

## INVER GROVE HEIGHTS CITY COUNCIL AGENDA

Monday, February 8, 2016

8150 BARBARA AVENUE

7:00 P.M.

1. CALL TO ORDER
2. ROLL CALL
3. PRESENTATIONS
4. CONSENT AGENDA – All items on the Consent Agenda are considered routine and have been made available to the City Council at least two days prior to the meeting; the items will be enacted in one motion. There will be no separate discussion of these items unless a Council member or citizen so requests, in which event the item will be removed from this Agenda and considered in normal sequence.
  - A. Minutes of January 11, 2016 City Council Meeting Minutes
  - B. Resolution Approving Disbursements for Period Ending February 2, 2016
  - C. Consider Approval of Therapeutic Massage License for HongJun (Wendy) Liao
  - D. 2016 Draft Legislative Issues
  - E. Consider Replacement of Fitness Equipment for Veteran Memorial Community Center
  - F. Consider Trunk Utility Reimbursements for Argenta Hills 8th Addition (Alverno Avenue)
  - G. Consider a Resolution Receiving and Approving the Stormwater Project Plan for Storm Water Facilities in Tributary Areas to the Mississippi River, City Project No. 2016-01 – Stormwater Treatment for Mississippi River Discharge to Seek Clean Water Revolving Funds and Grants and Authorizing Submittal of this Approved Plan to the MPCA
  - H. Approve Final Plans and Specifications and Authorize Advertisement for Bids for the 2015 Improvement Program, City Project No. 2015-16 – NWA Trunk Utility Improvements, Argenta Trail to Blackstone Ridge
  - I. Personnel Actions
5. PUBLIC COMMENT: Public comment provides an opportunity for the public to address the Council on items that are not on the Agenda. Comments will be limited to three (3) minutes per person
6. PUBLIC HEARINGS:
7. REGULAR AGENDA:
  - ADMINISTRATION:
    - A. INVER GROVE HEIGHTS CONVENTION & VISITORS BUREAU; 2015 Annual CVB Report
  - COMMUNITY DEVELOPMENT:
    - B. CITY OF INVER GROVE HEIGHTS; Parking of Boats and Non-Motorized Vehicles in the Front Yard
8. MAYOR & COUNCIL COMMENTS:

**9. EXECUTIVE SESSION:**

**A. CITY OF INVER GROVE HEIGHTS;** Consideration of New Proposal by Wells Fargo Bank related to Transfer / Donation of Jean Ades Property to City; Executive Session Pursuant to Minn. Stat. § 13D.05, Subd. 3(c)(3)”.

**10. ADJOURN:**

This document is available upon 3 business day request in alternate formats such as Braille, large print, audio recording, etc. Please contact Michelle Tesser at 651.450.2513 or [mtesser@invergroveheights.org](mailto:mtesser@invergroveheights.org)

**INVER GROVE HEIGHTS CITY COUNCIL MEETING  
MONDAY, JANUARY 11, 2016 - 8150 BARBARA AVENUE**

**1. CALL TO ORDER and 2. ROLL CALL**

The City Council of Inver Grove Heights met in regular session on Monday, January 11, 2016, in the City Council Chambers. Mayor Tourville called the meeting to order at 7:00 p.m. Present were Council members Bartholomew, Hark, Mueller and Piekarski Krech; City Administrator Lynch, City Attorney Kuntz, Community Development Director Link, City Clerk Tesser, Parks and Recreation Director Carlson, Finance Director Smith, Public Works Director Thureen, Police Chief Stanger and Fire Chief Thill.

**3. PRESENTATIONS:** None.

**4. CONSENT AGENDA:**

**A. Approval of Minutes**

- i. Minutes of November 9, 2015 City Council Meeting Minutes
- ii. Minutes of November 23, 2015 City Council Meeting Minutes
- iii. Minutes of November 30, 2015 Special Meeting Minutes
- iv. Minutes of December 5, 2015 City Council Work Session Minutes

**B. Resolution Approving Disbursements for Period Ending January 5, 2016**

**C. Accept Final 2015 Donations for Various Parks and Recreation Programs**

**D. Approve a Joint Powers Agreement between City and Dakota County for Emergency Management Services**

**E. Accept Donation for Police Department from Marylin Murphy in Memoriam of Jerry Murphy**

**F. Authorization of the Use of Eminent Domain Process to Acquire Easements City Project No. 2015-13**

**G. Approval of Water Plant Operator Job Description and Compensation and Promotion**

**H. Consider Change Order No. 4 and Pay Voucher No. 8 for the 2015 Capital Improvement Program, City Project No. 2015-10 – NWA Trunk Utility Improvements, Argenta District (Alverno to Blackstone Vista Development) and City Project No. 2015-11 – NWA 70th Street Lift Station, Argenta District**

**I. Approve Custom Grading Agreement for 8811 Aviary Path (Lot 12, Block 1, Annistone Ranch)**

**J. Approve Proposal from EOR, Inc. for Development of NWA H & H Model Transfer Information for Wenck Associates and Future Users of the Model**

**K. Personnel Actions**

**Motion by Bartholomew, second by Hark, to approve the Consent Agenda 4.A- 4.K. were pulled.**

**Ayes: 5**

**Nays: 0            Motion carried.**

**5. PUBLIC COMMENT:** None.

**6. PUBLIC HEARINGS:**

The Public Hearing opened at 7:01PM.

**A. CITY OF INVER GROVE HEIGHTS; Consider Approval of Liquor License Application at Top Restaurants, LLC dba 1.2.3. Pasta, 6508 Cahill Avenue for On-Sale Wine and On-Sale 3.2 Malt Liquor License.**

Ms. Tesser, City Clerk stated that Top Restaurant, LLC dba 1.2.3. Pasta is asking for their application to be considered for approval. Their license request includes on-sale wine and on-sale 3.2 malt liquor. Pursuant to Minnesota statutes section 340A.411 and city code 4-1-4 (B), if the restaurant has seating capacity for at least twenty five (25) people at one time and gross receipts are at least sixty percent (60%)

attributable to the sale of food they may also sell on-sale intoxicating malt liquor (also known as strong beer) without an additional license.

This will be a new restaurant in Inver Grove Heights at the location of 6508 Cahill Ave. The restaurant will serve pastas, salad, flatbread and pizza. The owners also own a restaurant called La Grolla in St. Paul.

The Public Hearing notice was published on December 20, 2015. The two owners' background checks were completed by the Police Department. There were no findings reported that would warrant a recommendation of denial. State forms, the insurance certificate and fees have been received. The business has a tentative date of opening for April 1, 2016. Once staff is hired they will provide the City Clerk with the alcohol training certificate.

One of the owners, Antonio Tettamanzi was present and spoke to the council.

Councilmember Piekarski Krech stated that she thought the address was incorrect. It was her belief that the address of 6508 Cahill Ave was the Dollar Store address. Mr. Tettamanzi stated that the address may be 6500 Cahill Avenue. Ms. Tesser stated that if that is the case, then the application will have to be corrected with the right address. The owner of the restaurant stated that it is the location of the old Pizza Man. Councilmember Hark asked if the council can approve the license with the incorrect address. Mayor Tourville stated in affirmative, we will approve the address with the correct address.

**Motion by Mueller, second by Piekarski Krech, to close the public hearing at 7:04PM.**

**Ayes: 5**

**Nays: 0          Motion carried.**

**Motion by Hark, second by Mueller, to approve the license for Top Restaurants, LLC dba 1.2.3. Pasta, 6500 Cahill Avenue or 6508 Cahill Avenue for On-Sale Wine and On-Sale 3.2 Malt Liquor License.**

**Ayes: 5**

**Nays: 0          Motion carried.**

**7. REGULAR AGENDA:**

**I. FINANCE**

**A. CITY OF INVER GROVE HEIGHTS; Approve Official Depositories for 2016**

Ms. Smith introduced and summarized the item. This item is a regular designation requirement completed annually. Ms. Smith stated it is the same designated institutions that were designated in the past: Bremer Bank, Wells Fargo Bank, RBC Capital Markets, LLC, Wells Fargo Securities LLC, Morgan Stanley Smith Barney, LLC and Stifel Nicolaus & Co., Inc. She further stated that we use all of these currently at the moment.

Mayor Tourville stated that there are all in existence and we're using them. Ms. Smith nodded in affirmation.

**Motion by Bartholomew second Piekarski Krech to approve the official depositories for 2016.**

**Ayes: 5**

**Nays: 0      Motion carried.**

## **II. COMMUNITY DEVELOPMENT:**

### **B. CITY OF INVER GROVE HEIGHTS; Consider the Second Reading of an Ordinance Amendment to the Regulations of Parking of Vehicles and Recreational Vehicles in the Front Yard by Removing One of the Temporary Exceptions.**

Mr. Link stated that the ordinance in front of the council deals with front yard parking. The ordinance states that recreational vehicles are allowed to be parked in the front yard provided that there is a parking pad contiguous to the driveway. There is an exemption in there up until seven days. This exception has created difficulties to enforce because city staff has to document that the vehicle hasn't moved for seven days. The purpose of the amendment is to then delete that exception. Mr. Link stated that the ordinance is the same as the Council saw in the first reading. The Planning Commission and Planning staff recommended approval of the ordinance language. The second issue is the parking of boats and trailers in the front yard that is allowed by ordinance. Mr. Link stated that there has been question if the council would like to continue to allow that to occur or not. If the council would like to amend that language he stated, then the ordinance would have to go back to the Planning Commission to amend that language and have a public hearing. He further pointed out that the only issue on the table for tonight's meeting is the seven day exception.

Councilmember Piekarski Krech asked Mr. Link to define front yard for her. Mr. Link stated it doesn't impact the backyard or side yard. The front yard by definition is 30 feet from the right of way. The way the ordinance is written it is from the right of way to the building. It is a slightly different definition. The intent is to only regulate the front of the house and not the side or the rear of the house.

Councilmember Piekarski Krech stated the front yard is anything that is considered in the front including the driveway. Mr. Link stated yes, that's correct that the ordinance is regulating the front yard parking.

Councilmember Mueller stated he had a copy of the code from the code compliance official. Councilmember Mueller gave Mr. Link the copy of the code. Mr. Link displayed the code to be viewed by the camera. Mr. Link went through the code and pointed to the areas that were within regulation.

Councilmember Piekarski Krech stated the white shaded areas in front of the house are the areas that the council would like to get away from. Mr. Link stated that the white areas are legal if they're paved and connected to the driveway, both for vehicles and recreational vehicles.

Mayor Tourville stated that some of the complaints that they are hearing is that it's not connected but set apart from the driveway and it's not on hard surface.

Councilmember Mueller stated that Mr. Link stated paved. He stated that they have paving bricks, are you considering that. Mr. Link stated yes, paving bricks is considered paving. Councilmember Mueller stated that we need to change that. Mr. Link stated bituminous, concrete or paving is what the ordinance states. Councilmember Piekarski Krech used the example of parking a recreational RV in her front yard.

Councilmember Bartholomew stated that you would have to meet the impervious surface area to park your RV in your front yard. Councilmember Piekarski Krech stated that many properties would meet the impervious surface area requirements.

Mr. Link commented that staff has instructed residents that it has to meet the impervious surface requirement but the hard surface area can't be larger than the recreational vehicle.

The council stated that they would like the recreational vehicle ordinance, personal vehicles and water craft vehicles to go back to the Planning Commission. Councilmember Piekarski Krech stated that bringing the ordinance back to the commission doesn't solve the entire problem.

Mr. Kuntz summarized the issues at hand, Mr. Link will take back to the Planning Commission is an ordinance prohibiting the recreation vehicles such as a boat from being parked anywhere in the front yard whether or not on a hard surface. He added, if that's not what the council is saying than Mr. Link needs more direction. Mayor Tourville stated that is not Council's intention. Councilmember Piekarski Krech stated that the issue is in front of the house. Councilmember Bartholomew stated that point is moot.

Mayor Tourville asked Mr. Link to come back to the Council with a second reading. Mr. Link stated that he can return to the Council in February for the second reading and post information in the Insight newsletter in March 1. It can move forward to the seven day exemption portion of the ordinance. Mr. Link added that the issue with the recreational vehicles can be a completely separate issue that can start the process with the Planning Commission.

Councilmember Piekarski Krech stated that her issue is with the large recreational vehicles parking in front of houses. She stated she doesn't have an issue with them parking the vehicles on the side of the house.

Mayor Tourville gave direction and stated the council would like to see this again.

**Motion by Piekarski Krech second Mueller to approve the second reading of the ordinance to remove the seven day exception.**

**Ayes: 5**

**Nays: 0            Motion carried.**

### **III. ADMINISTRATION:**

#### **C. CITY OF INVER GROVE HEIGHTS; Consider Approval of the Letter to Dakota County on the Southern Road Alignment Study**

Mayor Tourville summarized the item. He stated staff thinks this item is premature. Mayor Tourville continued that he doesn't support the letter. In any study we do, we need to wait until the study comes out. He stated the county will be meeting with the council in January to discuss their findings. Councilmember Piekarski Krech stated we meet with the county in February.

Councilmember Bartholomew stated that the Council had the chance to meet with staff to discuss their concerns and asked Council if they thought it would be prudent to wait until after conversations with staff before making the determination. Mayor Tourville stated that residents he spoke to stated that the letter is contrary to what they believe should be in the letter. Councilmember Bartholomew stated some residents don't want any improvement to the road. He stated he would like to listen to staff first.

Councilmember Hark stated that the Dakota County will be at the Feb work session meeting. He stated that he did a 180° on this issue. He opined that the letter is not what residents want and is premature. Councilmember Hark stated we need to be very careful before we send this letter to the County.

Councilmember Mueller stated that he wants to know what the Council thinks after the presentation from the County is made. He asked the Council if they were going to keep their mouths shut.

Councilmember Hark stated that Council will meet with staff to discuss their issues and that the presentation will be in February and then we will be in a better position to have the conversation. Councilmember Mueller stated that he was okay with not sending the letter. Councilmember Bartholomew stated that all five of us will have input. Mayor Tourville stated that we may have more questions than answers. Councilmember Mueller asked what the questions are going to be. Mayor Tourville stated that the Council needs to wait for the presentation to happen first before there are questions.

Councilmember Piekarski Krech stated that she doesn't think staff will provide anything new before the County presentation in February.

Councilmember Hark stated that we should wait for the staff to present to us on the one on one meetings and that we need to be careful before sending a letter like this out before we know the ramifications.

Mr. Lynch stated that the one on one meetings with the council will be based on conversations we have had with Dakota County staff and city staff's recommendation on Akron Avenue. Councilmember Bartholomew asked if staff knows the county's recommendations. Mr. Lynch responded, yes, we know what they're going to present. And we know how they are going to present it, so we have some responses for you based on the findings that will be presented.

Paul Nelson, 11810 Akron Ave. doesn't want the letter sent out. Further, they want no improvements to Akron Ave.

Council recommended no further action on this item.

**D. CITY OF INVER GROVE HEIGHTS; Consider Council Appointments for 2016:**

- i) Official Newspaper**
- ii) Acting Mayor**
- iii) Council Delegates to Association of Metropolitan Municipalities**
- iv) Council Delegates to Dakota Communications Center Board**
- v) Deputy Weed Inspector**

Mr. Lynch introduced the items. These appointments are made annually.

**i) Official Newspaper**

The official newspaper was designated as Southwest Lillie Suburban. Mayor Tourville stated that there is no other options out there. Councilmember Hark asked what other options would there be? Councilmember Piekarski Krech stated Pioneer Press or Star Tribune.

**Motion by Piekarski Krech second Mueller to approve the official newspaper.**

**Ayes: 5**  
**Nays: 0          Motion carried.**

**ii) Acting Mayor**

The Council agreed to continue past practices of appointing the Acting Mayor on a rotating basis.

**Motion by Bartholomew second Piekarski Krech to approve the Acting Mayor on a rotating basis.**

**Ayes: 5**

**Nays: 0      Motion carried.**

**iii) Council Delegates to Association of Metropolitan Municipalities**

The delegates of the Association of Metropolitan Municipalities are Mayor Tourville and alternate is Councilmember Bartholomew.

**Motion by Bartholomew second Piekarski Krech to approve the Acting Mayor on a rotating basis.**

**Ayes: 5**

**Nays: 0      Motion carried.**

**iv) Council Delegates to Dakota Communications Center Board**

The Dakota Communications Center Board are appointed for two year terms. The current Director for the City is Mayor Trouville and the Alternative Director will be Councilmember Piekarski Krech.

**Motion by Piekarski Krech second Hark to approve the Acting Mayor on a rotating basis.**

**Ayes: 5**

**Nays: 0      Motion carried.**

**v) Deputy Weed Inspector**

The Deputy Weed Inspector is Mayor Tourville. He assigned the duty to Brian Swoboda, City Forester/Park Maintenance Coordinator to serve as the Deputy Weed Inspector for 2016.

**8. MAYOR & COUNCIL COMMENTS**

Ms. Tesser stated that the new owners of 1.2.3. Pasta stated that they verified with the property owner leasing them the property that 6508 Cahill Avenue is the address. The City Clerk will look into verifying the address before issuance. The license was approved for the address but remains open in case of an issue.

Councilmember Piekarski Krech stated that the sewer rates and the 2016 are on the website and questions can go to Mr. Thureen. There are a lot of different rates. Storm water rates are not visible. Mr. Thureen stated that he has been getting phone calls and that staff is prepared to answer any questions residents have. Councilmember Piekarski Krech stated that residents having a difficult time are having a hard time finding the information. Further, he stated that the information is on the website. Councilmember Hark asked that he put the information on the homepage. Mr. Thureen stated he will direct staff to add it to the website's homepage as well.

Mayor Tourville and Council will meet at 6:00pm on Feb 22, 2016 to conduct City Administrator, Mr. Lynch performance review.

**Motion by Tourville second Bartholomew to approve**

**Ayes: 5**

**Nays: 0      Motion carried.**

Mayor Tourville asked for an update for the Denovich properties in the Friday memo.

Mayor Tourville asked about an email to the Community Center regarding the air quality. Mr. Carlson stated that the air quality was checked and stated the results were normal. The swim team does not have any issues currently.

**9. ADJOURN:** Motion by Hark, second by Bartholomew to adjourn. The meeting was adjourned by a unanimous vote at 7:51p.m.

**CITY OF INVER GROVE HEIGHTS**

**REQUEST FOR COUNCIL ACTION**

Meeting Date: February 8, 2016  
 Item Type: Consent  
 Contact: Kristi Smith 651-450-2521  
 Prepared by: Bill Schroepfer, Accountant  
 Reviewed by: N/A

**Fiscal/FTE Impact:**

- None
- Amount included in current budget
- Budget amendment requested
- FTE included in current complement
- New FTE requested – N/A
- Other

**PURPOSE/ACTION REQUESTED**

Approve the attached resolution approving disbursements for the period of January 20, 2016 to February 2, 2016.

**SUMMARY**

Shown below is a listing of the disbursements for the various funds for the period ending February 2, 2016. The detail of these disbursements is attached to this memo.

General & Special Revenue	\$470,626.40
Debt Service & Capital Projects	4,173,446.90
Enterprise & Internal Service	529,646.52
Escrows	28,434.94
	_____
Grand Total for All Funds	\$5,202,154.76

If you have any questions about any of the disbursements on the list, please call Kristi Smith, Finance Director at 651-450-2521.

Attached to this summary for your action is a resolution approving the disbursements for the period January 20, 2016 to February 2, 2016 and the listing of disbursements requested for approval.

**DAKOTA COUNTY, MINNESOTA**

**RESOLUTION NO. \_\_\_\_\_**

**RESOLUTION APPROVING DISBURSEMENTS FOR THE  
PERIOD ENDING February 2, 2016**

**WHEREAS**, a list of disbursements for the period ending February 2, 2016 was presented to the City Council for approval;

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF INVER GROVE HEIGHTS:** that payment of the list of disbursements of the following funds is approved:

General & Special Revenue	\$470,626.40
Debt Service & Capital Projects	4,173,446.90
Enterprise & Internal Service	529,686.52
Escrows	28,434.99
Grand Total for All Funds	<u><u>\$5,202,194.81</u></u>

Adopted by the City Council of Inver Grove Heights this 8th day of February, 2016.

Ayes:

Nays:

\_\_\_\_\_  
George Tourville, Mayor

ATTEST:

\_\_\_\_\_  
Michelle Tesser, City Clerk



# Expense Approval Report

By Fund

Payment Dates 1/20/2016 - 2/2/2016

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
ABDO, EICK & MEYERS, LLP	357546	01/27/2016	43697	101.41.2000.415.30100	9,500.00
AFSCME COUNCIL 5	INV0049176	01/22/2016	UNION DUES (AFSCME FAIR SHARE)	101.203.2031000	31.70
AFSCME COUNCIL 5	INV0049177	01/22/2016	UNION DUES (AFSCME FULL SHARE)	101.203.2031000	750.08
AFSCME COUNCIL 5	INV0049178	01/22/2016	UNION DUES (AFSCME PT FAIR SHAR	101.203.2031000	23.76
AFSCME COUNCIL 5	INV0049179	01/22/2016	UNION DUES (AFSCME FULL SHARE-F	101.203.2031000	87.90
ASPEN MILLS	175655	01/27/2016	550771	101.42.4200.423.60045	74.95
ASPEN MILLS	175656	01/27/2016	550771	101.42.4200.423.60045	52.95
ASPEN MILLS	175657	01/27/2016	550771	101.42.4200.423.60045	117.40
ASPEN MILLS	175375	01/27/2016	550771	101.42.4200.423.60045	52.95
ASPEN MILLS	175376	01/27/2016	550771	101.42.4200.423.60045	162.85
BARNA, GUZY, & STEFFEN LTD	50003-009	12/31/2015	12/31/15	101.41.1100.413.30430	90.00
BARR ENGINEERING COMPANY	23190328.14-37	12/31/2015	20-00500-30-010	101.43.5100.442.30300	788.50
BARR ENGINEERING COMPANY	23190328.15-9	12/31/2015	10/3/15-11/27/15	101.43.5100.442.30300	57.00
BROTHER MOBILE SOLUTIONS INC	590075659	01/27/2016	1627	101.42.4000.421.60065	288.68
BUREAU OF CRIMINAL APPREHENSION	00000298881B	12/31/2015	00000012981	101.42.4000.421.40044	390.00
CA DEPT OF CHILD SUPPORT SERVICES	INV0049180	01/22/2016	MIGUEL GUADALAJARA FEIN/TAXPAY	101.203.2032100	279.69
CITY OF BURNSVILLE	2016 DUES	01/27/2016	2016 ANNUAL DUES	101.41.1000.413.50070	8,707.75
CITY OF FARMINGTON - MAAG	2016 MAAG CONTRIBUTI	01/27/2016	2016 CONTRIBUTION	101.42.4000.421.50070	8,300.00
COMCAST	1/5/16 8772 10 591 035952	01/27/2016	8772 10 591 0359526	101.42.4200.423.30700	10.53
CULLIGAN	12/31/15 157-98459100-6	12/31/2015	157-98459100-6	101.42.4200.423.60065	66.15
D & D ANDERSON HEATING & PLUMBING	145133	12/31/2015	PL2015-2175	101.45.0000.3222000	157.09
DAKOTA COMMUNICATIONS CENTER	IG2016-02	01/27/2016	FEBRUARY 2016	101.42.4000.421.70502	44,178.40
DAKOTA COMMUNICATIONS CENTER	IG2016-02	01/27/2016	FEBRUARY 2016	101.42.4200.423.70502	5,961.60
DAKOTA CTY FINANCIAL SVCS	00019336	01/27/2016	2016 DPC PARTICIPATION	101.42.4000.421.50070	3,277.00
DAKOTA CTY FINANCIAL SVCS	00019336	01/27/2016	2016 DPC PARTICIPATION	101.42.4200.423.50070	7,360.00
DAKOTA CTY FINANCIAL SVCS	00018627	12/31/2015	11/17/15	101.42.4000.421.70501	2,822.93
DCMAAG JASON WEISHAAR	2015 FORT MCCOY SWA	12/31/2015	2015 SWAT WEEK	101.42.4000.421.50080	572.50
EFTPS	INV0048906	01/11/2016	MEDICARE WITHHOLDING	101.203.2030500	2.38
EFTPS	INV0048907	01/11/2016	SOCIAL SECURITY WITHHOLDING	101.203.2030400	10.14
EFTPS	INV0049204	01/15/2016	FEDERAL WITHHOLDING	101.203.2030200	1,197.83
EFTPS	INV0049206	01/15/2016	MEDICARE WITHHOLDING	101.203.2030500	286.72
EFTPS	INV0049207	01/15/2016	SOCIAL SECURITY WITHHOLDING	101.203.2030400	1,226.04
EFTPS	INV0049198	01/22/2016	FEDERAL WITHHOLDING	101.203.2030200	41,811.08
EFTPS	INV0049200	01/22/2016	MEDICARE WITHHOLDING	101.203.2030500	11,451.46
EFTPS	INV0049201	01/22/2016	SOCIAL SECURITY WITHHOLDING	101.203.2030400	35,278.64
EFTPS	INV0049561	01/25/2016	FEDERAL WITHHOLDING	101.203.2030200	152.54
EFTPS	INV0049563	01/25/2016	MEDICARE WITHHOLDING	101.203.2030500	61.36
EFTPS	INV0048898	01/08/2016	FEDERAL WITHHOLDING	101.203.2030200	16.99
EFTPS	INV0048900	01/08/2016	MEDICARE WITHHOLDING	101.203.2030500	36.58
EFTPS	INV0048901	01/08/2016	SOCIAL SECURITY WITHHOLDING	101.203.2030400	156.40
EFTPS	INV0048902	01/08/2016	MEDICARE WITHHOLDING	101.203.2030500	15.08
EFTPS	INV0048903	01/08/2016	SOCIAL SECURITY WITHHOLDING	101.203.2030400	64.48
EFTPS	INV0048908	01/08/2016	FEDERAL WITHHOLDING	101.203.2030200	611.55
EFTPS	INV0048910	01/08/2016	MEDICARE WITHHOLDING	101.203.2030500	357.24
EFTPS	INV0048911	01/08/2016	SOCIAL SECURITY WITHHOLDING	101.203.2030400	721.28
EFTPS	INV0048912	01/08/2016	FEDERAL WITHHOLDING	101.203.2030200	1,405.25
EFTPS	INV0048914	01/08/2016	MEDICARE WITHHOLDING	101.203.2030500	752.28
EFTPS	INV0048915	01/08/2016	SOCIAL SECURITY WITHHOLDING	101.203.2030400	716.10
ETERNITY HOMES LLC	1/22/16	12/31/2015	PLANNING FEE REIMBURSEMENT	101.45.0000.3413000	246.00
FIRE SAFETY USA	85530	01/27/2016	1/6/16	101.42.4200.423.40042	404.80
FIRST IMPRESSION GROUP, THE	65534	12/31/2015	3022	101.44.6000.451.50025	545.83
FIRST IMPRESSION GROUP, THE	66006	12/31/2015	4363	101.41.1100.413.50032	2,935.00
FIRSTSCRIBE	2468295	01/27/2016	1/1/16	101.43.5100.442.40044	250.00
GENESIS EMPLOYEE BENEFITS ACH ONLY	INV0049183	01/22/2016	HSA ELECTION-FAMILY	101.203.2032500	2,304.74
GENESIS EMPLOYEE BENEFITS ACH ONLY	INV0049184	01/22/2016	HSA ELECTION-SINGLE	101.203.2032500	2,792.21
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	101.41.1100.413.30550	22.50
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	101.41.2000.415.30550	67.56
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	101.42.4000.421.30550	231.40
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	101.42.4200.423.30550	21.50
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	101.43.5000.441.30550	14.80
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	101.43.5100.442.30550	51.92
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	101.43.5200.443.30550	43.01
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	101.44.6000.451.30550	42.97
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	101.45.3000.419.30550	18.75
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	101.45.3200.419.30550	15.95
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	101.45.3300.419.30550	22.00
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	101.41.1100.413.30550	22.50
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	101.41.2000.415.30550	67.56
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	101.42.4000.421.30550	231.40
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	101.42.4200.423.30550	21.50

