00	\$133,000.00
11	BITUMINOUS TRAIL (10')	TON	770	\$100.00	\$77,000.00
12	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	7600	\$12.00	\$91,200.00
13	COMMON TOPSOIL BORROW	CU YD	2500	\$20.00	\$50,000.00
14	SODDING TYPE LAWN	SQ YD	15000	\$3.50	\$52,500.00
15	STRIPING AND SIGNAGE	LUMP SUM	1	\$6,000.00	\$6,000.00
16	SILT FENCE	LIN FT	7600	\$3.00	\$22,800.00
17	TREE REMOVAL	ACRE	1.5	\$10,000.00	\$15,000.00
18	REMOVE & REPLACE LANDSCAPING	LUMP SUM	1	\$5,000.00	\$5,000.00
19	LAND ACQUISITION	SQ FT	10000	\$4.00	\$40,000.00
				SUBTOTAL STREETS COST	\$951,332.00
				10% CONTINGENCIES	\$95,130.00
				TOTAL STREETS COST	\$1,046,462.00
				INDIRECT COSTS (15%)	\$157,000.00
				TOTAL STREETS COST	\$1,203,462.00
				TOTAL CITY OF RAMSEY STREETS COST	\$601,731.00
STORM SEWER					
1	REMOVE CULVERT (RCP)	LIN FT	867	\$10.00	\$8,670.00
2	REMOVE DRAINAGE STRUCTURE	EACH	2	\$400.00	\$800.00
3	CONNECT TO EXISTING	EACH	3	\$300.00	\$900.00
4	CONST DRAINAGE STRUCTURE DESIGN G	LIN FT	34	\$260.00	\$8,840.00
5	CONST DRAINAGE STRUCTURE DES 48-4022	LIN FT	65	\$250.00	\$16,250.00
6	CASTINGS	EACH	24	\$700.00	\$16,800.00
7	12" RC PIPE CULVERT	LIN FT	1257	\$32.00	\$40,224.00
8	15" RC PIPE CULVERT	LIN FT	700	\$34.00	\$23,800.00
9	18" RC PIPE CULVERT	LIN FT	427	\$40.00	\$17,080.00
10	12" RC PIPE APRON	EACH	2	\$600.00	\$1,200.00
11	15" RC PIPE APRON	EACH	1	\$620.00	\$620.00
12	18" RC PIPE APRON	EACH	1	\$650.00	\$650.00
13	RANDOM RIPRAP CLASS IV	CU YD	30	\$80.00	\$2,400.00
14	STORM DRAIN INLET PROTECTION	EACH	24	\$150.00	\$3,600.00
				SUBTOTAL STORM SEWER COST	\$141,834.00
				10% CONTINGENCIES	\$14,180.00
				TOTAL STORM SEWER COST	\$156,014.00
				INDIRECT COSTS (15%)	\$23,440.00
				TOTAL STORM SEWER COST	\$179,454.00
				TOTAL CITY OF RAMSEY STORM SEWER COST	\$89,727.00

JARVIS STREET
 COST SHARING
 STA. 79+00 TO STA. 117+00
 CITY OF ELK RIVER

NO.	ITEM	UNITS	QTY	UNIT PRICE	TOTAL PRICE
QUIET ZONE AT JARVIS IMPROVEMENTS					
1	PROPOSED CROSSING SURFACE (INCLUDES CONCRETE PANELS, NEW RAIL, TIES, AND BALLAST)	LF	112	\$1,400.00	\$156,800.00
2	PROPOSED SAFETY MEASURE (TWO-QUADRANT GATE SYSTEM WITH FLASHERS & CWT)	LUMP SUM	1	\$250,000.00	\$250,000.00
3	COMMON EXCAVATION	CU YD	150	\$14.00	\$2,100.00
4	AGGREGATE BASE, CLASS 5	TON	80	\$28.00	\$2,240.00
5	5" CONCRETE WALK	SQ FT	1000	\$6.00	\$6,000.00
6	CONCRETE CURB & GUTTER DESIGN B818 (NON-TRAVERSABLE MEDIAN)	LIN FT	320	\$18.00	\$5,760.00
7	TRUNCATED DOMES	SQ FT	80	\$42.00	\$3,360.00
8	FLAG PERSON (BNSF CROSSING)	LUMP SUM	1	\$12,500.00	\$12,500.00
9	SIGN PANEL TYPE C	SQ FT	50	\$35.00	\$1,750.00
10	HYDRAULIC SOIL STABILIZER, TYPE 5, WITH SEED & FERT.	SQ YD	500	\$2.00	\$1,000.00
				SUBTOTAL QUIET ZONE COST	\$441,510.00
				10% CONTINGENCIES	\$44,150.00
				TOTAL QUIET ZONE COST	\$485,660.00
				INDIRECT COSTS (15%)	\$72,880.00
				TOTAL QUIET ZONE COST	\$558,540.00
				TOTAL CITY OF RAMSEY QUIET ZONE COST	\$279,270.00
				TOTAL CITY OF RAMSEY CONTRIBUTION	\$970,728.00



Request for Action

To Mayor and City Council		Item Number 8.2
Agenda Section General Business	Meeting Date October 20, 2014	Prepared by Justin Femrite, P.E., City Engineer
Item Description Feasibility Report for 2015 Street Improvement Project		Reviewed by Tim Simon, Finance Director
		Reviewed by Cal Portner, City Administrator

Action Requested

Approve, by motion, the Feasibility Report with direction on design alternative for 165th Avenue and Jarvis Street.

Background/Discussion

On July 7, 2014, Council provided direction on the scope for the 2015 Street Improvement project. Our consultant, Bolton & Menk, has since completed the Feasibility Report for the improvements and will provide a presentation on its findings.

One alternative that the Council asked to see was for a detached trail along the 165th Avenue and Jarvis Street. This single component has a large impact on the estimated cost of the project. A detached trail along this corridor adds an estimated cost of \$957,000 to the project. This segment of trail is not identified in the draft Comprehensive Parks Plan nor has it been discussed by staff or the Park Commission as a high priority segment.

Financial Impact

The total project cost for the improvement project, including the trail along 165th Avenue and Jarvis Street, is estimated at \$7,386,724. The same project without the trail being included is estimated at \$6,429,724. The financial impacts of the lower cost project, not including the trail, are shown in the attached Pavement Management fund analysis and the updated Capital Improvement Plan worksheet.

The City of Ramsey Public Works Committee has preliminarily approved the funding of their costs for improvements along Jarvis Street. The preliminary agreement identifies that Elk River will pay for the full project costs from our Minnesota State Aid (MSA) account. Ramsey will then reimburse Elk River over a three-year period starting in 2016. To cover these initial project costs we will need to apply for an advancement of funds into our MSA account. An advance allows us to borrow money against future allocations without penalty or interest. The attached MSA account analysis shows the estimated Ramsey repayment and the projected fund balance over the next five years.

Attachments

- Feasibility Report
- Pavement Management Program CIP Worksheet
- Pavement Management Fund Analysis
- Municipal State Aid Account Analysis



Feasibility Report for 2015 Street and Utility Improvements

City of Elk River, MN
BMI Project No. N15.108340

October 8, 2014



Submitted by:

Bolton & Menk, Inc.
7533 Sunwood Drive NW
Ramsey, MN 55303
P: (763) 433-2851
F: (763) 427-0833



BOLTON & MENK, INC.

Consulting Engineers & Surveyors

7533 Sunwood Drive NW • Ramsey, MN 55303

Phone (763) 433-2851 • Fax (763) 427-0833

www.bolton-menk.com

October 8, 2014

Honorable Mayor and City Council
13065 Orono Parkway NW
Elk River, MN 55330

RE: 2015 Street and Utility Improvements
Project No.: N15.108340

Honorable Mayor and City Council Members,

Enclosed for your review is the 2015 Street and Utility Improvements Feasibility Report. The report includes street and utility improvements on 165th Avenue NW and Jarvis Street NW as well as reclamation and mill and overlays on various streets within the City. This report includes a brief description of the proposed improvements, permits, ponding areas, wetlands impacts and estimated construction costs.

Sincerely,

BOLTON & MENK, INC.

Cody Holmes, P.E.
Project Engineer

Cc: Justin Femrite, P.E., City Engineer
Mark Kasma, P.E., Senior Principal Engineer



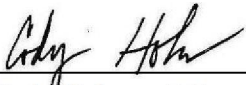
CERTIFICATION

Feasibility Report

for


2015 Street and Utility Improvements

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

By: 
Cody Holmes, P.E.
License No. 49143

Date: October 8, 2014

and

By: 
Mark D. Kasma, P.E.
License No. 21282

Date: October 8, 2014



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EASEMENTS AND LAND ACQUISITION	5
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APPENDIX A

FIGURE 1 – STREET IMPROVEMENTS

FIGURE 2 – STREET IMPROVEMENTS

FIGURE 3 – 165TH AVENUE NW AND JARVIS STREET NW

FIGURE 4 – WETLAND IMPACTS

FIGURE 5 – TYPICAL SECTION WITH TRAIL

FIGURE 6 – TYPICAL SECTION WITHOUT TRAIL

FIGURE 7 – POSSIBLE PONDING ALTERNATIVES

APPENDIX B

PRELIMINARY COST ESTIMATE:

- **EDGE MILL AND OVERLAY**
- **RECLAMATION**

APPENDIX C

PRELIMINARY COST ESTIMATE:

- **165TH AVENUE NW AND JARVIS STREET NW**

APPENDIX D

PRELIMINARY COST ESTIMATE:

- **165TH AVENUE NW AND JARVIS STREET NW – NO TRAIL OPTION**

INTRODUCTION

The 2015 Street Improvements include improvements on multiple streets throughout the City. Different pavement management procedures are proposed to be utilized on each street, depending on the existing condition of the street. Each street was reviewed by Bolton & Menk and City Staff to determine the procedure that would be applied to it. Each procedure is described below, along with the street that is scheduled for that type of procedure.

Edge Mill and Overlay

Edge Mill and Overlay of a roadway consists of milling the existing bituminous along the existing gutter or bituminous edge in order to match the new overlay to the existing elevations. Areas of roadway will also be Milled and Overlaid, this consists of milling the existing bituminous surface along the roadway to a uniform depth and overlaying bituminous on the remaining pavement. The streets proposed to be edge milled and overlaid are in fair condition. The proposed Edge Mill and Overlay improvements are shown on Figure No. 1 and 2 in Appendix A.

The following streets are proposed to be edge milled and overlaid:

- School Street NW (Proctor Avenue NW to TH 169)
- 8th Street NW (Dodge Avenue NW to Cul-de-Sac)
- Tyler Street Area – 197th Avenue NW (Evans Street NW to Dodge Street NW), 198th Avenue NW (Dodge Street NW to Zane Street NW), 197th Avenue NW (Zane Street NW to Tyler Street NW), 200th Avenue NW (Cul-de-Sac to Tyler Street NW), Vance Circle NW, Vance Street NW (Vance Circle to Ulysses Street NW), Ulysses Street NW (South Cul-de-Sac to 202nd Avenue NW), 195th Avenue NW (Ulysses Street NW to Tyler Street NW), Tyler Street NW (197th Avenue NW to 201st Circle NW), 201st Circle NW, 203rd Avenue NW (Smith Street NW to 560-feet east of Quincy Circle NW), Quincy Circle NW

Reclamation

Reclaiming of bituminous pavement is a process whereby the pavement and underlying aggregate base are milled together in-place, regraded and compacted as base material for the new pavement overlay. The new pavement section shall be a 9-Ton design and shall consist of 3.5-inches of bituminous pavement with 8-inches of aggregate base. The streets proposed to be reclaimed are in poor condition. The proposed reclamation improvements are shown on Figure No. 2 in Appendix A.

The following streets are proposed to be reclaimed:

- Elk Hills Area – Elk Hills Drive NW, Fawn Road NW, Line Avenue NW, and 700-feet of Elk Lane NW beginning at Elk Hills Drive
- Tyler Street Area – Tyler Street NW (Twin Lakes Road to 197th Avenue NW), Smith Street NW (201st Circle NW to 205th Avenue NW), 202nd Avenue NW (Smith Street NW to Ulysses Street NW), Ulysses Street NW (202nd Avenue NW to Vance Street NW, Vance Street NW (Vance Circle NW to 205th Avenue NW)

165TH AVENUE NW AND JARVIS STREET NW

The City is proposing to reconstruct 165th Avenue NW from Great River Energy on the west to Jarvis Street. Jarvis Street NW is proposed to be reconstructed from 165th Avenue NW on the north to Trunk Highway 10/169. The total length of the improvements is 2.4 miles. Figure No. 3 in Appendix A identifies the project limits.

165th Avenue NW and Jarvis Street NW is an existing 22' wide bituminous roadway with 0-2' wide aggregate shoulders. The typical section is rural with shallow ditches. Wetlands exist along both roadways. Figure No. 4 in Appendix A identifies the wetlands being affected by the improvements. The filling of these wetlands will be mitigated via the purchase of wetland bank credits overseen by the Soil and Water Conservation District (SWCD).

The proposed improvements consist of reconstructing both roadways to an urban section with a 32' wide face of curb to face of curb. Concrete curb and gutter shall be MnDOT Design B618. A 10' wide bituminous trail along the south side of 165th Avenue NW and along the west side of Jarvis Street NW was reviewed as possible option. Cost estimates were developed for each option. The typical section for the street is identified in Figure No. 5 in Appendix A. Figure No. 6 in Appendix A identifies a typical section for the street without the bituminous trail.

Figure No. 7 in Appendix A identifies locations for possible stormwater features. Final design will confirm which locations are needed to meet stormwater rate control and water quality requirements.

Railroad crossing improvements on 165th Avenue NW and Jarvis Street NW are proposed in this report. Improvements include the installation of concrete curbing, medians concrete panels, new rail, ties and ballast along with the installation of two-quadrant gate systems with flashers. These improvements are included to accommodate future quiet zones at the crossings. Coordination with the BNSF Railway will be necessary.

PERMITS

Permits will be required from the following agencies:

- Minnesota Department of Transportation (Drainage and Work Within the Right-of-Way)
- Minnesota Pollution Control Agency (Phase II General Stormwater Permit for Construction Activities)
- Department of Natural Resources (Work Within Waters Permit)
- Wetland Conservation Act (Wetland Permit)
- BNSF Railway (Notice of Intent - Quiet Zone Permit)

EASEMENTS AND LAND ACQUISITION

Temporary grading easements will be required from residents in both Elk River and the City of Ramsey along the route. Final design will identify which parcels are affected.

Land is proposed to be acquired for stormwater ponding. Figure No. 7 in Appendix A identifies possible ponding alternatives. Final design will identify the exact area required.

ESTIMATED COSTS

Appendix B identifies a preliminary cost estimate that includes estimated quantities and unit prices for the reclamations and edge mill and overlays. The cost estimate includes a contingency factor of 10% to account for any elements of construction that are unknown at this time. They also include indirect projects costs of construction such as engineering, legal fees and administrative costs which together are estimated at 10% of the project construction cost. The total project cost is estimated at \$2,634,324 and is based on current public construction cost information.

Appendix C identifies a preliminary cost estimate that includes estimated quantities and unit prices for 165th Avenue NW and Jarvis Street NW. The cost estimate includes a contingency factor of 10% to account for any elements of construction that are unknown at this time. They also include indirect projects costs of construction such as engineering, legal fees and administrative costs which together are estimated at 10% of the project construction cost. The total project cost is estimated at \$4,752,400 and is based on current public construction cost information.

Appendix D identifies a preliminary cost estimate that includes estimated quantities and unit prices for 165th Avenue NW and Jarvis Street NW without a trail. The cost estimate includes a contingency factor of 10% to account for any elements of construction that are unknown at this time. They also include indirect projects costs of construction such as engineering, legal fees and administrative costs which together are estimated at 10% of the project construction cost. The total project cost is estimated at \$3,795,400 and is based on current public construction cost information.

No costs have been included for purchasing temporary easements.

\$40,000 has been included for land purchases for ponding.