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	101.43.5000.441.30550	14.80
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	101.43.5100.442.30550	51.92
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	101.43.5200.443.30550	43.01
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	101.44.6000.451.30550	42.97
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	101.45.3000.419.30550	18.75
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	101.45.3200.419.30550	15.95
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	101.45.3300.419.30550	22.00
HENNING FIRE PROTECTION EQUIPMENT	1298	12/31/2015	1298	101.43.5200.443.60016	90.00
HENNING FIRE PROTECTION EQUIPMENT	1298	12/31/2015	1298	101.44.6000.451.40040	58.00
ICMA RETIREMENT TRUST - 457	INV0049185	01/22/2016	ICMA-AGE <49 %	101.203.2031400	3,871.28
ICMA RETIREMENT TRUST - 457	INV0049186	01/22/2016	ICMA-AGE <49	101.203.2031400	4,682.30
ICMA RETIREMENT TRUST - 457	INV0049187	01/22/2016	ICMA-AGE 50+ %	101.203.2031400	1,246.40
ICMA RETIREMENT TRUST - 457	INV0049188	01/22/2016	ICMA-AGE 50+	101.203.2031400	4,724.36
ICMA RETIREMENT TRUST - 457	INV0049189	01/22/2016	ICMA (EMPLOYER SHARE ADMIN)	101.203.2031400	76.62
ICMA RETIREMENT TRUST - 457	INV0049196	01/22/2016	ROTH IRA (AGE 49 & UNDER)	101.203.2032400	874.24
ICMA RETIREMENT TRUST - 457	INV0049197	01/22/2016	ROTH IRA (AGE 50 & OVER)	101.203.2032400	100.00
ICMA RETIREMENT TRUST - 457	INV0049558	01/25/2016	ICMA-AGE <49 %	101.203.2031400	148.12
INNOVATIVE OFFICE SOLUTIONS	DECEMBER 2015	12/31/2015	DECEMBER 2015	101.41.2000.415.60070	344.44
INNOVATIVE OFFICE SOLUTIONS	DECEMBER 2015	12/31/2015	DECEMBER 2015	101.43.5100.442.60040	226.17
INNOVATIVE OFFICE SOLUTIONS	DECEMBER 2015	12/31/2015	DECEMBER 2015	101.44.6000.451.60065	199.90
INNOVATIVE OFFICE SOLUTIONS	DECEMBER 2015	12/31/2015	DECEMBER 2015	101.45.3300.419.60010	10.99
KEEPERS, INC	296318	01/27/2016	INVERG0009	101.42.4000.421.60045	216.16
KEEPERS, INC	297017	01/27/2016	INVERG0012	101.42.4000.421.60045	723.27
LANGUAGE LINE SERVICES	3751230	12/31/2015	9020909043	101.42.4000.421.50020	14.95
LEICA GEOSYSTEMS INC	900639741	12/31/2015	209374	101.43.5100.442.60040	25.71
LILLIE SUBURBAN NEWSPAPERS	11/30/15 001363	12/31/2015	001363	101.41.1100.413.50025	180.95
LILLIE SUBURBAN NEWSPAPERS	11/30/15 001363	12/31/2015	001363	101.41.1100.413.50025	84.70
LILLIE SUBURBAN NEWSPAPERS	11/30/15 001363	12/31/2015	001363	101.41.1100.413.50025	19.25
LILLIE SUBURBAN NEWSPAPERS	11/30/15 001363	12/31/2015	001363	101.41.1100.413.50025	84.70
LILLIE SUBURBAN NEWSPAPERS	11/30/15 001363	12/31/2015	001363	101.45.3200.419.50025	123.20
LILLIE SUBURBAN NEWSPAPERS	11/30/15 001363	12/31/2015	001363	101.45.3200.419.50025	57.75
LOCAL GOVERNMENT INFORMATION SYSTEM (	40607	12/31/2015	106325	101.42.4000.421.40044	52.50
LOCAL GOVERNMENT INFORMATION SYSTEM (	41196	12/31/2015	106325	101.42.4000.421.70501	1,735.00
LOCAL GOVERNMENT INFORMATION SYSTEM (	41206	12/31/2015	111541	101.42.4200.423.30700	118.00
MAIN STREET DESIGNS, INC.	24018	01/27/2016	1/8/16	101.42.4200.423.60065	295.00
METRO CHIEF FIRE OFFICERS ASSOCIATION	2016 DUES	01/22/2016	2016 DUES	101.42.4200.423.50070	100.00
METRO CITIES	34 2016 MEMBERSHIP DL	01/27/2016	2016 MEMBERSHIP DUES	101.41.1000.413.50070	9,951.00
METROPOLITAN COUNCIL ENVIRON SRVCS	DECEMBER 2015	12/31/2015	DECEMBER 2015	101.41.0000.3414000	(49.70)
MINNEAPOLIS OXYGEN CO.	171142131	12/31/2015	113504	101.42.4200.423.40042	54.56
MINNEAPOLIS OXYGEN CO.	171142132	12/31/2015	113504	101.42.4200.423.40042	54.56
MINNESOTA DEPARTMENT OF HUMAN SERVICE	INV0049181	01/22/2016	JOEL JACKSON FEIN/TAXPAYER ID: 4	101.203.2032100	428.80
MINNESOTA DEPARTMENT OF HUMAN SERVICE	INV0049182	01/22/2016	JUSTIN PARRANTO FEIN/TAXPAYER I	101.203.2032100	300.41
MN DEPT OF REVENUE	INV0049205	01/15/2016	STATE WITHHOLDING	101.203.2030300	660.99
MN DEPT OF REVENUE	INV0049199	01/22/2016	STATE WITHHOLDING	101.203.2030300	16,845.48
MN DEPT OF REVENUE	INV0049562	01/25/2016	STATE WITHHOLDING	101.203.2030300	67.13
MN DEPT OF REVENUE	INV0048899	01/08/2016	STATE WITHHOLDING	101.203.2030300	9.09
MN DEPT OF REVENUE	INV0048909	01/08/2016	STATE WITHHOLDING	101.203.2030300	302.15
MN DEPT OF REVENUE	INV0048913	01/08/2016	STATE WITHHOLDING	101.203.2030300	660.48
MN DEPT OF REVENUE	Dec-15	12/31/2015	Taxes	101.207.2070300	1.38
MN DEPT OF REVENUE	Dec-15	12/31/2015	Taxes	101.207.2070300	33.70
MN PIPE & EQUIPMENT	0349984	12/31/2015	2195	101.44.6000.451.60040	190.48
MNFIAM BOOK SALES	2090	12/31/2015	8/31/15	101.42.4200.423.60018	75.00
MUNICI-PALS	2016 MEMBERSHIP DUES	01/27/2016	2016 MEMBERSHIP DUES	101.41.1100.413.50070	25.00
NFPA	6611951X	01/27/2016	2016 MEMBERSHIP	101.42.4200.423.50070	1,305.00
NORTHWEST LASERS, INC.	SI00066566	12/31/2015	143033	101.43.5100.442.60040	557.45
NORTHWEST LASERS, INC.	SI00066638	12/31/2015	143033	101.43.5100.442.60065	468.71
OXYGEN SERVICE COMPANY, INC	03329403	12/31/2015	04394	101.42.4000.421.60065	24.80
PERA	INV0048904	01/11/2016	PERA COORDINATED PLAN	101.203.2030600	10.62
PERA	INV0048905	01/11/2016	EMPLOYER SHARE (EXTRA PERA)	101.203.2030600	0.82
PERA	INV0049202	01/15/2016	PERA COORDINATED PLAN	101.203.2030600	1,032.86
PERA	INV0049203	01/15/2016	EMPLOYER SHARE (EXTRA PERA)	101.203.2030600	79.45
PERA	INV0049190	01/22/2016	PERA COORDINATED PLAN	101.203.2030600	32,308.64
PERA	INV0049191	01/22/2016	EMPLOYER SHARE (EXTRA PERA)	101.203.2030600	2,485.20
PERA	INV0049192	01/22/2016	PERA DEFINED PLAN	101.203.2030600	69.23
PERA	INV0049193	01/22/2016	EMPLOYER SHARE (PERA DEFINED P	101.203.2030600	69.23
PERA	INV0049194	01/22/2016	PERA POLICE & FIRE PLAN	101.203.2030600	12,320.64
PERA	INV0049195	01/22/2016	EMPLOYER SHARE (POLICE & FIRE PI	101.203.2030600	18,481.02
PERA	INV0049559	01/25/2016	PERA POLICE & FIRE PLAN	101.203.2030600	228.53
PERA	INV0049560	01/25/2016	EMPLOYER SHARE (POLICE & FIRE PI	101.203.2030600	342.79
PERA	INV0048896	01/08/2016	PERA COORDINATED PLAN	101.203.2030600	140.46
PERA	INV0048897	01/08/2016	EMPLOYER SHARE (EXTRA PERA)	101.203.2030600	10.80
PERFORMANCE PLUS LLC	4239	12/31/2015	DECEMBER 2015	101.42.4200.423.30700	4,575.00
PETTY CASH - POLICE	1/27/16	01/27/2016	PETTY CASH	101.42.4000.421.50035	7.05
PETTY CASH - POLICE	1/27/16	01/27/2016	PETTY CASH	101.42.4000.421.50065	23.00
PRESTIGE ELECTRIC, INC.	86568	12/31/2015	12/31/15	101.42.4200.423.40040	106.00
SCOTT NELSON COACHING, INC.	626	12/31/2015	PROFESSIONAL DEVELOPMENT	101.44.6000.451.30700	3,000.00
SENSIBLE LAND USE COALITION	2016 MEMBERSHIP	01/20/2016	LINK, HUNTING, BOTTEN, LYNCH	101.45.3000.419.50070	250.00
SPRINT	842483314-170	01/27/2016	Telephone	101.41.1000.413.50020	69.98
SPRINT	842483314-170	01/27/2016	Telephone	101.41.1100.413.50020	69.98

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
SPRINT	842483314-170	01/27/2016	Telephone	101.41.2000.415.50020	34.99
SPRINT	842483314-170	01/27/2016	Telephone	101.42.4000.421.50020	34.99
SPRINT	842483314-170	01/27/2016	Telephone	101.42.4200.423.50020	34.99
SPRINT	842483314-170	01/27/2016	Telephone	101.43.5000.441.50020	34.99
SPRINT	842483314-170	01/27/2016	Telephone	101.44.6000.451.50020	34.99
SPRINT	842483314-170	01/27/2016	Telephone	101.45.3000.419.50020	34.99
STREAMLINE DESIGN INC	36073	01/27/2016	1/12/16	101.42.4200.423.60045	116.56
STREAMLINE DESIGN INC	36103	12/31/2015	12/15/15	101.42.4200.423.60045	2,260.00
STREICHER'S	I1189864	01/27/2016	285	101.42.4000.421.60018	3,918.24
STREICHER'S	I1177102	01/27/2016	285	101.42.4000.421.60018	3,945.60
STREICHER'S	I1188403	01/20/2016	285	101.42.4000.421.60018	2,148.28
T MOBILE	1/8/16 494910368	12/31/2015	494910368	101.43.5100.442.50020	49.99
THOMSON REUTER - WEST	833202017	12/31/2015	12/1/15-12/31/15	101.42.4000.421.30700	181.00
TYLER TECHNOLOGIES, INC	025-145463	01/27/2016	41443	101.41.2000.415.40044	438.00
UNIFIRST CORPORATION	090 0285424	01/20/2016	090 0285424	101.43.5200.443.60045	28.34
UNIFIRST CORPORATION	090 0285424	01/20/2016	090 0285424	101.44.6000.451.60045	32.74
VALLEY IMAGES PHOTOGRAPHY	15164	12/31/2015	12/30/15	101.42.4000.421.30700	1,510.00
WAKOTA CAER	2016 MEMBERSHIP	01/27/2016	MEMBERSHIP RENEWAL 2016	101.42.4200.423.50070	100.00
XCEL ENERGY	485733407	12/31/2015	Gas & Electric	101.42.4000.421.40042	28.76
XCEL ENERGY	485006334	12/31/2015	Gas & Electric	101.43.5200.443.40020	945.43
XCEL ENERGY	485006334	12/31/2015	Gas & Electric	101.43.5400.445.40020	7,165.69
XCEL ENERGY	485020714	12/31/2015	Gas & Electric	101.42.4200.423.40010	1,555.92
XCEL ENERGY	485020714	12/31/2015	Gas & Electric	101.42.4200.423.40020	1,238.77
XCEL ENERGY	485024222	12/31/2015	Gas & Electric	101.43.5400.445.40020	1,009.42
XCEL ENERGY	485555701	12/31/2015	Gas & Electric	101.44.6000.451.40010	582.47
XCEL ENERGY	485555701	12/31/2015	Gas & Electric	101.44.6000.451.40020	666.46
<b>Fund: 101 - GENERAL FUND</b>					<b>357,340.42</b>
RIVER HEIGHTS CHAMBER OF COMMERCE	5686	12/31/2015	7/8/15-10/6/15	201.44.1600.465.50020	100.00
RIVER HEIGHTS CHAMBER OF COMMERCE	5686	12/31/2015	7/8/15-10/6/15	201.44.1600.465.50035	1.19
RIVER HEIGHTS CHAMBER OF COMMERCE	5686	12/31/2015	7/8/15-10/6/15	201.44.1600.465.60010	10.08
RIVER HEIGHTS CHAMBER OF COMMERCE	6614	12/31/2015	12/1/15	201.44.1600.465.50080	60.00
RIVER HEIGHTS CHAMBER OF COMMERCE	6630	12/31/2015	NOVEMBER 2015	201.44.1600.465.30700	1,750.00
RIVER HEIGHTS CHAMBER OF COMMERCE	6630	12/31/2015	NOVEMBER 2015	201.44.1600.465.40065	200.00
RIVER HEIGHTS CHAMBER OF COMMERCE	6636	12/31/2015	50TH BIRTHDAY PARTY	201.44.1600.465.50080	20.00
TWIN CITIES TOURISM ATTRACTIONS ASSOCIA	12/17/15	12/31/2015	HOLIDAY BREAKFAST	201.44.1600.465.50080	20.00
XCEL ENERGY CENTER	2016 ADVERTISING CON	01/27/2016	2016 ADVERTISING CONTRACT	201.44.1600.465.50025	1,200.00
<b>Fund: 201 - C.V.B. FUND</b>					<b>3,361.27</b>
FIRST IMPRESSION GROUP, THE	65534	12/31/2015	3022	204.44.6100.452.50030	3,343.23
FIRST IMPRESSION GROUP, THE	65534	12/31/2015	3022	204.44.6100.452.50035	147.50
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	204.44.6100.452.30550	13.92
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	204.44.6100.452.30550	13.92
IGH SENIOR CLUB	1/5/16	01/27/2016	MEMBERSHIP/TRIP	204.227.2271000	1,302.00
IGH/SSP COMMUNITY EDUCATION	1/5/16	01/27/2016	RAMSEY HOUSE	204.227.2271000	1,296.00
MN DEPT OF REVENUE	Dec-15	12/31/2015	Taxes	204.207.2070300	114.75
SCOTT NELSON COACHING, INC.	626	12/31/2015	PROFESSIONAL DEVELOPMENT	204.44.6100.452.30700	1,000.00
<b>Fund: 204 - RECREATION FUND</b>					<b>7,231.32</b>
ARCHETYPE SIGNMAKERS	67981	12/31/2015	12/31/15	205.44.6200.453.80200	22,302.00
ARCHETYPE SIGNMAKERS	67995	12/31/2015	67995	205.44.6200.453.80200	120.00
BRENGMAN, WILLIAM	12/31/15	12/31/2015	REIMBURSEMENT-MEMBERSHIP	205.44.0000.3490100	20.00
BRUNO, JEN	12/22/15	12/31/2015	REIMBURSE MEMBERSHIP	205.44.0000.3490100	140.00
EZ FITNESS SOLUTIONS, LLC	16-0001	01/27/2016	1/16/16	205.44.6200.453.40042	750.00
EZ FITNESS SOLUTIONS, LLC	15-0005	12/31/2015	11/20/15	205.44.6200.453.40042	750.00
EZ FITNESS SOLUTIONS, LLC	15-0006	12/31/2015	12/11/15	205.44.6200.453.40042	267.42
FIRST IMPRESSION GROUP, THE	65534	12/31/2015	3022	205.44.6200.453.50030	5,935.94
FIRST IMPRESSION GROUP, THE	65534	12/31/2015	3022	205.44.6200.453.50035	147.50
FOX, ANN	1/15/16	12/31/2015	MEMBERSHIP CREDITS	205.44.0000.3490100	80.00
GARIN, MARK & PAT	12/31/15	12/31/2015	REIMBURSEMENT-MEMBERSHIP	205.44.0000.3490100	40.00
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	205.44.6200.453.30550	12.50
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	205.44.6200.453.30550	26.64
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	205.44.6200.453.30550	11.00
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	205.44.6200.453.30550	12.50
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	205.44.6200.453.30550	3.50
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	205.44.6200.453.30550	3.50
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	205.44.6200.453.30550	12.50
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	205.44.6200.453.30550	26.64
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	205.44.6200.453.30550	12.50
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	205.44.6200.453.30550	11.00
HENNING FIRE PROTECTION EQUIPMENT	1298	12/31/2015	1298	205.44.6200.453.50055	40.50
HENNING FIRE PROTECTION EQUIPMENT	1298	12/31/2015	1298	205.44.6200.453.50055	40.50
HILLYARD INC	601855759	12/31/2015	274069	205.44.6200.453.80800	14,600.00
ISLAM, KAMRUL	1/12/16	12/31/2015	MEMBERSHIP REIMBURSEMENT	205.44.0000.3490100	20.00
KOSEL, MICHAEL	1/6/16	12/31/2015	INSURANCE REIMBURSEMENT	205.44.0000.3490100	50.00
MN DEPT OF REVENUE	Dec-15	12/31/2015	Taxes	205.207.2070300	7,963.81
OLSEN, CHRISTA	1/12/16	12/31/2015	MEMBERSHIP REIMBURSEMENT	205.44.0000.3490100	20.00
PETERSON, SUSAN	1/14/16	12/31/2015	MEMBERSHIP CREDITS	205.44.0000.3490100	20.00
PETERSON, VIRGINIA	1/12/16	12/31/2015	MEMBERSHIP REIMBURSEMENT	205.44.0000.3490100	20.00
SCOTT NELSON COACHING, INC.	626	12/31/2015	PROFESSIONAL DEVELOPMENT	205.44.6200.453.30700	1,000.00

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
STAACK, PATTY	1/12/16	01/27/2016	REIMBURSE MEMBERSHIP	205.207.2070300	5.92
STAACK, PATTY	1/12/16	01/27/2016	REIMBURSE MEMBERSHIP	205.44.0000.3490100	83.08
TOTAL CONSTRUCTION & EQUIP.	66619	01/27/2016	CIT001	205.44.6200.453.40040	642.67
TOTAL CONSTRUCTION & EQUIP.	1/21/16	12/31/2015	REFUND DAMAGE DEPOSIT	205.44.0000.3492500	1,000.00
VUJOVICH, BO	1/12/16	12/31/2015	MEMBERSHIP REIMBURSEMENT	205.44.0000.3490100	20.00
XCEL ENERGY	485555701	12/31/2015	Gas & Electric	205.44.6200.453.40010	4,215.82
XCEL ENERGY	485555701	12/31/2015	Gas & Electric	205.44.6200.453.40010	8,078.48
XCEL ENERGY	485555701	12/31/2015	Gas & Electric	205.44.6200.453.40020	8,385.00
XCEL ENERGY	485555701	12/31/2015	Gas & Electric	205.44.6200.453.40020	13,299.87
<b>Fund: 205 - COMMUNITY CENTER</b>					<b>90,190.79</b>
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	290.45.3000.419.30550	1.30
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	290.45.3000.419.30550	1.30
PROGRESS PLUS	210	01/27/2016	2016 INVESTMENT	290.45.3000.419.50070	12,500.00
<b>Fund: 290 - EDA</b>					<b>12,502.60</b>
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	350.57.9000.570.90100	265,000.00
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	350.57.9000.570.90200	4,902.50
<b>Fund: 350 - G.O. SEWER REVENUE 2007C</b>					<b>269,902.50</b>
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	352.57.9000.570.90100	490,000.00
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	352.57.9000.570.90200	9,800.00
<b>Fund: 352 - G.O. IMPROVEMENT 2008A</b>					<b>499,800.00</b>
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	353.57.9000.570.90100	215,000.00
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	353.57.9000.570.90200	182,834.38
<b>Fund: 353 - G.O. CAP IMPR BONDS 2009A</b>					<b>397,834.38</b>
WELLS FARGO CORPORATE TRUST SERVICES	1265554	01/27/2016	INVE1010AGOS	354.57.9000.570.90100	225,000.00
WELLS FARGO CORPORATE TRUST SERVICES	1265554	01/27/2016	INVE1010AGOS	354.57.9000.570.90200	107,687.50
<b>Fund: 354 - G.O. SEWER REV BONDS 2010A</b>					<b>332,687.50</b>
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	355.57.9000.570.90100	360,000.00
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	355.57.9000.570.90200	51,646.87
<b>Fund: 355 - G.O. IMPR BONDS 2010B</b>					<b>411,646.87</b>
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	356.57.9000.570.90100	25,000.00
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	356.57.9000.570.90200	876.25
<b>Fund: 356 - G.O. PIR REFUNDING 2010C</b>					<b>25,876.25</b>
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	357.57.9000.570.90100	40,000.00
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	357.57.9000.570.90200	1,353.75
<b>Fund: 357 - G.O. WMTD REF BONDS 2010C</b>					<b>41,353.75</b>
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	358.57.9000.570.90100	205,000.00
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	358.57.9000.570.90200	5,550.00
<b>Fund: 358 - G.O. REFUNDING IMPROV BONDS 2011A</b>					<b>210,550.00</b>
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	359.57.9000.570.90100	480,000.00
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	359.57.9000.570.90200	14,500.00
<b>Fund: 359 - G.O. WATER REV REF 2012A</b>					<b>494,500.00</b>
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	360.57.9000.570.90100	100,000.00
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	360.57.9000.570.90200	1,950.00
<b>Fund: 360 - G.O. STORM WATER REFUNDING 2012A</b>					<b>101,950.00</b>
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	361.57.9000.570.90100	345,000.00
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	361.57.9000.570.90200	26,400.00
<b>Fund: 361 - WATER REV REF 2012A</b>					<b>371,400.00</b>
WELLS FARGO BANK	1273233	01/27/2016	75163200	362.57.9000.570.90300	433.89
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	362.57.9000.570.90100	180,000.00
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	362.57.9000.570.90200	6,800.00
<b>Fund: 362 - G.O. IMPR REFUND 2014A (07B)</b>					<b>187,233.89</b>
WELLS FARGO BANK	1273233	01/27/2016	75163200	363.57.9000.570.90300	217.74
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	363.57.9000.570.90100	35,000.00
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	363.57.9000.570.90200	58,743.75
<b>Fund: 363 - G.O. SEWER REFUND 2014B</b>					<b>93,961.49</b>
WELLS FARGO BANK	1273233	01/27/2016	75163200	364.57.9000.570.90300	98.37
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	364.57.9000.570.90100	25,000.00
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	364.57.9000.570.90200	17,350.00
<b>Fund: 364 - G.O. IMPR REFUND 14B (08A)</b>					<b>42,448.37</b>
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	389.57.9000.570.90100	535,000.00
WELLS FARGO CORPORATE TRUST SERVICES	1265320	01/27/2016	12/11/15	389.57.9000.570.90200	22,700.00
<b>Fund: 389 - G.O. TAX INCR REF, 2011A</b>					<b>557,700.00</b>