FUNDING

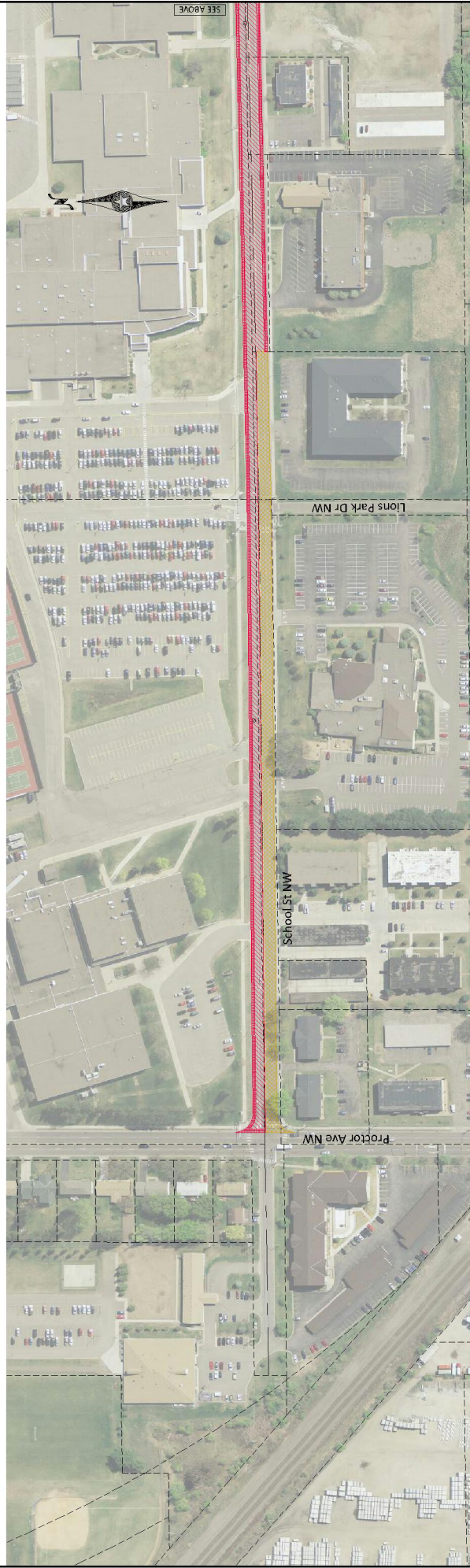
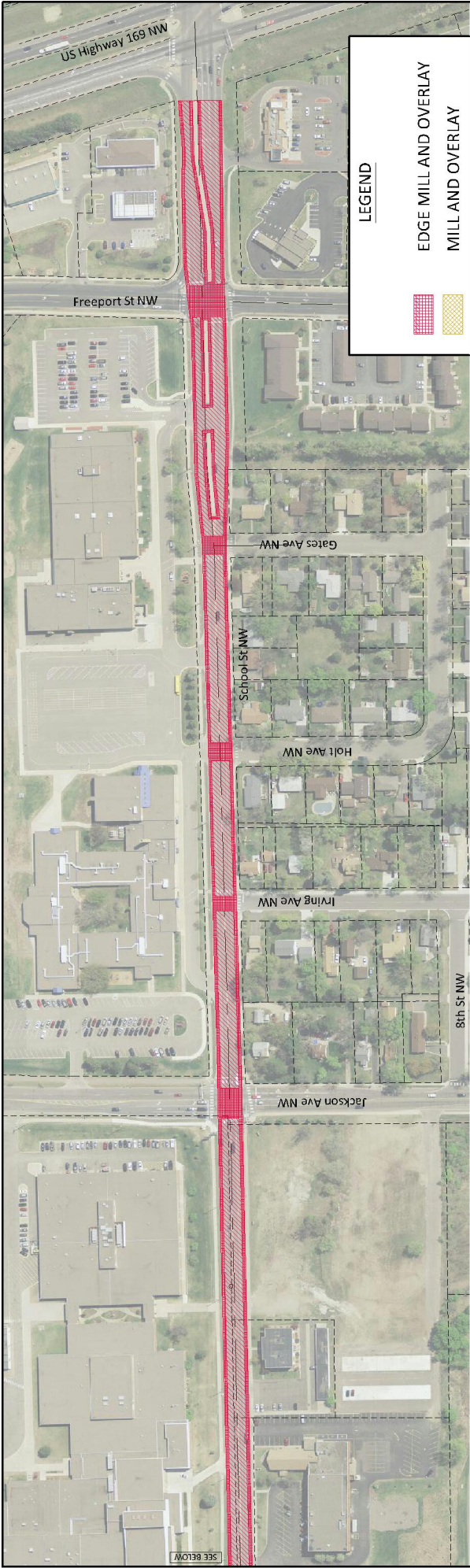
The City proposes to utilize Municipal State Aid (MSA) Funds and Local Funds for the improvements. MSA Funds will be used on all Municipal State Aid Streets. These streets include, Jarvis Street NW, 165th Avenue NW, School Street, Tyler Street, Smith Street, 197th Avenue and 198th Avenue. The remaining costs will be funded with revenue collected from the city franchise fee. The total project cost for the improvements herein are estimated at \$7,386,724 with a trail on Jarvis Street NW and 165th Avenue NW. The total project cost for the improvements herein are estimated at \$6,429,724 without the trail.

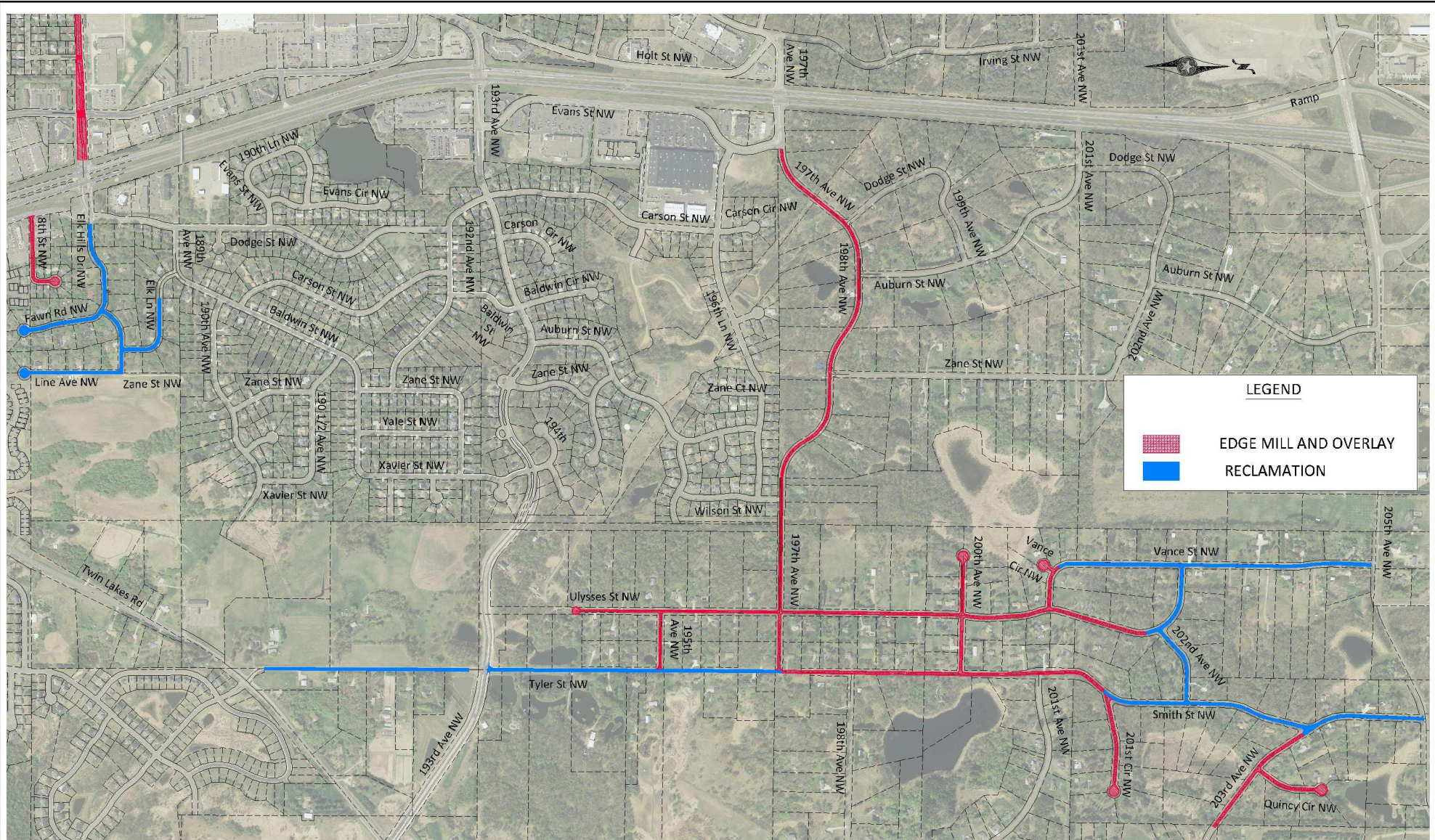
RECOMMENDATIONS

From an engineering standpoint, this project is feasible, cost effective and necessary, and can best be accomplished by letting competitive bids for the work.



APPENDIX A





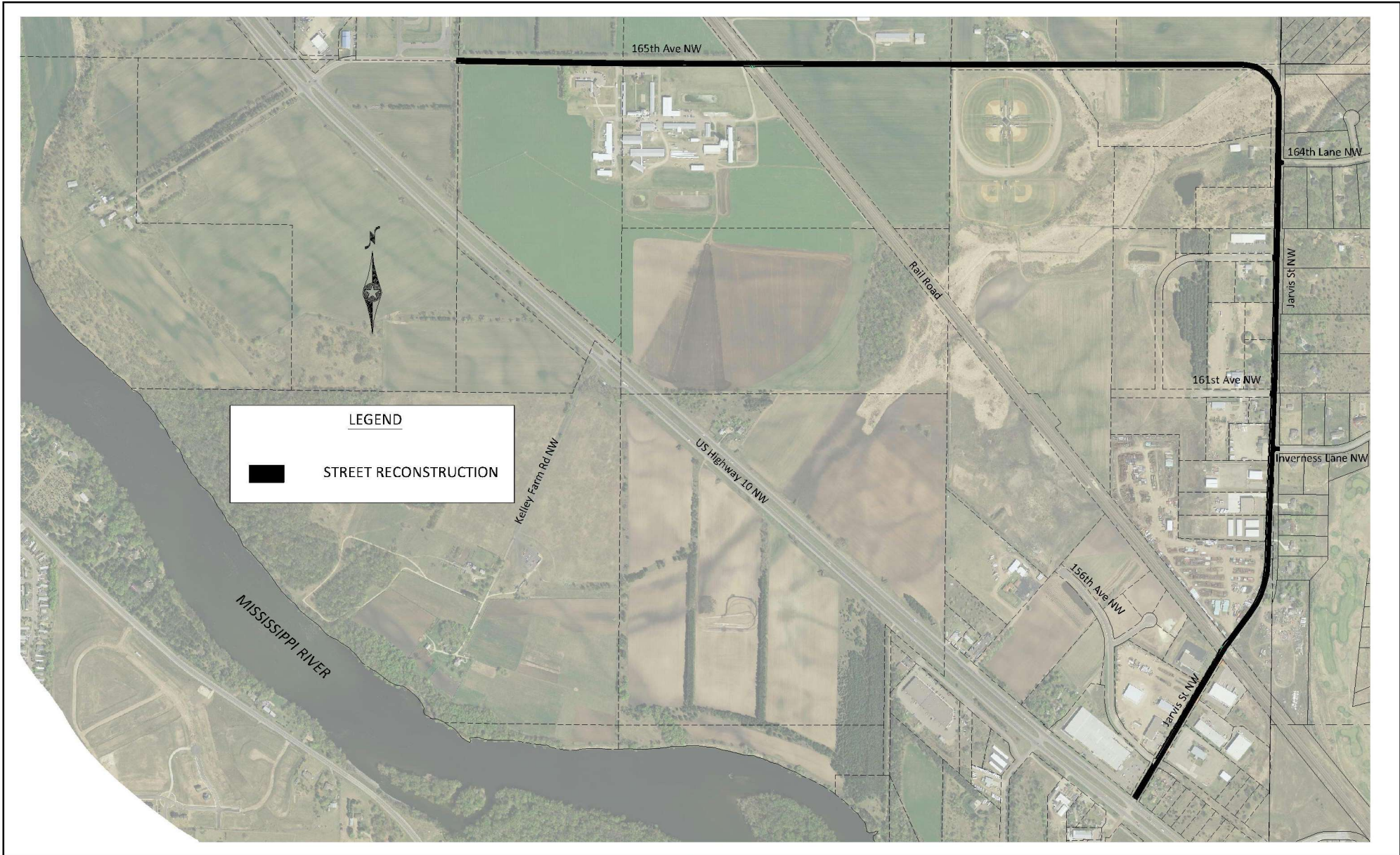
LEGEND

	EDGE MILL AND OVERLAY
	RECLAMATION



BOLTON & MENK, INC.
 Consulting Engineers & Surveyors
 7533 SUNWOOD DRIVE NW
 BAKERSFIELD, MN 55339
 PHONE (763) 453-2651 FAX (763) 427-0833

ELK RIVER, MINNESOTA
 8TH STREET NW, ELK HILLS AREA, TYLER STREET AREA
 STREET IMPROVEMENTS



BOLTON & MENK, INC.
 Consulting Engineers & Surveyors
 7533 SUNWOOD DRIVE NW
 BURNSVILLE, MN 55339
 PHONE (763) 453-2651 FAX (763) 427-0833

ELK RIVER, MINNESOTA
165TH AVENUE NW AND JARVIS STREET NW
STREET IMPROVEMENTS



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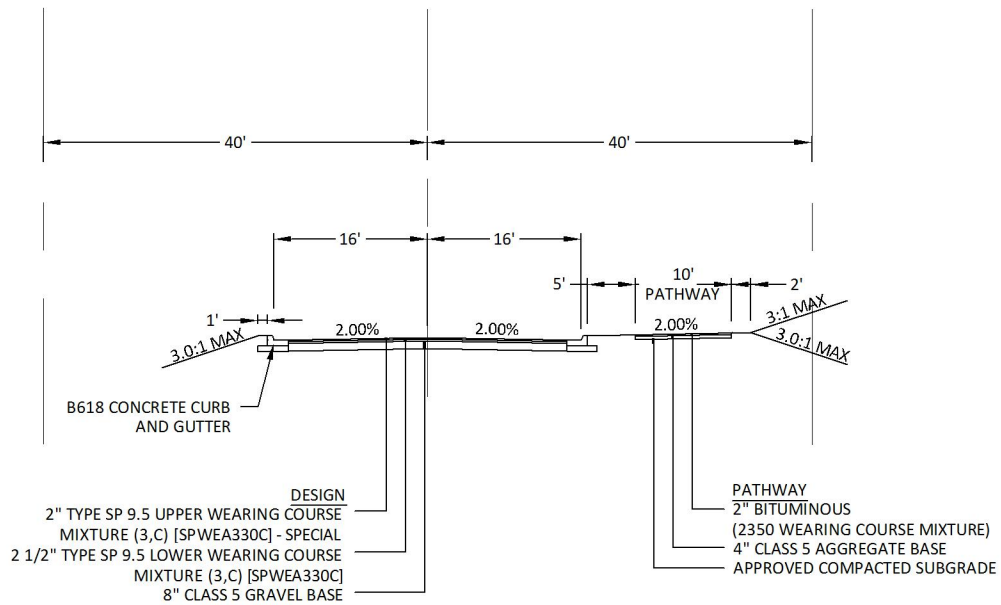


BOLTON & MENK, INC.
Consulting Engineers & Surveyors
7533 SUNWOOD DRIVE NW
BANKS, IA 50306
PHONE (763) 453-2651 FAX (763) 427-0833

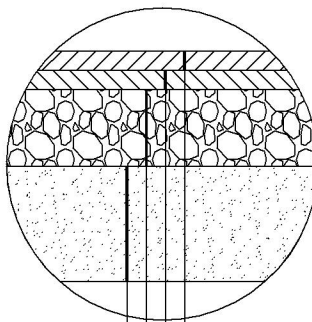
ELK RIVER, MINNESOTA
165TH AVENUE NW AND JARVIS STREET NW

WETLAND IMPACTS

FIGURE 4



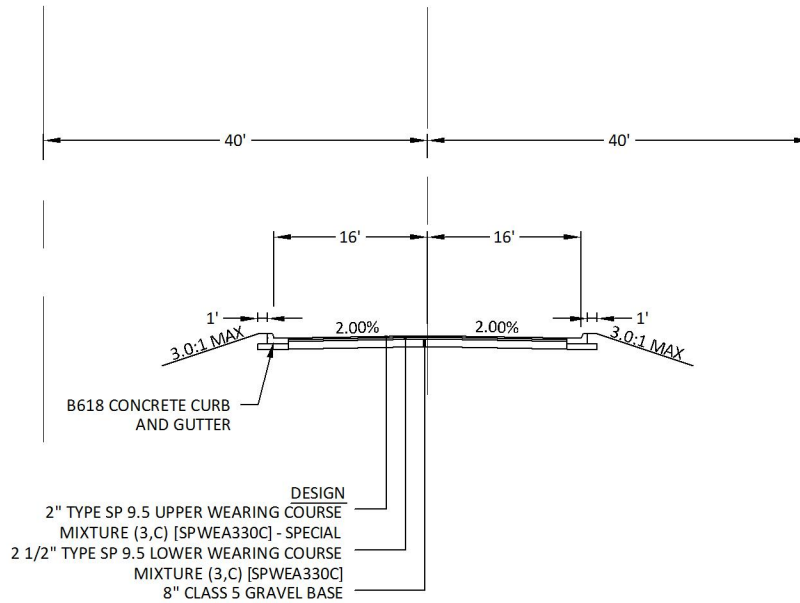
**TYPICAL SECTION
32' FACE TO FACE WITH TRAIL**



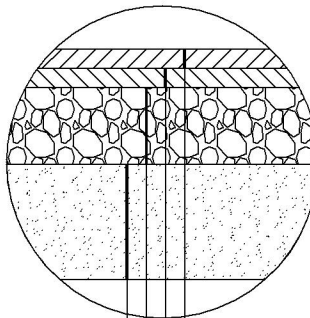
- DESIGN
- 2" TYPE SP 9.5 UPPER WEARING COURSE MIXTURE (3,C) [SPWEA330C] - SPECIAL
 - 2 1/2" TYPE SP 9.5 LOWER WEARING COURSE MIXTURE (3,C) [SPWEA330C]
 - 8" CLASS 5 GRAVEL BASE
 - 24"-60" SELECT GRANULAR BORROW (VARIES)

**TYPICAL SECTION
SUBGRADE EXCAVATION**





**TYPICAL SECTION
32' FACE TO FACE WITHOUT TRAIL**



- DESIGN
- 2" TYPE SP 9.5 UPPER WEARING COURSE MIXTURE (3,C) [SPWEA330C] - SPECIAL
 - 2 1/2" TYPE SP 9.5 LOWER WEARING COURSE MIXTURE (3,C) [SPWEA330C]
 - 8" CLASS 5 GRAVEL BASE
 - 24"-60" SELECT GRANULAR BORROW (VARIES)

**TYPICAL SECTION
SUBGRADE EXCAVATION**





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BOLTON & MENK, INC.
 Consulting Engineers & Surveyors
 7533 SUNWOOD DRIVE NW
 BARKLEY, MN 55339
 PHONE (763) 453-2651 FAX (763) 427-0833

ELK RIVER, MINNESOTA
 165TH AVENUE NW AND JARVIS STREET NW

POSSIBLE PONDING ALTERNATIVES

FIGURE 7



APPENDIX B

MILL AND OVERLAY & RECLAIM

PRELIMINARY COST ESTIMATE CITY OF ELK RIVER

ITEM NO.	MN/DOT SPEC NO.	ITEM DESCRIPTION	NOTES	UNIT	TOTAL QUANTITY	UNIT COST	TOTAL COST
SCHOOL STREET							
1	2021.501	MOBILIZATION		LUMP SUM	1	\$20,000.00	\$20,000.00
2	2104.501	REMOVE AND REPLACE CURB AND GUTTER		LIN FT	50	\$20.00	\$1,000.00
3	2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT		SQ YD	20	\$6.00	\$120.00
4	2105.507	SUBGRADE EXCAVATION (EV)		CU YD	50	\$20.00	\$1,000.00
5	2211.503	AGGREGATE BASE CLASS 5		CU YD	50	\$30.00	\$1,500.00
6	2231.501	BITUMINOUS PATCHING MIXTURE		TON	175	\$100.00	\$17,500.00
7	2232.501	MILL BITUMINOUS SURFACE (2.0")		SQ YD	4450	\$2.50	\$11,125.00
8	2232.604	EDGE MILL BITUMINOUS SURFACE 6" WIDE (0.0" TO 2")		SQ YD	7145	\$1.50	\$10,717.50
9	2360.501	TYPE SP 12.5 WEARING COURSE (2,C) (SPWEB240C) (2360)		TON	3400	\$75.00	\$255,000.00
10	2504.602	ADJUST GATE VALVE		EACH	12	\$350.00	\$4,200.00
11	2504.602	RECONSTRUCT VALVE BOX		EACH	4	\$500.00	\$2,000.00
12	2506.522	ADJUST FRAME & RING CASTING		EACH	13	\$400.00	\$5,200.00
13	2531.507	6" CONCRETE DRIVEWAY PAVEMENT		SQ FT	20	\$52.00	\$1,040.00
14	2563.601	TRAFFIC CONTROL		LUMP SUM	1	\$5,000.00	\$5,000.00
15	2573.530	STORM DRAIN INLET PROTECTION		EACH	18	\$150.00	\$2,700.00
16	2582.501	PAVEMENT MESSAGE (LEFT TURN ARROW) EPOXY		EACH	9	\$180.00	\$1,620.00
17	2582.501	PAVEMENT MESSAGE (RIGHT TURN ARROW) EPOXY		EACH	6	\$180.00	\$1,080.00
18	2582.501	PAVEMENT MESSAGE (LEFT-THRU ARROW) EPOXY		EACH	2	\$180.00	\$360.00
19	2582.501	PAVEMENT MESSAGE (THRU ARROW) EPOXY		EACH	2	\$180.00	\$360.00
20	2582.502	4" SOLID LINE WHITE-EPOXY		LIN FT	1490	\$0.90	\$1,341.00
21	2582.502	4" BROKEN LINE WHITE-EPOXY		LIN FT	1660	\$0.90	\$1,494.00
22	2582.502	24" SOLID LINE WHITE-EPOXY		LIN FT	135	\$8.50	\$1,147.50
23	2582.502	4" DOUBLE SOLID LINE YELLOW-EPOXY		LIN FT	3780	\$1.50	\$5,670.00
24	2582.503	CROSSWALK MARKING-EPOXY		SQ FT	1314	\$7.50	\$9,855.00
TOTAL COST SCHOOL STREET IMPROVEMENTS:							\$361,030.00
8TH STREET AREA							
1	2021.501	MOBILIZATION		LUMP SUM	1	\$2,000.00	\$2,000.00
2	2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT		SQ YD	10	\$8.00	\$80.00
3	2231.501	BITUMINOUS PATCHING MIXTURE		TON	40	\$100.00	\$4,000.00
4	2232.604	EDGE MILL BITUMINOUS SURFACE 6" WIDE (0.0" TO 2")		SQ YD	1110	\$1.50	\$1,665.00
5	2360.501	TYPE SP 12.5 WEARING COURSE (2,C) (SPWEB240C) (2360)		TON	350	\$75.00	\$26,250.00
6	2506.522	ADJUST FRAME & RING CASTING		EACH	13	\$400.00	\$5,200.00
7	2531.507	6" CONCRETE DRIVEWAY PAVEMENT		SQ YD	10	\$52.00	\$520.00
8	2573.530	STORM DRAIN INLET PROTECTION		EACH	1	\$150.00	\$150.00
9	2582.502	24" SOLID LINE WHITE-EPOXY		LIN FT	16	\$8.50	\$136.00
10	2582.503	CROSSWALK MARKING-EPOXY		SQ FT	144	\$6.00	\$864.00
TOTAL COST 8TH STREET IMPROVEMENTS:							\$40,865.00
ELK HILLS AREA							
1	2021.501	MOBILIZATION		LUMP SUM	1	\$5,000.00	\$5,000.00
2	2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT		SQ YD	150	\$6.00	\$900.00
3	2104.505	REMOVE BITUMINOUS DRIVEWAY PAVEMENT		SQ YD	200	\$4.00	\$800.00
4	2105.501	COMMON EXCAVATION		CU YD	100	\$20.00	\$2,000.00
5	2105.507	SUBGRADE EXCAVATION (EV)		CU YD	300	\$20.00	\$6,000.00
6	2211.503	AGGREGATE BASE CLASS 5		CU YD	500	\$30.00	\$15,000.00
7	2331.604	BITUMINOUS PAVEMENT RECLAMATION (FULL DEPTH)		SQ YD	12910	\$1.50	\$19,365.00
8	2360.501	TYPE SP 9.5 WEARING COURSE (2,C) (SPWEA240C) (2360)		TON	1120	\$75.00	\$84,000.00
9	2360.501	TYPE SP 12.5 NON-WEARING COURSE (2,B) (SPNWB240B) (2360)		TON	1490	\$70.00	\$104,300.00
10	2360.503	TYPE SP 9.5 WEARING COURSE MIXTURE (2,B) 3.0" THICK		SQ YD	200	\$30.00	\$6,000.00
11	2501.601	DRAINAGE IMPROVEMENTS AND REPAIR PIPE CULVERT		LUMP SUM	1	\$3,000.00	\$3,000.00
12	2506.522	ADJUST FRAME & RING CASTING		EACH	4	\$400.00	\$1,600.00
13	2531.507	6" CONCRETE DRIVEWAY PAVEMENT		SQ YD	150	\$52.00	\$7,800.00
14	2535.501	MONOLITHIC BITUMINOUS CURB (6" HEIGHT)		LIN FT	7600	\$8.00	\$60,800.00
15	2563.601	TRAFFIC CONTROL		LUMP SUM	1	\$5,000.00	\$5,000.00
16	2573.530	STORM DRAIN INLET PROTECTION		EACH	5	\$150.00	\$750.00
17	2582.502	24" SOLID LINE WHITE-EPOXY		LIN FT	18	\$10.00	\$180.00
18	2582.503	CROSSWALK MARKING-EPOXY		SQ FT	144	\$6.00	\$864.00
TOTAL COST ELK HILLS IMPROVEMENTS:							\$323,359.00

MILL AND OVERLAY & RECLAIM

PRELIMINARY COST ESTIMATE

CITY OF ELK RIVER

ITEM NO.	MN/DOT SPEC NO.	ITEM DESCRIPTION	NOTES	UNIT	TOTAL QUANTITY	UNIT COST	TOTAL COST
TYLER STREET							
1	2021.501	MOBILIZATION		LUMP SUM	1	\$50,000.00	\$50,000.00
2	2104.501	REMOVE CURB AND GUTTER		LIN FT	50	\$5.00	\$250.00
3	2104.501	REMOVE AND REPLACE CURB AND GUTTER		LIN FT	200	\$20.00	\$4,000.00
4	2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT		SQ YD	300	\$6.00	\$1,800.00
5	2104.505	REMOVE BITUMINOUS DRIVEWAY PAVEMENT		SQ YD	300	\$4.00	\$1,200.00
6	2104.505	REMOVE CONCRETE VALLEY GUTTER		SQ YD	40	\$6.00	\$240.00
7	2104.505	REMOVE BITUMINOUS PAVEMENT		SQ YD	310	\$4.00	\$1,240.00
8	2105.501	COMMON EXCAVATION		CU YD	120	\$14.00	\$1,680.00
9	2105.507	SUBGRADE EXCAVATION (EV)		CU YD	210	\$20.00	\$4,200.00
10	2105.522	SELECT GRANULAR BORROW (CV)		CU YD	210	\$18.00	\$3,780.00
11	2211.503	AGGREGATE BASE CLASS 5		CU YD	120	\$30.00	\$3,600.00
12	2231.501	BITUMINOUS PATCHING MIXTURE		TON	300	\$100.00	\$30,000.00
13	2331.604	BITUMINOUS PAVEMENT RECLAMATION (FULL DEPTH)		SQ YD	36210	\$1.50	\$54,315.00
14	2232.604	EDGE MILL BITUMINOUS SURFACE 6" WIDE (0.0" TO 2")		SQ YD	23942	\$1.50	\$35,913.00
15	2360.501	TYPE SP 12.5 WEARING COURSE (2,C) (SPWEB240C) (2360)		TON	10610	\$75.00	\$795,750.00
16	2360.501	TYPE SP 12.5 NON-WEARING COURSE (2,B) (SPNWB240B) (2360)		TON	4180	\$70.00	\$292,600.00
17	2360.503	TYPE SP 9.5 WEARING COURSE MIXTURE (2,B) 3.0" THICK		SQ YD	300	\$30.00	\$9,000.00
18	2501.601	DRAINAGE IMPROVEMENTS AND REPAIR PIPE CULVERT		LUMP SUM	1	\$5,000.00	\$5,000.00
19	2506.522	ADJUST FRAME & RING CASTING		EACH	5	\$400.00	\$2,000.00
20	2531.501	CONCRETE CURB & GUTTER DESIGN B618		LIN FT	200	\$15.00	\$3,000.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT		SQ YD	300	\$52.00	\$15,600.00
22	2531.604	7" CONCRETE VALLEY GUTTER		SQ YD	40	\$52.00	\$2,080.00
23	2535.501	MONOLITHIC BITUMINOUS CURB (6" HEIGHT)		LIN FT	14290	\$8.00	\$114,320.00
24	2563.601	TRAFFIC CONTROL		LUMP SUM	1	\$5,000.00	\$5,000.00
25	2573.530	STORM DRAIN INLET PROTECTION		EACH	18	\$150.00	\$2,700.00
26	2582.502	24" SOLID LINE WHITE-EPOXY		LIN FT	80	\$10.00	\$800.00
27	2582.502	4" DOUBLE SOLID LINE YELLOW-EPOXY		LIN FT	15740	\$0.75	\$11,805.00
TOTAL COST TYLER STREET IMPROVEMENTS:							\$1,451,873.00

TOTAL COST STREET IMPROVEMENTS:	\$2,177,127.00
10% CONTINGENCIES	\$217,713.00
TOTAL STREET IMPROVEMENT COST	\$2,394,840.00
INDIRECT COSTS (10%)	\$239,484.00
TOTAL STREET IMPROVEMENT COST	\$2,634,324.00



APPENDIX C

**165TH AVENUE NW & JARVIS STREET NW
PRELIMINARY COST ESTIMATE
STA. 12+48 TO STA. 139+10
CITY OF ELK RIVER**

NO.	ITEM	UNITS	QTY	UNIT PRICE	TOTAL PRICE
STREETS					
1	MOBILIZATION	LUMP SUM	1.00	\$50,000.00	\$50,000.00
2	TRAFFIC CONTROL	LUMP SUM	1.00	\$15,000.00	\$15,000.00
3	RECLAIM BITUMINOUS PAVEMENT (8")	SQ YD	30952	\$4.00	\$123,808.00
4	SUBGRADE EXCAVATION	CU YD	10370	\$3.50	\$36,295.00
5	COMMON EXCAVATION	CU YD	21146	\$2.00	\$42,292.00
6	POND EXCAVATION	CU YD	5000	\$8.00	\$40,000.00
7	GRANULAR BORROW (LV)	CU YD	33990	\$5.00	\$169,950.00
8	AGGREGATE BASE CLASS 5	TON	31482	\$11.00	\$346,302.00
9	TYPE SP 12.5 WEARING COURSE MIX (4,E) - 2"	TON	4937	\$75.00	\$370,275.00
10	TYPE SP 12.5 NON WEARING COURSE MIX (4,B) - 2.5"	TON	6171	\$70.00	\$431,970.00
11	TACK COAT	GA	4100	\$5.00	\$20,500.00
12	REMOVE & REPLACE DRIVEWAYS	EA	40	\$800.00	\$32,000.00
13	BITUMINOUS TRAIL (10')	TON	1780	\$100.00	\$178,000.00
14	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	25324	\$11.00	\$278,564.00
15	COMMON TOPSOIL BORROW	CU YD	9910	\$15.00	\$148,650.00
16	SODDING TYPE LAWN	SQ YD	20000	\$3.50	\$70,000.00
17	STRIPING AND SIGNAGE	LUMP SUM	1	\$15,000.00	\$15,000.00
18	SILT FENCE	LIN FT	27800	\$2.00	\$55,600.00
19	TREE REMOVAL	ACRE	3.0	\$10,000.00	\$30,000.00
20	REMOVE & REPLACE LANDSCAPING	LUMP SUM	1	\$12,000.00	\$12,000.00
21	LAND ACQUISITION	SQ FT	10000	\$4.00	\$40,000.00
22	SEED, FERTILIZER & MULCH	ACRE	11	\$2,500.00	\$27,500.00
SUBTOTAL STREETS COST					\$2,533,700.00
10% CONTINGENCIES					\$253,400.00
TOTAL STREETS COST					\$2,787,100.00
INDIRECT COSTS (10%)					\$278,700.00
TOTAL STREETS COST					\$3,065,800.00
STORM SEWER					
1	REMOVE CULVERT	LIN FT	1172	\$10.00	\$11,720.00
2	REMOVE DRAINAGE STRUCTURE	EACH	2	\$400.00	\$800.00
3	CONNECT TO EXISTING	EACH	3	\$300.00	\$900.00
4	CONST DRAINAGE STRUCTURE DESIGN G	LIN FT	122	\$310.00	\$37,820.00
5	CONST DRAINAGE STRUCTURE DES 48-4022	LIN FT	181	\$300.00	\$54,300.00
6	CASTINGS	EACH	75	\$700.00	\$52,500.00
7	12" RC PIPE CULVERT	LIN FT	6320	\$32.00	\$202,240.00
8	15" RC PIPE CULVERT	LIN FT	1692	\$30.00	\$50,760.00
9	18" RC PIPE CULVERT	LIN FT	1661	\$35.00	\$58,135.00
10	12" RC PIPE APRON	EACH	10	\$600.00	\$6,000.00
11	15" RC PIPE APRON	EACH	3	\$500.00	\$1,500.00
12	18" RC PIPE APRON	EACH	4	\$650.00	\$2,600.00
13	RANDOM RIPRAP CLASS IV	CU YD	225	\$90.00	\$20,250.00
14	STORM DRAIN INLET PROTECTION	EACH	75	\$150.00	\$11,250.00
SUBTOTAL STORM SEWER COST					\$510,800.00
10% CONTINGENCIES					\$51,100.00
TOTAL STORM SEWER COST					\$561,900.00
INDIRECT COSTS (10%)					\$56,200.00
TOTAL STORM SEWER COST					\$618,100.00