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
METROPOLITAN COUNCIL ENVIRON SRVCS	DECEMBER 2015	12/31/2015	DECEMBER 2015	404.217.2170000	4,970.00
<b>Fund: 404 - SEWER CONNECTION FUND</b>					<b>4,970.00</b>
PALDA AND SONS, INC.	PAY VO. NO. 7	12/31/2015	CITY PROJECT NO. 2015-09E	435.73.5900.735.80300	147.00
<b>Fund: 435 - 2015 IMPROVEMENT FUND</b>					<b>147.00</b>
AMERICAN ENGINEERING TESTING, INC.	90024	12/31/2015	INV001	440.74.5900.740.30340	12,492.73
AMERICAN ENGINEERING TESTING, INC.	90025	12/31/2015	INV001	440.74.5900.740.30310	9,635.28
AMERICAN ENGINEERING TESTING, INC.	90026	12/31/2015	INV001	440.74.5900.740.30340	11,140.23
DCA TITLE	A16-69114	01/27/2016	1/12/16	440.74.5900.740.30700	64.00
HYDRO KLEAN, INC.	53698	12/31/2015	CITY0647	440.74.5900.740.70500	2,534.56
PALDA AND SONS, INC.	PAY VO. NO. 7	12/31/2015	CITY PROJECT NO. 2015-09E	440.74.5900.740.80300	76,974.71
<b>Fund: 440 - PAVEMENT MANAGEMENT PROJ</b>					<b>112,841.51</b>
EAGAN, CITY OF	2015 3RD QUARTER SUM	12/31/2015	3RD QUARTER SUMMARY	441.74.5900.741.40030	2,553.41
<b>Fund: 441 - STORM WATER MANAGEMENT</b>					<b>2,553.41</b>
BARR ENGINEERING COMPANY	23190328.15-9	12/31/2015	10/3/15-11/27/15	446.74.5900.746.30300	21.00
BARR ENGINEERING COMPANY	23190328.15-9	12/31/2015	10/3/15-11/27/15	446.74.5900.746.30300	21.00
BOLTON & MENK, INC.	0186248	12/31/2015	T21-109315	446.74.5900.746.30300	2,475.00
DCA TITLE	35368	01/27/2016	TITLE COMMITMENT FEE	446.74.5900.746.30700	400.00
DCA TITLE	35369	01/27/2016	TITLE COMMITMENT FEE	446.74.5900.746.30700	400.00
DCA TITLE	35370	01/27/2016	TITLE COMMITMENT FEE	446.74.5900.746.30700	400.00
DCA TITLE	35371	01/27/2016	TITLE COMMITMENT FEE	446.74.5900.746.30700	400.00
DCA TITLE	35373	01/27/2016	TITLE COMMITMENT FEE	446.74.5900.746.30700	400.00
DCA TITLE	35376	01/27/2016	TITLE COMMITMENT FEE	446.74.5900.746.30700	400.00
DCA TITLE	35377	01/27/2016	TITLE COMMITMENT FEE	446.74.5900.746.30700	400.00
DCA TITLE	35379	01/27/2016	TITLE COMMITMENT FEE	446.74.5900.746.30700	400.00
DCA TITLE	35380	01/27/2016	TITLE COMMITMENT FEE	446.74.5900.746.30700	400.00
DCA TITLE	35384	01/27/2016	TITLE COMMITMENT FEE	446.74.5900.746.30700	400.00
DCA TITLE	35401	01/27/2016	TITLE COMMITMENT FEE	446.74.5900.746.30700	400.00
DCA TITLE	35356	01/27/2016	TITLE COMMITMENT FEE	446.74.5900.746.30700	400.00
DCA TITLE	35358	01/27/2016	TITLE COMMITMENT FEE	446.74.5900.746.30700	400.00
DCA TITLE	35359	01/27/2016	TITLE COMMITMENT FEE	446.74.5900.746.30700	400.00
EVERGREEN LAND SERVICES	00-11485	01/27/2016	1/11/16	446.74.5900.746.30700	160.00
EVERGREEN LAND SERVICES	00-11488	01/27/2016	1/12/16	446.74.5900.746.30700	1,120.00
LILLIE SUBURBAN NEWSPAPERS	11/30/15 001363	12/31/2015	001363	446.74.5900.746.50025	326.60
STANTEC CONSULTING SERVICES INC.	997530	01/27/2016	92607	446.74.5900.746.30300	3,966.38
<b>Fund: 446 - NW AREA</b>					<b>14,089.98</b>
BARR ENGINEERING COMPANY	10/3/15-10/31/15	12/31/2015	10/3/15-10/31/15	451.75.5900.751.30300	1,899.50
BARR ENGINEERING COMPANY	8/8/15-9/4/15	12/31/2015	8/8/15-9/4/15	451.75.5900.751.30700	830.91
BARR ENGINEERING COMPANY	9/5/15-10/2/15	12/31/2015	9/5/15-10/2/15	451.75.5900.751.30700	975.50
JOEL CARLSON	1/15/16	01/27/2016	FEBRUARY 2016	451.75.5900.751.30700	1,000.00
TOWN SQUARE TELEVISION	2015-167	12/31/2015	12/14/15	451.44.6000.451.30700	1,750.00
<b>Fund: 451 - HOST COMMUNITY FUND</b>					<b>6,455.91</b>
BLACKBERRY POINTE APARTMENTS	2ND HALF 2015 BRENTW	12/31/2015	2ND HALF 2015 BRENTWOOD HILLS T	453.57.9000.570.90100	120,761.04
<b>Fund: 453 - SE QUADRANT TIF DIST 4-1</b>					<b>120,761.04</b>
AUTOMATIC SYSTEMS CO.	29805 S	01/27/2016	INVE01	501.50.7100.512.40042	1,268.65
AUTOMATIC SYSTEMS CO.	29788 S	12/31/2015	INVE01	501.50.7100.512.80620	18,360.00
EAGAN, CITY OF	2015 3RD QUARTER SUM	12/31/2015	3RD QUARTER SUMMARY	501.50.7100.512.40005	20,595.97
EAGAN, CITY OF	OCT-DEC 2015	12/31/2015	UTILITIES OCT-DEC 2015	501.50.7100.512.40005	5,292.05
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	501.50.7100.512.30550	44.61
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	501.50.7100.512.30550	44.61
GRAINGER	9934823114	01/27/2016	806460150	501.50.7100.512.60011	233.42
HAWKINS, INC.	3821853	01/27/2016	108816	501.50.7100.512.60019	618.80
HD SUPPLY WATERWORKS LTD	E987067	01/27/2016	099872	501.50.7100.512.40042	101.18
HD SUPPLY WATERWORKS LTD	E918682B	12/31/2015	099872	501.50.7100.512.40042	8.70
HENNING FIRE PROTECTION EQUIPMENT	1298	12/31/2015	1298	501.50.7100.512.60016	72.00
INNOVATIVE OFFICE SOLUTIONS	DECEMBER 2015	12/31/2015	DECEMBER 2015	501.50.7100.512.60016	70.97
KEYS WELL DRILLING CO	2015104-1	12/31/2015	12/28/15	501.50.7100.512.40042	6,335.00
KEYS WELL DRILLING CO	2015104	12/31/2015	12/28/15	501.50.7100.512.40042	21,605.00
MN DEPT OF HEALTH	2016 WATER EXAM APPL	01/27/2016	5 EXAMS	501.50.7100.512.50080	160.00
MN DEPT OF LABOR & INDUSTRY	ALR0057856I	01/27/2016	0000001298	501.50.7100.512.40040	100.00
MN DEPT OF REVENUE	Dec-15	12/31/2015	Taxes	501.207.2070200	1,301.77
MN DEPT OF REVENUE	Dec-15	12/31/2015	Taxes	501.207.2070300	50.58
MUNICIPAL H2O	6379	01/27/2016	SERVICE FEE	501.50.7100.512.30700	4,200.00
NAC MECHANICAL & ELECTRICAL SERVICE	8988-01	01/27/2016	2016	501.50.7100.512.80400	51,290.50
NAC MECHANICAL & ELECTRICAL SERVICE	8988-02	01/27/2016	5333	501.50.7100.512.80400	27,075.00
SPRINT	842483314-170	01/27/2016	Telephone	501.50.7100.512.50020	69.98
STANTEC CONSULTING SERVICES INC.	997531	01/27/2016	92607	501.50.7100.512.30300	1,870.50
STANTEC CONSULTING SERVICES INC.	997532	01/27/2016	92607	501.50.7100.512.30300	875.00
STATE OF MN-DEPT OF PUBLIC SAFETY	1907100472015 M-75717	01/27/2016	2520	501.50.7100.512.40040	100.00
STATE OF MN-DEPT OF PUBLIC SAFETY	1907100492015 M-75712	01/27/2016	2522	501.50.7100.512.40040	25.00

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
TYLER TECHNOLOGIES, INC	025-144203	12/31/2015	41443	501.50.7100.512.70440	441.88
VALLEY-RICH CO, INC	22393	12/31/2015	R150791 12/31	501.50.7100.512.40046	3,489.28
WATER CONSERVATION SERVICES INC	6308	12/31/2015	9/17/15	501.50.7100.512.40046	278.75
XCEL ENERGY	485019516	12/31/2015	Gas & Electric	501.50.7100.512.40010	1,391.67
XCEL ENERGY	485019516	12/31/2015	Gas & Electric	501.50.7100.512.40020	14,260.24
<b>Fund: 501 - WATER UTILITY FUND</b>					<b>181,631.11</b>
EAGAN, CITY OF	2015 3RD QUARTER SUM	12/31/2015	3RD QUARTER SUMMARY	502.51.7200.514.40015	22,777.65
EAGAN, CITY OF	OCT-DEC 2015	12/31/2015	UTILITIES OCT-DEC 2015	502.51.7200.514.40015	17,615.66
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	502.51.7200.514.30550	20.97
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	502.51.7200.514.30550	20.97
METROPOLITAN COUNCIL ENVIRON SRVCS	0001050150B	12/31/2015	5084	502.51.7200.514.40015	145,904.71
MN PIPE & EQUIPMENT	0349984	12/31/2015	2195	502.51.7200.514.40043	1,020.10
TYLER TECHNOLOGIES, INC	025-144203	12/31/2015	41443	502.51.7200.514.70440	441.87
XCEL ENERGY	485019516 CR	12/31/2015	Gas & Electric	502.51.7200.514.40020	(277.86)
XCEL ENERGY	485019516	12/31/2015	Gas & Electric	502.51.7200.514.40010	229.95
<b>Fund: 502 - SEWER UTILITY FUND</b>					<b>187,754.02</b>
ARAMARK UNIFORM SERVICES	1718381718	01/20/2016	792502342	503.52.8600.527.60045	60.94
BUSINESS VOICE	1/8/16	01/27/2016	2016 PARTICIPATION	503.52.8500.526.50025	350.00
CUSHMAN MOTOR COMPANY INC	164021	12/31/2015	C0644	503.52.8600.527.40042	82.65
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	503.52.8000.521.30550	11.00
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	503.52.8500.526.30550	12.45
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	503.52.8600.527.30550	21.50
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	503.52.8000.521.30550	3.50
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	503.52.8500.526.30550	12.45
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	503.52.8600.527.30550	21.50
GLOVEIT, LLC	82300	01/27/2016	F81153	503.52.8200.523.76350	100.50
MN DEPT OF REVENUE	Dec-15	12/31/2015	Taxes	503.207.2070300	19.59
MN DEPT OF REVENUE	Dec-15	12/31/2015	Taxes	503.52.8500.526.50020	14.90
SAVATREE	3892328	12/31/2015	1084219	503.52.8600.527.50045	925.00
SCOTT NELSON COACHING, INC.	626	12/31/2015	PROFESSIONAL DEVELOPMENT	503.52.8500.526.50080	1,000.00
SOUTH BAY DESIGN	010116	01/20/2016	HOSTING CHARGES	503.52.8500.526.50025	255.00
TITLEIST	901873079	01/27/2016	3011682253	503.52.8200.523.76350	135.00
TITLEIST	901877191	01/27/2016	3011687270	503.52.8200.523.76200	177.98
TITLEIST	901842733	01/27/2016	3011637550	503.52.8200.523.76250	622.18
TITLEIST	901776389	12/31/2015	3011604698	503.52.8200.523.76200	134.07
TITLEIST	901829663	12/31/2015	3011637550	503.52.8200.523.76250	232.68
VGM CLUB	2016 DUES	01/20/2016	2016 DUES	503.52.8500.526.50070	160.00
XCEL ENERGY	484330601	12/31/2015	Gas & Electric	503.52.8500.526.40010	145.21
XCEL ENERGY	484330601	12/31/2015	Gas & Electric	503.52.8500.526.40020	494.81
XCEL ENERGY	484330601	12/31/2015	Gas & Electric	503.52.8600.527.40010	320.95
XCEL ENERGY	484330601	12/31/2015	Gas & Electric	503.52.8600.527.40020	491.14
<b>Fund: 503 - INVER WOOD GOLF COURSE</b>					<b>5,805.00</b>
EHLERS AND ASSOCIATES, INC.	69623	01/27/2016	1/12/16	511.50.7100.512.30150	105.00
<b>Fund: 511 - NWA - WATER</b>					<b>105.00</b>
EHLERS AND ASSOCIATES, INC.	69623	01/27/2016	1/12/16	512.51.7200.514.30150	105.00
<b>Fund: 512 - NWA - SEWER</b>					<b>105.00</b>
ENTERTAINMENT DESIGN GROUP, LLC	677	11/18/2015	11/6/15	602.00.2100.415.60065	750.00
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	602.00.2100.415.30550	1.46
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	602.00.2100.415.30550	1.46
<b>Fund: 602 - RISK MANAGEMENT</b>					<b>752.92</b>
DOWNTOWNER DETAIL CENTER	151201INV	12/31/2015	INVECI	603.00.5300.444.40041	100.00
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	603.00.5300.444.30550	9.24
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	603.00.5300.444.30550	9.24
HEALTHFAST VEHICLE SERVICES	0000022647	12/31/2015	IGH26	603.00.5300.444.80700	137.53
HEALTHFAST VEHICLE SERVICES	0000022691	12/31/2015	IGH 22	603.00.5300.444.80700	340.08
HENNING FIRE PROTECTION EQUIPMENT	1298	12/31/2015	1298	603.00.5300.444.40042	208.00
HOSE / CONVEYORS INC	00058019	01/20/2016	CIT300	603.00.5300.444.40041	58.86
LITTLE FALLS MACHINE INC	00057341	12/31/2015	052915	603.00.5300.444.40041	122.87
LITTLE FALLS MACHINE INC	00057347	12/31/2015	052880	603.00.5300.444.40041	314.75
METROWIDE PLUMBING LLC	1/6/16	01/20/2016	WORK PERFORMED 1/6/16	603.00.5300.444.40040	1,082.25
O' REILLY AUTO PARTS	1767-185427	01/20/2016	1578028	603.00.5300.444.40041	27.96
O' REILLY AUTO PARTS	1767-185429	01/20/2016	1578028	603.140.1450050	16.76
O' REILLY AUTO PARTS	1767-184709	12/31/2015	1578028	603.00.5300.444.60040	37.98
POMP'S TIRE SERVICE, INC.	980024677	12/31/2015	4502557	603.00.5300.444.60014	356.00
RED POWER DIESEL SERVICE, INC.	13519	01/27/2016	1/11/16	603.00.5300.444.40041	1,355.90
UNIFIRST CORPORATION	090 0285424	01/20/2016	090 0285424	603.00.5300.444.40065	126.13
UNIFIRST CORPORATION	090 0285424	01/20/2016	090 0285424	603.00.5300.444.60045	31.14
XCEL ENERGY	485006334	12/31/2015	Gas & Electric	603.00.5300.444.40010	2,125.58
XCEL ENERGY	485006334	12/31/2015	Gas & Electric	603.00.5300.444.40020	1,415.91
<b>Fund: 603 - CENTRAL EQUIPMENT</b>					<b>7,876.18</b>

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
COORDINATED BUSINESS SYSTEMS	CNIN199240	12/31/2015	4502512	604.00.2200.416.40050	2,669.12
INNOVATIVE OFFICE SOLUTIONS	DECEMBER 2015	12/31/2015	DECEMBER 2015	604.00.2200.416.60005	135.94
INNOVATIVE OFFICE SOLUTIONS	DECEMBER 2015	12/31/2015	DECEMBER 2015	604.00.2200.416.60010	1,840.13
<b>Fund: 604 - CENTRAL STORES</b>					<b>4,645.19</b>
CULLIGAN	12/31/15 157-98503022-8	12/31/2015	157-98503022-8	605.00.7500.460.60011	59.35
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	605.00.7500.460.30550	3.50
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	605.00.7500.460.30550	3.50
HILLYARD INC	601922984	01/27/2016	274069	605.00.7500.460.60016	74.09
LONE OAK COMPANIES	1/19/16	01/20/2016	UTILITY MAILING	605.00.7500.460.50035	1,501.90
LONE OAK COMPANIES	69781	12/31/2015	12/14/15	605.00.7500.460.50035	349.64
LONE OAK COMPANIES	70001	12/31/2015	UTILITY MAILING	605.00.7500.460.50035	359.35
MAS COMMUNICATIONS	151200056	12/31/2015	1010	605.00.7500.460.40040	48.20
MN DEPT OF REVENUE	Dec-15	12/31/2015	Taxes	605.00.7500.460.40040	0.64
MN DEPT OF REVENUE	Dec-15	12/31/2015	Taxes	605.00.7500.460.40047	0.30
MN DEPT OF REVENUE	Dec-15	12/31/2015	Taxes	605.00.7500.460.40065	0.16
MN DEPT OF REVENUE	Dec-15	12/31/2015	Taxes	605.00.7500.460.60011	0.08
XCEL ENERGY	485006334	12/31/2015	Gas & Electric	605.00.7500.460.40020	6,370.03
<b>Fund: 605 - CITY FACILITIES</b>					<b>8,770.74</b>
CDW GOVERNMENT INC	BQH3142	01/27/2016	2394832	606.00.1400.413.80610	885.49
GENESIS EMPLOYEE BENEFITS, INC	IN690705	12/31/2015	Payroll	606.00.1400.413.30550	16.55
GENESIS EMPLOYEE BENEFITS, INC	IN714402	12/31/2015	Payroll	606.00.1400.413.30550	16.55
GOLDCOM, INC.	183933	12/31/2015	2497	606.00.1400.413.60040	168.91
GOLDCOM, INC.	183992	12/31/2015	2497	606.00.1400.413.60065	23.27
INTEGRA TELECOM	120372620	12/31/2015	002129	606.00.1400.413.50020	187.50
INTEGRA TELECOM	120372707	12/31/2015	002129	606.00.1400.413.50020	483.69
MN DEPT OF REVENUE	Dec-15	12/31/2015	Taxes	606.00.1400.413.50020	0.18
MN DEPT OF REVENUE	Dec-15	12/31/2015	Taxes	606.00.1400.413.60010	1.61
MN DEPT OF REVENUE	Dec-15	12/31/2015	Taxes	606.00.1400.413.60041	0.36
MN DEPT OF REVENUE	Dec-15	12/31/2015	Taxes	606.00.1400.413.60065	1.38
MN DEPT OF REVENUE	Dec-15	12/31/2015	Taxes	606.00.1400.413.80610	289.42
MN DEPT OF REVENUE	Dec-15	12/31/2015	Taxes	606.00.1400.413.80610	44.39
TDS METROCOM	1/13/16 651 451 1944	01/27/2016	651 451 1944	606.00.1400.413.50020	248.86
US INTERNET	110-080034-0027	12/31/2015	110-080034	606.00.1400.413.30700	220.00
WORKS COMPUTING, INC.	24995	12/31/2015	INVER	606.00.1400.413.30700	1,196.25
WORKS COMPUTING, INC.	25091	12/31/2015	INVER	606.00.1400.413.30700	1,120.00
WORKS COMPUTING, INC.	25193	12/31/2015	INVER	606.00.1400.413.30700	120.00
<b>Fund: 606 - TECHNOLOGY FUND</b>					<b>5,024.41</b>
BARR ENGINEERING COMPANY	23190328.14-37	12/31/2015	12/25/15	702.229.2302801	94.50
BARR ENGINEERING COMPANY	23190328.15-9	12/31/2015	10/3/15-11/27/15	702.229.2288802	126.50
BARR ENGINEERING COMPANY	23190328.15-9	12/31/2015	10/3/15-11/27/15	702.229.2289802	4,751.50
COOK, DAVID	ESCROW RELEASE	01/27/2016	ENGINEERING ESCROW	702.229.2282502	2,500.00
CULLIGAN	12/31/15 157-98473242-8	12/31/2015	157-98473242-8	702.229.2286300	54.95
LILLIE SUBURBAN NEWSPAPERS	11/30/15 001363	12/31/2015	001363	702.229.2296002	30.80
LUTHER COMPANY, LLLP THE	1/12/16 ESCROW RELEASE	01/27/2016	ESCROW LOC	702.229.2285400	2.61
LUTHER COMPANY, LLLP THE	1/12/16 ESCROW RELEASE	01/27/2016	ESCROW LOC	702.229.2308501	20,000.00
PETTY CASH - POLICE	1/27/16	01/27/2016	PETTY CASH	702.229.2291000	20.75
SCHLOMKA'S VAC TRUCK SERVICE, INC.	1/4/16	01/20/2016	ESCROW RELEASE	702.229.2296601	228.33
STANTEC CONSULTING SERVICES INC.	997530	01/27/2016	92607	702.229.2289802	625.00
<b>Fund: 702 - ESCROW FUND</b>					<b>28,434.94</b>
<b>Grand Total</b>					<b>5,202,194.76</b>

CITY OF INVER GROVE HEIGHTS

REQUEST FOR COUNCIL ACTION

---

**Consider Approval of Massage Therapist License of Hongjun (Wendy) Liao**

Meeting Date: February 8, 2016  
Item Type: Consent  
Contact: 651-450-2513  
Prepared by: Michelle Tesser  
Reviewed by: N/A

<b>Fiscal/FTE Impact:</b>	
<input checked="" type="checkbox"/>	None
<input type="checkbox"/>	Amount included in current budget
<input type="checkbox"/>	Budget amendment requested
<input type="checkbox"/>	FTE included in current complement
<input type="checkbox"/>	New FTE requested – N/A
<input type="checkbox"/>	Other

**PURPOSE/ACTION REQUESTED:** Consider approval of an application by Hongjun (Wendy) Liao for a individual massage therapist license at the premise of Shangri-La, 5798 Blackshire Path.

**SUMMARY:** The applicant submitted the appropriate fees, insurance documentation, and other information as required by City Code. Ms. Liao has completed the required number of hours of therapeutic massage training and is a member in good standing of a recognized professional therapeutic massage organization. A background investigation on the applicant revealed no basis for the denial of the license request.

**CITY OF INVER GROVE HEIGHTS**

**REQUEST FOR COUNCIL ACTION**

**2016 DRAFT LEGISLATIVE ISSUES**

Meeting Date: February 8, 2016  
 Item Type: Consent  
 Contact: Carrie Isaacson, Admin Services Coordinator  
 Prepared by:  
 Reviewed by: Joe Lynch, City Administrator

<b>Fiscal/FTE Impact:</b>	
<input checked="" type="checkbox"/>	None
<input type="checkbox"/>	Amount included in current budget
<input type="checkbox"/>	Budget amendment requested
<input type="checkbox"/>	FTE included in current complement
<input type="checkbox"/>	New FTE requested – N/A
<input type="checkbox"/>	Other

**PURPOSE/ACTION REQUESTED:** Establish the City of Inver Grove Heights Legislative Initiatives and Positions for the 2016 Legislative Session.

**SUMMARY:** The City has established a practice of identifying priorities relating to potential state legislative action prior to the start of the legislative session. These initiatives closely resemble or mirror positions already taken by the Municipal Legislative Commission (MLC), the League of Minnesota Cities (LMC) and the Association of Metropolitan Municipalities (AMM). Representatives of these organizations will be in attendance at the special meeting on Monday, February 22<sup>nd</sup> to provide Council with insight and detail into the upcoming legislative session.

The attached document lists priority items the City supports and opposes for both initiatives and positions.

Please establish Monday, February 22<sup>nd</sup> at 6:00 PM as the special meeting of the City Council for the purpose of meeting with these organizations to hear about the upcoming 2016 Legislative Sesion.



**City of Inver Grove Heights  
2016 Legislative Agenda / Positions**

**A. Support the Municipal Legislative Commission's (MLC) legislative program**

Specific areas of support are: 1) Grant State authority to approve sales tax exemptions on construction materials and capital equipment; 2) Increased flexibility on the life of Tax Increment Financing (TIF) districts; and 3) Maintain the Homestead Market Value Exclusion program

**B. Fiscal Disparities** – The City of Inver Grove Heights advocates for legislation that would reflect a meaningful analysis of the present day applicability of the state's 1971 commercial industrial "tax-base sharing" law and opposes the use of fiscal disparities to fund social or physical metropolitan programs since because of its complexities results in a metropolitan-wide property tax increase hidden from the public.

**C. Levy Limits** – The City of Inver Grove Heights supports the principle of representative democracy that allows city councils to formulate local budgets. The city opposes state restrictions on local budgets and opposes legislation that imposes levy limits or the imposition of artificial mechanisms proposals such as the "taxpayer's bill of rights," valuation freezes, payroll freezes, reverse referenda, fund balance restrictions, super majority requirements for levy or other limitations to the local government budget and taxing process.

**D. Local Government Aid (LGA)** – The City of Inver Grove Heights advocates for policies that more fairly address the disparities in property tax burdens as a percentage of income as documented by the Voss Data Base. The City supports continued funding of Voss Data Base and compilation of data by the Department of Revenue.

**E. Oppose Early Voting Bill** – The City of Inver Grove Heights does not favor early voting as we do not have the budget or staff to accommodate the influx in voter turn-out and City Clerk's office resource requirements.

**F. 2016 State of Minnesota Bonding Bill Efforts** – The City of Inver Grove Heights are in favor of three bonding bill efforts:

- 1) Requesting \$2,000,000 for the design, inspection and reconstruction of Broderick Boulevard between 80<sup>th</sup> Street and Concord Boulevard. Successful bond proceeds would be used to fund replacement or renovation of public infrastructure, including City streets and trails, and all public utilities.

**2)** Requesting \$2,000,000 towards the realignment of Argenta Trail in Inver Grove Heights in anticipation of the development of an interchange of Argenta Trail and Highway 55 in the future. Successful bond proceeds would be used to fund all design, acquisition of right-of-way and easements, private utility location, inspection and construction services.

**3)** Requesting \$6,500,000 for the continued funding to improve the Rock Island Swing Bridge and the Swing Bridge Trailhead of the Mississippi River Regional Trail as part of the overall redevelopment of Heritage Village Park. Successful bond proceeds would be used to fund property acquisition of some remaining parcels, make further improvements to the public infrastructure and park/trail amenity improvements.

**CITY OF INVER GROVE HEIGHTS**

**REQUEST FOR COUNCIL ACTION**

Consider Replacement of Fitness Equipment for Veterans Memorial Community Center

---

Meeting Date: February 8, 2016  
 Item Type: Consent Agenda  
 Contact: Tracy Petersen – 651.450.2588  
 Prepared by: Tracy Petersen  
 Reviewed by: Eric Carlson – Parks & Recreation

<b>Fiscal/FTE Impact:</b>	
<input type="checkbox"/>	None
<input checked="" type="checkbox"/>	Amount included in current budget
<input type="checkbox"/>	Budget amendment requested
<input type="checkbox"/>	FTE included in current complement
<input type="checkbox"/>	New FTE requested – N/A
<input type="checkbox"/>	Other

**PURPOSE/ACTION REQUESTED**

To accept the quote of \$44,703 for nine (9) pieces of cardio fitness equipment from Push Pedal Pull.

This amount is included in the 2016 VMCC budget. Quotes include appropriate trade-in values.

**SUMMARY**

In an effort to maintain a quality, safe and up-to-date fitness center, a total of nine (9) pieces of cardio equipment (7 treadmills and 2 elliptical machines) are being proposed for purchase. A total of two (2) quotes were received and are listed below. Warranty coverage from both vendors is four (4) years on both parts and labor.

Push Pedal Pull’s cardio equipment is a standard in the industry and is the same brand as we currently have in the fitness center. This brand has served the facility well in terms of its reliability, durability and customer satisfaction. The proposed vendor has provided excellent and timely customer service in the past on any necessary repairs to equipment.

**CARDIO EQUIPMENT**

Push Pedal Pull	\$44,703.00
-----------------	-------------

2 <sup>nd</sup> Wind Exercise, Inc.	\$44,999.77
-------------------------------------	-------------

**CITY OF INVER GROVE HEIGHTS**

**REQUEST FOR COUNCIL ACTION**

**Consider Trunk Utility Reimbursements for Argenta Hills 8th Addition (Alverno Avenue)**

Meeting: February 8, 2016  
 Item Type: Consent  
 Contact: Thomas J. Kaldunski, 651-450-2572  
 Prepared by: Thomas J. Kaldunski, City Engineer  
 Reviewed by: Scott D. Thureen, Public Works Director *SDT*

<b>Fiscal/FTE Impact:</b>	
<input type="checkbox"/>	None
<input type="checkbox"/>	Amount included in current budget
<input type="checkbox"/>	Budget amendment requested
<input type="checkbox"/>	FTE included in current complement
<input type="checkbox"/>	New FTE requested – N/A
<input checked="" type="checkbox"/>	Other: NWA Water Fund 511, NWA Sewer Fund 512

**PURPOSE/ACTION REQUESTED**

Consider trunk utility reimbursements for Argenta Hills 8th Addition (Alverno Avenue).

**SUMMARY**

The City has received a written request from Tradition Development seeking reimbursement for trunk watermain and trunk sanitary sewer credits.

According to the Development Agreement for Argenta Hills 8th Addition, the developer will receive a payment for oversizing of trunk lines that are of a diameter size (12") and sufficient depth that create a benefit for areas outside the plat of Argenta Hills. The reimbursement is based on the differential costs in pipe sizes of the mains, fittings, valves, etc. Similar credits have been established on recent developments such as Blackstone Vista and Blackstone Ponds.

The developer has installed a 12" watermain in accordance with the 2005 AUAR and the 2030 Comprehensive Plan as directed by the City Engineer. The developer is requesting sewer and water trunk credits on Argenta Hills 8th Addition as follows:

Credit per Development Agreement for sanitary sewer size and over-depth Under Alverno Avenue (Fund 512)	\$33,300.00
Credit for 12" watermain oversizing under Alverno Ave/Amana Trl (Fund 511)	39,884.30
Credit for 12" watermain oversizing on Alverno (Amana Trl to north terminus) (Fund 511)	<u>7,249.00</u>
<b>TOTAL</b>	<b>\$80,433.20</b>

The City Engineer has reviewed the costs and concurs with the above credits and is recommending reimbursement to Tradition Development in the amount of \$80,433.30.

The installation of the 12" sanitary sewer trunk and 12" watermain trunk on Alverno Avenue has allowed the City to extend municipal trunk utilities into the Argenta District of the Northwest Area with City Project Nos. 2015-10 and 2015-11.

TJK/kf

CITY OF INVER GROVE HEIGHTS

REQUEST FOR COUNCIL ACTION

**Consider a Resolution Receiving and Approving the Stormwater Project Plan for Storm Water Facilities in Areas Tributary to the Mississippi River, City Project No. 2016-01 - Stormwater Treatment for Mississippi River Discharge to Seek Clean Water Revolving Funds and Grants and Authorizing Submittal of the Approved Plan to the MPCA**

Meeting Date: February 8, 2016  
 Item Type: Consent  
 Contact: Thomas J. Kaldunski, 651.450.2572  
 Prepared by: Thomas J. Kaldunski, City Engineer  
 Reviewed by: Scott D. Thureen, Public Works Director

<b>Fiscal/FTE Impact:</b>	
<input type="checkbox"/>	None
<input type="checkbox"/>	Amount included in current budget
<input type="checkbox"/>	Budget amendment requested
<input type="checkbox"/>	FTE included in current complement
<input type="checkbox"/>	New FTE requested – N/A
<input checked="" type="checkbox"/>	Other: Clean Water Revolving Loans, Point Source Implementation Grants, Stormwater Utility Funds and Special Stormwater Taxing District Funds, Special Assessments

**PURPOSE/ACTION REQUESTED**

Consider a resolution receiving and approving the Stormwater Project Plan for Stormwater Facilities in Areas Tributary to the Mississippi River, City Project No. 2016-01 - Stormwater Treatment for Mississippi River Discharge to seek Clean Water Revolving Funds and Grants and authorizing submittal of the approved plan to the MPCA.

**SUMMARY**

The portion of the Mississippi River that borders the City of Inver Grove Heights is currently listed on the Minnesota Pollution Control Agency's (MPCA's) 2014 Impaired Waters List for turbidity – a measure of water's cloudiness or haziness. High turbidity is caused by excessive concentration of suspended solid particles in the water. Because the City owns a municipal separate storm sewer system (MS4) that discharges to the Mississippi River, the City is included as a regulated MS4 for the South Metro Mississippi River Total Suspended Solids Total Maximum Daily Load (TMDL) draft report. If approved, the TMDL would assign the City a wasteload allocation (WLA) for total suspended solids (TSS) of 154 pounds per acre. The storm facilities outlined in this plan allow the City to reduce sediment and pollutant levels to help meet the WLA.

Assignment of a WLA by an approved TMDL would make the City eligible for funding assistance to implement and construct stormwater best management practices (BMPs) to reduce the amount of TSS that the City discharges through its storm sewers to the Mississippi River. Two such programs operated by the state are the Intended Use Plan (IUP), which provides low interest loans for managing stormwater, and the Point Source Implementation Grant (PSIG) program, which provides grants for stormwater projects.

The City, to date, has applied for up to \$1.5M in grants, which require a local match. Currently the City is ranked 4th among stormwater project applicants. If the City is successful in securing grants and CW funds, a fiscal plan will be developed using various municipal funding options. The City is not compelled to accept grants if a local match is not available.

To qualify for either of these state funding programs, applicants are required to submit an application to be placed on the state's Project Priority List (PPL). Once placed on the list, projects remain eligible to receive funding for a five-year period. The City is on the PPL.

The next step in receiving possible state funding is submittal to the MPCA of a Stormwater Project Plan, which describes in more detail the proposed project; the project area and need; and the estimated project costs and benefits. The stormwater project plan resembles a feasibility study in scope and organization. The City's Water

Resources Consultant, Barr Engineering, has prepared this plan. A copy is attached. It outlines 12 projects with an estimated cost of \$3.2M.

The stormwater project plan must be adopted by resolution of the City Council before it is submitted to the MPCA. The City Engineering Division recommends Council approval of the resolution and Stormwater Project Plan. The Council should also authorize submittal of this plan to the MPCA.

SDT/kf

Attachments: Resolution  
Stormwater Project Plan  
Watershed map

**CITY OF INVER GROVE HEIGHTS  
DAKOTA COUNTY, MINNESOTA**

**RESOLUTION RECEIVING AND APPROVING THE STORMWATER PROJECT PLAN FOR STORMWATER FACILITIES IN AREAS TRIBUTARY TO THE MISSISSIPPI RIVER TO SEEK CLEAN WATER REVOLVING FUNDS AND GRANTS FOR CITY PROJECT NO. 2016-01 – STORMWATER TREATMENT FOR MISSISSIPPI RIVER DISCHARGE**

**RESOLUTION NO. \_\_\_\_\_**

**WHEREAS**, in 2015, the City Council approved an engineering services proposal for preparation of the Stormwater Project Plan by Barr Engineering and authorized the preparation of a project plan for City Project No. 2016-01 – Stormwater Treatment for Mississippi River Discharge; and

**WHEREAS**, the City Council authorized the placement of stormwater discharge improvements along the Mississippi River on the MPCA's Project Priority List (PPL) and Intended Use Plan (IUP) seeking State Revolving Funds (SRF) and Point Source Improvement Grants (PSIG) on March 23, 2015; and

**WHEREAS**, the City's project has been placed on the MPCA's PPL and IUP in 2015; and

**WHEREAS**, the City's project has received an MPCA Priority Point scoring that is favorable for the potential funding of these stormwater improvements; and

**WHEREAS**, a final Stormwater Project Plan dated February 2016 has been prepared by Barr Engineering for the Public Works Director with reference to City Project No. 2016-01 – Stormwater Treatment for Mississippi River Discharge.

<u>Project No.</u>	<u>Improvements</u>
2016-01	Stormwater Facilities in areas tributary to the Mississippi River in watersheds known as Old Village, South Grove and Skyline Village

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF INVER GROVE HEIGHTS THAT:**

1. Said report is hereby received and approved by the City Council of the City of Inver Grove Heights on February 8, 2016.
2. The City Engineer is hereby directed to submit the approved project plan to the MPCA to seek Clean Water Revolving Funds and Point Source Implementation Grants.
3. The City Engineer is hereby authorized to negotiate professional services contracts for professional services for said project.

Adopted by the City Council of Inver Grove Heights this 8th day of February 2016

AYES:

NAYS:

\_\_\_\_\_  
George Tourville, Mayor

ATTEST:

\_\_\_\_\_  
Michelle Tesser, City Clerk



# **Stormwater Project Plan for Stormwater Facilities in Areas Tributary to the Mississippi River**

Prepared for  
City of Inver Grove Heights  
City Project 2016-01

February 2016

# Stormwater Project Plan for Stormwater Facilities in Areas Tributary to the Mississippi River

February 2016

## Contents

Executive Summary.....	ES-1
1.0 Introduction.....	1
1.1 Project Area and Project Need.....	1
1.2 Water Quality Modeling.....	4
1.3 Best Management Practices.....	7
1.3.1 Wet Extended Detention Basin.....	7
1.3.2 Dry Extended Detention Basin.....	8
1.3.3 Infiltration Basin.....	8
1.3.4 Streetside Bioinfiltration Basin (Rainwater Garden).....	8
1.3.5 Iron-enhanced Sand Filter.....	8
1.3.6 Spent Lime Reactor.....	9
1.4 Maintenance Plan.....	9
2.0 Skyline Village Subwatershed.....	10
2.1 Project Area.....	10
2.2 Subprojects.....	12
2.2.1 78 <sup>th</sup> and Concord Wet Extended Detention Basin.....	12
2.2.1.1 Project Location.....	12
2.2.1.2 Alternatives Considered.....	12
2.2.1.3 Estimated Pollutant Reduction.....	12
2.2.1.4 Estimated Construction Costs.....	12
2.2.1.5 Estimated Equipment Replacement Costs.....	13
2.2.2 Delano Circle Rainwater Gardens.....	16
2.2.2.1 Project Location.....	16
2.2.2.2 Alternatives Considered.....	16
2.2.2.3 Estimated Pollutant Reduction.....	16
2.2.2.4 Estimated Construction Costs.....	16

2.2.2.5	Estimated Equipment Replacement Costs.....	16
3.0	South Grove Subwatershed .....	18
3.1	Project Area.....	18
3.2	Subprojects .....	20
3.2.1	Dawn-Concord Dry Extended Detention Basin and Wet Extended Detention Basin .....	20
3.2.1.1	Project Location .....	20
3.2.1.2	Alternatives Considered.....	20
3.2.1.3	Estimated Pollutant Reduction.....	20
3.2.1.4	Estimated Construction Costs .....	21
3.2.2	Dickman Trail Storm Sewer Improvements.....	25
3.2.2.1	Project Location .....	25
3.2.2.2	Alternatives Considered.....	25
3.2.2.3	Estimated Pollutant Reduction.....	25
3.2.2.4	Estimated Construction Costs .....	25
3.2.3	River Road Wet Extended Detention Basin.....	28
3.2.3.1	Project Location .....	28
3.2.3.2	Alternatives Considered.....	28
3.2.3.3	Estimated Pollutant Reduction.....	28
3.2.3.4	Estimated Construction Costs .....	28
3.2.4	7125 Concord Infiltration Basins .....	31
3.2.4.1	Project Location .....	31
3.2.4.2	Alternatives Considered.....	31
3.2.4.3	Estimated Pollutant Reduction.....	31
3.2.4.4	Estimated Construction Costs .....	31
4.0	Old Village Subwatershed .....	34
4.1	Project Area.....	34
4.2	Subprojects .....	36
4.2.1	Dawn Way Rainwater Gardens.....	36
4.2.1.1	Project Location .....	36
4.2.1.2	Alternatives Considered.....	36
4.2.1.3	Estimated Pollutant Reduction.....	36
4.2.1.4	Estimated Construction Costs .....	36
4.2.2	64 <sup>th</sup> Street and Concord Avenue Stormwater Management Basins.....	38
4.2.2.1	Project Location .....	38

4.2.2.2	Alternatives Considered.....	38
4.2.2.3	Estimated Pollutant Reduction.....	38
4.2.2.4	Estimated Construction Costs .....	38
4.2.2.5	Estimated Construction Costs .....	41
4.2.3	65 <sup>th</sup> Street and Doffing Avenue Wet Extended Detention Basin.....	42
4.2.3.1	Project Location .....	42
4.2.3.2	Alternatives Considered.....	42
4.2.3.3	Estimated Pollutant Reduction.....	42
4.2.3.4	Estimated Construction Costs .....	42
4.2.3.5	Estimated Construction Costs .....	44
4.2.4	Dickman Industrial Park Wet Extended Detention Basins.....	45
4.2.4.1	Project Location .....	45
4.2.4.2	Alternatives Considered.....	45
4.2.4.3	Estimated Pollutant Reduction.....	45
4.2.4.4	Estimated Construction Costs .....	45
4.2.4.5	Estimated Construction Costs .....	48
4.2.5	64 <sup>th</sup> and Crosby Wet Extended Detention Basin.....	49
4.2.5.1	Project Location .....	49
4.2.5.2	Alternatives Considered.....	49
4.2.5.3	Estimated Pollutant Reduction.....	49
4.2.5.4	Estimated Construction Costs .....	49
4.2.5.5	Estimated Construction Costs .....	51
5.0	Summary.....	52

## List of Tables

Table ES-1. Proposed Stormwater BMP Projects.....	ES-2
Table 1-1. Project Descriptions and Implementation Plan Numbers.....	3
Table 1-2. Land Use and Impervious Surface Classifications.....	7
Table 3-1. Dawn-Concord Wet Extended Detention Basin Preliminary Opinion of Cost.....	23
Table 3-2. Dawn-Concord Dry Extended Detention Basin Preliminary Opinion of Cost.....	24
Table 3-3. Concord-Dickman Ravine Dry Extended Detention Basin Preliminary Opinion of Cost.....	27
Table 3-4. River Road Wet Extended Detention Basin Preliminary Opinion of Cost.....	30
Table 3-5. 7125 Concord Infiltration Basins Preliminary Opinion of Cost.....	33
Table 4-1. 64 <sup>th</sup> and Concord Wet Extended Detention Basin Preliminary Opinion of Cost.....	41
Table 4-2. 65 <sup>th</sup> Street and Doffing Wet Extended Detention Basin Preliminary Opinion of Cost.....	44
Table 4-3. Dickman Industrial Park Wet Extended Detention Basin Preliminary Opinion of Cost.....	48
Table 4-4. 64 <sup>th</sup> and Crosby Wet Extended Detention Basin Preliminary Opinion of Cost.....	51
Table 5-1. TSS Removal and Cost Comparison for Evaluated BMPs.....	53

## List of Figures

Figure ES-1. Project Area.....	ES-3
Figure 1-1. Project Area.....	2
Figure 1-2. SSURGO Hydrologic Soil Group.....	5
Figure 1-3. Met Council 2010 Land Use.....	6
Figure 2-1. Skyline Village Subwatershed.....	11
Figure 2-2. 78 <sup>th</sup> and Concord Wet Extended Detention Basin Location.....	14
Figure 2-3. 78 <sup>th</sup> and Concord Wet Extended Detention Basin Concept Design.....	15
Figure 2-4. Delano Circle Rainwater Gardens Project Location.....	17
Figure 3-1. South Grove Subwatershed.....	19
Figure 3-2. Dawn-Concord Ravine Project Locations.....	22
Figure 3-3. Dickman Trail Storm Sewer Improvements Project Location.....	26
Figure 3-4. River Road Wet Extended Detention Basin Project Location.....	29
Figure 3-5. 7125 Concord Infiltration Basins.....	32
Figure 4-1. Old Village Subwatershed.....	35
Figure 4-2. Dawn Way Rainwater Gardens Project Location.....	37
Figure 4-3. 64 <sup>th</sup> and Concord Wet Extended Detention Basin Project Location.....	39
Figure 4-4. Heritage Park Concept Plan.....	40
Figure 4-5. 65 <sup>th</sup> and Doffing Wet Extended Detention Basin Project Location.....	43
Figure 4-6. Dickman Industrial Park Wet Extended Detention Basins Project Location.....	46
Figure 4-7. Dickman Industrial Park Preliminary Concept Plan.....	47
Figure 4-8. 64 <sup>th</sup> and Crosby Wet Extended Detention Basins Project Location.....	50



## List of Appendices, Attachments, or Exhibits

Appendix A. Table 5.1 from the *City of Inver Grove Heights Third Generation Water Resources Management Plan*

Attachment A. *City of Inver Grove Heights Pollutant Load Analyses: South Grove Subwatershed, Skyline Village Subwatershed, Old Village Subwatershed*

Attachment B. *City of Inver Grove Heights Third Generation Water Resources Management Plan*

## Certifications

I hereby certify that this 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.

*Karen L. Chandler*

---

Karen Chandler PE #: 19252

February 3, 2016

---

Date

---

## Executive Summary

The portion of the Mississippi River that borders the City of Inver Grove Heights (City) is currently listed on the Minnesota Pollution Control Agency's (MPCA's) 2014 Impaired Waters List for turbidity—a measure of the water's cloudiness. High turbidity is caused by excessive concentrations of suspended solid particles in the water. One contributor to turbidity is discharge from municipal separate storm sewer systems (MS4).

The Clean Water Act of 1972 outlines a comprehensive process for assessing water quality impairments, known as the Total Maximum Daily Load (TMDL) process. In this process, surface waters identified as impaired (exceeding state standards for certain pollutants), are subject to a TMDL study. The goal of the study is to determine the maximum loads of point and nonpoint sources of pollution that can be allowed to enter a water body without exceeding water quality standards.

The City's MS4 system, which discharges to the Mississippi River, has been identified in the MPCA's *South Metro Mississippi River Total Suspended Solids Total Maximum Load* draft report as a source of pollution, contributing to turbidity. The report also assigns a corresponding wasteload allocation (WLA) to the City of 154 pounds of TSS per acre. If the TMDL study is approved by the U.S. Environmental Protection Agency, the City must meet that standard.

The assignment of a WLA by an approved TMDL would make the City eligible for funding to implement and construct stormwater best management practices (BMPs) that would reduce the amount of TSS discharged through the storm sewers into the Mississippi River. Two State of Minnesota (State) sources of funding are:

- The Intended Use Plan (IUP), which provides low-interest loans for managing stormwater.
- The Point Source Implementation Grant (PSIG) program, which provides up to 50 percent grant funding for stormwater projects necessary to meet WLA requirements.

To qualify for these programs, the City's engineer submitted an application for placement on the State's project priority list (PPL). The March 2015 application included a number of projects in the City's *Third Generation Water Resources Management Plan* (3rd Gen WRMP, December 2014). The City has been placed on the 2016 PPL, which totals 293 projects prioritized by an application scoring system. The City's application ranks 155th overall (fourth among stormwater project applicants). Once on the list, projects remain eligible to receive funding for a 5-year period.

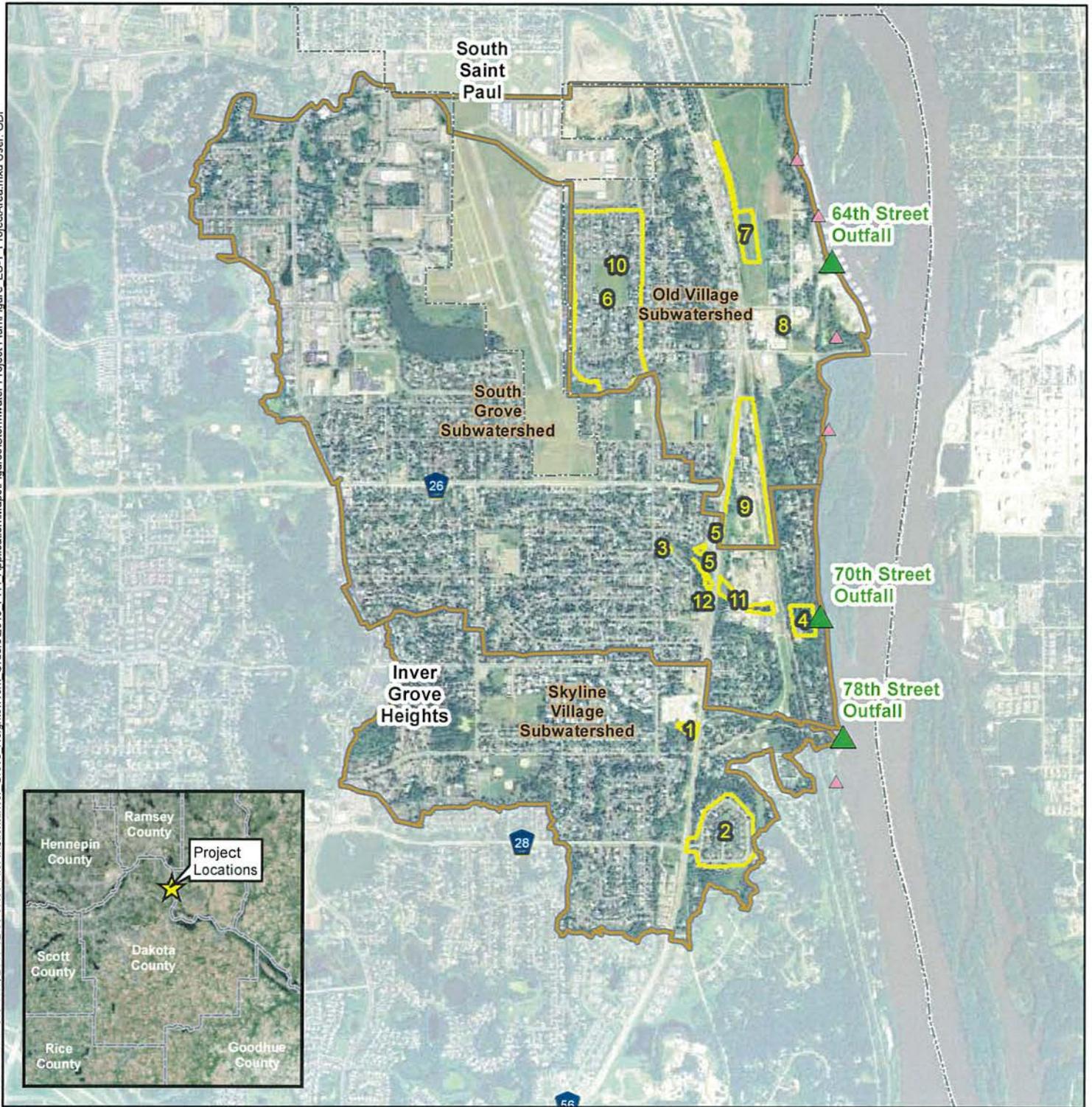
The City's next step toward receiving IUP or PSIG funding is to adopt a Stormwater Project Plan by resolution of the City Council and submit it to the MPCA. The plan, presented in this report, describes the proposed project in more detail, including the project area and need, estimated costs, and benefits. To apply for IUP funding, federal regulations require the City to submit supplementary information, including an Environmental Informational Worksheet (EIW). A draft EIW has been prepared in the event that the City desires to apply for IUP loans.

This Stormwater Project Plan describes 12 potential stormwater BMP projects within the City. These proposed BMPs are listed as "subprojects," and would be completed over a 5-year period, assuming that appropriate match funding is available. The proposed subprojects are located within subwatersheds that drain to Mississippi River outfalls; if constructed, they will reduce the stormwater runoff volume, pollutant loads, and peak discharge rates of the outfalls to the river. Table ES-1 lists the proposed projects and cross references them to Table 5-1 of the City's 3rd Gen WRMP. Figure ES-1 shows the project area, including the City's subwatersheds and the Mississippi River outfalls.

**Table ES-1. Proposed Stormwater BMP Projects**

Project Number	Project Name	Item Number in 3 <sup>rd</sup> Gen WRMP	TP Reduction (lbs/yr)	TSS Reduction (lbs/yr)	Estimated Construction Cost (1) (\$)
1	78 <sup>th</sup> and Concord Wet Extended Detention Basin	53	9	3,400	\$ 400,000
2	Delano Circle Rainwater Gardens	56	2	850	\$ 27,600
3	Dawn-Concord Ravine Wet Extended Detention Basin	55	10	7,050	\$ 250,000
4	River Road Wet Extended Detention Basin	39	50	36,300	\$ 900,000
5	7125 Concord Infiltration Basins	56	5	1,570	\$ 160,000
6	Dawn Way Rainwater Gardens	56	7	2,820	\$ 92,000
7	64 <sup>th</sup> and Concord Wet Extended Detention Basins	39, 54	17	10,500	\$ 380,000
8	65 <sup>th</sup> and Doffing Wet Extended Detention Basin	54	6	3,500	\$ 140,000
9	Dickman Industrial Park Wet Extended Detention Basins	52	17	8,300	\$ 240,000
10	64 <sup>th</sup> and Crosby Wet Extended Detention Basin	56	5	1,500	\$ 200,000 (2)
11	Dickman Trail Storm Sewer Improvements	55	< 1	120	\$ 210,000
12	Dawn-Concord Ravine Dry Extended Detention Basin	55	< 1	120	\$ 220,000

(1) Cost estimates do not include potential cost of contaminated soils or shallow bedrock that may be encountered at site.  
(2) Construction cost will be shared between the City and the site's developer. The amount listed represents only the City's portion of the cost.



**Outfall Discharge Location**

-  Major Outfall
-  Minor Outfall
-  Proposed Project Locations
-  Subwatersheds
-  Municipal Boundary
-  County Boundaries

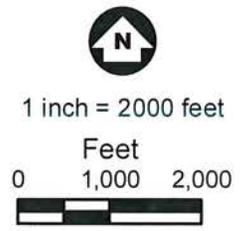


FIGURE ES-1

PROJECT AREA  
Stormwater Project Plan  
City of Inver Grove Heights  
Dakota County, MN

---

# 1.0 Introduction

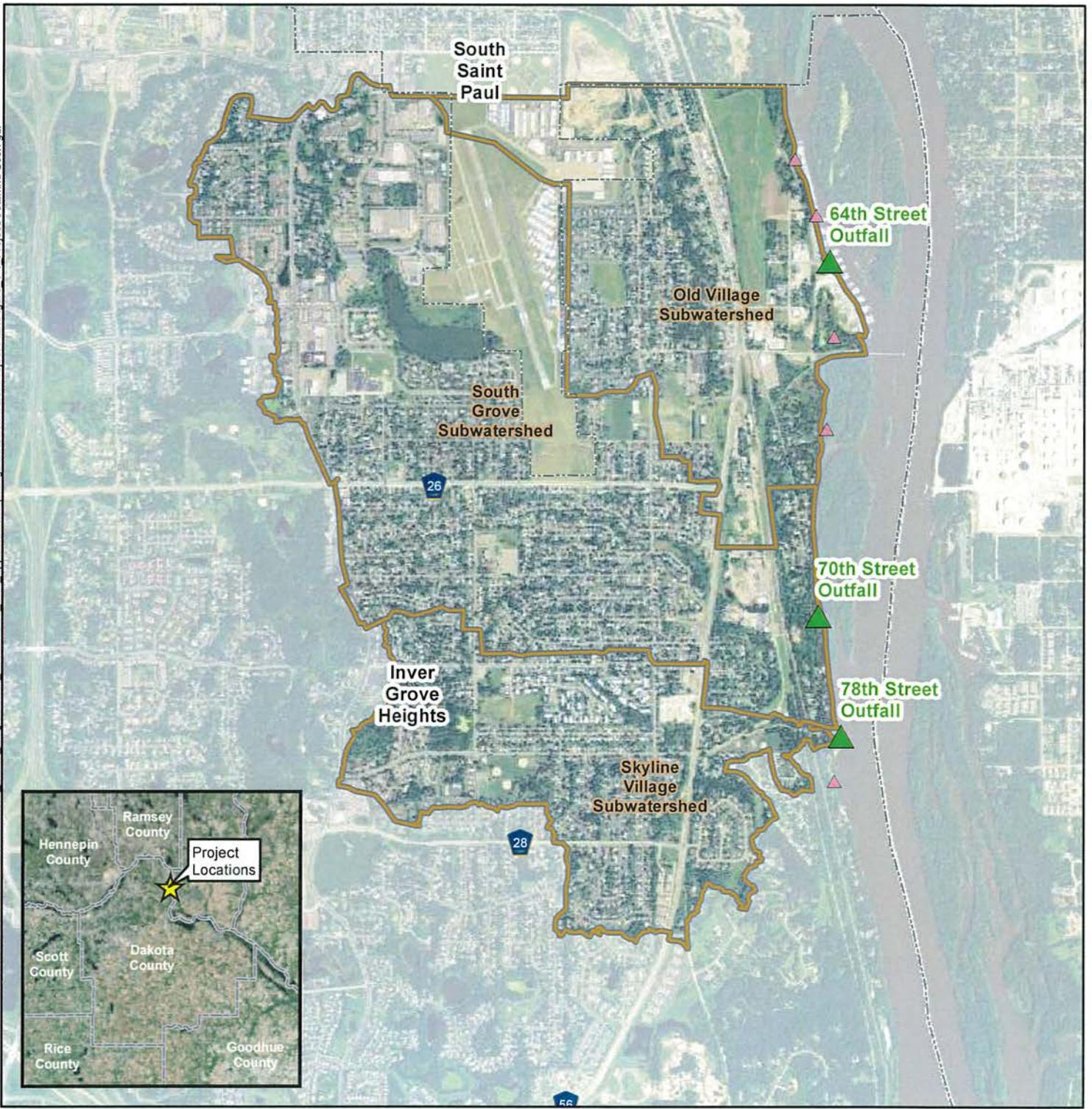
## 1.1 Project Area and Project Need

The proposed projects described in this study are located within the City's Old Village, South Grove, and Skyline Village subwatersheds (Figure 1-1). These subwatersheds encompass approximately 1,950 acres of mostly-developed land that drain to the Mississippi River. The Mississippi River, from river mile 844 at St. Paul to river mile 780 in upper Lake Pepin, is currently listed on the Minnesota Pollution Control Agency's (MPCA's) 2014 Impaired Waters List for turbidity. Consequently, the City is included as a Regulated MS4 for the *South Metro Mississippi River Total Suspended Solids Total Maximum Daily Load* (draft, 2012). The draft TMDL report specifies a target TSS load of 154 pounds per acre per year for MS4s that are in a watershed subject to a reduction. The EPA is currently reviewing this draft TMDL report, and the City anticipates EPA approval in early 2016. It is anticipated that the city will receive its Waste Load Allocation (WLA) in 2016.