**165TH AVENUE NW & JARVIS STREET NW
PRELIMINARY COST ESTIMATE
STA. 12+48 TO STA. 139+10
CITY OF ELK RIVER**

NO.	ITEM	UNITS	QTY	UNIT PRICE	TOTAL PRICE
RAILROAD CROSSING IMPROVEMENTS AT 165TH AVENUE & JARVIS STREET					
1	PROPOSED CROSSING SURFACE (INCLUDES CONCRETE PANELS, NEW RAIL, TIES, AND BALLAST)	LF	224	\$1,400.00	\$313,600.00
2	PROPOSED SAFETY MEASURE (TWO-QUADRANT GATE SYSTEM WITH FLASHERS & CWT)	LUMP SUM	2	\$250,000.00	\$500,000.00
3	COMMON EXCAVATION	CU YD	300	\$14.00	\$4,200.00
4	AGGREGATE BASE CLASS 5	TON	160	\$28.00	\$4,480.00
5	5" CONCRETE WALK	SQ FT	2000	\$6.00	\$12,000.00
6	CONCRETE CURB & GUTTER DESIGN B818 (NON-TRAVERSABLE MEDIAN)	LIN FT	640	\$18.00	\$11,520.00
7	TRUNCATED DOMES	SQ FT	160	\$42.00	\$6,720.00
8	FLAG PERSON (BNSF CROSSING)	LUMP SUM	2	\$12,500.00	\$25,000.00
9	SIGN PANEL TYPE C	SQ FT	100	\$35.00	\$3,500.00
10	HYDRAULIC SOIL STABILIZER, TYPE 5, WITH SEED & FERT.	SQ YD	1000	\$2.00	\$2,000.00
				SUBTOTAL QUIET ZONE COST	\$883,000.00
				10% CONTINGENCIES	\$88,300.00
				TOTAL QUIET ZONE COST	\$971,300.00
				INDIRECT COSTS (10%)	\$97,200.00
				TOTAL QUIET ZONE COST	\$1,068,500.00
				TOTAL PROJECT COST	\$4,752,400.00



APPENDIX D

**165TH AVENUE NW & JARVIS STREET NW - NO TRAIL OPTION
PRELIMINARY COST ESTIMATE
STA. 12+48 TO STA. 139+10
CITY OF ELK RIVER**

NO.	ITEM	UNITS	QTY	UNIT PRICE	TOTAL PRICE
STREETS					
1	MOBILIZATION	LUMP SUM	1.00	\$50,000.00	\$50,000.00
2	TRAFFIC CONTROL	LUMP SUM	1.00	\$15,000.00	\$15,000.00
3	RECLAIM BITUMINOUS PAVEMENT (8")	SQ YD	30952	\$4.00	\$123,808.00
4	SUBGRADE EXCAVATION	CU YD	9074	\$3.50	\$31,759.00
5	COMMON EXCAVATION	CU YD	20250	\$2.00	\$40,500.00
6	POND EXCAVATION	CU YD	5000	\$8.00	\$40,000.00
7	GRANULAR BORROW (LV)	CU YD	4000	\$5.00	\$20,000.00
8	AGGREGATE BASE CLASS 5	TON	26225	\$11.00	\$288,475.00
9	TYPE SP 12.5 WEARING COURSE MIX (4,E) - 2"	TON	4937	\$75.00	\$370,275.00
10	TYPE SP 12.5 NON WEARING COURSE MIX (4,B) - 2.5"	TON	6171	\$70.00	\$431,970.00
11	TACK COAT	GA	4100	\$5.00	\$20,500.00
12	REMOVE & REPLACE DRIVEWAYS	EA	40	\$800.00	\$32,000.00
13	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	25324	\$11.00	\$278,564.00
14	COMMON TOPSOIL BORROW	CU YD	9910	\$15.00	\$148,650.00
15	SODDING TYPE LAWN	SQ YD	20000	\$3.50	\$70,000.00
16	STRIPING AND SIGNAGE	LUMP SUM	1	\$15,000.00	\$15,000.00
17	SILT FENCE	LIN FT	27800	\$2.00	\$55,600.00
18	TREE REMOVAL	ACRE	3.0	\$10,000.00	\$30,000.00
19	REMOVE & REPLACE LANDSCAPING	LUMP SUM	1	\$12,000.00	\$12,000.00
20	LAND ACQUISITION	SQ FT	10000	\$4.00	\$40,000.00
21	SEED, FERTILIZER & MULCH	ACRE	11	\$2,500.00	\$27,500.00
SUBTOTAL STREETS COST					\$2,141,600.00
10% CONTINGENCIES					\$214,200.00
TOTAL STREETS COST					\$2,355,800.00
INDIRECT COSTS (10%)					\$235,600.00
TOTAL STREETS COST					\$2,591,400.00
STORM SEWER					
1	REMOVE CULVERT	LIN FT	1172	\$10.00	\$11,720.00
2	REMOVE DRAINAGE STRUCTURE	EACH	2	\$400.00	\$800.00
3	CONNECT TO EXISTING	EACH	3	\$300.00	\$900.00
4	CONST DRAINAGE STRUCTURE DESIGN G	LIN FT	72	\$310.00	\$22,320.00
5	CONST DRAINAGE STRUCTURE DES 48-4022	LIN FT	118	\$300.00	\$35,400.00
6	CASTINGS	EACH	38	\$700.00	\$26,600.00
7	12" RC PIPE CULVERT	LIN FT	2108	\$32.00	\$67,456.00
8	15" RC PIPE CULVERT	LIN FT	29	\$30.00	\$870.00
9	18" RC PIPE CULVERT	LIN FT	288	\$35.00	\$10,080.00
10	24" RC PIPE CULVERT	LIN FT	64	\$36.00	\$2,304.00
11	12" RC PIPE APRON	EACH	3	\$600.00	\$1,800.00
12	15" RC PIPE APRON	EACH	1	\$500.00	\$500.00
13	18" RC PIPE APRON	EACH	1	\$650.00	\$650.00
14	24" RC PIPE APRON	EACH	2	\$700.00	\$1,400.00
15	RANDOM RIPRAP CLASS IV	CU YD	75	\$90.00	\$6,750.00
16	STORM DRAIN INLET PROTECTION	EACH	38	\$150.00	\$5,700.00
17	SPILLWAYS	EACH	56	\$800.00	\$44,800.00
18	DRIVEWAY CULVERT	LIN FT	1000	\$25.00	\$25,000.00
SUBTOTAL STORM SEWER COST					\$265,100.00
10% CONTINGENCIES					\$26,500.00
TOTAL STORM SEWER COST					\$291,600.00
INDIRECT COSTS (10%)					\$29,200.00
TOTAL STORM SEWER COST					\$320,800.00

**165TH AVENUE NW & JARVIS STREET NW - NO TRAIL OPTION
PRELIMINARY COST ESTIMATE
STA. 12+48 TO STA. 139+10
CITY OF ELK RIVER**

NO.	ITEM	UNITS	QTY	UNIT PRICE	TOTAL PRICE
RAILROAD CROSSING IMPROVEMENTS AT 165TH AVENUE & JARVIS STREET					
1	PROPOSED CROSSING SURFACE (INCLUDES CONCRETE PANELS, NEW RAIL, TIES, AND BALLAST)	LF	128	\$1,400.00	\$179,200.00
2	PROPOSED SAFETY MEASURE (TWO-QUADRANT GATE SYSTEM WITH FLASHERS & CWT)	LUMP SUM	2	\$250,000.00	\$500,000.00
3	COMMON EXCAVATION	CU YD	300	\$14.00	\$4,200.00
4	AGGREGATE BASE CLASS 5	TON	160	\$28.00	\$4,480.00
5	5" CONCRETE WALK	SQ FT	0	\$6.00	\$0.00
6	CONCRETE CURB & GUTTER DESIGN B818 (NON-TRAVERSABLE MEDIAN)	LIN FT	640	\$18.00	\$11,520.00
7	TRUNCATED DOMES	SQ FT	0	\$42.00	\$0.00
8	FLAG PERSON (BNSF CROSSING)	LUMP SUM	2	\$12,500.00	\$25,000.00
9	SIGN PANEL TYPE C	SQ FT	100	\$35.00	\$3,500.00
10	HYDRAULIC SOIL STABILIZER, TYPE 5, WITH SEED & FERT.	SQ YD	1000	\$2.00	\$2,000.00
SUBTOTAL QUIET ZONE COST					\$729,900.00
10% CONTINGENCIES					\$73,000.00
TOTAL QUIET ZONE COST					\$802,900.00
INDIRECT COSTS (10%)					\$80,300.00
TOTAL QUIET ZONE COST					\$883,200.00
TOTAL PROJECT COST					\$3,795,400.00

Capital Improvement Plan
City of Elk River, Minnesota

2015 *thru* 2019

Department Infrastructure Improvements
Contact Engineer
Type Improvement
Useful Life 25 years
Category Street & Utility Construction
Priority n/a

Project # PM-01
Project Name Pavement Management Program

Description
 Replace, overlay or rehabilitate aged and deteriorated streets, storm drainage, and adjacent walks. Projects will be completed every other year.

Justification
 Individual street pavement conditions will dictate what pavement management technique will be utilized to extend the life of that specific street segment. These techniques may range from a full reconstruction of the surface and aggregate base to simply overlaying the existing pavement. As they are implemented, the prescribed techniques will continually be gauged to assure their performance is proper in extending the life of our pavements.

Expenditures	2015	2016	2017	2018	2019	Total
Construction/Maintenance	6,429,724		4,330,000		4,500,000	15,259,724
Total	6,429,724		4,330,000		4,500,000	15,259,724

Funding Sources	2015	2016	2017	2018	2019	Total
Municipal State Aid	3,795,400		1,000,000		1,000,000	5,795,400
Pavement Management Fund	2,484,324		3,180,000		3,350,000	9,014,324
Storm Sewer	150,000		150,000		150,000	450,000
Total	6,429,724		4,330,000		4,500,000	15,259,724

Pavement Management CIP analysis

	2013 Actual	2014 Estimate	2015 Estimate	2016 Estimate	2017 Estimate	2018 Estimate	2019 Estimate
Revenues							
Charges for Services							
Franchise Fee	714,983	1,350,000	1,350,000	1,350,000	1,350,000	1,350,000	1,350,000
Other Revenue							
Interest	(10,524)	18,113	37,469	26,878	52,811	15,750	41,759
Municipal State Aid (MSA)	-	301,951	4,103,390	314,150	1,320,433	326,841	1,333,378
Transfers In							
Street Improvement Reserve	3,000,000	-	-	-	-	-	-
Storm Water	-	-	150,000	-	150,000	-	150,000
Sanitary Sewer	-	-	-	-	-	-	-
ERMU/Trunk Utility (Water)	121,171	-	-	-	-	-	-
Total Revenue	<u>3,825,630</u>	<u>1,670,064</u>	<u>5,640,859</u>	<u>1,691,028</u>	<u>2,873,244</u>	<u>1,692,591</u>	<u>2,875,137</u>
Expenditures							
Capital Outlay	2,618,089	-	6,429,724	-	4,330,000	-	4,500,000
Sealcoat/Overlay program	-	379,650	365,199	394,382	396,268	392,156	403,921
Total Expenditures	<u>2,618,089</u>	<u>379,650</u>	<u>6,794,923</u>	<u>394,382</u>	<u>4,726,268</u>	<u>392,156</u>	<u>4,903,921</u>
Revenues less Expenditures	<u>1,207,541</u>	<u>1,290,414</u>	<u>(1,154,064)</u>	<u>1,296,646</u>	<u>(1,853,024)</u>	<u>1,300,435</u>	<u>(2,028,784)</u>
Fund Balance - Beginning	-	1,207,541	2,497,955	1,343,891	2,640,537	787,513	2,087,948
Fund Balance - Ending	1,207,541	2,497,955	1,343,891	2,640,537	787,513	2,087,948	59,165

Notes

Municipal State Aid (MSA) Balance

	2014	2% 2015F	2% 2016F	2% 2017F	2% 2018F	2% 2019F
Beginning balance	\$ 708,248	\$ 1,614,101	\$(1,257,329)	\$ (50,502)	\$ 175,173	\$ 1,420,074
New Allotment(average)	1,207,804	1,231,960	1,256,599	1,281,731	1,307,366	1,333,513
Pavement Management Plan**	-	(3,795,400)	-	(1,000,000)	-	(1,000,000)
Maintenance (sealcoat)*	(301,951)	(307,990)	(314,150)	(320,433)	(326,841)	(333,378)
Ramsey Payback	-	-	264,377	264,377	264,377	-
Ending Balance	\$ 1,614,101	\$(1,257,329)	\$ (50,502)	\$ 175,173	\$ 1,420,074	\$ 1,420,209

*=25% of MSA allocation (2015-2019)

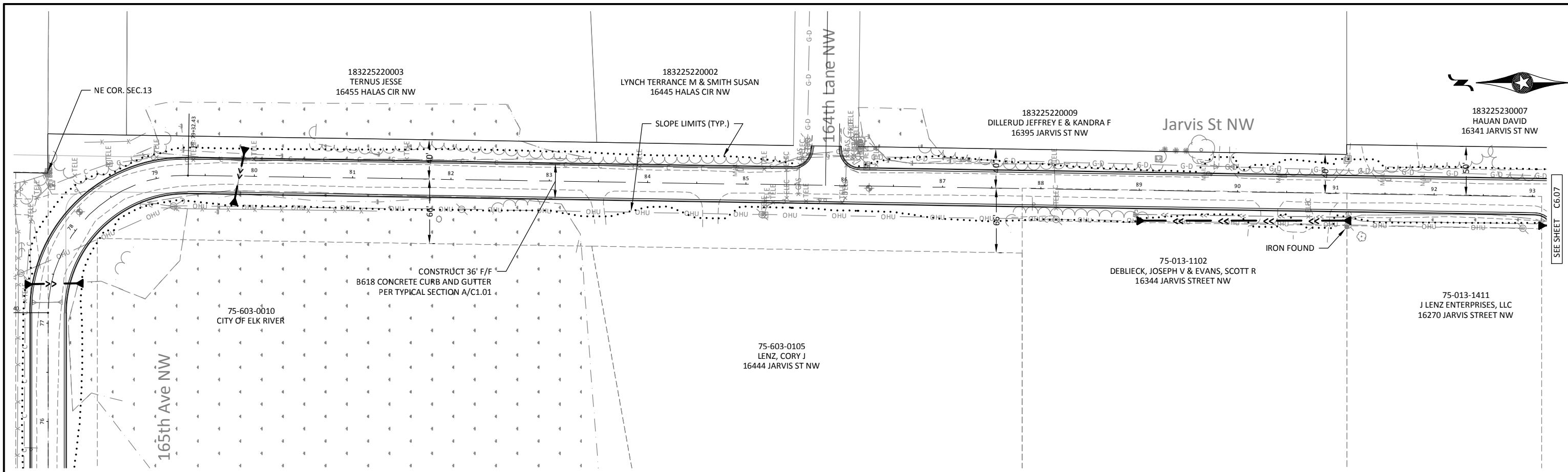
** = Funds will be advanced from future state-aid allotment

JARVIS STREET - 32' ROADWAY WITHOUT TRAIL
 COST SHARING
 STA. 79+00 TO STA. 117+00
 CITY OF ELK RIVER

NO.	ITEM	UNITS	QTY	UNIT PRICE	TOTAL PRICE
STREETS					
1	MOBILIZATION	LUMP SUM	1.00	\$15,000.00	\$15,000.00
2	TRAFFIC CONTROL	LUMP SUM	1.00	\$6,000.00	\$6,000.00
3	RECLAIM BITUMINOUS PAVEMENT (9")	SQ YD	10133	\$4.00	\$40,532.00
4	SUBGRADE EXCAVATION	CU YD	5600	\$3.50	\$19,600.00
5	COMMON EXCAVATION	CU YD	6000	\$2.00	\$12,000.00
6	POND EXCAVATION	CU YD	2500	\$8.00	\$20,000.00
7	GRANULAR BORROW	CU YD	18500	\$5.00	\$92,500.00
8	AGGREGATE BASE CLASS 5	TON	9800	\$12.00	\$117,600.00
9	TYPE SP 12.5 WEARING COURSE MIX (4,E)	TON	1850	\$75.00	\$138,750.00
10	TYPE SP 12.5 NON WEARING COURSE MIX (4,B)	TON	2200	\$70.00	\$154,000.00
11	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	7600	\$11.00	\$83,600.00
12	COMMON TOPSOIL BORROW	CU YD	2750	\$20.00	\$55,000.00
13	SODDING TYPE LAWN	SQ YD	15000	\$3.50	\$52,500.00
14	STRIPING AND SIGNAGE	LUMP SUM	1	\$6,000.00	\$6,000.00
15	SILT FENCE	LIN FT	7600	\$2.00	\$15,200.00
16	TREE REMOVAL	ACRE	1.5	\$10,000.00	\$15,000.00
17	REMOVE & REPLACE LANDSCAPING	LUMP SUM	1	\$5,000.00	\$5,000.00
18	LAND ACQUISITION	SQ FT	10000	\$4.00	\$40,000.00
				SUBTOTAL STREETS COST	\$888,282.00
				10% CONTINGENCIES	\$88,820.00
				TOTAL STREETS COST	\$977,102.00
				INDIRECT COSTS (10%)	\$97,750.00
				TOTAL STREETS COST	\$1,074,852.00
				TOTAL CITY OF RAMSEY STREETS COST	\$537,426.00
STORM SEWER					
1	REMOVE CULVERT (RCP)	LIN FT	867	\$10.00	\$8,670.00
2	REMOVE DRAINAGE STRUCTURE	EACH	2	\$400.00	\$800.00
3	CONNECT TO EXISTING	EACH	3	\$300.00	\$900.00
4	CONST DRAINAGE STRUCTURE DESIGN G	LIN FT	34	\$310.00	\$10,540.00
5	CONST DRAINAGE STRUCTURE DES 48-4022	LIN FT	65	\$300.00	\$19,500.00
6	CASTINGS	EACH	24	\$700.00	\$16,800.00
7	12" RC PIPE CULVERT	LIN FT	1257	\$32.00	\$40,224.00
8	15" RC PIPE CULVERT	LIN FT	700	\$30.00	\$21,000.00
9	18" RC PIPE CULVERT	LIN FT	427	\$35.00	\$14,945.00
10	12" RC PIPE APRON	EACH	2	\$600.00	\$1,200.00
11	15" RC PIPE APRON	EACH	1	\$500.00	\$500.00
12	18" RC PIPE APRON	EACH	1	\$650.00	\$650.00
13	RANDOM RIPRAP CLASS IV	CU YD	30	\$90.00	\$2,700.00
14	STORM DRAIN INLET PROTECTION	EACH	24	\$150.00	\$3,600.00
				SUBTOTAL STORM SEWER COST	\$142,029.00
				10% CONTINGENCIES	\$14,200.00
				TOTAL STORM SEWER COST	\$156,229.00
				INDIRECT COSTS (10%)	\$15,660.00
				TOTAL STORM SEWER COST	\$171,889.00
				TOTAL CITY OF RAMSEY STORM SEWER COST	\$85,944.50