At the request of the City, the Dakota County Soil and Water Conservation District (SWCD) completed the *City of Inver Grove Heights Pollutant Load Analyses* report for the Old Village, South Grove, and Skyline Village subwatersheds (2011). These subwatersheds were selected for analysis because they contained urbanized areas that were developed prior to stormwater treatment requirements and discharged largely-untreated runoff to the Mississippi River under their current conditions. The SWCD estimated each subwatershed's current pollutant loads and evaluated potential locations for retrofit BMPs.

The SWCD's report showed that the overall estimated annual load per acre for volume, total suspended solids (TSS) and total phosphorus (TP) were similar between the three subwatersheds, and the estimated subcatchment loads within each subwatershed were also comparable due to the fairly uniform distribution of land uses and soil hydrologic groups. The report showed that water quality could be improved if stormwater retrofits were installed to reduce pollutant loads, and recommended five BMPs in subcatchments where the City indicated match funding would be available to secure potential future cost share grants. Three of the BMPs – a bio-retention cell in the South Grove subwatershed at 69<sup>th</sup> Street and Craig Court, street-side rainwater gardens in the South Grove subwatershed, and street-side rainwater gardens in the Skyline Village subwatershed – have since been constructed.

On March 5, 2015, City staff and Minnesota Department of Natural Resources (MDNR) staff met with representatives from the "Friends of Pool Two" (FPT) organization at the MDNR offices in Saint Paul, to hear concerns that the FPT had regarding the amount of sediment that entered the Mississippi River at the outfalls within the City. City staff presented several potential stormwater BMP projects within the Old Village, South Grove, and Skyline Village watersheds, and the FPT in turn suggested additional BMP projects to treat stormwater before it is discharged into the Mississippi River. FPT supported all projects presented in this report to reduce the sediment load to the river. FPT suggested that projects which reduce sediment plumes from the outfall from Dickman Trail were a high priority. FPT also suggested a channel improvement project in the Mississippi River near the outfall from Dickman Trail; however, that project is outside the City's jurisdiction and is not included in this Report. The United States Army Corps of Engineers and MDNR have jurisdiction within the waters of the state.



**Outfall Discharge Location**

-  Major Outfall
-  Minor Outfall
-  Subwatersheds
-  Municipal Boundary
-  County Boundaries



1 inch = 2000 feet  
Feet  
0 1,000 2,000



FIGURE 1-1

PROJECT AREA  
Stormwater Project Plan  
City of Inver Grove Heights  
Dakota County, MN

The potential projects evaluated in this study include the remaining two projects recommended by the SWCD's pollutant load analysis and several additional projects, including projects that the City considers to be high priority and has targeted for implementation in its *Third Generation Water Resources Management Plan* (3<sup>rd</sup> Gen WRMP, December, 2014).

**Table 1-1. Project Descriptions and Implementation Plan Numbers**

Stormwater Project Plan Number	Project Name	Item Number from 3 <sup>rd</sup> Gen WRMP	Subwatershed
1	78 <sup>th</sup> and Concord Wet Extended Detention Basin	53	Skyline Village
2	Delano Circle Rainwater Gardens	56	Skyline Village
3	Dawn-Concord Ravine Wet Extended Detention Basin	55	South Grove
4	River Road Wet Extended Detention Basin	39	South Grove
5	7125 Concord Infiltration Basins	56	South Grove
6	Dawn Way Rainwater Gardens	56	Old Village
7	64 <sup>th</sup> and Concord Wet Extended Detention Basins	39, 54	Old Village
8	65 <sup>th</sup> and Doffing Wet Extended Detention Basin	54	Old Village
9	Dickman Industrial Park Wet Extended Detention Basins	52	Old Village
10	64 <sup>th</sup> and Crosby Wet Extended Detention Basin	56	Old Village
11	Dickman Trail Storm Sewer Improvements	55	South Grove
12	Dawn-Concord Ravine Dry Extended Detention Basin	55	South Grove

These projects will help to meet three important goals listed in the 3<sup>rd</sup> Gen WRMP:

1. Operate, manage, and maintain the City's stormwater system to ensure proper functioning of the system and to meet the requirements of the City's NPDES Phase II MS4 Permit and other agency requirements.

- 
2. Improve the quality of stormwater runoff reaching the Mississippi River by reducing nonpoint source pollution (including sediment) carried as stormwater runoff.
  3. Reduce volumes of stormwater runoff and the amount of impervious surfaces in the developed parts of the City.

The 3<sup>rd</sup> Gen WRMP and the *Pollutant Load Analyses for the South Grove, Skyline Village, and Old Village subwatersheds* report are included on a CD attached to this study.

## 1.2 Water Quality Modeling

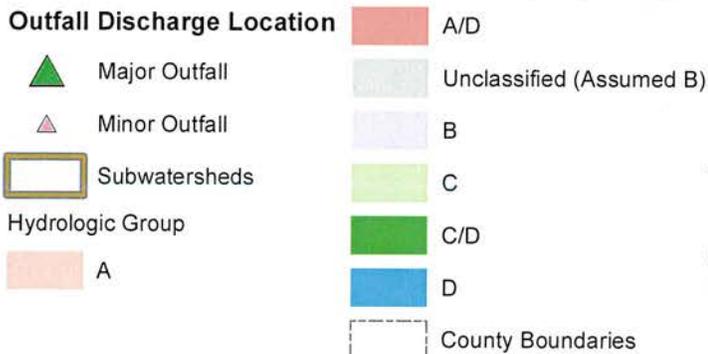
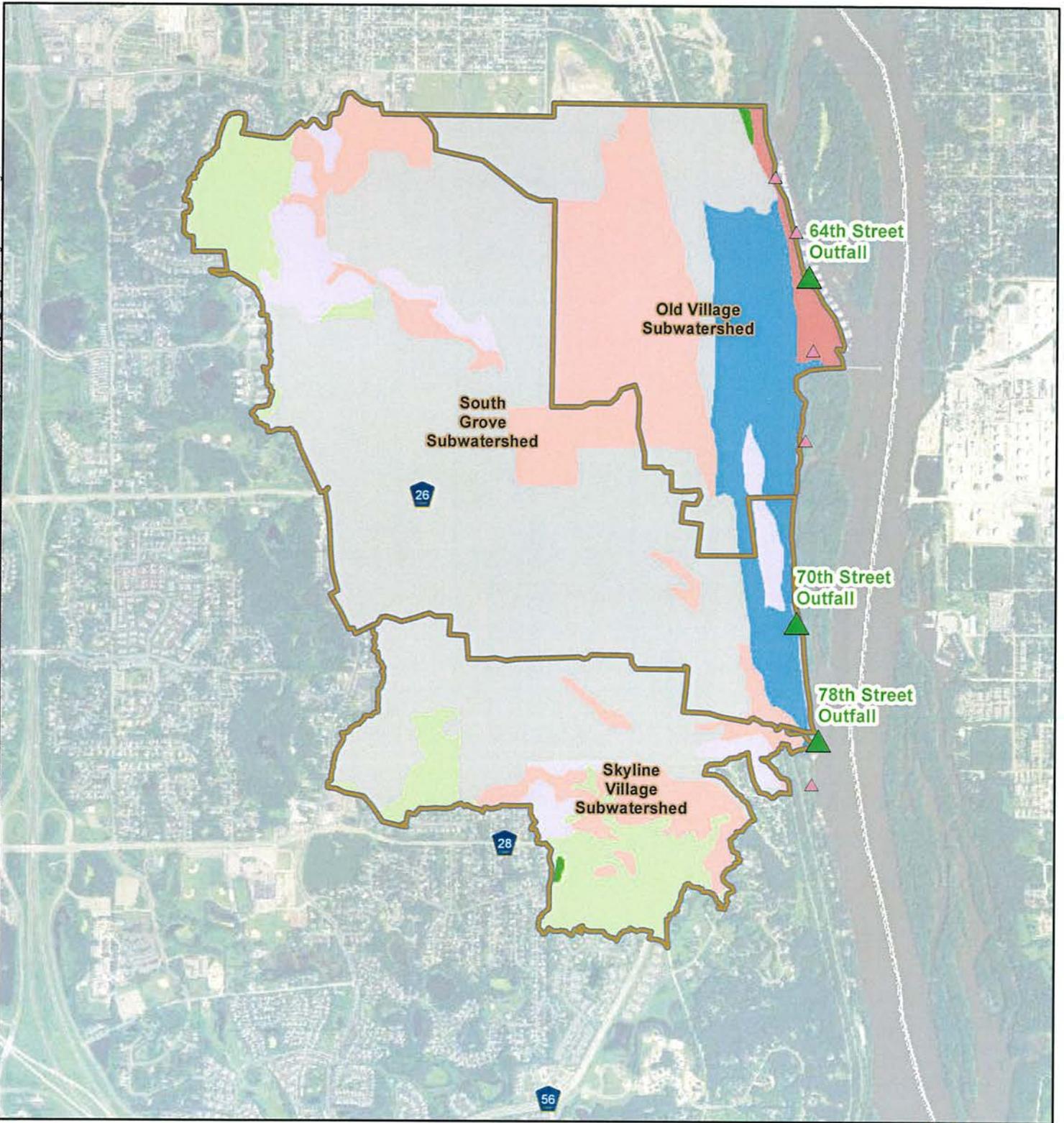
The P8 water quality modeling software program was used to estimate existing pollutant loads for the project area. Hydrologic inputs for the P8 model include hydrologic soil group (HSG), impervious surface percentage, temperature, and rainfall. Hydraulic inputs included stage-storage curves for surface water storage areas and pipe diameter information for pond outlets.

HSG parameters were calculated from the statewide Soil Survey Geographic database (SSURGO) using ArcGIS (Figure 1-2). Large portions of the study area are classified as "Urban land-Chetek complex, 1 to 15 percent slopes", which has no HSG designation. This soil class was assumed to be HSG B for the P8 model, similar to the "Chetek sandy loam, 3 to 8 percent slopes" soil class.

Impervious surface percentages were calculated from the Metropolitan Council 2010 land use dataset using ArcGIS (Figure 1-3). Total impervious and directly connected impervious percentages for each land use were assigned based on relationships developed for previous modeling projects. Land use categories and their corresponding impervious percentages are shown in Table 1-2.

Hourly rainfall depths and daily high and low temperatures were obtained for the National Weather Service monitoring station at the Minneapolis-St. Paul Airport. The time period from January 1, 2001 through December 31, 2010 was used for the existing conditions and proposed conditions simulations, corresponding to the most recent ten years included in the current 30-year climate normals.

Stage-storage curves were calculated using the most-current Dakota County LiDAR dataset. Pond outlet pipe diameters were obtained from City storm sewer data where they were available, and estimated where they were not available.



1 inch = 2,000 feet

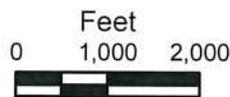
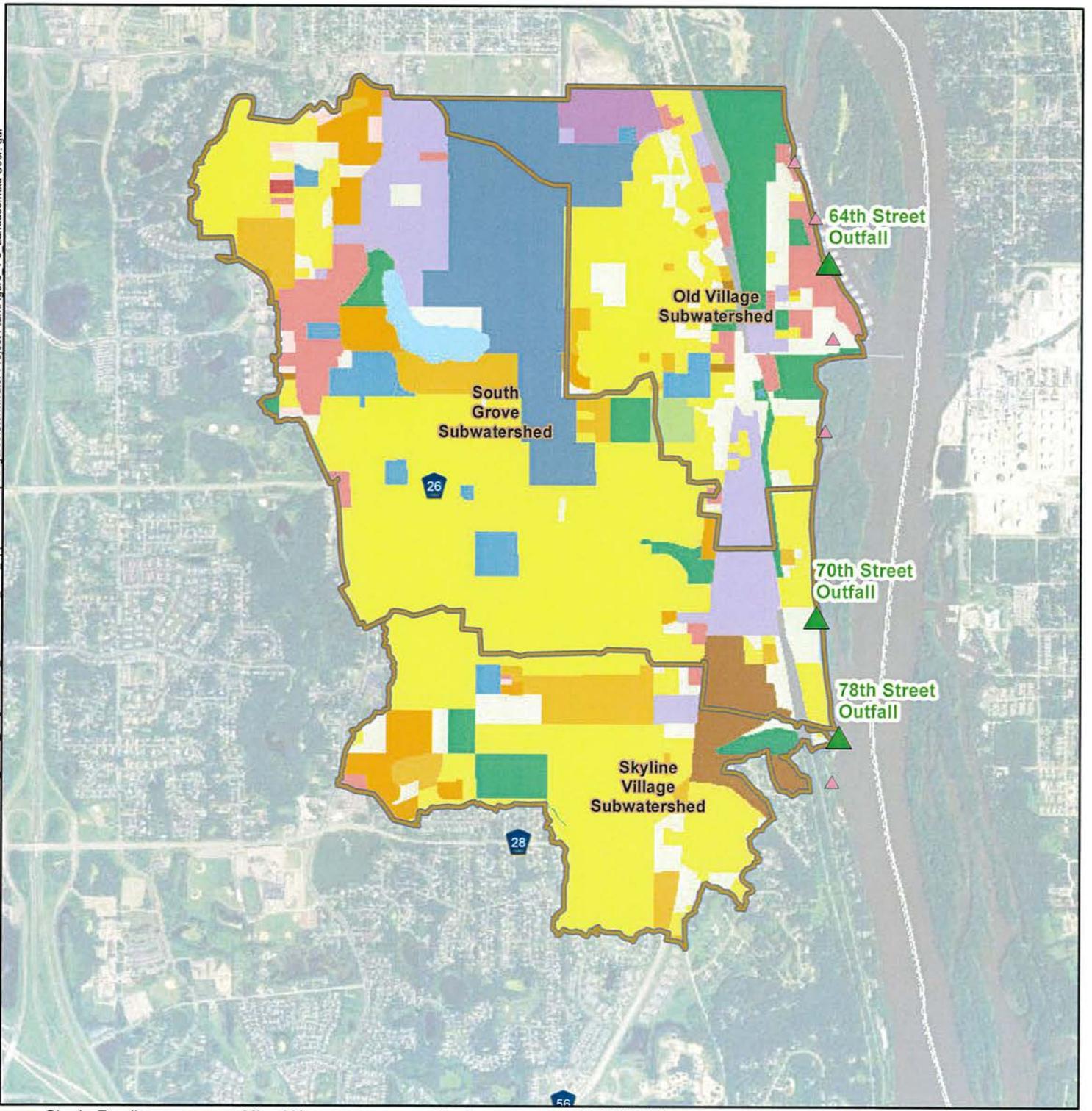


FIGURE 1-2

SSURGO HYDROLOGIC  
SOIL GROUP  
Stormwater Project Plan  
City of Inver Grove Heights  
Dakota County, MN



Single Family Detached	Mixed Use Residential	Park, Recreational or Preserve	<b>Outfall Discharge Location</b>
Manufactured Housing Park	Mixed Use Commercial and Other	Railway	Major Outfall
Single Family Attached	Industrial and Utility	Airport	Minor Outfall
Multifamily	Extractive	Agricultural	Subwatersheds
Office	Institutional	Undeveloped	
Retail and Other Commercial	Water		



FIGURE 1-3

MET COUNCIL 2010 LAND USE  
Stormwater Project Plan  
City of Inver Grove Heights  
Dakota County, MN

1 inch = 2000 feet

Feet

0 1,000 2,000



**Table 1-2. Land Use and Impervious Surface Classifications**

Description	Total Impervious Percentage (%)	Directly Connected Impervious Percentage (%)
Extractive	2	0
Park, Recreational, or Preserve	2	0
Undeveloped	2	0
Agricultural	5	0
Single Family Attached	25	16
Single Family Detached	25	16
Manufactured Housing Parks	38	30
Institutional	40	35
Airport	50	35
Railway	65	45
Industrial and Utility	72	70
Office	72	70
Mixed Use Residential	75	65
Multifamily	75	65
Mixed Use Commercial	85	80
Retail and Other Commercial	85	80
Open Water	100	0

## 1.3 Best Management Practices

### 1.3.1 Wet Extended Detention Basin

Wet extended detention basins (sometimes called “NURP ponds” when designed to the standards outlined by the Nationwide Urban Runoff Program) are impoundments that have a permanent pool of water and also have the capacity to hold runoff and release it at lower discharge rates than the incoming flows. Wet extended detention basins treat stormwater runoff by trapping suspended solids and any of the pollutants associated with the sediment (e.g. heavy metals, nutrients, hydrocarbons). They have also been credited with reducing the amount of bacteria and oxygen-demanding substances as runoff flows through the pond. When properly designed, they can remove 80 to 95 percent of total suspended solids

---

and 40 to 60 percent of total phosphorus (MPCA, 1989). While quite effective in removing sediment and associated phosphorus, water quality treatment ponds do not remove dissolved phosphorus.

### **1.3.2 Dry Extended Detention Basin**

Dry extended detention basins are constructed basins that provide temporary storage for stormwater runoff but have no permanent pool. They provide runoff rate control, reducing impacts on storm sewer infrastructure, but do not reduce suspended sediment concentrations due to the tendency of subsequent runoff events to re-suspend trapped sediment.

### **1.3.3 Infiltration Basin**

Infiltration basins capture and temporarily store stormwater before allowing it to infiltrate into the soil. They can be designed as a BMP at the upstream end of a subwatershed so that excess volume is routed into downstream storm sewer infrastructure or as an off-line BMP where the water quality volume is diverted from storm sewers to the basin. Infiltration basins function as water quality BMPs by filtering water through the soil before it reaches groundwater or adjoining surface water, and as water quantity BMPs by removing volume from surface runoff. Infiltration basins are effective BMPs for removing dissolved phosphorus.

### **1.3.4 Streetside Bioinfiltration Basin (Rainwater Garden)**

Rainwater gardens are bio-retention BMPs that are a form of infiltration basin. They collect stormwater runoff from nearby impervious areas and store it in a shallow, vegetated depression where it can be taken up by the vegetation or infiltrated through the soil. Rainwater gardens can be designed to redirect excess volume to the storm sewer through an overflow outlet or simply allow it to flow past the rainwater garden to existing catch-basins. Where soils have fast infiltration rates (hydrologic group A and B soils) rainwater gardens reduce the volume of stormwater runoff through infiltration as well as reducing the concentration of pollutants such as TSS and TP, including dissolved phosphorus. Where soils have limited infiltration capacity (hydrologic group C and D soils), the rainwater garden can be equipped with an underdrain system that allows the rainwater garden to filter runoff through the soil, removing particulates before returning the treated water to the storm sewer system.

### **1.3.5 Iron-enhanced Sand Filter**

Iron-enhanced sand filters are filtration BMPs that incorporate filtration media mixed with iron. The sand removes particulates such as TSS from stormwater while the iron removes several dissolved constituents, including phosphate. The iron must remain in an oxidized state for optimal performance; therefore, iron-enhanced sand filters must be installed where the water passing through them is oxygenated and must be allowed to dry out regularly. Iron-enhanced sand filters can be incorporated into other BMPs to improve their pollutant removal. For example, a filtration bench can be incorporated into the banks of a wet extended detention basin to treat a portion of the basin's live storage volume.

---

### 1.3.6 Spent Lime Reactor

Spent lime reactors are BMPs that remove phosphate from stormwater through binding to calcium carbonate, a cheaply-obtained byproduct of the drinking water treatment process. Because only a short contact time (5 to 10 minutes) is required for the chemical reaction to bind phosphorus to the calcium in lime, a relatively small BMP footprint can be used to treat a significant flow-rate and volume of water. Additionally, the spent-lime material has a significant phosphorus binding capacity and an estimated hypothetical lifespan of 100+ years (unconfirmed as yet by field testing).

## 1.4 Maintenance Plan

The City is responsible for maintaining its stormwater system as described in its NPDES Phase II MS4 permit SWPPP. Activities include regular inspection of the City's structural pollution control devices (SPCD) and inspecting all outfalls, sediment basins, and ponds every five years. Annually, all pond, outfall, and SPCD inspections records are reviewed to determine if maintenance, repair, or replacement is needed. Additional details regarding the City's stormwater system maintenance plan can be found in Table 5.1 and Appendix B of the City's 3<sup>rd</sup> Gen WRMP (attached).

Iron-enhanced sand filters would be inspected on an annual basis to verify that inlets and outlets are functioning correctly. The filtration media would be replaced as needed when it has reached its useful life as determined by testing. Spent lime reactors would be inspected annually to verify that inlets and outlets are functioning correctly. The spent-lime media would be mixed annually to maintain its porosity and hydraulic conductivity, and additional spent-lime media would be added as needed to maintain the design depth and contact time.

---

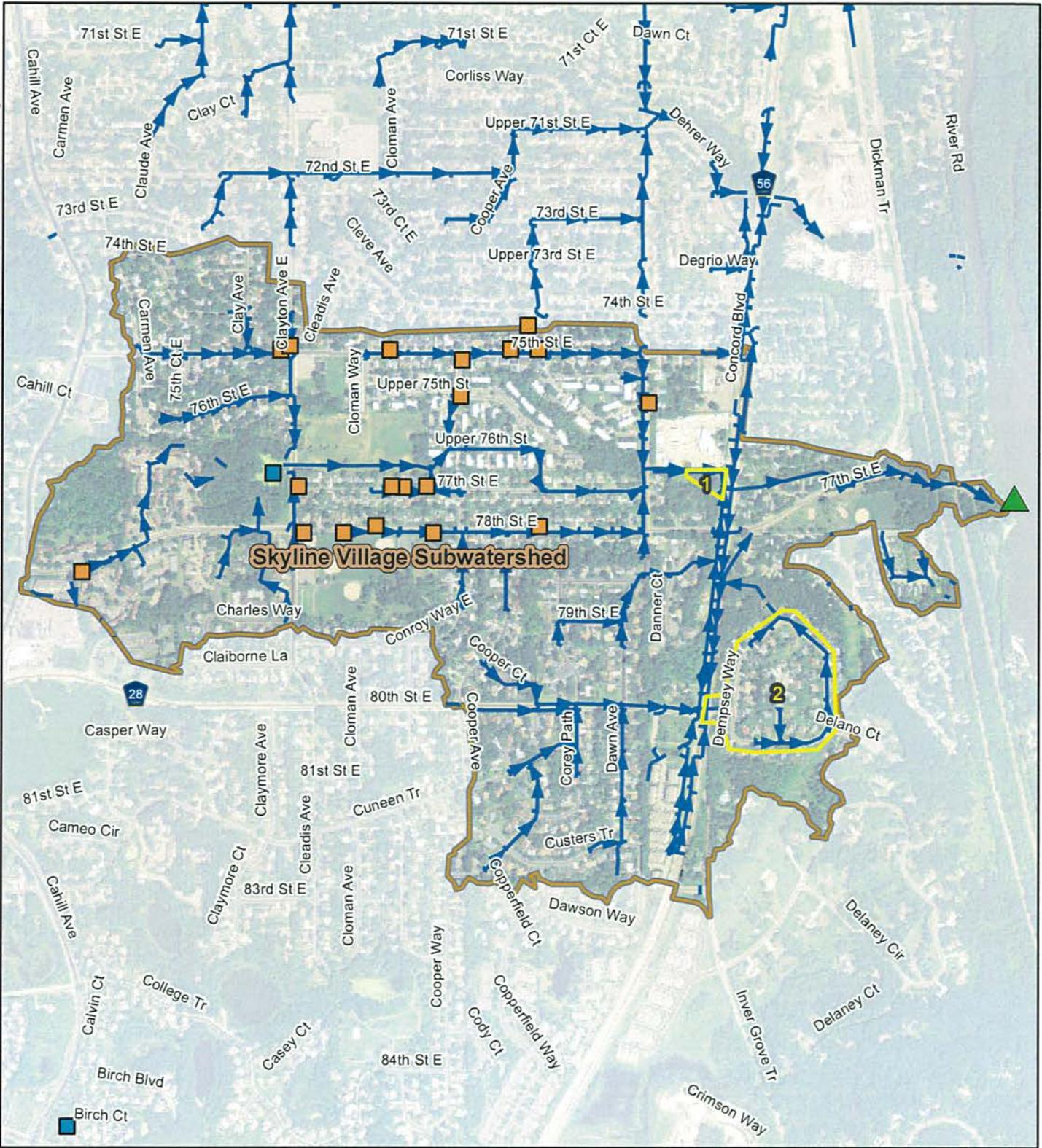
## 2.0 Skyline Village Subwatershed

### 2.1 Project Area

The Skyline Village subwatershed encompasses approximately 430 acres of mostly-developed land. Stormwater runoff from the portion of the Skyline Village subwatershed west of Concord Boulevard is collected by storm sewer laterals that feed into a single trunk line at Dawn Avenue, which then passes under Concord Boulevard and conveys flow eastward to the 77<sup>th</sup> Street outfall at the Mississippi River (Figure 2-1). Land use in the Skyline Village subwatershed is primarily single-family residential with some parkland and multi-family residential land use. Existing stormwater treatment facilities include a regional pond located just west of Clayton Avenue that provides stormwater treatment for approximately 112 acres in the upper portion of the subwatershed, and a number of street-side rainwater gardens that were constructed with assistance from the City during recent street reconstruction and resurfacing projects (Figure 2-1). Stormwater runoff to the storm sewer system from the subwatershed area east of the Clayton Avenue pond is largely untreated and therefore carries high concentrations of TSS to the Mississippi River.

The storm sewer trunk line directly upstream of the 77<sup>th</sup> Street outfall has been damaged by the high flow rates of stormwater common to this area. Leaks from the damaged pipe have caused erosion in the soil surrounding the pipe, contributing to the problem of excessive sediment in stormwater discharged to the Mississippi River. Reductions in runoff flow rate and runoff volume from the Skyline Village subwatershed are needed to ensure that the system, once repaired, will maintain its integrity.

Barr Footer: ArcGIS 10.3, 2015-06-30 18:38 File: I:\Client\Inver\_Grove\_Heights\Work\_Orders\2015\_PFA\_Application\Maps\Figures\Stormwater Project Plan\Figure\_2-1\_SkylineVillageSubwatershed.mxd User: gdf



	Proposed Project Locations		77th Street Outfall
<b>Existing Stormwater BMPs</b>			Existing Storm Sewer
	Basin		Skyline Village Subwatershed
	Dry Pond		City of Inver Grove Heights
	Filtration		
	Infiltration/Recharge		
	Underground System		



1 inch = 1000 feet

Feet

0 1,000





FIGURE 2-1

SKYLINE VILLAGE SUBWATERSHED  
Stormwater Project Plan  
City of Inver Grove Heights  
Dakota County, MN

---

## **2.2 Subprojects**

### **2.2.1 78<sup>th</sup> and Concord Wet Extended Detention Basin**

#### **2.2.1.1 Project Location**

The proposed project is located on a City-owned parcel of undeveloped land northwest of the intersection of 78<sup>th</sup> Street East and Concord Boulevard (Figure 2-2). Under existing conditions the project site is a depression that receives direct runoff from a 5.5-acre subcatchment. A 48-inch diameter storm sewer trunk line carrying stormwater runoff from approximately 242 acres of the Skyline Village subwatershed runs along the north side of the project site. This project is Item 53 in the City's 3<sup>rd</sup> Gen WRMP, Table 5.1.

#### **2.2.1.2 Alternatives Considered**

BMP alternatives considered for this site included an infiltration basin or a wet extended detention basin. The 2011 SWCD report showed that the infiltration basin alternative could provide water quality treatment for 10 acres of contributing area at an estimated cost of \$347,000, while the wet extended detention basin alternative could provide water quality treatment for 25 acres of contributing area at an estimated cost of \$373,000. The detention basin alternative was recommended based on its greater cost-effectiveness.

The proposed project would consist of a stormwater management basin constructed to the National Urban Runoff Program (NURP) standards. The pond would have a permanent pool of 1.0 acre-feet, which would provide water quality treatment for 25 acres of upland drainage area. The pond would receive stormwater runoff from the existing direct watershed and from the nearby 48-inch diameter storm sewer trunk line. Because the contributing area for the storm sewer trunk line exceeds that which can be efficiently treated by the pond, a diversion structure would be constructed at the trunk line that would allow flows up to the pond's design inflow rate to enter the west end of the pond, while higher flows would remain in the storm sewer and bypass the pond. An iron-enhanced sand filter would be incorporated into the basin to enhance dissolved TP removal. TSS would settle in the pond, and treated water would be returned to the storm sewer trunk line via an outlet structure at the east end of the pond. Figure 2-3 shows the preliminary design drawing for the 78<sup>th</sup> and Concord wet extended detention basin.

#### **2.2.1.3 Estimated Pollutant Reduction**

The SWCD report estimated pollutant reductions using the WinSLAMM version 9.4.0 pollutant load model. Based on that analysis, the proposed pond would reduce annual TSS loading by approximately 3,400 pounds per year and TP by approximately 9.4 pounds per year, reducing the Skyline Watershed TSS wasteload by 7.9 pounds per acre.

#### **2.2.1.4 Estimated Construction Costs**

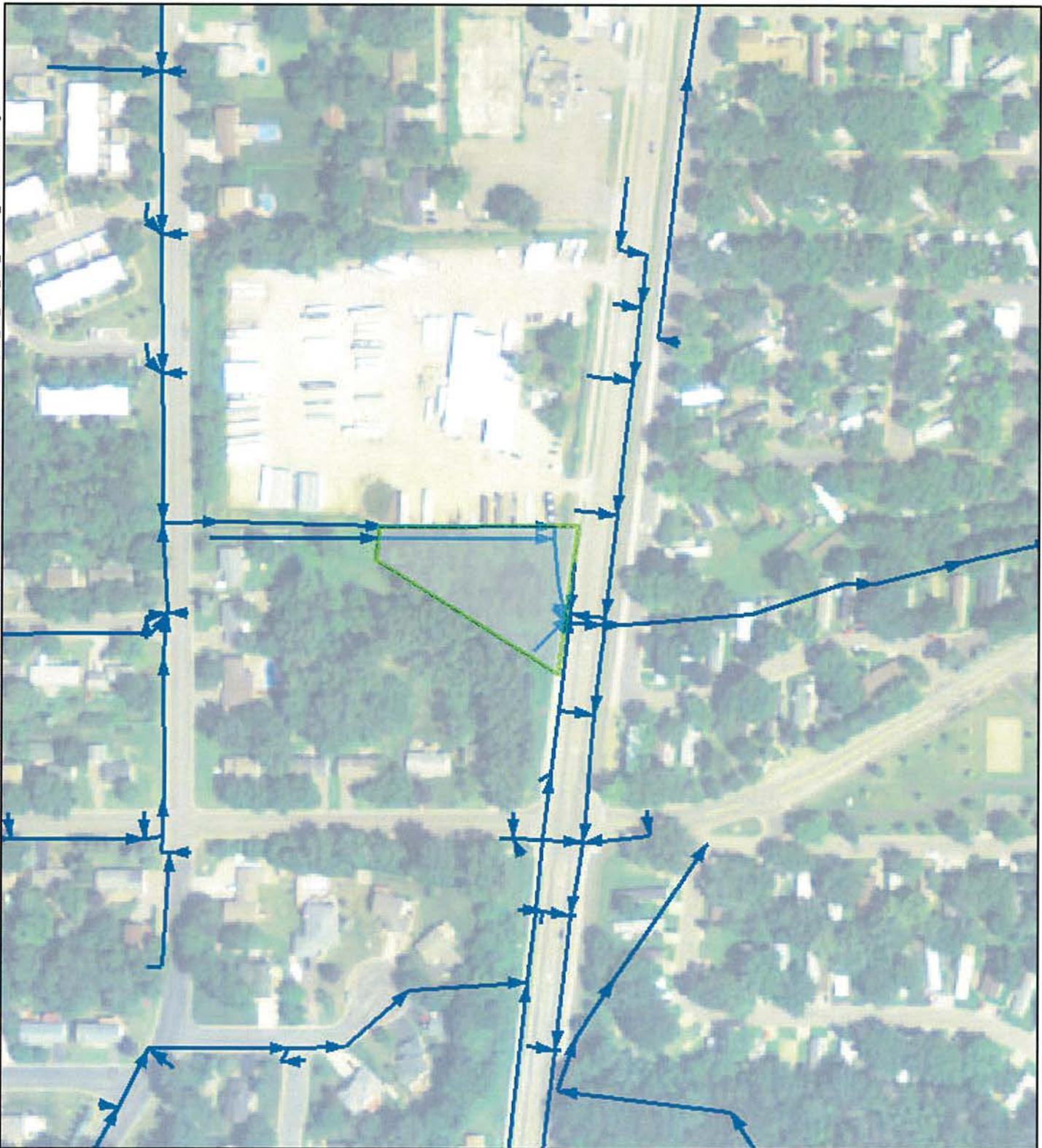
The proposed project has an estimated construction cost of \$400,000, based on the current design plans. This cost does not include testing for or remediation of any contaminated soils or high elevation of bedrock, either or both of which may be present at the project site. Soil testing will be required before the project reaches final design.

---

### **2.2.1.5 Estimated Equipment Replacement Costs**

The lifespan of iron-enhanced sand filtration systems is currently estimated to be 25 years. After this time the media would need to be replaced, at a cost of approximately \$30,000 (2015 dollars).

Barr Footer ArcGIS 10.3, 2015-06-30 18:27 File: I:\Client\Inver\_Grove\_Heights\Work\_Orders\2015\_PFA\_Application\Maps\Figures\Stormwater Project Plan\Figure\_2-2\_78th\_and\_Concord\_Basin.mxd User: gdf



-  Proposed Project Footprint
-  Existing Storm Sewer
-  City of Inver Grove Heights



1 inch = 200 feet

Feet

0 100 200



FIGURE 2-2

78TH AND CONCORD WET EXTENDED  
DETENTION BASIN LOCATION  
(SKYLINE VILLAGE SUBWATERSHED)  
Stormwater Project Plan  
City of Inver Grove Heights  
Dakota County, MN

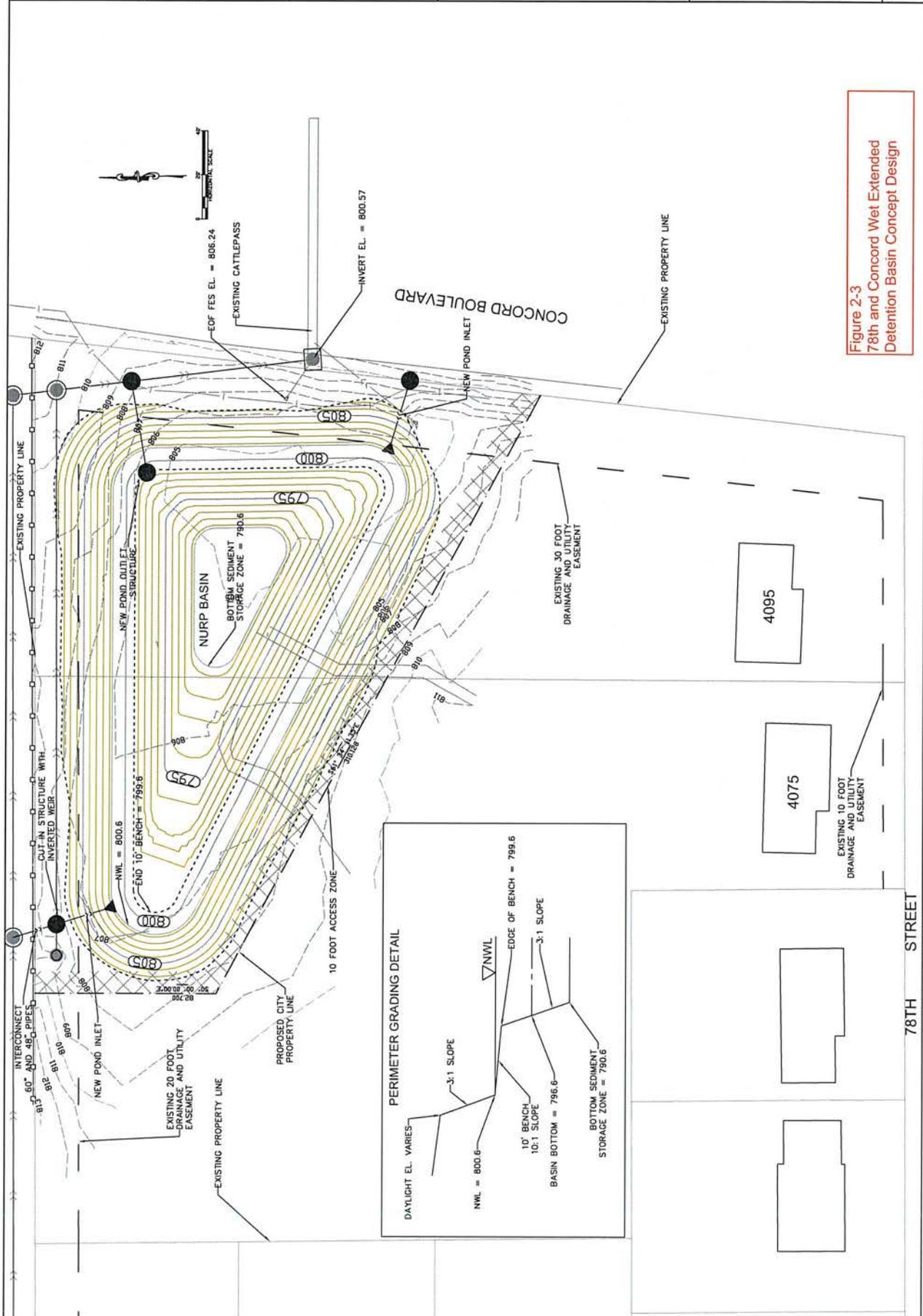


Figure 2-3  
78th and Concord Wet Extended  
Detention Basin Concept Design

---

## **2.2.2 Delano Circle Rainwater Gardens**

### **2.2.2.1 Project Location**

The proposed project is located in a neighborhood of approximately 17.5 acres surrounding Delano Circle, east of the intersection of 80<sup>th</sup> Street East and Concord Boulevard, within the Skyline Village Subwatershed (Figure 2-4). A portion of the neighborhood drains westward to the Concord Boulevard trunk storm sewer while the remainder drains northward along the east side of Concord before being conveyed east to the 77<sup>th</sup> Street outfall. According to the City's current CIP plan, which is modified from time to time to meet changing priorities and budgets, the streets in this neighborhood are scheduled to be resurfaced during 2017. This project is applicable to Item 56 in the City's 3<sup>rd</sup> Gen WRMP, Table 5.1.

### **2.2.2.2 Alternatives Considered**

As part of its regularly scheduled pavement maintenance program, the City of Inver Grove Heights solicits landowners who are willing to have a rainwater garden constructed on their property. Rainwater gardens are particularly suitable as "retrofit" BMPs which can be constructed in previously-developed commercial and residential areas. The rainwater garden consists of a shallow, vegetated depression excavated adjacent to the rebuilt street, with curb cutouts to funnel runoff from the street to the rainwater garden. Based on landowner response to similar projects within the city, it is estimated that approximately six rainwater gardens would be constructed in the project area.

### **2.2.2.3 Estimated Pollutant Reduction**

The SWCD report estimated pollutant reductions using the WinSLAMM version 9.4.0 pollutant load model. Based on that analysis, an average rainwater garden would reduce TSS by 141 pounds per year, TP by 0.34 pounds per year, and runoff volume by 0.15 acre-feet per year. The combined annual pollutant reduction for six rainwater gardens is 846 pounds per year of TSS and 2 pounds per year of TP, reducing the Skyline Watershed TSS wasteload by 0.25 pounds per acre.

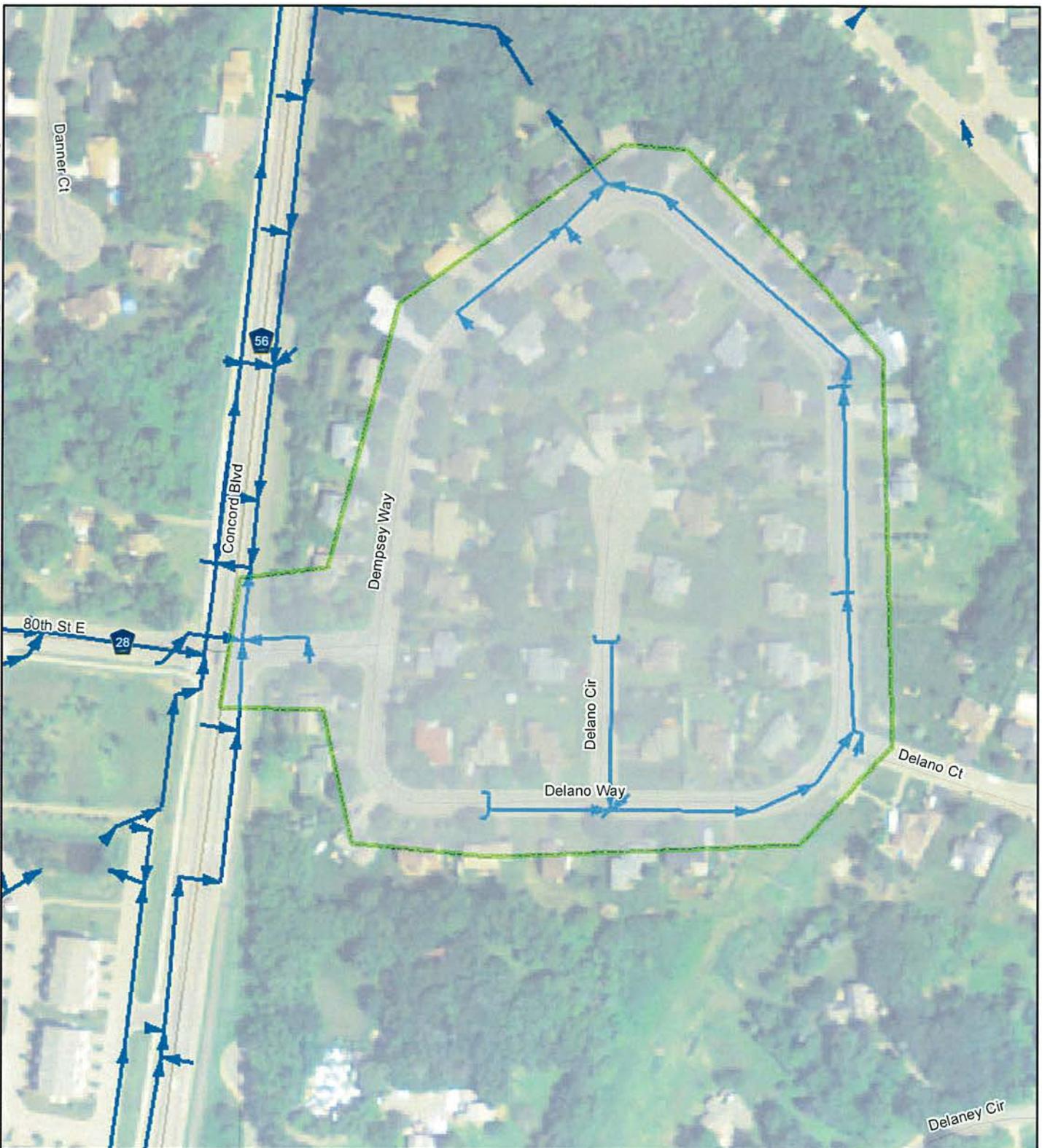
### **2.2.2.4 Estimated Construction Costs**

The Dakota County SWCD estimated construction costs at approximately \$4,600 per rainwater garden. The estimated construction cost for six rainwater gardens in the Delano Circle neighborhood is \$27,600.

### **2.2.2.5 Estimated Equipment Replacement Costs**

Rainwater gardens constructed through this program would function as passive bio-filtration systems, requiring no additional mechanical equipment. The curb cutout inlets to each rainwater garden would be replaced during the next scheduled street reconstruction project for this area.

Barr Footer: ArcGIS 10.3, 2015-06-30 18:39 File: I:\Client\Inver\_Grove\_Heights\Work\_Orders\2015\_PFA\_Application\Maps\Figures\Stormwater Project Plan\Figure\_2-4\_DelanoCircle\_RWG.mxd User: gdf



-  Proposed Project Area
-  Existing Storm Sewer
-  City of Inver Grove Heights



1 inch = 200 feet  
 Feet  
 0 100 200




FIGURE 2-4

DELANO CIRCLE RAINWATER GARDENS  
 PROJECT LOCATION  
 (SKYLINE VILLAGE SUBWATERSHED)  
 Stormwater Project Plan  
 City of Inver Grove Heights  
 Dakota County, MN

---

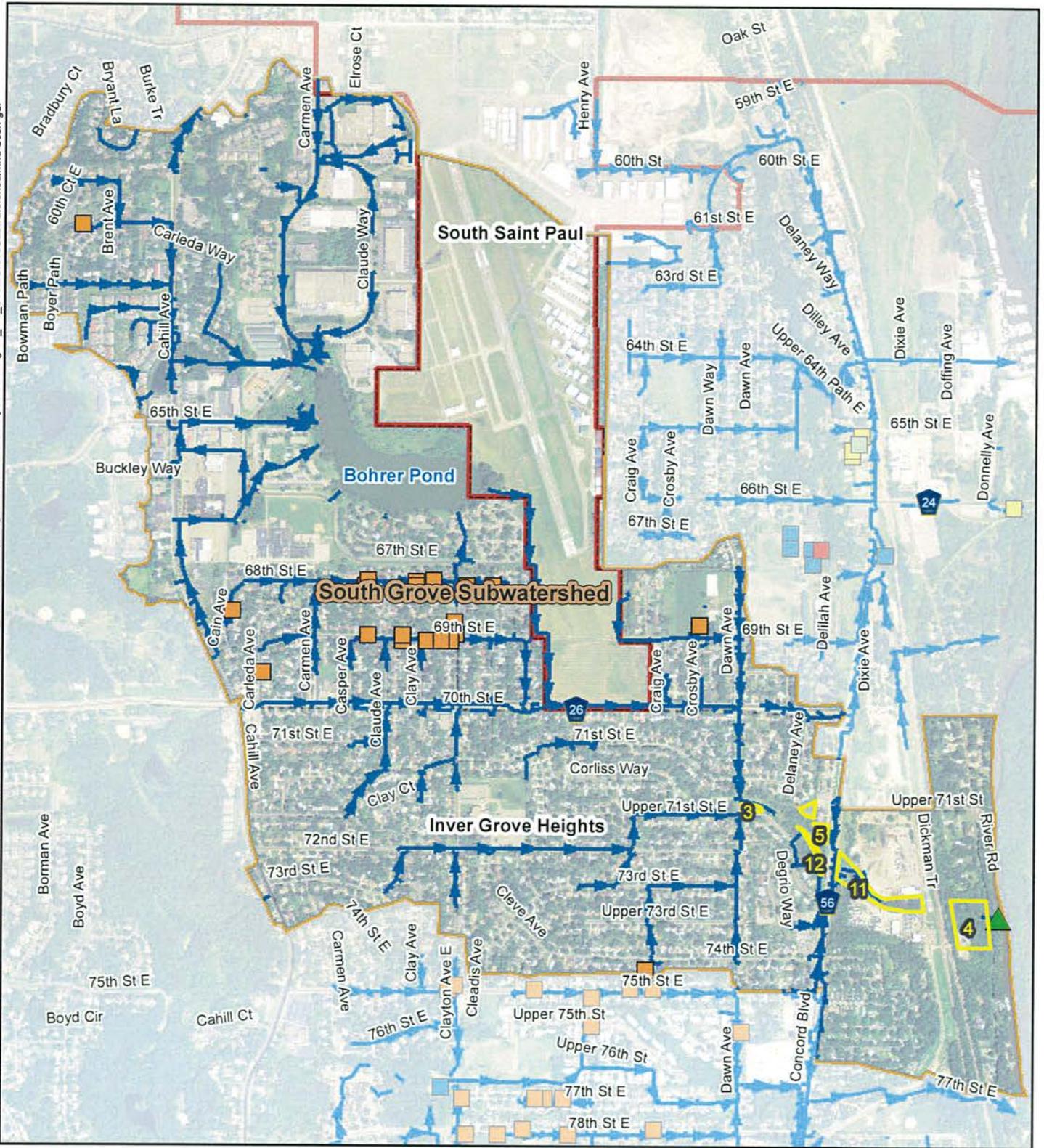
## 3.0 South Grove Subwatershed

### 3.1 Project Area

The South Grove subwatershed encompasses approximately 1,015 acres of mostly-developed land in Inver Grove Heights and South Saint Paul (Figure 3-1). The basin is primarily single family residential with some commercial developments in the northwest, and Fleming Field airport in South St. Paul. Bohrer Pond (DNR #19-34P), a City-designated lake, is the major water body in the basin.

Stormwater runoff from approximately 510 acres of The South Grove subwatershed flows to Bohrer Pond. Approximately 75% (380 acres) of the Bohrer Pond drainage lies within the City of Inver Grove Heights; the other 25% (130 acres) lies within the City of South St. Paul. Bohrer Pond drains via a gravity outlet to the 70<sup>th</sup> Street trunk storm sewer system. The 70<sup>th</sup> Street storm sewer system conveys stormwater east to Dawn Avenue, then south along Dawn Avenue where it discharges to the Dawn Avenue Ravine. The Dawn Avenue Ravine east of Dawn Avenue was re-graded as part of a 2005 drainage improvement project and riprap was installed to prevent erosion. Runoff re-enters the storm sewer system to pass under Concord Boulevard, then discharges to the Dickman Trail Ravine, flows beneath Dickman Trail and the railroad tracks through a cattle-pass, then flows through a ravine west of River Road before flowing under River Road through a culvert and discharging to the Mississippi River through a culvert at the 70<sup>th</sup> Street outfall.

Existing stormwater treatment facilities within the South Grove subwatershed include an infiltration basin near the intersection of 69<sup>th</sup> Street and Craig Court and street side rainwater gardens along 68<sup>th</sup> Street and 69<sup>th</sup> Street.



- |   |                            |   |                             |
|---|----------------------------|---|-----------------------------|
|  | Proposed Project Locations |  | 70th Street Outfall         |
|  | Existing Stormwater BMPs   |  | Existing Storm Sewer        |
|  | Basin                      |  | South Grove Subwatershed    |
|  | Dry Pond                   |  | City of Inver Grove Heights |
|  | Filtration                 |   |                             |
|  | Infiltration/Recharge      |   |                             |
|  | Underground System         |   |                             |



1 inch = 1250 feet

Feet  
0 625 1,250



FIGURE 3-1

**SOUTH GROVE SUBWATERSHED**  
Stormwater Project Plan  
City of Inver Grove Heights  
Dakota County, MN

---

## **3.2 Subprojects**

### **3.2.1 Dawn-Concord Dry Extended Detention Basin and Wet Extended Detention Basin**

#### **3.2.1.1 Project Location**

The proposed projects are located north of Dehrer Way, between Dawn Avenue and Concord Boulevard (Figure 3-2). The Dawn-Concord Ravine drops about 18 feet from Dawn to Concord, at a slope of approximately two percent. Approximately 900 acres of the South Grove watershed is tributary to the ravine. The Dawn-Concord ravine currently functions as a conveyance system for the 70<sup>th</sup> Street storm sewer system. During 2005 the ravine was re-graded and rip-rap was installed to prevent erosion. While this project stabilized the ravine, it was not intended to improve pollutant removal for runoff originating in the upper watershed. Because the ravine lies in city-owned land, the City has an opportunity to construct additional stormwater BMPs at this location. This project is Item 55 in the City's 3<sup>rd</sup> Gen WRMP, Table 5.1.

#### **3.2.1.2 Alternatives Considered**

Two types of BMPs were evaluated for this location: a wet extended detention basin and a dry extended detention basin. The wet extended basin alternative would be constructed on the southern side of the City-owned property just east of Dawn Avenue, at the upper end of the Dawn-Concord ravine. The proposed pond would capture sediment from approximately 116 acres of the Dawn-Concord Ravine contributing area. The pond's area would be approximately 0.3 acres, with a permanent pool volume of approximately 0.4 acre-feet and a live storage volume of approximately 0.7 acre-feet. The pond outlet would discharge at the head of the Dawn-Concord ravine.

A dry extended detention basin was evaluated at the foot of the Dawn-Concord ravine. A wet extended detention basin is not feasible at this location because the existing topography would restrict maintenance access to the pond and because there is not sufficient area to construct a permanent pool of the appropriate volume and depth for efficient pollutant removal. The dry extended detention alternative would include construction of a berm and restrictive outlet structure at Concord Boulevard. The restrictive outlet would reduce the discharge rate at Concord Boulevard and would improve the performance of future downstream BMPs located between Concord Boulevard and the Mississippi River. Decreasing inflow rates to the downstream BMPs would increase the detention time for a given event, allowing the BMPs to trap smaller particles.

#### **3.2.1.3 Estimated Pollutant Reduction**

Pollutant reductions for the Dawn-Concord ravine alternatives were estimated by simulating the proposed pond and its contributing area with the P8 water quality model. Weather conditions for the 10-year period from 2001-2010 were used as inputs for the simulation.