JARVIS STREET - 32' ROADWAY WITHOUT TRAIL
 COST SHARING
 STA. 79+00 TO STA. 117+00
 CITY OF ELK RIVER

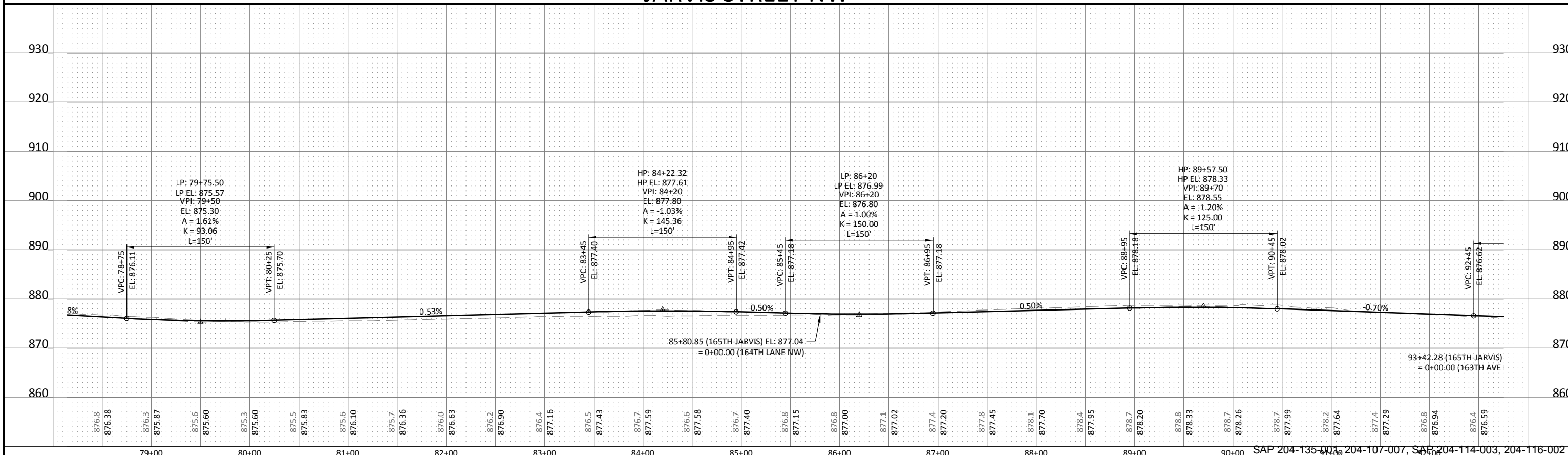
NO.	ITEM	UNITS	QTY	UNIT PRICE	TOTAL PRICE
QUIET ZONE AT JARVIS IMPROVEMENTS					
1	PROPOSED CROSSING SURFACE (INCLUDES CONCRETE PANELS, NEW RAIL, TIES, AND BALLAST)	LF	80	\$1,400.00	\$112,000.00
2	PROPOSED SAFETY MEASURE (TWO-QUADRANT GATE SYSTEM WITH FLASHERS & CWT)	LUMP SUM	1	\$250,000.00	\$250,000.00
3	COMMON EXCAVATION	CU YD	150	\$14.00	\$2,100.00
4	AGGREGATE BASE. CLASS 5	TON	80	\$28.00	\$2,240.00
5	5" CONCRETE WALK	SQ FT	1000	\$6.00	\$6,000.00
6	CONCRETE CURB & GUTTER DESIGN B818 (NON-TRAVERSABLE MEDIAN)	LIN FT	320	\$18.00	\$5,760.00
7	TRUNCATED DOMES	SQ FT	80	\$42.00	\$3,360.00
8	FLAG PERSON (BNSF CROSSING)	LUMP SUM	1	\$12,500.00	\$12,500.00
9	SIGN PANEL TYPE C	SQ FT	50	\$35.00	\$1,750.00
10	HYDRAULIC SOIL STABILIZER, TYPE 5, WITH SEED & FERT.	SQ YD	500	\$2.00	\$1,000.00
				SUBTOTAL QUIET ZONE COST	\$396,710.00
				10% CONTINGENCIES	\$39,670.00
				TOTAL QUIET ZONE COST	\$436,380.00
				INDIRECT COSTS (10%)	\$43,670.00
				TOTAL QUIET ZONE COST	\$480,050.00
				TOTAL CITY OF RAMSEY QUIET ZONE COST	\$240,025.00
				TOTAL CITY OF RAMSEY COST FOR 32' ROADWAY WITHOUT TRAIL	\$863,395.50
				TOTAL COST INCREASE TO 36' WIDE ROADWAY	\$56,910.00
				TOTAL CITY OF RAMSEY CONTRIBUTION	\$920,305.50



SEE SHEET C6.05

SEE SHEET C6.07

JARVIS STREET NW

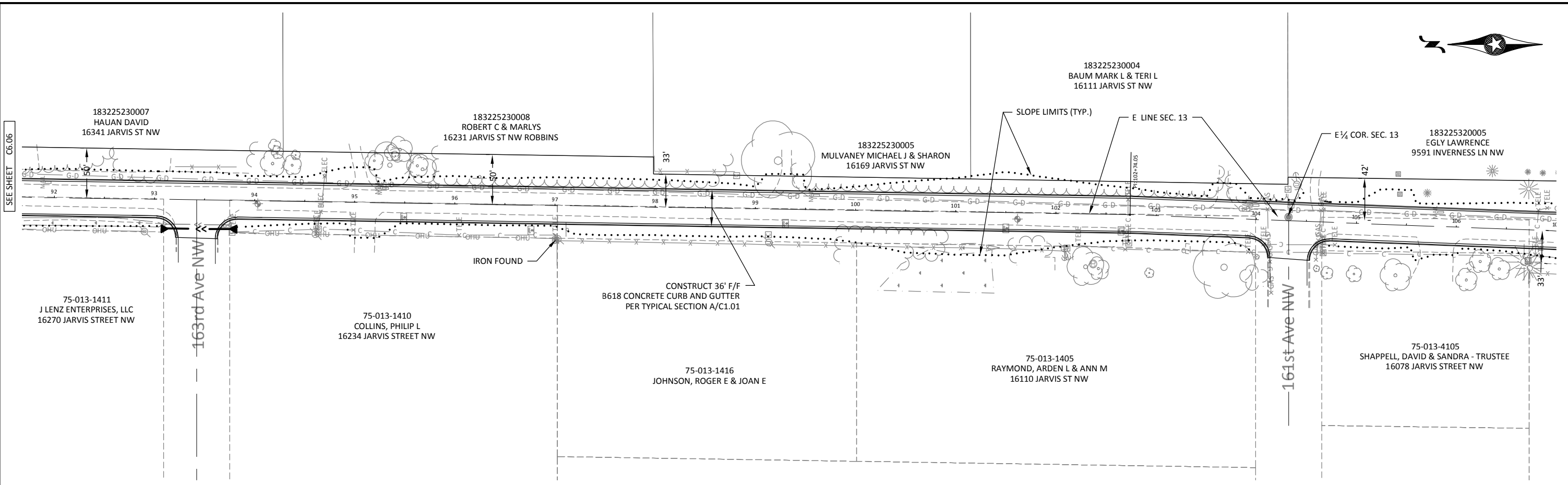


<p>DESIGNED: CLH DRAWN: DJT CHECKED: KAZ</p>	<p>DATE: XX/XX/XXXX</p>	<p>REV. BY DATE</p>	<p>ELK RIVER, MINNESOTA 2015 STREET IMPROVEMENT PROJECT JARVIS STREET NW</p>
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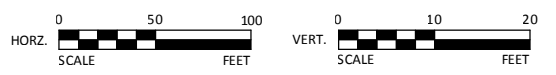
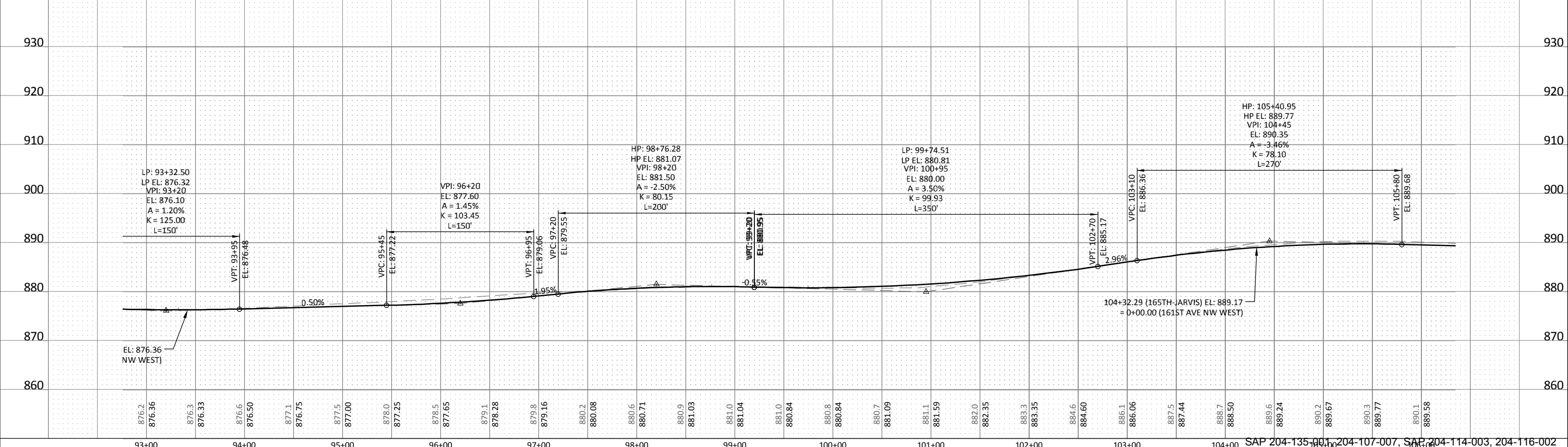
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AMES, IA SPENCER, IA DES MOINES, IA FARGO, ND

SHEET
C6.06



JARVIS STREET NW



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 CODY L. HOLMES
 LIC. NO. 49143 DATE XX/XX/XXXX

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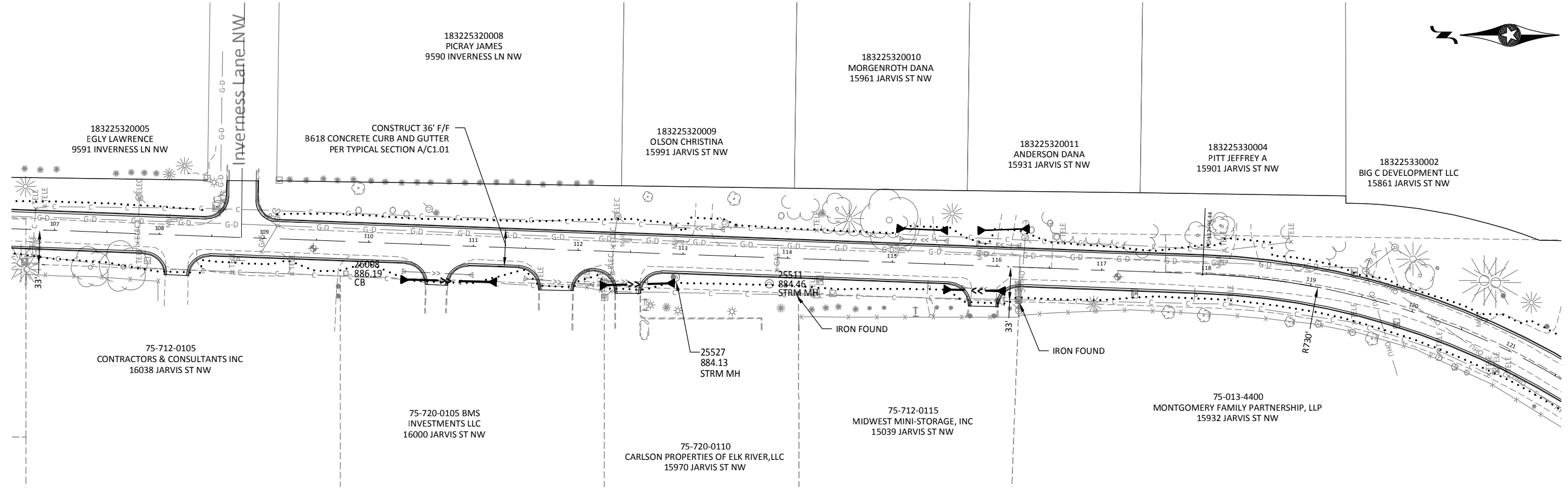
ELK RIVER, MINNESOTA
 2015 STREET IMPROVEMENT PROJECT
 JARVIS STREET NW
 SHEET C6.07

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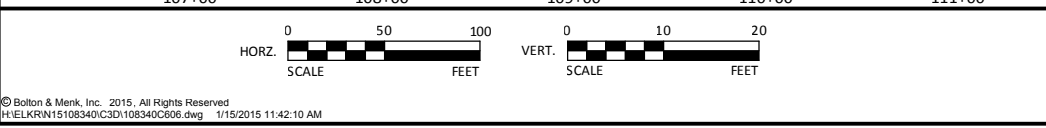
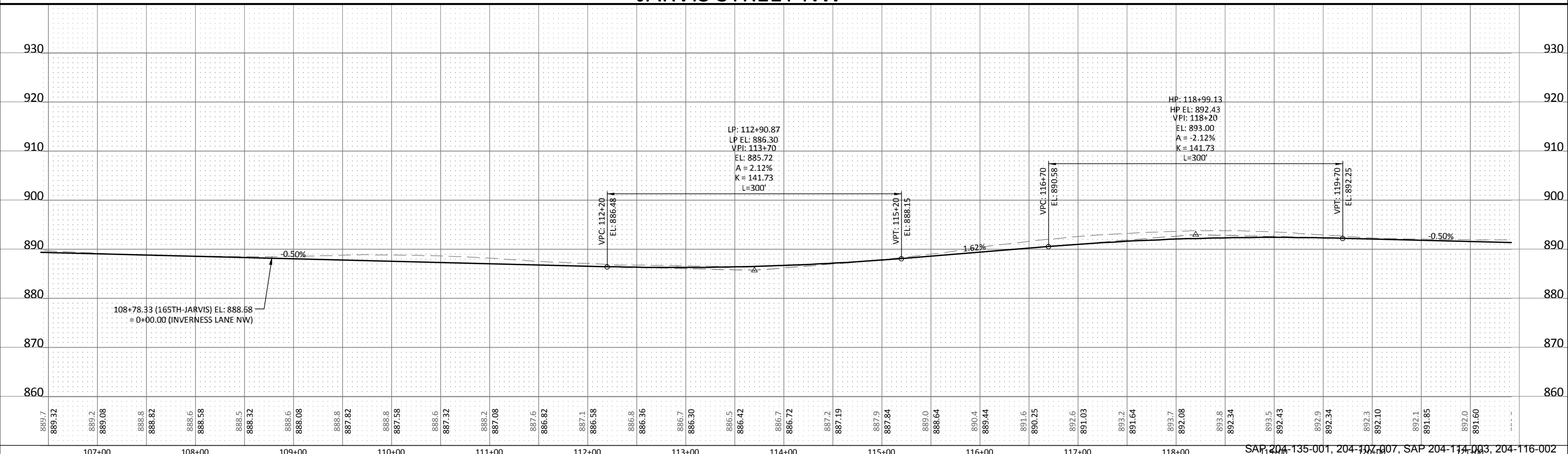