The P8 model showed that the wet extended detention basin alternative trapped 10 pounds per year of TP and 7,050 pounds per year of TSS for the 10-year simulation period. This represents a 56 percent TSS

---

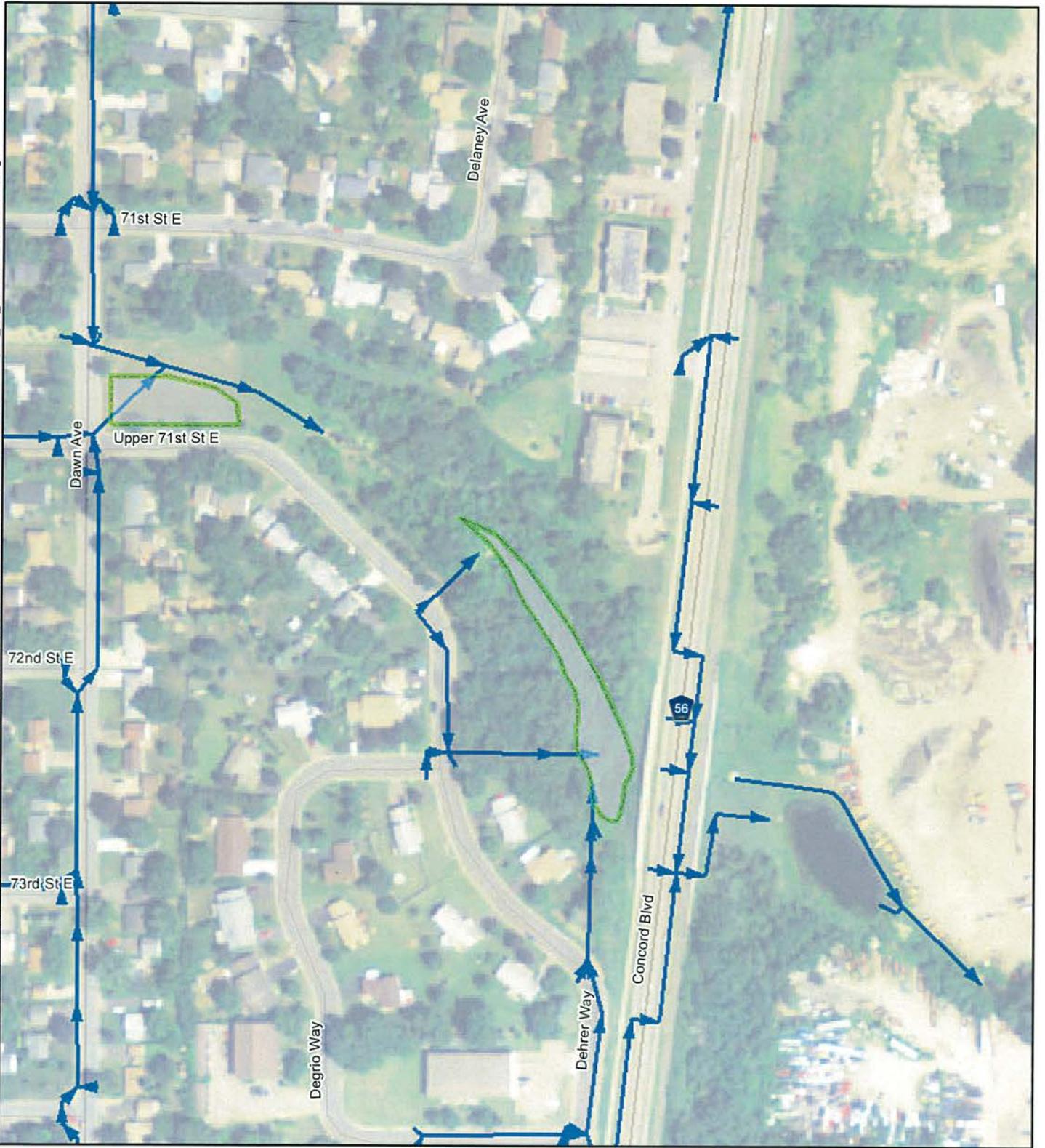
reduction for the watershed contributing to the proposed pond, and a 6.9 pound per acre (11 percent) TSS reduction for the South Grove subwatershed.

The dry extended detention basin was modeled as a BMP that would not trap pollutants, because sediment that accumulated during one event could be remobilized and washed downstream in the next event. The P8 model showed that the amount of TSS removed by a proposed wet pond downstream near the 70<sup>th</sup> Street outfall increased by 240 pounds per year (0.2 pounds per acre) when dry extended detention basins alternatives were simulated upstream at the Dawn-Concord ravine and the Concord-Dickman ravine. Phosphorus removal was not significantly improved by addition of the dry basin.

#### **3.2.1.4 Estimated Construction Costs**

The estimated construction costs for the Dawn-Concord ravine alternatives are \$250,000 for the wet extended detention basin and \$220,000 for the dry extended detention basin. Cost estimate details are shown in Table 3-1 and Table 3-2, respectively.

Barr Footer: ArcGIS 10.3, 2015-06-30 18:41 File: I:\Client\Inver\_Grove\_Heights\Work\_Orders\2015\_PFA\_Application\Maps\Figures\Stormwater Project Plan\Figure\_3-2\_DawnAveRavine.mxd User: gdf



-  Proposed Project Footprint
-  Existing Storm Sewer
-  City of Inver Grove Heights



1 inch = 200 feet

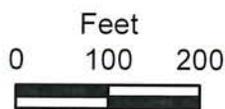


FIGURE 3-2

DAWN-CONCORD RAVINE  
PROJECT LOCATIONS  
(SOUTH GROVE SUBWATERSHED)  
Stormwater Project Plan  
City of Inver Grove Heights  
Dakota County, MN

**Table 3-1. Dawn-Concord Wet Extended Detention Basin Preliminary Opinion of Cost**

Item	Unit	Quantity	Unit Cost	Cost	Notes
Mobilization/Demobilization	LS	1	\$ 53,000.00	\$ 53,000.00	1,2
Traffic Control	LS	1	\$ 1,000.00	\$ 1,000.00	1,2
Erosion Control	LS	1	\$ 2,000.00	\$ 2,000.00	1,2
Inlet Protection	Each	2	\$ 200.00	\$ 400.00	1,2
Remove and Dispose of Existing Storm Sewer	LF	550	\$ 20.00	\$ 11,000.00	1,2
Sod Removal	SY	1,900	\$ 5.00	\$ 9,500.00	1,2
Excavation	CY	1,800	\$ 15.00	\$ 27,000.00	1,2
Excavation Off-site Disposal	CY	1,800	\$ 15.00	\$ 27,000.00	1,2
Steel Sheet Pile	SF	680	\$ 28.00	\$ 19,000.00	1,2
Grading	SY	1,900	\$ 2.00	\$ 3,800.00	1,2
Turf Re-Establishment (Restoration)	SF	5,000	\$ 1.00	\$ 5,000.00	1,2
48" RCP Storm Sewer (Excavation, Install, Backfill)	LF	120	\$ 189.00	\$ 22,700.00	1,2
48" FES	Each	2	\$ 2,000.00	\$ 4,000.00	1,2
36" RCP Storm Sewer (Excavation, Install, Backfill)	LF	25	\$ 110.00	\$ 2,800.00	1,2
36" FES	Each	1	\$ 1,417.00	\$ 1,400.00	1,2
60" Outlet Structure	Each	1	\$ 10,000.00	\$ 10,000.00	1,2
Riprap	CY	12	\$ 130.00	\$ 1,600.00	1,2
Temporary Fence Installation	LF	500	\$ 8.00	\$ 4,000.00	1,2
<b>Subtotal Construction Cost</b>				<b>\$ 170,000.00</b>	<b>1,3</b>
Contingency (15%)			15%	\$ 30,000.00	1,3
Permitting, Engineering, and Design (15%)			15%	\$ 30,000.00	1,3
Construction Observation (10%)			10%	\$ 20,000.00	1,3
<b>Total Cost</b>				<b>\$ 250,000.00</b>	<b>1,3,4</b>

(1) This is a point estimate for 2015, and could vary due to cost and design changes.

(2) Rounded to the nearest \$100.

(3) Rounded up to the nearest \$10,000.

(4) Estimated total project cost does not include costs of potential contamination at the site

**Table 3-2. Dawn-Concord Dry Extended Detention Basin Preliminary Opinion of Cost**

Item	Unit	Quantity	Unit Cost	Cost	Notes
Mobilization/Demobilization	LS	1	\$ 22,000.00	\$ 22,000.00	1,2
Erosion Control	LS	1	\$ 2,000.00	\$ 2,000.00	1,2
Remove and Dispose of Existing Storm Sewer	LF	160	\$ 20.00	\$ 3,200.00	1,2
Clearing and Grubbing	SY	5,000	\$ 5.00	\$ 25,000.00	1,2
Control of Water	LS	1	\$ 2,000.00	\$ 2,000.00	1,2
Construct Berm (off-site borrow)	CY	500	\$ 15.00	\$ 7,500.00	1,2
Aggregate seep material	CY	30	\$ 18.00	\$ 500.00	1,2
Compaction	CY	530	\$ 1.50	\$ 800.00	1,2
Grading	SY	5000	\$ 2.00	\$ 10,000.00	1,2
Turf Re-Establishment (Restoration)	SF	43,560	\$ 1.00	\$ 43,600.00	1,2
60" Outlet Structure	Each	1	\$ 10,000.00	\$ 10,000.00	1,2
18" RCP Storm Sewer (Excavation, Install, Backfill)	LF	25	\$ 43.00	\$ 1,100.00	1,2
48" FES	Each	1	\$ 2,000.00	\$ 2,000.00	1,2
Riprap	CY	12	\$ 130.00	\$ 1,600.00	1,2
Temporary Fence Installation	LF	1,000	\$ 8.00	\$ 8,000.00	1,2
<b>Subtotal Construction Cost</b>				<b>\$ 140,000.00</b>	<b>1,3</b>
Contingency (15%)			15%	\$ 30,000.00	1,3
Permitting, Engineering, and Design (15%)			15%	\$ 30,000.00	1,3
Construction Observation (10%)			10%	\$ 20,000.00	1,3
<b>Total Cost</b>				<b>\$ 220,000.00</b>	<b>1,3,4</b>

(1) This is a point estimate for 2015, and could vary due to cost and design changes.

(2) Rounded to the nearest \$100.

(3) Rounded up to the nearest \$10,000.

(4) Estimated total project cost does not include costs of potential contamination at the site

---

## **3.2.2 Dickman Trail Storm Sewer Improvements**

### **3.2.2.1 Project Location**

The proposed project is located in the Concord-Dickman ravine, which cuts through an industrial area of the South Grove subwatershed, east of Dehrer Way and between Concord Boulevard and Dickman Trail (Figure 3-3). There is an existing Dakota County wet extended detention basin at the west end of the project area that receives runoff from catch basins located on Concord Boulevard. Approximately 1,000 acres of the South Grove subwatershed is tributary to the ravine. This project is Item 55 in the City's 3<sup>rd</sup> Gen WRMP, Table 5.1.

### **3.2.2.2 Alternatives Considered**

The existing basin at the upper end of Dickman Trail ravine treats local stormwater runoff from Concord Boulevard. The proposed project would re-grade the area surrounding the existing basin and construct additional stormwater pipe infrastructure to increase the volume of water flowing to the basin. The proposed project would also re-grade the lower portion of the ravine to construct a dry extended-detention basin with a restrictive outlet to decrease flow rates at Dickman Trail. The pond outlet would have an emergency overflow outlet to allow high flows to pass into the existing storm sewer system at Dickman Trail.

### **3.2.2.3 Estimated Pollutant Reduction**

Pollutant reductions for the Concord-Dickman ravine dry extended detention basin were estimated by simulating the proposed pond and its contributing area with the P8 water quality model. Weather conditions for the 10-year period from 2001-2010 were used as inputs for the simulation.

The dry extended detention basin was modeled as a BMP that would not trap pollutants, because sediment that accumulated during one event could be remobilized and washed downstream in the next event. The P8 model showed that the amount of TSS removed by a proposed wet pond downstream near the 70<sup>th</sup> Street outfall increased by 240 pounds per year (0.2 pounds per acre) when dry extended detention basin alternatives were simulated upstream at the Dawn-Concord ravine and the Concord-Dickman ravine. Removal of TP was not significantly improved by inclusion of the dry basin.

### **3.2.2.4 Estimated Construction Costs**

The estimated construction costs for modifications to the existing wet extended detention basin are unknown at this time due to insufficient project definition. The estimated construction costs for the Concord-Dickman ravine dry detention basin is \$210,000. Cost estimate details are shown in Table 3-3. Note that site testing will likely locate some contamination due to nearby industrial activities. These costs have not been included in estimates because the scope of cleanup is unknown at this time.



-  Proposed Project Footprint
-  Existing Storm Sewer
-  City of Inver Grove Heights

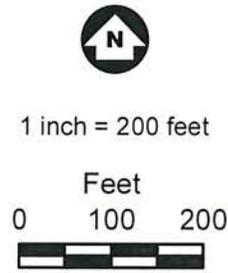


FIGURE 3-3

DICKMAN TRAIL STORM SEWER  
IMPROVEMENTS PROJECT LOCATION  
(SOUTH GROVE SUBWATERSHED)  
Stormwater Project Plan  
City of Inver Grove Heights  
Dakota County, MN

**Table 3-3. Concord-Dickman Ravine Dry Extended Detention Basin Preliminary Opinion of Cost**

Item	Unit	Quantity	Unit Cost	Cost	Notes
Mobilization/Demobilization	LS	1	\$ 22,000.00	\$ 22,000.00	1,2
Erosion Control	LS	1	\$ 2,000.00	\$ 2,000.00	1,2
Remove and Dispose of Existing Storm Sewer	LF	160	\$ 20.00	\$ 3,200.00	1,2
Clearing and Grubbing	SY	5,000	\$ 5.00	\$ 25,000.00	1,2
Control of Water	LS	1	\$ 2,000.00	\$ 2,000.00	1,2
Construct Berm (off-site borrow)	CY	500	\$ 15.00	\$ 7,500.00	1,2
Aggregate seep material	CY	30	\$ 18.00	\$ 500.00	1,2
Compaction	CY	530	\$ 1.50	\$ 800.00	1,2
Grading	SY	5,000	\$ 2.00	\$ 10,000.00	1,2
Turf Re-Establishment (Restoration)	SF	43,560	\$ 1.00	\$ 43,600.00	1,2
60" Outlet Structure	Each	1	\$ 10,000.00	\$ 10,000.00	1,2
18" RCP Storm Sewer (Excavation, Install, Backfill)	LF	25	\$ 43.00	\$ 1,100.00	1,2
48" FES	Each	1	\$ 2,000.00	\$ 2,000.00	1,2
Riprap	CY	12	\$ 130.00	\$ 1,600.00	1,2
Temporary Fence Installation	LF	1,000	\$ 8.00	\$ 8,000.00	1,2
<b>Subtotal Construction Cost</b>				<b>\$ 140,000.00</b>	<b>1,3</b>
Contingency (15%)			15%	\$ 20,000.00	1,3
Permitting, Engineering, and Design (15%)			15%	\$ 30,000.00	1,3
Construction Observation (10%)			10%	\$ 20,000.00	1,3
<b>Total Cost</b>				<b>\$ 210,000.00</b>	<b>1,3, 4</b>

(1) This is a point estimate for 2015, and could vary due to cost and design changes.

(2) Rounded to the nearest \$100.

(3) Rounded up to the nearest \$10,000.

(4) Estimated total project cost does not include costs of potential contamination at the site

---

### **3.2.3 River Road Wet Extended Detention Basin**

#### **3.2.3.1 Project Location**

The proposed project is located on city-owned land between Dickman Trail and River Road, approximately 250 feet upstream of the 70<sup>th</sup> Street outfall to the Mississippi River (Figure 3-4). A culvert at Dickman Trail conveys stormwater flow to an existing ravine at the project location, which in turn discharges through a culvert at River Road to the 70<sup>th</sup> Street outfall. This project is applicable to Item 39 in the City's 3<sup>rd</sup> Gen WRMP, Table 5.1.

#### **3.2.3.2 Alternatives Considered**

The existing ravine currently functions as a conveyance system for the 70<sup>th</sup> Street storm sewer system. Because the ravine lies in city-owned land, the City has an opportunity to construct additional stormwater BMPs. The proposed project would excavate and grade the land around the ravine to create a wet extended detention basin with a permanent pool to capture sediment. The proposed pond's area would be approximately 1.3 acres, with a permanent pool volume of approximately 7.8 acre-feet and a live storage volume of approximately 5.1 acre-feet. The pond outlet would have an emergency overflow outlet to allow high flows to discharge into the existing culvert at River Road.

The proposed project site encompasses an area which is currently used by the City's Public Works Department for maintenance activities. Continued use of this site would likely require the project footprint to be reduced, resulting in a smaller pollutant load reduction and a lower cost.

#### **3.2.3.3 Estimated Pollutant Reduction**

Pollutant reductions for the River Road stormwater management basin were estimated by simulating the proposed pond and its contributing area with the P8 water quality model. Weather conditions for the 10-year period from 2001-2010 were used as inputs for the simulation. The basin was modeled both with and without the potential upstream BMPs at the Dawn-Concord and Concord-Dickman ravines.

Due to site constraints, the pond would be undersized to fully treat runoff from its large contributing area at the goal of 85 percent removal of TSS. The P8 model showed that without upstream BMPs, the proposed pond trapped on average approximately 36,300 pounds per year of TSS and 50 pounds per year of TP for the 10-year simulation period. This represents a 54 percent TSS reduction for the watershed contributing to the proposed pond, and a 36 pound per acre (45 percent) TSS reduction for the South Grove subwatershed.

#### **3.2.3.4 Estimated Construction Costs**

The estimated construction cost for the River Road wet extended detention basin is \$900,000. Cost estimate details are shown in Table 3-5.



FIGURE 3-4

-  70th Street Outfall
-  Proposed Project Footprint
-  Existing Storm Sewer
-  City of Inver Grove Heights



1 inch = 200 feet

Feet

0 100 200



RIVER ROAD WET EXTENDED  
DETENTION BASIN PROJECT LOCATION  
(SOUTH GROVE SUBWATERSHED)  
Stormwater Project Plan  
City of Inver Grove Heights  
Dakota County, MN

**Table 3-4. River Road Wet Extended Detention Basin Preliminary Opinion of Cost**

Item	Unit	Quantity	Unit Cost	Cost	Notes
Mobilization/Demobilization	LS	1	\$ 57,000.00	\$ 57,000.00	1,2
Traffic Control	LS	1	\$ 1,000.00	\$ 1,000.00	1,2
Erosion Control	LS	1	\$ 2,000.00	\$ 2,000.00	1,2
Inlet Protection	Each	1	\$ 200.00	\$ 200.00	1,2
Remove and Dispose of Existing Storm Sewer	LF	50	\$ 20.00	\$ 1,000.00	1,2
Clearing and Grubbing	SY	6,300	\$ 5.00	\$ 31,500.00	1,2
Excavation	CY	15,000	\$ 15.00	\$ 225,000.00	1,2
Excavation Off-site Disposal	CY	15,000	\$ 15.00	\$ 225,000.00	1,2
Grading	SY	6,300	\$ 2.00	\$ 12,600.00	1,2
Turf Re-Establishment (Restoration)	SF	20,000	\$ 1.00	\$ 20,000.00	1,2
60" Outlet Structure	Each	1	\$ 10,000.00	\$ 10,000.00	1,2
48" RCP Storm Sewer (Excavation, Install, Backfill)	LF	120	\$ 189.00	\$ 22,680.00	1,2
48" FES	Each	1	\$ 2,000.00	\$ 2,000.00	1,2
Riprap	CY	8	\$ 130.00	\$ 1,040.00	1,2
Temporary Fence Installation	LF	1,000	\$ 8.00	\$ 8,000.00	1,2
<b>Subtotal Construction Cost</b>				<b>\$ 620,000.00</b>	<b>1,3</b>
Contingency (15%)			15%	\$ 100,000.00	1,3
Permitting, Engineering, and Design (15%)			15%	\$ 110,000.00	1,3
Construction Observation (10%)			10%	\$ 70,000.00	1,3
<b>Total Cost</b>				<b>\$ 900,000.00</b>	<b>1,3,4,5</b>

(1) This is a point estimate for 2015, and could vary due to cost and design changes.

(2) Rounded to the nearest \$100.

(3) Rounded up to the nearest \$10,000.

(4) Estimated total project cost does not include costs of potential contamination at the site

---

### **3.2.4 7125 Concord Infiltration Basins**

#### **3.2.4.1 Project Location**

The proposed project is located on city-owned land east of Concord Boulevard, just north of the Concord Ravine (Figure 3-5). This project is Item 56 in the City's 3<sup>rd</sup> Gen WRMP, Table 5.1.

#### **3.2.4.2 Alternatives Considered**

Stormwater from the multi-unit residential buildings to the north flows overland to the south into the adjacent ravine. The proposed project would create two sedimentation and infiltration basins and grade the land to the north to direct flow to the basins. The proposed combined basin area would be 0.6 acres, which would infiltrate approximately 0.5 acre-feet of water. Excess stormwater would overflow to the south into the Concord ravine.

#### **3.2.4.3 Estimated Pollutant Reduction**

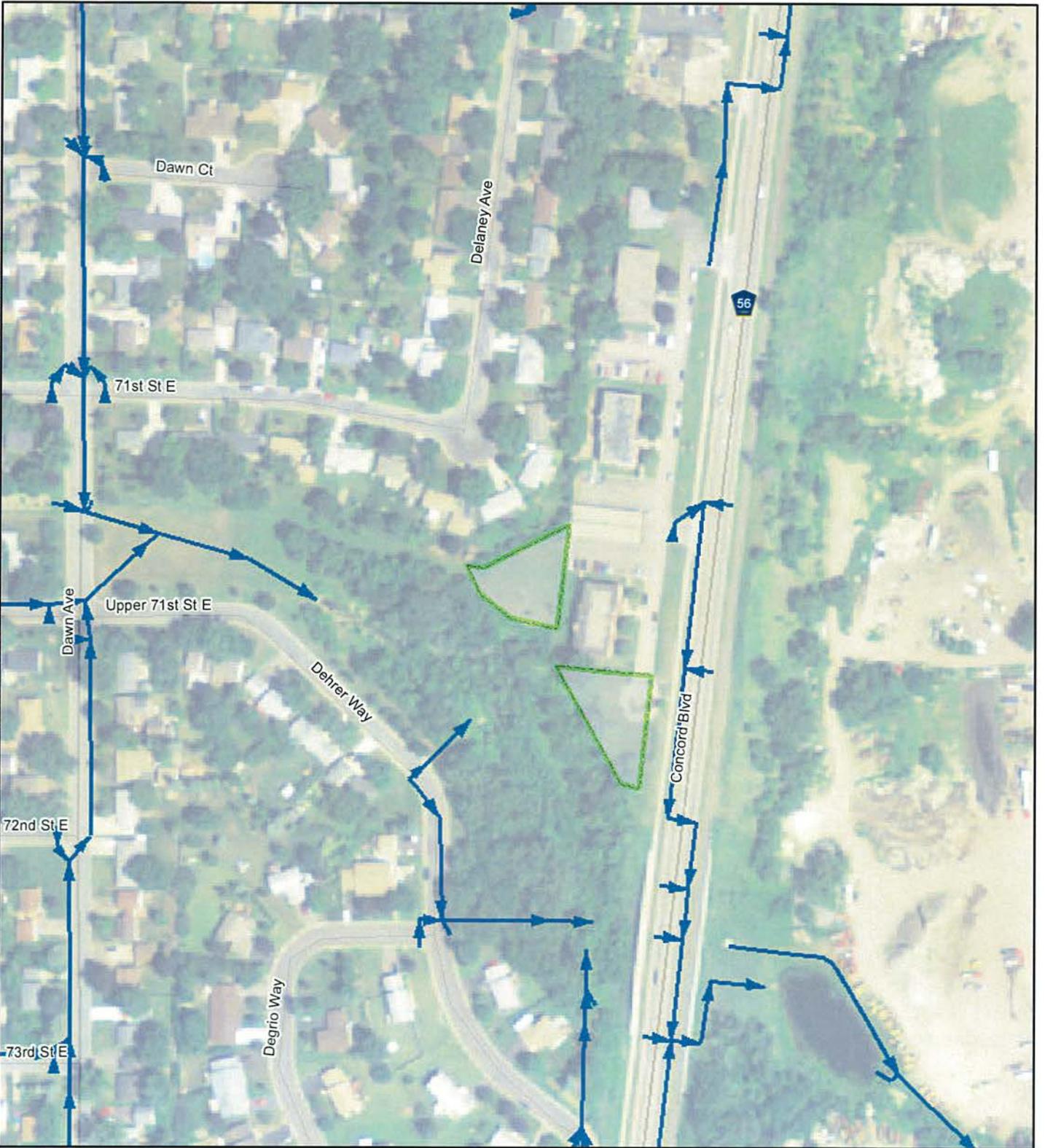
Pollutant reductions for the River Road stormwater management basin were estimated by simulating the proposed pond and its contributing area with the P8 water quality model. Weather conditions for the 10-year period from 2001-2010 were used as inputs for the simulation.

The proposed infiltration basins trapped on average approximately 1,570 pounds per year of TSS and 5 pounds per year of TP for the 10-year simulation period. This represents a 100 percent TSS reduction for the watershed contributing to the proposed basins, and a 1.5 pound per acre (2 percent) TSS reduction for the South Grove subwatershed.

#### **3.2.4.4 Estimated Construction Costs**

The estimated construction cost for the 7125 Concord infiltration basins is \$170,000. This cost does not include testing for or remediation of any contaminated soils or high elevation of bedrock, either or both of which may be present at the project site. Soil testing will be required before the project reaches final design. Cost estimate details are shown in Table 3-5.

Barr Footer: ArcGIS 10.3, 2015-10-22 11:09 File: I:\Client\Inver\_Grove\_Heights\Work\_Orders\2015\_PFA\_Application\Maps\Figures\Stormwater Project Plan\Figure\_4-7\_64th\_and\_Crosby\_Basin.mxd User: gdf



-  Proposed Project Footprint
-  Existing Storm Sewer
-  City of Inver Grove Heights

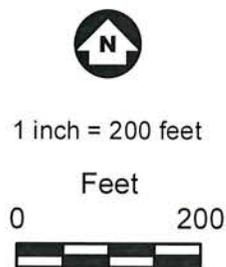


FIGURE 3-5

7125 CONCORD INFILTRATION BASINS  
PROJECT LOCATION  
(SOUTH GROVE SUBWATERSHED)  
Stormwater Project Plan  
City of Inver Grove Heights  
Dakota County, MN

**Table 3-5. 7125 Concord Infiltration Basins Preliminary Opinion of Cost**

Item	Unit	Quantity	Unit Cost	Cost	Notes
Mobilization/Demobilization	LS	1	\$ 9,100.00	\$ 9,100.00	1,2
Traffic Control	LS	1	\$ 1,000.00	\$ 1,000.00	1,2
Erosion Control	LS	1	\$ 2,000.00	\$ 2,000.00	1,2
Inlet Protection	Each	4	\$ 200.00	\$ 800.00	1,2
Excavation	CY	970	\$ 15.00	\$ 14,600.00	1,2
Excavation Off-site Disposal	CY	970	\$ 15.00	\$ 14,600.00	1,2
Grading	SY	2900	\$ 2.00	\$ 5,800.00	1,2
Planting Soil	CY	290	\$ 40.00	\$ 11,600.00	1,2
Plantings	SF	3050	\$ 3.00	\$ 9,200.00	1,2
Turf Re-Establishment (Restoration)	SF	30500	\$ 1.00	\$ 30,500.00	1,2
12" FES	Each	2	\$ 481.00	\$ 1,000.00	1,2
Riprap	CY	4	\$ 130.00	\$ 520.00	1,2
<b>Subtotal Construction Cost</b>				<b>\$ 110,000.00</b>	<b>1,3</b>
Contingency (15%)			15%	\$ 20,000.00	1,3
Permitting, Engineering, and Design (15%)			15%	\$ 20,000.00	1,3
Construction Observation (10%)			10%	\$ 20,000.00	1,3
<b>Total Cost</b>				<b>\$ 170,000.00</b>	<b>1,3,4</b>

(1) This is a point estimate for 2015, and could vary due to cost and design changes.

(2) Rounded to the nearest \$100.

(3) Rounded up to the nearest \$10,000.

(4) Estimated total project cost does not include costs of potential contamination at the site

---

## 4.0 Old Village Subwatershed

### 4.1 Project Area

The Old Village subwatershed encompasses approximately 470 acres of mostly-developed land. The majority of the Old Village subwatershed west of Concord Boulevard drains to storm sewer laterals that feed into a single trunk line at Concord Avenue and Delilah Avenue, which then passes under Concord Boulevard and conveys flow eastward to the 64<sup>th</sup> Street outfall at the Mississippi River (Figure 4-1). The land use in the Old Village subwatershed is primarily single-family residential with some parkland and industrial land use.

Existing stormwater treatment facilities include filtration facilities at a commercial development located at 65<sup>th</sup> Street and Concord Boulevard, and wet extended detention basins located at a multi-family development located at 68<sup>th</sup> Street and Delilah Avenue.