SEE SHEET C6.07

SEE SHEET C6.08



JARVIS STREET NW



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CODY L. HOLMES
 LIC. NO. 49143 DATE XX/XX/XXXX

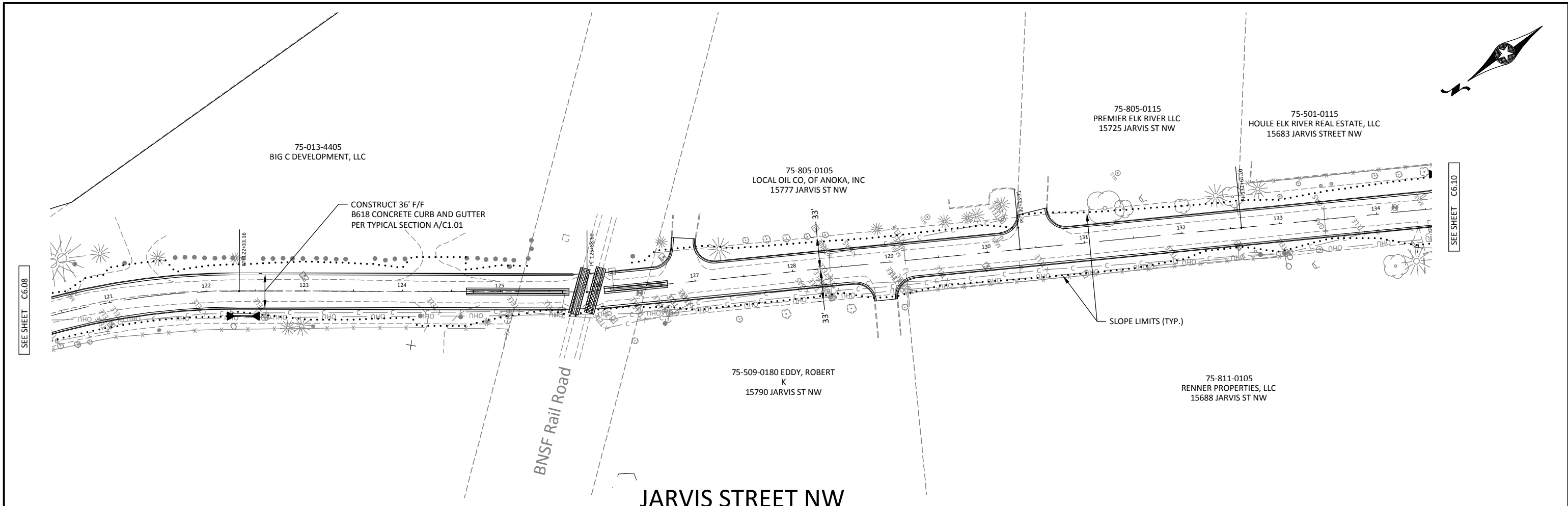
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REV.	BY	DATE

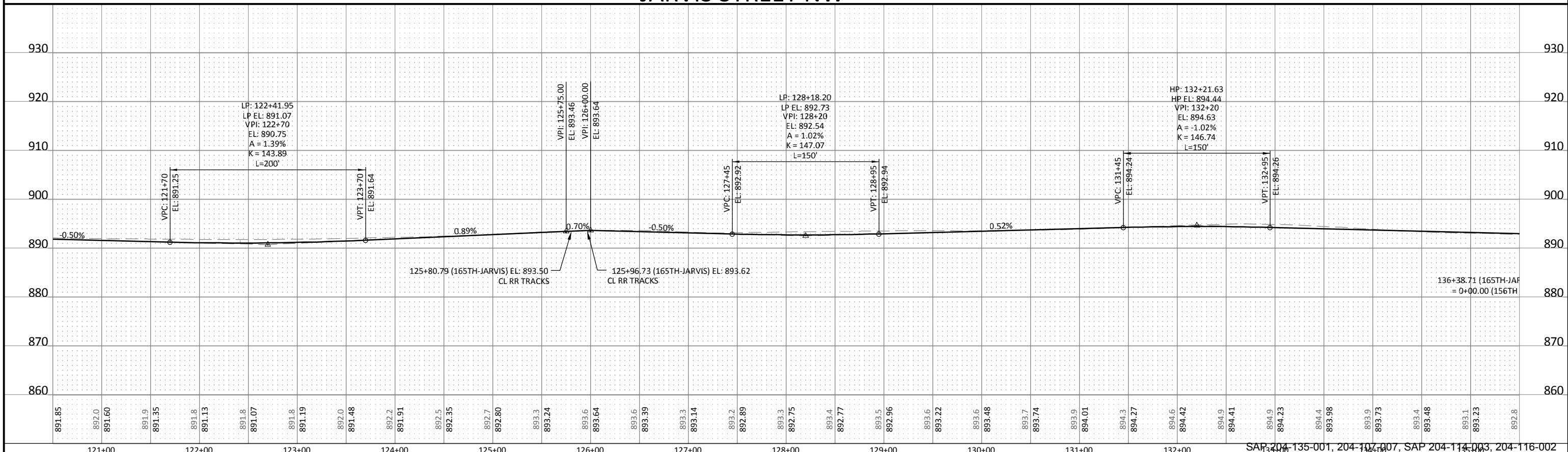
ELK RIVER, MINNESOTA
 2015 STREET IMPROVEMENT PROJECT
 JARVIS STREET NW

SHEET C6.08

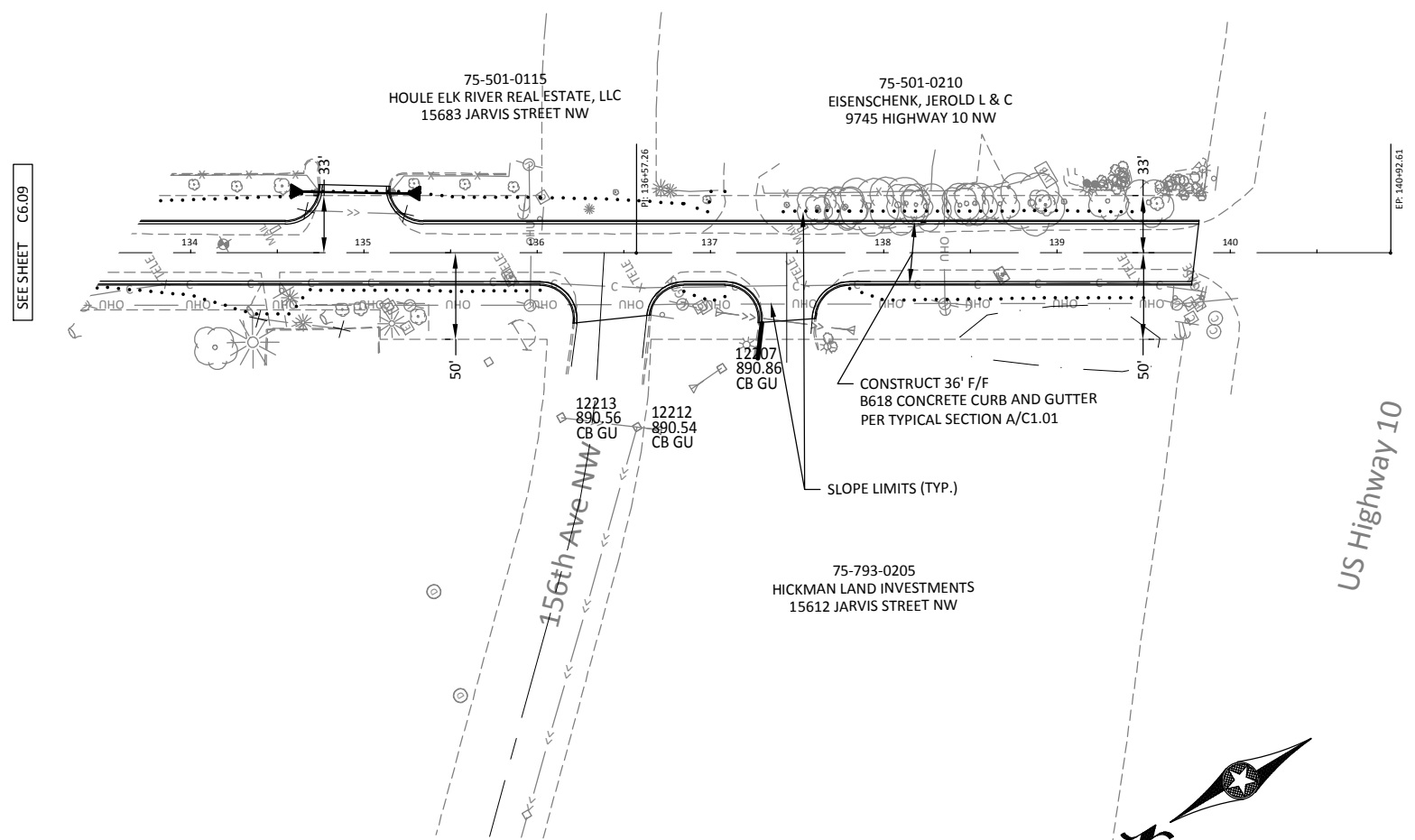
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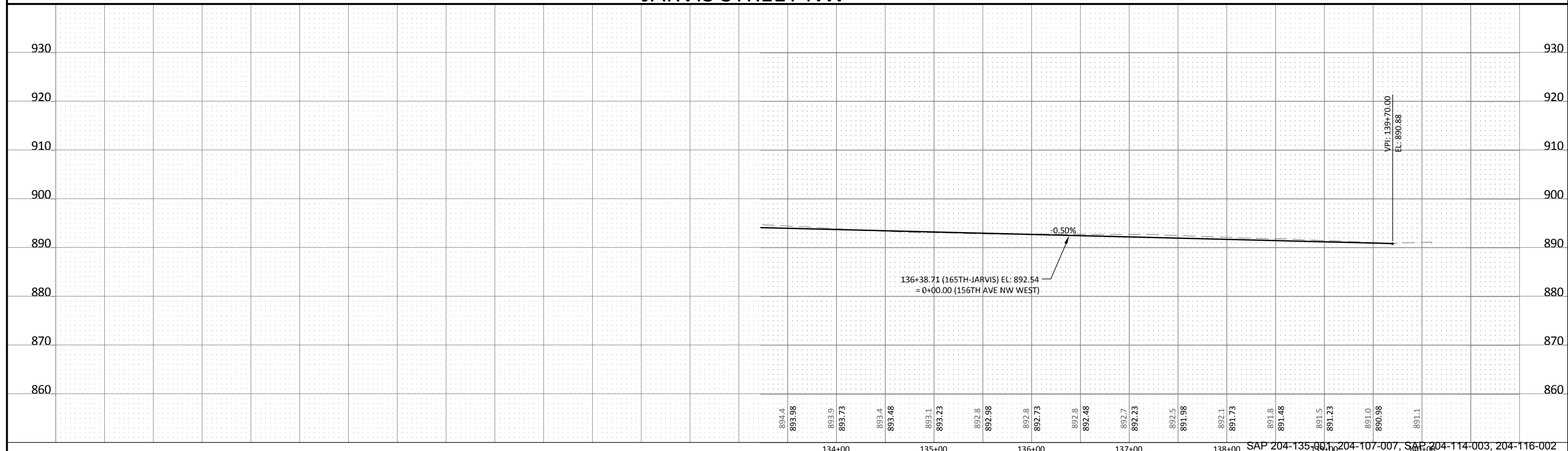
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JARVIS STREET NW



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Public Works Committee

6. 1.

Meeting Date: 01/20/2015

By: Bruce Westby, Engineering/Public Works

Title:

Update on Water Supply Planning Efforts

Purpose/Background:

Purpose:

The purpose of this case is to update the Public Works Committee on the City of Ramsey's current efforts related to planning for future water supply.

Background:

The City of Ramsey currently serves about half of its residential properties with water through its public water supply system. The other half are served by private wells.

The City's entire water supply system is currently served by 8 groundwater wells. The City had planned to add more groundwater wells as needed, but the current direction from regulating agencies is to tap into existing surface water sources when possible. What this means for the City of Ramsey is that we need to consider using the Mississippi River for some or all of our future water supply needs.

Due to the large amount of data that impacts this discussion, Staff is preparing a PowerPoint presentation on this topic which will be presented during the meeting.

Timeframe:

Approximately 15 minutes for presentation and discussion.

Observations/Alternatives:

To be discussed during the PowerPoint presentation.

Funding Source:

Estimated funding amounts and options will be discussed during the PowerPoint presentation.

Recommendation:

Not applicable at this time.

Action:

This is an informational item only. No action is required at this time.

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
Grant Riemer	Grant Riemer	01/15/2015 01:16 PM
Kurt Ulrich	MaryJo Warner	01/15/2015 03:50 PM

Form Started By: Bruce Westby
Final Approval Date: 01/15/2015

Started On: 01/12/2015 04:37 PM

Public Works Committee

6. 2.

Meeting Date: 01/20/2015

Submitted For: Len Linton, Engineering/Public Works

By: Len Linton, Engineering/Public Works

Title:

Historical Background on High Water Issues in Ramsey

Purpose/Background:

This is an informational presentation on historical high water concerns in Ramsey. There have been several years where residents have come to the City requesting assistance with high water adjacent to their homes. Several residents contacted staff and Council members during 2014. Staff is preparing a case for the February 17, 2015 Public Works Committee meeting to address these specific concerns. This presentation looks at historical incidents and how the City responded.

Storm Water Overview

Ramsey is located on the Anoka Sand Plain and the soils are generally sandy and free draining. There are areas of heavier soils that retain water and support wetland vegetation. Approximately 20% of the surface area of Ramsey is classified as wetlands. Some of these wetlands are isolated pockets and the remainder are loosely connected by channels or swales. The water level in wetlands is generally static from year to year; however, the levels can fluctuate. The water levels can drop during longer periods of less rainfall and rise during longer periods of additional rainfall. This is more apparent in isolated areas that do not readily drain. All isolated areas will overflow given enough precipitation.

The early developments in Ramsey were most often constructed without evaluation of the adjacent wetland and potential overflow elevations. Storm water management consisted of road side ditches adjacent to rural sections with a few culverts under the roads and possibly a small dry detention area. The storm water management requirements have increased until the present time. The current requirements include infiltration of the first 1" of runoff from new impervious (pavement and roof tops) surfaces and rate control for the 2 year, 10 year and 100 year events. Rate control means the flow from the site cannot exceed the pre-development rate for each storm. This is accomplished through construction of detention facilities on site. High water concerns are generally reported from older developments that were installed prior to storm water management being required.

This presentation covers several historical periods when the residents brought problems forward and the City responded.

1985

The city received over 34 complaints about high water. Several were related to high groundwater flooding basements, several were water flooding basement from adjacent wetland. There was discussion at several Council meetings about how to resolve the situation. A resident said Andover had pumped water for its residents and asked what Ramsey would do. The City Engineer indicated it may be possible to pump some areas. The City Attorney cautioned that the City would be liable for damage to downstream properties of the increased flow from pumping caused damage. The City Engineer and the Public Works director were instructed to prepare a pumping plan and present it to the Council. The records show the city planned to pump water from 10 properties.

1997

The Mississippi River and Rum River experienced high flows. The City compiled a list of property owners who contacted the City. A small berm was constructed on one property along the Mississippi River.

2007

A map was prepared by staff showing historical areas that had experienced high water. This map was incorporated in the Surface Water Management Plan.

2011

The 2010 – 2011 winter saw high snowfall. The City received 22 complaints about high water in backyards. Staff determined that the complaints fell into 3 categories:

- A - Water ponding outside of easements
- B - Water ponding in public right of ways, and
- C - Water ponding in drainage and utility easements.

Studies were prepared for properties in the A category and several projects were approved for correcting the drainage problems. Several more projects that were studied were postponed for budgetary reasons. Properties in the B category were slated for inclusion in street maintenance projects in the area, the work generally consists of replacing failed culverts. Review of properties in the C category indicated the water was contained in the drainage and utility easements, downstream culverts and channels were checked, no further action required.

2014

Staff received several complaints regarding high water on properties. Council members also received calls from property owners. The affected residents have been notified that their concerns will be brought forward at the February Public Works Committee meeting.

Timeframe:

Estimated time for this discussion is 20 minutes.

Observations/Alternatives:

The City has responded to high water concerns in various ways in the past. The attachments include memos and council meeting minutes and a lists of properties reporting flooding concerns. A map will be projected at the meeting.

Funding Source:

Specific improvements are not proposed with this case. The funding source for the 1985 actions was not specified. Storm water improvements after 2000 have been funded from the Storm Water Utility account. There are increasing demands for stormwater improvements including resident concerns as noted above and construction of storm sewer in conjunction with street reconstruction projects and annual maintenance. A comprehensive look at projected expenditures from the Storm Water Utility account is needed. This will be initiated with the case brought to the February Public Works Committee Meeting.

Recommendation:

Staff recommends reviewing the attached information in preparation for the February meeting. No action is required on this case.

Action:

This case provides background information on how the City has addressed flooding concerns in the past. No action is required at this time.

Attachments

1984 Memo

1985 Memo

1985 Oct CC Meeting Minutes

85-2011 Property Lists

Form Review

Inbox

Bruce Westby

Grant Riemer

Kurt Ulrich

Form Started By: Len Linton

Final Approval Date: 01/15/2015

Reviewed By

Bruce Westby

Grant Riemer

MaryJo Warner

Date

01/15/2015 12:56 PM

01/15/2015 01:04 PM

01/15/2015 01:13 PM

Started On: 01/14/2015 09:24 AM

*encl to
o call 15*

MEMO

TO: Lloyd Schnelle, City Administrator
FROM: Peter Raatikka, City Engineer
DATE: February 21, 1984
RE: Drainage Problem at 162nd Avenue and Zirconium Street

As discussed this morning, I have been contacted by Del Skeim in regard to the drainage problem on parcel 1895 as shown on the attached map.

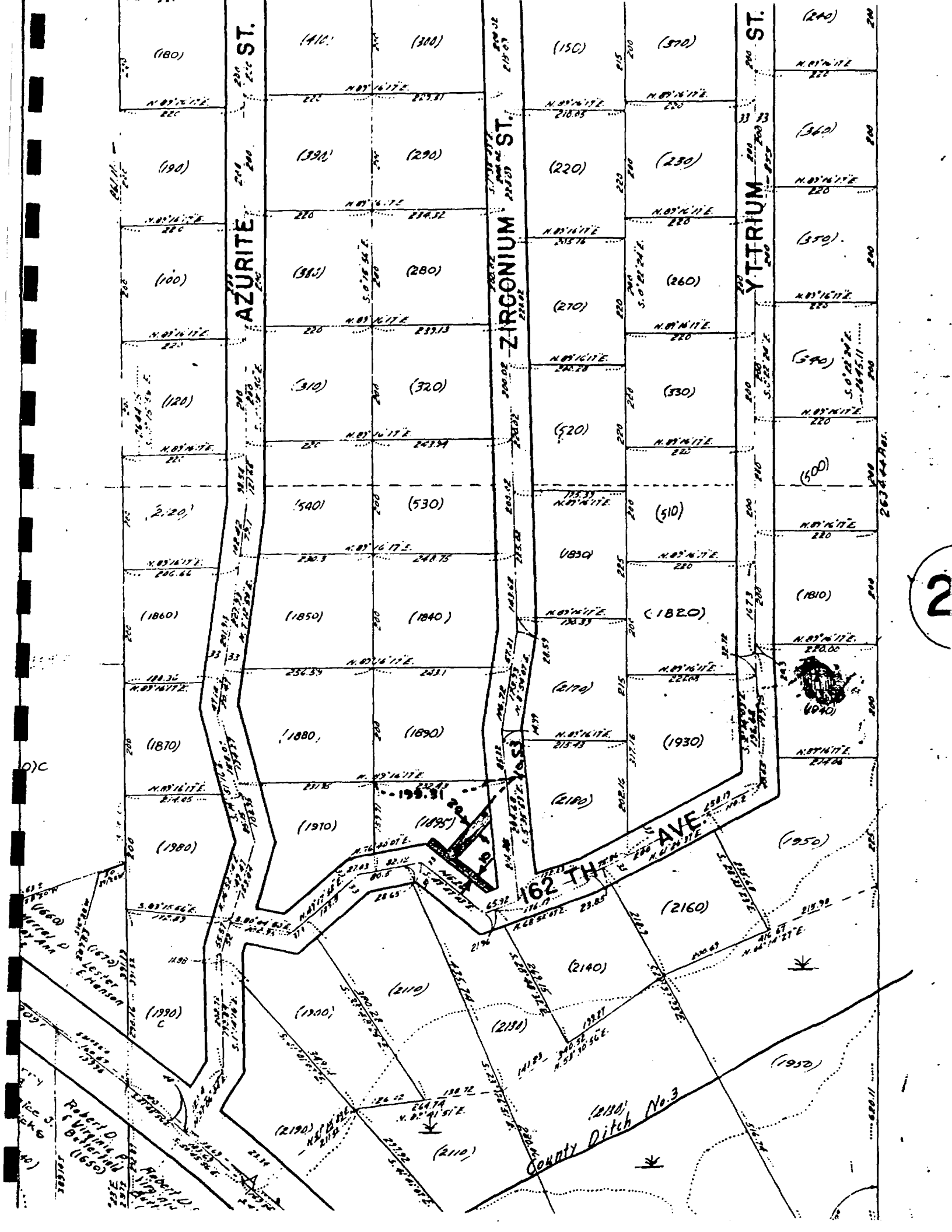
At the time this area was platted and the streets constructed, drainage from parcel 1895 flowed south through a culvert under 162nd Avenue and along a ditch on parcel 2130 to County Ditch No. 3. Later Mr. Menkveld filled the ditch on parcel 2130 and constructed a house. This blocked the drainage from parcel 1895.

Mr. Skeim has recently constructed a house on parcel 1895 and has proposed to deed to the City the drainage easement as shown on the attached map. However, he is also requesting that the City install a dry well on his property to minimize ponding of water.

A dry well would be a relatively inexpensive solution which could operate for a number of years provided it is maintained. However, a permanent solution to the problem would be to construct storm sewer between parcels 2110 and 2130 or 2130 and 2140 and drain the area to County Ditch No. 3.

Please place this item on the agenda for council action.

City Attorney Goodrich has informed me that even though Mr. Skeim's house is not subject to [redacted] the City could be held liable for [redacted] on his land.



AZURITE ST.

ZIRCONIUM ST.

Y-TIRIUM ST.

162 TH AVE.

162 TH AVE.

County Ditch No. 3

2

02-a

MEMO

TO: Ramsey City Council

FROM: City Engineer

RE: Summary of High Water or Flooding

DATE: October 18, 1985

As requested at your October 10, 1985 council meeting, I have assisted Merle Mevissen and Councilman Gary Reimann in the purchase of a pump and piping. The total cost of the equipment was \$9,691.00 as shown on the attached invoice. The pump was delivered on October 16, 1985 and pumping commenced in accordance with the attached pumping schedule. In addition, I have acquired or am in the process of acquiring waivers of trespass and DNR permits for the pumping.

Following is a summary of the problems shown on the high water map which were not scheduled for pumping at this time:

1. Glen Berg, 5651-164th Lane: This problem consists of surface water accumulating on the northeast corner of the lot. This problem will be minimized when a swale is constructed to the drainage pipe by the golf course developer.
2. Karen Osc, 7750-152nd Lane N.W.: This problem consists of a walkout basement located on a low lot. The City crews have pumped this area and plugged the culvert. However, due to the high ground water and rainfall, this problem keeps reoccurring.
3. George Cowles, 9539 Highway 10: This problem is a surface water problem caused by the new building constructed by Christian Builders. I have informed the developer he will have to resolve the problem prior to occupancy.
4. Tony Karst, 16312 Marmoset St. N.W.: This problem consists of a walkout basement constructed on a pond below the overflow to the pond. City crews have pumped this pond several times to alleviate the problem.
5. Mike Villeneuve, 6230-177th Lane N.W.: This problem consists of water ponding in the back yard of Mr. Villeneuve's lot. Mr. Mevissen has reviewed this problem.
- 6&7. Ruth Thompson & Dan Hawkes, 164th Lane: These houses are constructed next to a Type IV wetland. The ponds have been lowered to the normal water level. However, the drainfields are constructed at or near the normal water level. I have contacted the golf course developer and they have agreed to lower the pond levels another six inches.

Balen

8. John Lenz, 16234 Jarvis St. N.W.: This problem is located in Elk River. I have discussed the problem with the City of Elk River and stated that they should resolve this problem. The solution may require constructing a drainage ditch from the City of Elk River to Trott Brook in Ramsey.
10. Helen Nebelung, 17675 Argon St. N.W.: This problem is a combined surface and groundwater problem. A culvert across Argon Street outlets into Mrs. Nebelung's lot and drains toward her drainfield. With the heavy rainfall and high water table, her drain field and septic tank have backed up into her basement. A possible solution to minimize the problem would be to swale the drainage from the culvert away from the drainfield. This would require easements.
- 12,14
&17. Highway 10 Area: Skelgas is currently pumping groundwater from their lot across Highway 10 to alleviate their flooding problem. Based on piezometers in the area, the water table is four feet higher than July, 1985. We have also installed piezometers south of Highway 10 and it appears that the groundwater has a steep gradient toward the Mississippi River.
13. Floyd Larson, 18025 Erdium St. N.W.: This problem is caused by the high water level in Ford Brook. The City started a project and provided an outlet to Ford Brook for Mr. Larson two years ago. Due to wet conditions, the final grading has not been completed.
19. Arla Voltin, 6410-162nd Ave. N.W.: This problem is a combined surface and groundwater problem. A city culvert drains into this lot towards the drainfield. With the heavy rains and high water table, her drainfield and septic tank have backed up into her basement. Swaling the drainage from the culvert away from the drainfield may help to minimize the problem.
20. Ronald Lange, 14930 St. Francis Blvd. N.W.: We will be pumping the pond on the east side of T.H. 47. I contacted Mrs. Lange and informed her of the pumping. I also told her we could not pump her side of T.H. 47 because there was not a culvert crossing.
26. Zirconium St. N.W.: This problem consists of water on the edge of the street.
27. Ralph Lenarz, 4925-179th Lane N.W.: Flooding of the Lenarz's basement is caused by high groundwater.

*City Agreement
easement
etc*

*City Agreement
easement*

28. Glen Zettervall, 7601-163rd Lane N.W.: Mr. Zettervall's problem is caused by the high surface water and groundwater in the area. County Ditch No. 66 is partially plugged and has not been able to provide adequate drainage to the area. I told Mr. Zettervald that the City may be able to do some pumping if we could find a suitable place to setup the pump and discharge pipe.

In addition to the above, I have been contacted by three additional residents with water problems. They are as follows:

- A. Mrs. Klisch, Lot 14, Block 4, Whispering Pines Estates: She is concerned with the high water in the park south of her lot.
- B. Crystal Androli, Lot 3, Block 7, Barthel's Rum River Acres: She has water in her basement and problems with her drainfield. Her problems are caused by high groundwater.
- C. Gary Hawks, Lot 4, Block 6, Barthel's Rum River Acres: He has had water in his basement and problems with his drainfield due to high ground water and surface water. Mr. Hawks stated he would allow the City to drain the ponding area behind his house and would like to have the ditch on the east side of his lot cleaned.

*Open
Ditch on
East +
discharge*

PROPOSED PUMPING SCHEDULE
CITY OF RAMSEY

<u>Map Numbers</u>	<u>Area</u>	<u>Pumping Dates</u>
11	Hall Anderson Acres	Oct. 15, 1985
15,16,21,22	Pineview Estates	Oct. 16-18, 1985
9,23	Peltzer Addition	Oct. 21-23, 1985
25	Magnesium Street	Oct. 24 - Nov. 1, 1985
18,24	Gorhams Sandy Acres	Nov. 4-8, 1985

Mayor Heitman called the regular meeting back to order at 7:48 p.m.

COUNCIL NEW BUSINESS

Case #2: Adoption Of Assessments For Certain 1985 Public Improvement Projects:

A. Public Improvement Project #84-16 For Ramsey Terrace Street Surfacing:

Motion by Councilmember Sorteberg and seconded by Councilmember Cox to adopt Resolution #85-196 adopting the assessments for Ramsey Terrace streets, Project #84-16. (Please refer to resolution file for Resolution #85-196).

Further Discussion: Mayor Heitman inquired if all properties proposed to be assessed have been notified. Mr. Schnelle replied that they have.

Motion carried. Voting Yes: Mayor Heitman, Councilmembers Sorteberg, Cox, Reimann and Schlueter. Voting No: None.

B. Public Improvement Project #84-1 for Flintwood Hills Second Addition Sanitary Sewer, Water, Storm Sewer and Street Surfacing:

Motion by Councilmember Sorteberg and seconded by Councilmember Cox to adopt Resolution #85-197 adopting the assessments for Flintwood Hills Second Addition sanitary sewer, water storm sewer and streets, Project #84-1. (Please refer to resolution file for Resolution #85-197).

Motion carried. Voting Yes: Mayor Heitman, Councilmembers Sorteberg, Cox, Reimann and Schlueter. Voting No: None.

COUNCIL OLD BUSINESS

Case #3: Drainage Problems:

Clara Jenson - 5231 150th Lane - Gorham's Sandy Acres - Stated that she bought this home new in 1973; the pond is flooding her property; Andover pumped for their citizens; what will Ramsey do for those citizens being flooded.

Kevin Leonard - 5230 150th Lane - Gorham's Sandy Acres - Stated he bought his existing home in 1981; the water has come to within 5 yards of his home; home foundation is cracking.

Karen Osc - 7750 152nd Lane - Stated she moved into her existing home seven years ago; has water in her basement; over half of the lot is under water; water problems have increased since the installation of culvert.

Kris Bancroft - 7431 151st Avenue - Stated she moved into her new home in 1978; at 2:30 a.m. the water was up to the bottom step in the basement and now it is up to the second step; have no hot water or heat and appliances are floating; sump pump no longer works; daughter is taking 3 different medications because of health problems associated with the water; 3 month old son had to go live with grandmother because of conditions in the home; we have been before Council 3 times. At this time Ms. Bancroft submitted pictures to Council.

Karen Osc - Stated she knows it is not drainfield problems as she recently spent \$1700 redoing her septic system.

Mayor Heitman inquired as to why Ms. Bancroft did not remove valuables from basement.

Ms. Bancroft - Replied that it was difficult to save things at 2:30 a.m.

Dale Cameren - 149th Lane - Stated that he purchased his home new this past spring and it was VA approved; sump pump is running constantly; would a drainage ditch help?

Mr. Raatikka replied that a drainage ditch would help provided it was built with plenty of grade and directed towards the river.

Sandra Peterson - 7351 151st Avenue - Stated her basement is flooding; she is pumping 24 hours a day; home was built in 1972 and she purchased it in 1974.

Councilmember Cox stated that he and City Engineer Raatikka have met on this drainage problem; the area of 149th will be expensive to resolve; Gorham's Sandy Acres could be piped to the storm sewer in River's Bend; this problem is not uncommon to Ramsey.

Mr. Raatikka stated that he has made a list of problem areas; most could be relieved by pumping; the City has to be careful not to create other flooding problems when solving existing flood problems.

Mr. Goodrich stated that when the City starts moving water, it opens itself up to liability.

Mayor Heitman stated that the City should identify those plots of land now showing water problems; a so called 'moratorium' should be placed on those lots and building permits not issued unless with modifications such as no basement, modifications to the land or only with storm sewer installed.

Dale McKnight - 7421 150th Lane - Asked Mr. Raatikka to report on meeting with John Steiner of DNR.

Mr. Raatikka stated that Mr. Steiner was in Ramsey last Thursday; Mr. Steiner indicated that the water level in Ramsey was 1-1½' higher than that which DNR has documented.

Mr. McKnight - Stated that DNR has wetland maps available; Ramsey is issuing building permits in dry times; then in wet years the people have to pay to have water pumped; this is a government created problem as the City is not doing it's homework before issuing building permits.

Kris Bancroft - Stated that the pond that encroached her property is a DNR wetland; those wetlands are supposed to be for wildlife; the water on her property has attracted a domestic goose which is becoming a nuisance.

Bill Baker - 11208 Arrowhead - Noted that the Rum River is closer to 150th than the River's Bend storm sewer. Also noted that he has a model home on Magnesium; the County raised Industry Blvd.; will the City raise Magnesium to prevent flooding.

Douglas Fountain - 15255 Garnet Street - Stated that he attended a County Board meeting this morning and there was some discussion regarding the high water table and building homes in dry years. County discussed the possibility of recording in the abstracts any evidence of high water so the purchaser is aware.

Ms. Bancroft - Stated that a storm culvert was installed on 152nd; it drained down Rhinestone to 151st and into a ditch that is backing up; why wasn't this water drained to a natural low area?

Mr. Goodrich stated that even though Ramsey is a Charter city, it has a grant of power and Council has the authority to provide for the good order of the City and protection of public and private property; the City does have authority to expend general funds to resolve problems. With respect to liability, there is a possibility that the City could be held liable for not solving a problem that the City implied it would solve by undertaking a pumping project. Liability increases substantially when the City moves water; if you flood out someone else, the City will be held liable for damages. With respect to budget considerations, the Council should give Staff direction on how much pumping will be done, how much money is to be spent, and where.

Mr. Raatikka stated that Gorham's Sandy Acres and Magnesium Street could be pumped; it would be costly and take many days to accomplish; pumping requires landowner permission and DNR permits. A possible solution for the 149th area would be to pump the water across Highway #10; possibility of creating another problem because the water would have to be brought across Skelgas property which is already flooded.

Motion by Mayor Heitman and seconded by Councilmember Cox, for discussion, to direct the City Engineer to review possible candidate areas for pumping keeping in mind the liability the City can incur in altering water, i.e., to look for a short term solution that does not compound the problem; further, to report back to Council on October 11, 1985 with a plan to be implemented and approximate costs.

Further Discussion: Mr. Schnelle stated that Council should take action to get immediate relief to Gorham's Sandy Acres and Magnesium Street. Councilmember Cox stated that there are areas like Gorham's Sandy Acres which Council can take action on tonight and the City Engineer can report back to Council on October 10 regarding other recommended areas for pumping.

Mayor Heitman withdrew his motion and Councilmember Cox withdrew his second to it.

Motion by Councilmember Cox and seconded by Mayor Heitman to request that a special Council meeting be scheduled for Thursday, October 10, 1985 at 7:30 p.m. at which time the City Engineer will present recommendations and their associated costs with respect to the drainage problems presented to Council this evening.

Motion carried. Voting Yes: Mayor Heitman, Councilmembers Sorteberg, Cox, Reimann and Schlueter. Voting No: None.

Motion by Mayor Heitman and seconded by Councilmember Reimann, for discussion, directing the City Engineer, in conjunction with the Planning and Zoning Commission, to develop a revised high water table map identifying those areas currently flooded in Ramsey.

October 8, 1985

Page 4 of 14

Further Discussion: Mr. Schnelle stated that such a map was developed in 1979. Mayor Heitman inquired to why Ramsey is having a problem today if this high water map was development; stated that he does not want to perpetuate a bad problem. Councilmember Reimann noted that Ramsey is over the 100 year flood plain now.

Motion carried. Voting Yes: Mayor Heitman, Councilmembers Sorteberg, Cox, Reimann and Schlueter. Voting No: None.

Mr. Schnelle inquired if there is a possibility of using City equipment to alleviate some of the water problems at the Bancroft home and any other private homes needing assistance, to be determined by the Public Works Superintendent.

Mayor Heitman stated that pumping would be a very short term solution; the water level would be back up again the following day; the City can exercise the option to satisfy the problems these people are confronted with but we should not make promises we cannot keep.

Mr. Schnelle stated that all the City would do is pump the water out of the Bancroft home so that their furnace can be lit; the Bancroft's would be responsible to continue pumping from then on.

Motion by Councilmember Cox and seconded by Mayor Heitman directing the Public Works Superintendent to pump at the Bancroft home, and any other home as deemed necessary by the Public Works Superintendent.

Further Discussion: Councilmember Reimann stated that the City will do this immediate pumping to get the water level down but the property owners will be responsible to continue pumping. Ms. Bancroft stated that she understands that the City will get the water level down and she will continue to pump from then on.

Motion carried. Voting Yes: Mayor Heitman, Councilmembers Sorteberg, Cox, Reimann and Schlueter. Voting No: None.

Refer to page 6 of these minutes for additional comments.

Council recessed at 8:50 p.m.

Mayor Heitman called the meeting back to order at 9:05 p.m.

COUNCIL OLD BUSINESS

Case #1: Complete Unfinished Council Old Business From Council Agenda Dated September 24, 1985:

Case #1: Personnel:

Councilmember Cox stated that he doesn't feel the issue of City employees conducting private business while on duty at City Hall has been adequately covered. Councilmember Cox stated that he would like to see the City Attorney research this issue and report back to Council at their next meeting.

Motion by Councilmember Cox and seconded by Councilmember Reimann directing the City Attorney to review the following issues and report back to City Council at their meeting scheduled for October 22, 1985:

1. City employee utilization of City time for other endeavors, i.e., as it pertains to Mr. Clayton Berg and Ms. Sheila Beyer.

2. To request that Mr. Berg be present at the October 22, 1985 Council meeting to discuss this issue.

Further Discussion: Mr. Goodrich stated that he needs more direction than what is stated in the motion. Councilmember Cox stated that he wants information regarding the utilization of Staff personnel and time involved with the private endeavors of Mr. Berg and Ms. Beyer; more information regarding VA inspections. Councilmember Cox stated that Council did receive a letter indicating that no Staff time was used for personal matters and this issue should be reviewed by someone other than payrolled Staff in order to come up with a factual presentation. Mr. Goodrich inquired if he should talk to Staff members about this issue. Councilmember Cox replied that Mr. Goodrich should talk to Staff. Mr. Goodrich asked Councilmember Cox if he would see a problem with individuals not wanting to offer information. Councilmember Cox replied that he would not see it as a problem; those persons have that right. Councilmember Cox stated that he can provide Mr. Goodrich with a list of persons he should talk to. Councilmember Cox also noted that if Mr. Goodrich sees a legal problem, he should report that back to Council on October 22.

Motion carried. Voting Yes: Mayor Heitman, Councilmembers Sorteberg, Cox, Reimann and Schlueter. Voting No: None.

Refer to page 12 for further comments on this issue.

COUNCIL OLD BUSINESS

Case #3: Drainage Problems (Continued):

Council noted that all areas designated in Staff memo dated October 7 regarding drainage problems will be addressed in City Engineer's report to Council on October 10, 1985.

Glen Zettervall - 7601 163rd Lane - Inquired if his property is on the list of drainage problem areas to be addressed and stated that the water has been an ongoing problem for him since April.

Council informed Mr. Zettervall that his property is on the list of drainage problem areas.

Case #1: Complete Unfinished Council Old Business From Council Agenda Dated September 24, 1985: (Continued)

Case #2: Airport:

A. Council Endorsement Of Airport Master Plan:

Airport Commission Chairman Ippel was present and reviewed the proposed resolution with Council. Mr. Ippel stated that the resolution simply notifies FAA, Mn/DoT and Metro Council that the plan is Ramsey's Master Plan and the one Ramsey will be pursuing in ensuing studies; it obligates Ramsey to no further cost or expenditures at this time.

1985 Flooding Reported to City Council

Map No.	Pumped	Name	Number	Street	Comments
22	*		7351	149th Ave NW	Property flooding
		Dale Cameren		149th Lane NW	
18	*	Kevin Leonard	5230	150th Ave NW	Property Flooding, Foundation Cracking
23	*	Roger Warhol	7010	150th Ave NW	
24	*	Tom Frank	5132	150th Lane NW	
		Clara Jenson	5231	150th Lane NW	Property Flooding, Storm Sewer constructed to Rum River
		Dale McKnight	7421	150th Lane NW	
21	*	Charles Lasley	7431	150th Lane NW	
16	*	Sandy Peterson	7351	151st Ave NW	Flooded basement
15	*	Kris Bancroft	7431	151st Ave NW	Flooded basement
2		Karen Osc	7750	152nd Lane NW	Pumped area and plugged culvert
		Mrs. Klisch	8530	156th Lane NW	high water on adjacent park
11	*	Steven Back	5940	159th Lane NW	Flooded basement
19		Arla Voltin	6410	162nd Ave NW	Swale Drainage away from drainfield
		Del Skeim	6511	162nd Ave NW	1984 property drainage
		Glen Zettervall	7601	163rd Lane NW	Flooded Property
		Gary Hawks	5540	164th Lane NW	Flooded basement
1		Glen Berg	5651	164th Lane NW	Surface Water Pumped
7		Dan Hawkes	5741	164th Lane NW	164th Lane next to golf course, golf course lowered pond levels
6		Ruth Thompson	5751	164th Lane NW	
		Crystal Androli	5800	164th Lane NW	Flooded basement
5		Mike Villeneuve	6230	177th Lane NW	
		Ralph Lenarz	4925	179th Lane NW	High Groundwater flooding basement

1985 Flooding Reported to City Council

10	Helen Nebelung	17675 Argon St NW	Construct swale around drainfield
13	Floyd Larson	18025 Erkium St NW	Ford Brook high, constructed swale
17	Dr. Daryl Hartran	7245 Highway 10 NW	Vet Clinic has occasional water problems
12	Jim LaRose	7255 Highway 10 NW	Skelgas, pumped water across Hwy 10
14	Don Birdsall	7405 Highway 10 NW	Noon's RV
3	George Cowles	9539 Highway 10 NW	Surface Water Problem, poor drainage
8	John Lenz	16234 Jarvis St NW	Elk River
9	* Pat Delareter	Kamacite St NW	
25	*	14021 Magnesium St- Bunker Lake	
4	Troy Karst	16312 Marmoset St NW	Surface water pumped, walk out basement in low area
20	Ronald Lange	14930 St Francis Blvd NW	Pumped area east of TH47, property is west
26		15510 Zirconium St - High Point Add	Water on edge of street

City Pumping Oct-Nov 1985

1997 Flooding Reported to City Council

Name	Number	Street	Comments
Properties along Rivers			

2007 Flooding Concerns Included in Surface Water Management Plan

Name	Number	Street	Comments
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Areas shown on map, original data not available

**July 2011 Stormwater Visits
2011 Stormwater Improvement Projects**

Number	Street	Owner	Observations	Update	Potential Solutions	Action
6180	145th Lane NW		Resident concerned with high water in rear and side yard, encroaching near deck.	It appears as if the deck was built into or near the existing drainage & utility easement. Water is contained within the easement, but may be backing up through the system from Sunfish Lake due to high water conditions.	No further action.	C
5590	148th Lane NW	Matt Maul	Water standing in back yard Connected to Wetland at 5410 149th Lane	Verified culverts were open downstream	Evaluate & review drainage in area	A
5630	148th Lane NW	Bruce Saba	Standing water in rear yard pond and drainage & utility easement. Concerned water would continue to rise into home.	Water contained within existing drainage & utility easement on property. Verified downstream culverts were open & flowing	No further action.	C
5410	149th Lane NW	Rocky Belmonte	Water standing in back yard; appears to be slightly outside existing drainage & utility easement due to private property modifications (regrading and installation of a retaining wall).	Staff lowered the outlet from the adjacent wetland area under TH 47. Received a petition from area property owners requesting review of drainage problem - this will be brought to the City Council on August 23rd.	For the most part water appears to be contained within the existing drainage & utility easement. Awaiting Council direction on how to respond to attached resident request.	A
7030	151st Ave NW	Penny Laganieri	Concerned that ditch across the street was filled and now water flows over the road through their property causing erosion. Also has water in rear yard adjacent to ponding area.	Appears water was slightly outside of drainage & utility easement. Verified downstream culverts were open & flowing.	This area is adjacent to the park and was constructed over wetland fill. Water table too high in area.	A
5907	151st Lane NW	Chris & Karla Weiss	Standing water in rear yard pond and drainage & utility easement. Concerned water would continue to rise into home.	Staff will need to perform field surveying to verify house and overflow elevations, as it appears the structure was built lower than proposed.	Clean overland overflow area to provide 1' of freeboard from lowest opening.	B
5520	152nd Ave NW	Gary Solmonson	Street runoff from recently completed paving project flowing down neighbors driveway and settling in low point adjacent to the house.	Corrected neighbors driveway with minimal paving to keep street runoff in the right-of-way and directed to the storm sewer. Property owner installed some natural barriers to slow down and prevent overland flow from neighbors property.	No further action.	C
5220	156th Lane NW	Jason & Ruth Obermaier	Water standing in back yard over existing drain field of septic system. Discussed on a couple of occasions with Council related to options for short term septic fix, and long term downstream drainage options.	Currently working with property owner on offer to connect them to municipal sanitary sewer - based upon Council direction.	Going through a separate process to resolve the immediate concern related to the septic system. Will continue evaluating the downstream system for potential improvements, and bring back at a future date for discussion.	A
5671	156th Lane NW	Candie Hansen	Standing water in rear yard pond and drainage & utility easement. Concerned water would continue to rise into home.	Water contained within existing drainage & utility easements. Staff verified outlet structure and downstream system was free of obstructions.	No further action.	C
7601	163rd Ave NW	Intersection w/ Variolite St	Water standing in ditch		Evaluate & review existing culvert crossing for possible corrective action.	B
6310	163rd Lane NW		Contacted regarding standing water in the front yard and encroaching onto the roadway.	Staff cleaned the culvert in the area, which was old and extremely deteriorated. Existing drainage easement does not contain 100 year storm. Surrounding grades rise 20 ft above pond. See colored topo map.	Replace existing culvert under roadway.	A
5540	164th Lane NW		Water standing in rear and side lot drainage & utility easement.	Property owner pumped water over roadway into ditch along the north side. City staff cleaned the culvert under 164th, and the ditch to the north to direct water into the adjacent ponding area.	No further action.	C
5810	164th Lane NW		Water standing in front yard, and encroaching on the roadway.	Low point in ditch along roadway. Staff pumped water over road to existing drainage & utility easement on north side of road.	Install culvert under roadway.	B
7009	175th Ave NW	West of Nowthen Blvd	High water in pond to the south overflows the road to a pond on north side; no culvert crossing under road.	Staff pumped water over road in short term to keep travel lanes open.	Investigate County design of improvements, prior to turn back, to determine whether a culvert was supposed to be installed. If not, install a culvert under the road.	B
4925	179th Lane NW	Sarah Chamberlain	Experiencing flooding in the basement of the home. No standing surface water; presumably an elevated water table. Property owner wanted to know if we could improve ditch flow and/or install storm sewer into the recently completed work on Ute St.	Instructed home owner that we couldn't assist with an elevated water table, and they should contact Anoka County to discuss ditch drainage in area (County Road 27).	No further action.	C

2011 Stormwater Improvement Projects						
15611	Barium St NW	Moravetz, Paul & Carolyn	Water standing in back yard, lower than drainfield. Ponded water is in Woodland Green Park	Water contained within existing drainage & utility easement on property. Several trees show signs of stress and may be lost, both on private property (easement) and within the park.	Water appears to be contained within the existing drainage & utility easement. No further action.	C
17640	Cobalt St NW		Contacted regarding standing water in the front yard and encroaching onto the roadway.	Staff cleaned the culvert in the area, which was old and slightly deteriorated	Consider replacing culvert with future street maintenance activities in the area.	A
6530	Green Valley Road NW	Green Valley Greenhouse	Property owner expressed concern with ditch drainage (and wetland discharge from the north) running through the property and causing erosion to their pond outlet prior to discharge to County ditch #27.	County ditch issue (County Road 63)	No further action.	C
14580	Junkite St NW	Molly Bauch	Standing water in rear yard pond and drainage & utility easement. Concerned water would continue to rise into home.	Overland overflow from original grading plan not executed; the trail installation was too high & does not allow for overland flow to the adjacent wetland in the park. Staff initially pumped water over the trail and advised resident we would consider a storm sewer improvement to place a culvert under the trail and/or lower the trail to provide the overland relief as designed.	Install culvert under trail and/or lower trail to provide 1' of freeboard from lowest opening.	B
17159	Potassium St NW	Stromenger, Tom & Trish	Water standing in back yard, lower than drainfield. Some water inside under front step. Water visible under floor in back through open plumbing trench. Observation of yard indicated grades slope towards house in several locations corresponding to water observed inside. Backyard drains to Fox Park. Fox Park Boardwalk approaches are under 3" of water, water pushed up through boards while walking on it. No outlet for this wetland.	Advised property owner of potential improvements to improve drainage away from their foundation (fill and/or draitile installation).	Water appears to be contained within the existing drainage & utility easement. Private improvements to improve lot drainage. No further action.	C
16756	Sodium St NW	Kamrowski, Joel & Helen	Split Entry Walkout. Water standing on basement floor during visit. They removed all carpeting and sheet rock on block walls. Water came in at front wall at joint between block and slab. Observation of yard and discussion indicated water from roadside ditch rose and flowed towards house. Minimal grade change between bottom of ditch and grades at house. Potential solution, regrade ditch to drain to south property line, around mound system and into back yard. Backyard has standing water, this is north end of wetland/ storage area. Outlet is culvert under 167th Avenue. Observed Culvert, standing water visible at both ends, wetland south of 167th is Jon Peterson's proposed wetland banking area. It does not have an overland outlet. **** Homeowner is pursuing a claim against City for water damage in basement. **** Claim denied by League of Minnesota Cities	Surface water subsided, but still experiencing water in basement due to high groundwater. Property owner cleaned culvert in front under driveway (severely deteriorated). City verified that the culvert was free of obstructions under 167th, and removed debris from the downstream channel along the west side of Elmcrest Park. The property owner south of 167th is currently evaluating the opportunity to develop wetland banking credits, which would increase downstream capacity, and he is willing to share the results of his hydrologic study for the area.	No rear yard drainage & utility easements present - wetland at low point on adjacent lot to the south (also not encumbered by drainage & utility easement). Re-ditch boulevard areas and/or reshape property to allow pass through drainage to the wetland. Potential for downstream relief if wetland creation/banking project by private property owner is advanced. Additional information and evaluation is necessary to formulate a recommendation.	A
16659	St Francis Blvd NW		Water standing on fairways and cart paths. Pipe Flowing 25% full at outfall. Course rented large pump to move water in preparation for event on 7/21. They were making phone calls to contacts seeking prices for installing a second pipe. The route would cross fairways to the ditch on the east side of the course. **** They asked about possible City Participation in the cost of the pipe. I said it would have to be presented to the City Council.	Removed turtles from line, improved flow. The City contracted the televising of the storm sewer lines within the golf course and found several sags in the pipe system that hold water. There is a location in one of the pipes that had extreme root growth intrusion, and the camera could not advance any further downstream.	Additional information and evaluation is necessary to formulate a recommendation.	A
Actions						
A	Work Performed in Easement to address flooding concerns					
B	Problem will be addressed with street maintenance project in area					
C	Water ponding on private property - No further action					