---

## **4.2 Subprojects**

### **4.2.1 Dawn Way Rainwater Gardens**

#### **4.2.1.1 Project Location**

The proposed project is located in a neighborhood of approximately 60 acres centered around Crosby Avenue and bounded by 63<sup>rd</sup> Street to the north, 67<sup>th</sup> Street to the south, Dawn Way to the east, and Craig Avenue to the west (Figure 4-2). The project area drains to several storm sewer laterals that flow east to empty into the 64<sup>th</sup> Street storm sewer trunk system at Concord Boulevard. According to the City's current CIP plan, which is modified from time to time to meet changing priorities and budgets, the streets in this neighborhood are scheduled to be resurfaced during 2016. This project is applicable to Item 56 in the City's 3<sup>rd</sup> Gen WRMP, Table 5.1.

#### **4.2.1.2 Alternatives Considered**

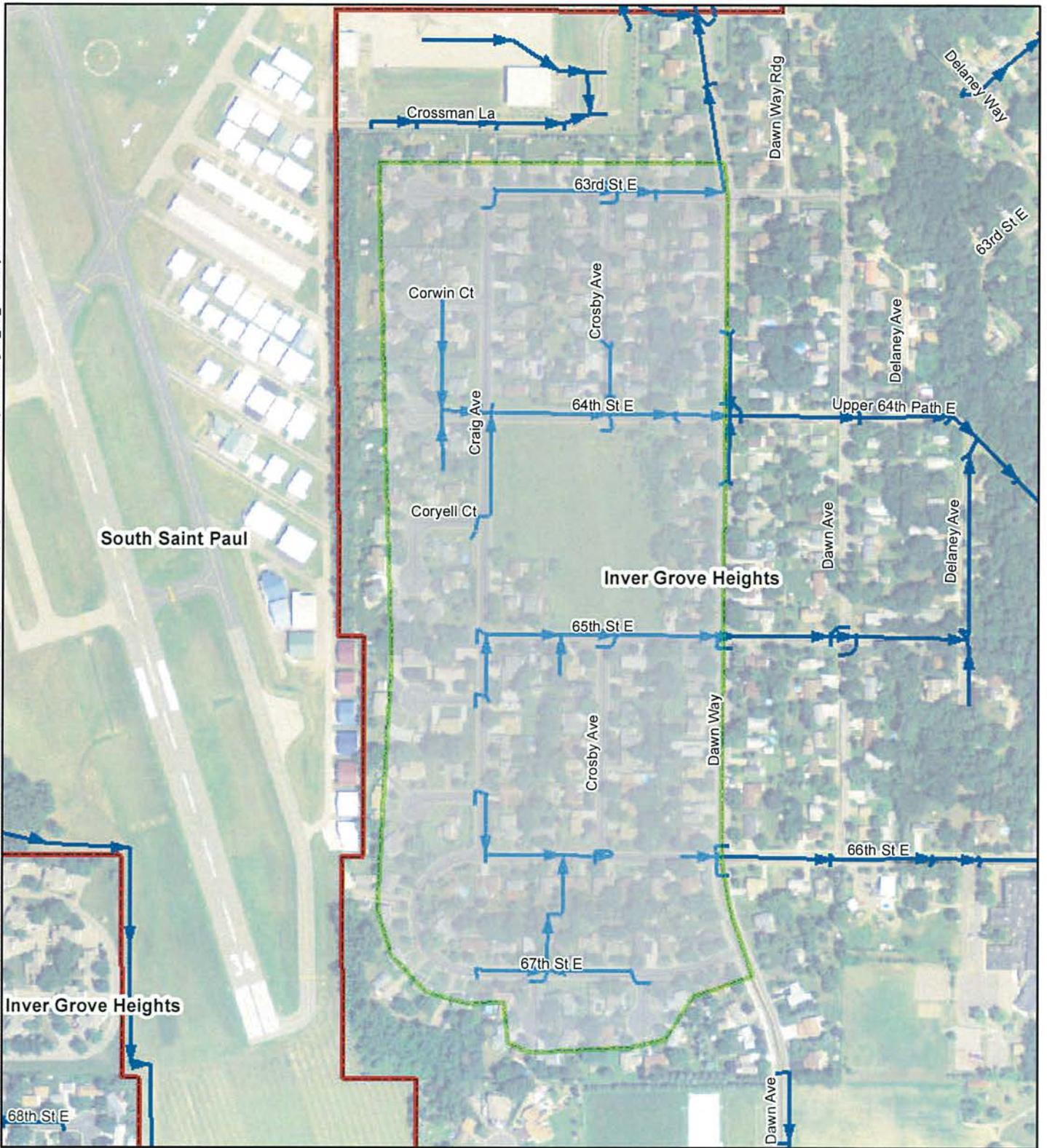
As part of its regularly scheduled pavement maintenance program, the City of Inver Grove Heights solicits landowners who are willing to have a rainwater garden constructed on their property. Rainwater gardens are particularly suitable as "retrofit" BMPs which can be constructed in previously-developed commercial and residential areas. The rainwater garden consists of a shallow, vegetated depression excavated adjacent to the rebuilt street, with curb cutouts to funnel runoff from the street to the rainwater garden. Based on landowner response to similar projects within the city, it is estimated that approximately twenty rainwater gardens would likely be constructed in the project area.

#### **4.2.1.3 Estimated Pollutant Reduction**

The Dakota County SWCD estimated pollutant reductions using the WinSLAMM version 9.4.0 pollutant load model. Based on that analysis, an average rainwater garden would reduce TSS by 141 pounds per year, TP by 0.34 pounds per year, and runoff volume by 0.15 acre-feet per year. The combined annual pollutant reduction for twenty rainwater gardens is 2,820 pounds per year of TSS and 7.4 pounds per year of TP, which represents a six pound per acre (four percent) TSS reduction for the Old Village subwatershed.

#### **4.2.1.4 Estimated Construction Costs**

The Dakota County SWCD estimated construction costs at approximately \$4,600 per rainwater garden. The estimated construction cost for twenty rainwater gardens in the Dawn Way neighborhood is \$92,000.



-  Proposed Project Location
-  Existing Storm Sewer
-  City of Inver Grove Heights



1 inch = 400 feet  
Feet  
0 200 400



FIGURE 4-2

DAWN WAY RAINWATER GARDENS  
PROJECT LOCATION  
(OLD VILLAGE SUBWATERSHED)  
Stormwater Project Plan  
City of Inver Grove Heights  
Dakota County, MN

---

## **4.2.2 64<sup>th</sup> Street and Concord Avenue Stormwater Management Basins**

### **4.2.2.1 Project Location**

The proposed project is located on a City-owned parcel of undeveloped land northeast of the intersection of 65<sup>th</sup> Street East and Concord Boulevard (Figure 4-3). A 48-inch diameter storm sewer trunk system runs along Concord Avenue to the west, separated from the site by a narrow band of industrial properties and a railroad line. A 54-inch diameter storm sewer trunk system carrying stormwater runoff from approximately 277 acres of the Old Village subwatershed runs along the south border of the project site before discharging to the Mississippi River at the 64<sup>th</sup> Street outfall. The project site lies within the City's Heritage Park development site (Figure 4-4). This project is applicable to Item 39 and Item 54 in the City's 3<sup>rd</sup> Gen WRMP, Table 5.1.

### **4.2.2.2 Alternatives Considered**

The proposed project would be a system of two wet extended detention stormwater basins. The basin system would consist of a wet extended detention forebay of approximately 0.2 acres and a wet extended detention basin of approximately 0.4 acres. Stormwater from approximately 104 acres of the Old Village subwatershed would be rerouted out of the 48-inch Concord storm sewer trunk system, piped under the railroad to a ditch that discharges to the forebay, then routed through the larger second basin. An outlet structure in the second basin would discharge the treated water south to the 54-inch storm sewer trunk system. The system of basins would provide pre-treatment for large particles in the forebay and treatment for smaller particles in the second basin. The basins would be designed to maximize the flow length of stormwater through the system, providing additional detention time for particle settling. The combined area of the basins would be 0.6 acres, and the combined permanent pool and flood pool volumes would be 0.8 acre-feet and 1.2 acre-feet, respectively.

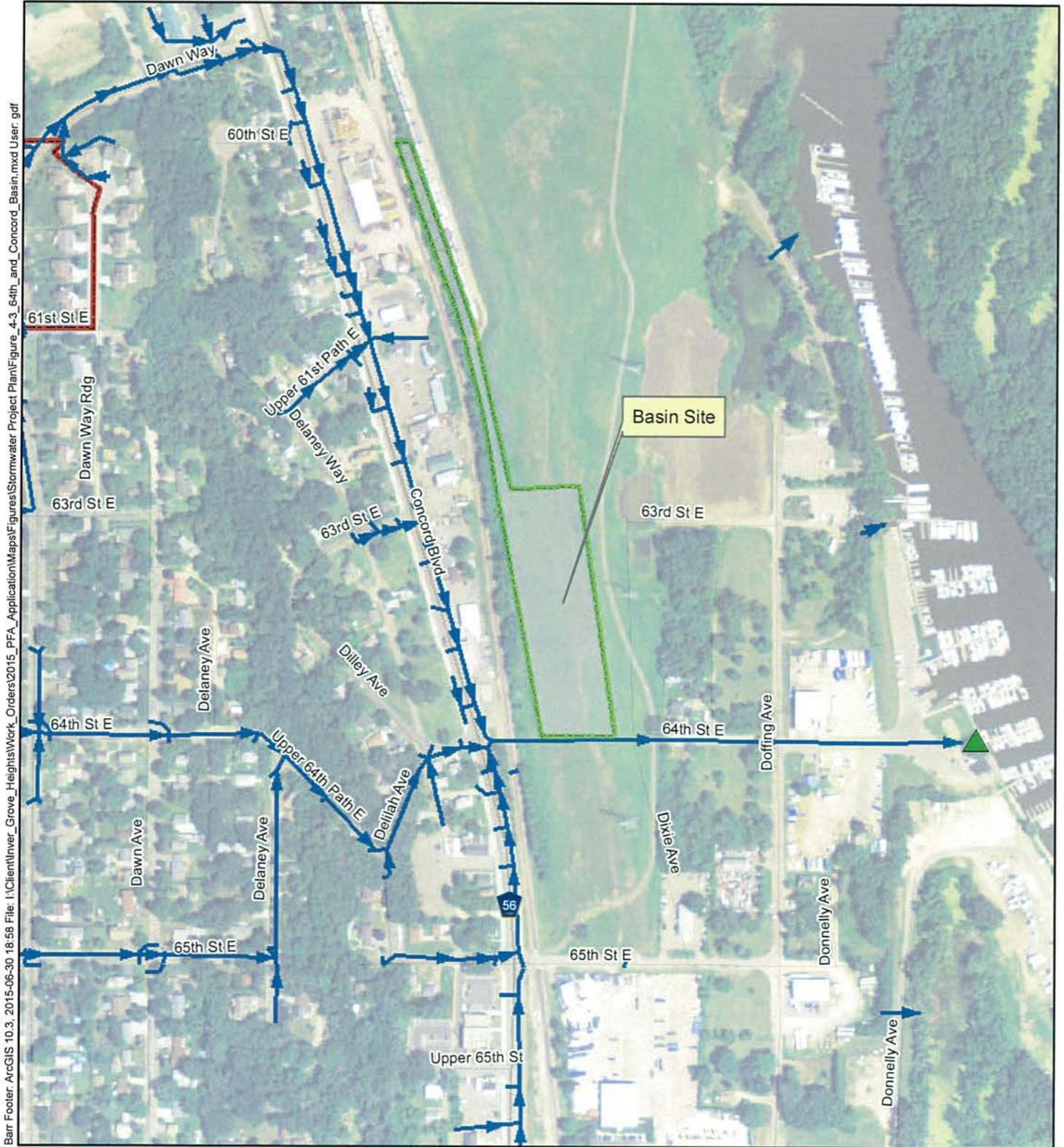
### **4.2.2.3 Estimated Pollutant Reduction**

Pollutant reductions for the 64<sup>th</sup> and Concord stormwater management basins were estimated by simulating the proposed basins and their contributing area with the P8 water quality model. Weather conditions for the 10-year period from 2001-2010 were used as inputs for the simulation.

The P8 model showed that the proposed basins trapped on average approximately 10,500 pounds per year of TSS and 17 pounds per year of TP for the 10-year simulation period. This represents a 67 percent reduction of TSS for the watershed contributing to the proposed pond, and a 22.3 pound per acre (27 percent) reduction for the Old Village subwatershed.

### **4.2.2.4 Estimated Construction Costs**

The estimated construction cost for the 64<sup>th</sup> and Concord wet extended basins is \$380,000. This cost does not include testing for or remediation of any contaminated soils or high elevation of bedrock, either or both of which may be present at the project site. Soil testing will be required before the project reaches final design. Cost estimate details are shown in Table 4-1.



Barr Footer: ArcGIS 10.3, 2015-06-30 18:58 File: I:\Client\Inver\_Grove\_Heights\Work\_Orders\2015\_PFA\_Application\Maps\Figures\Stormwater Project Plan\Figure\_4-3\_64th\_and\_Concord\_Basin.mxd User: gdf

-  64th Street Outfall
-  Proposed Project Footprint
-  Existing Storm Sewer
-  City of Inver Grove Heights

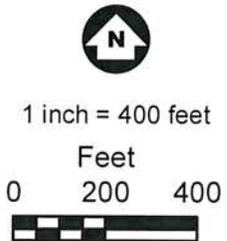
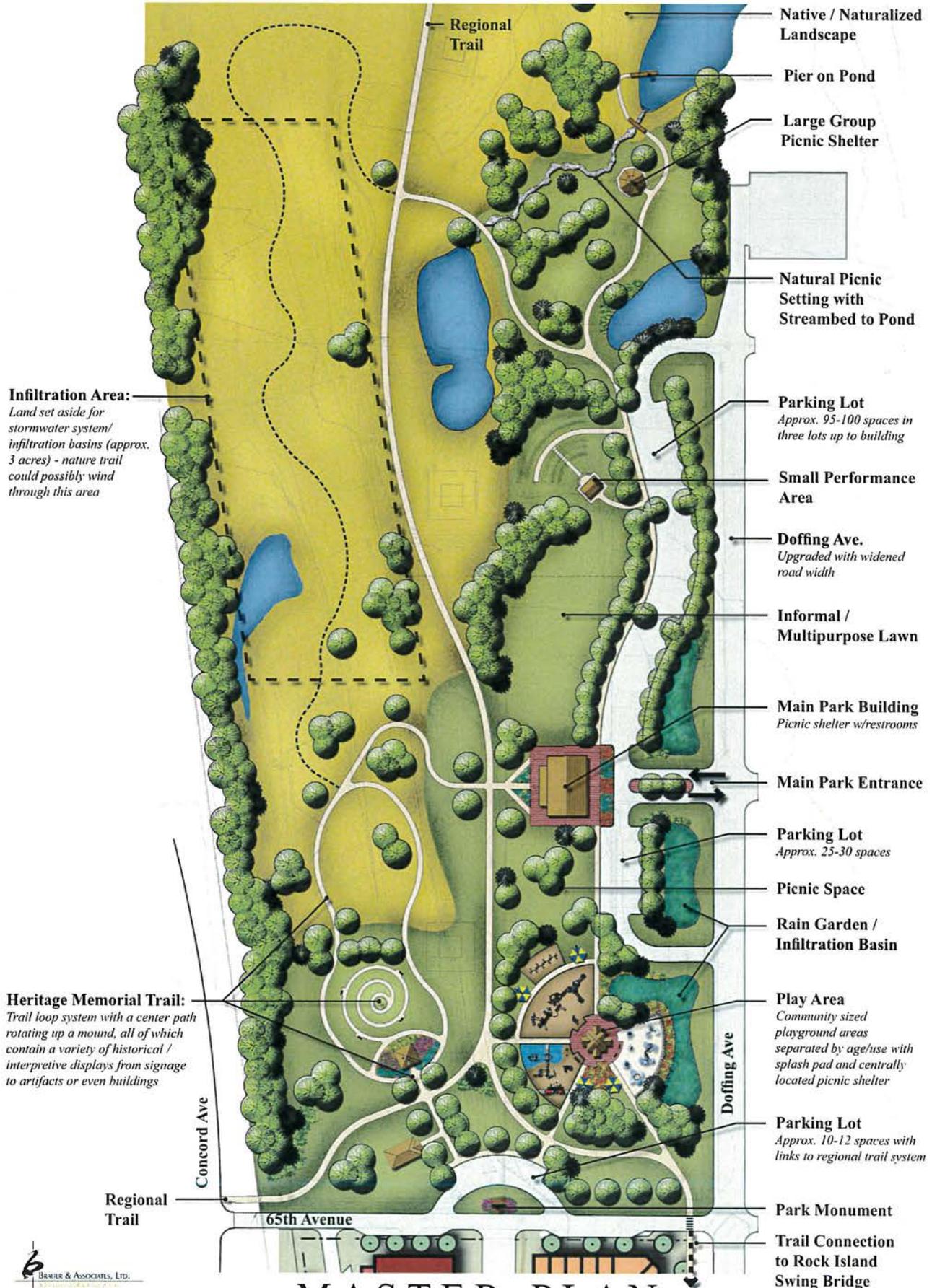
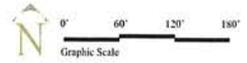


FIGURE 4-3

64TH AND CONCORD WET EXTENDED  
 DETENTION BASIN PROJECT LOCATION  
 (OLD VILLAGE SUBWATERSHED)  
 Stormwater Project Plan  
 City of Inver Grove Heights  
 Dakota County, MN



# Heritage Village Park ON THE MISSISSIPPI RIVER



**Infiltration Area:**  
Land set aside for stormwater system/ infiltration basins (approx. 3 acres) - nature trail could possibly wind through this area

**Heritage Memorial Trail:**  
Trail loop system with a center path rotating up a mound, all of which contain a variety of historical / interpretive displays from signage to artifacts or even buildings

- Native / Naturalized Landscape
- Pier on Pond
- Large Group Picnic Shelter
- Natural Picnic Setting with Streambed to Pond
- Parking Lot  
Approx. 95-100 spaces in three lots up to building
- Small Performance Area
- Doffing Ave.  
Upgraded with widened road width
- Informal / Multipurpose Lawn
- Main Park Building  
Picnic shelter w/restrooms
- Main Park Entrance
- Parking Lot  
Approx. 25-30 spaces
- Picnic Space
- Rain Garden / Infiltration Basin
- Play Area  
Community sized playground areas separated by age/use with splash pad and centrally located picnic shelter
- Parking Lot  
Approx. 10-12 spaces with links to regional trail system
- Park Monument
- Trail Connection to Rock Island Swing Bridge

**BRAUER & ASSOCIATES, LTD.**  
701 Kewaunee South - Suite 200  
Menomonee Falls, WI 53051  
Tel: 763.541.4300  
Project #1702-220

## MASTER PLAN

Figure 4-4  
Heritage Park Concept Plan

#### 4.2.2.5 Estimated Construction Costs

Table 4-1. 64<sup>th</sup> and Concord Wet Extended Detention Basin Preliminary Opinion of Cost

Item	Unit	Quantity	Unit Cost	Cost	Notes
Mobilization/Demobilization	LS	1	\$ 31,000.00	\$ 31,000.00	1,2
Traffic Control	LS	1	\$ 1,000.00	\$ 1,000.00	1,2
Erosion Control	LS	1	\$ 2,000.00	\$ 2,000.00	1,2
Inlet Protection	Each	2	\$ 200.00	\$ 400.00	1,2
Sod Removal	SY	3,000	\$ 5.00	\$ 15,000.00	1,2
Clearing and Grubbing	SY	4,800	\$ 5.00	\$ 24,000.00	1,2
Excavation	CY	3,200	\$ 15.00	\$ 48,000.00	1,2
Excavation Off-site Disposal	CY	3,200	\$ 15.00	\$ 48,000.00	1,2
Grading	SY	3,000	\$ 2.00	\$ 6,000.00	1,2
Turf Re-Establishment (Restoration)	SF	10,000	\$ 1.00	\$ 10,000.00	1,2
24" RCP Storm Sewer (Excavation, Install, Backfill)	LF	750	\$ 54.00	\$ 40,500.00	1,2
24" FES	Each	1	\$ 715.00	\$ 715.00	1,2
Connect Storm Sewer to Existing Manhole	Each	1	\$ 2,000.00	\$ 2,000.00	1,2
18" RCP Storm Sewer (Excavation, Install, Backfill)	LF	50	\$ 43.00	\$ 2,150.00	1,2
60" Outlet Structure	Each	1	\$ 10,000.00	\$ 10,000.00	1,2
Riprap	CY	6	\$ 130.00	\$ 780.00	1,2
Temporary Fence Installation	LF	1,200	\$ 8.00	\$ 9,600.00	1,2
<b>Subtotal Construction Cost</b>				<b>\$ 260,000.00</b>	<b>1,3</b>
Contingency (15%)			15%	\$ 40,000.00	1,3
Permitting, Engineering, and Design (15%)			15%	\$ 50,000.00	1,3
Construction Observation (10%)			10%	\$ 30,000.00	1,3
<b>Total Cost</b>				<b>\$ 380,000.00</b>	<b>1,3,4</b>

(1) This is a point estimate for 2015, and could vary due to cost and design changes.

(2) Rounded to the nearest \$100.

(3) Rounded up to the nearest \$10,000.

(4) Estimated total project cost does not include costs of potential contamination at the site

---

## **4.2.3 65<sup>th</sup> Street and Doffing Avenue Wet Extended Detention Basin**

### **4.2.3.1 Project Location**

The proposed project is located on a City-owned parcel of undeveloped land southwest of the intersection of 65<sup>th</sup> Street East and Doffing Avenue (Figure 4-5). The parcel is approximately 0.3 acres and lies adjacent to a 5-acre parking area for a waste management business. Under existing conditions, runoff from the site flows to a swale along 66<sup>th</sup> Street East, which discharges directly to the Mississippi River. This project is part of item 54 in the City's 3<sup>rd</sup> Gen WRMP, Table 5.1.

### **4.2.3.2 Alternatives Considered**

The proposed project would consist of a wet extended detention basin that would be designed to treat runoff from its direct watershed of 11.6 acres. The proposed pond's area would be 0.15 acres, with a permanent pool volume of approximately 0.5 acre-feet and a live storage volume of approximately 0.7 acre-feet. The pond would discharge through an outlet structure to the existing swale that flows to the Mississippi River.

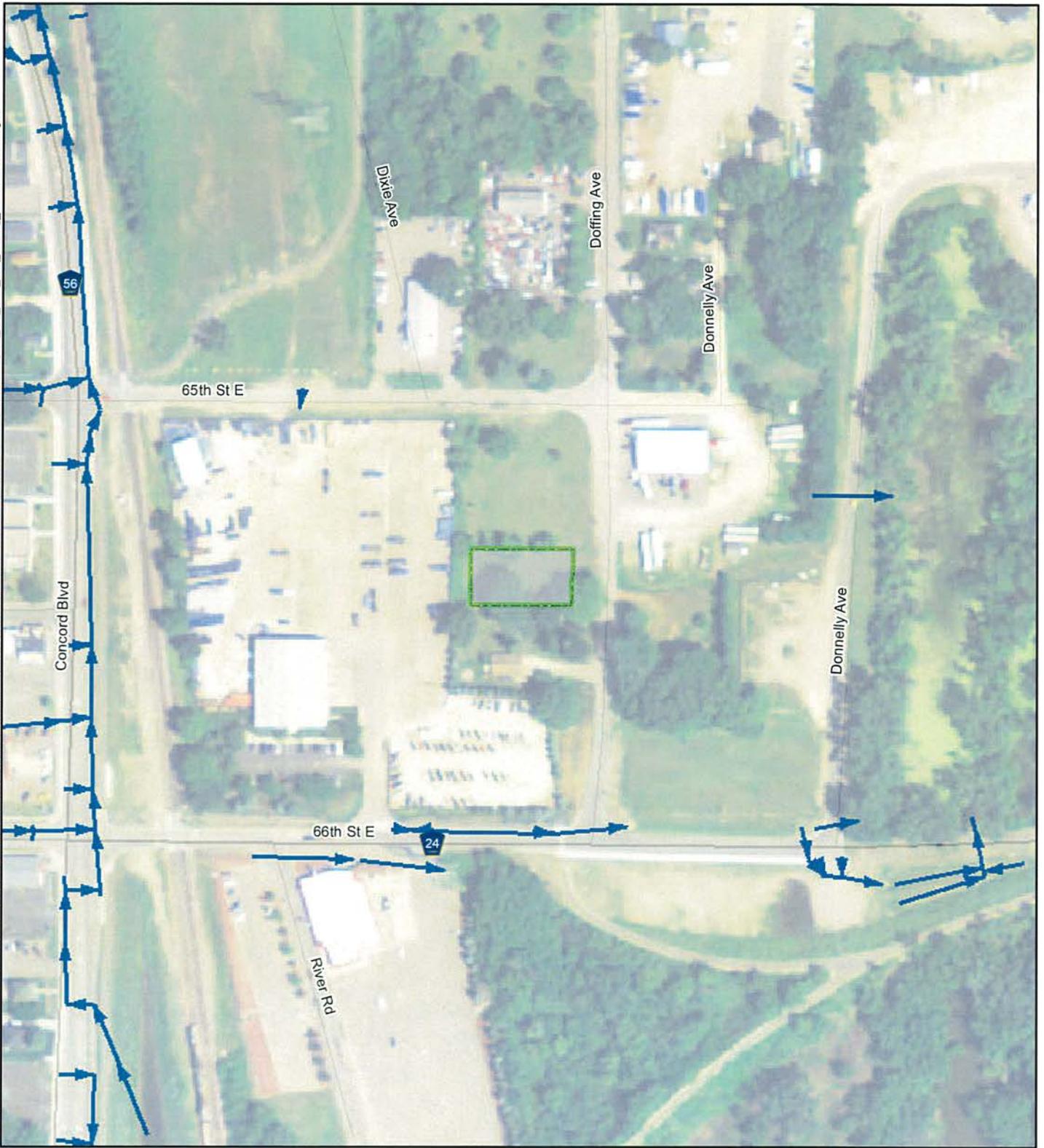
### **4.2.3.3 Estimated Pollutant Reduction**

Pollutant reductions for the 65<sup>th</sup> and Doffing stormwater management basin were estimated by simulating the proposed basin and its contributing area with the P8 water quality model. Weather conditions for the 10-year period from 2001-2010 were used as inputs for the simulation.

The P8 model showed that the proposed basin trapped on average approximately six pounds per year of TP and 3,500 pounds per year of TSS for the 10-year simulation period. This represents a 69 percent TSS reduction for the watershed contributing to the proposed pond, and a 7.4 pound per acre (5 percent) TSS reduction for the Old Village subwatershed.

### **4.2.3.4 Estimated Construction Costs**

The estimated construction cost for the 65<sup>th</sup> and Doffing wet extended basin is \$140,000. This cost does not include testing for or remediation of any contaminated soils or high elevation of bedrock, either or both of which may be present at the project site. Soil testing will be required before the project reaches final design. Cost estimate details are shown in Table 4-2.



-  Proposed Project Footprint
-  Existing Storm Sewer
-  City of Inver Grove Heights



1 inch = 200 feet

Feet

0 100 200



FIGURE 4-5

65TH AND DOFFING WET EXTENDED  
DETENTION BASIN PROJECT LOCATION  
(OLD VILLAGE SUBWATERSHED  
Stormwater Project Plan  
City of Inver Grove Heights  
Dakota County, MN

#### 4.2.3.5 Estimated Construction Costs

Table 4-2. 65<sup>th</sup> Street and Doffing Wet Extended Detention Basin Preliminary Opinion of Cost

Item	Unit	Quantity	Unit Cost	Cost	Notes
Mobilization/Demobilization	LS	1	\$ 8,000.00	\$ 8,000.00	1,2
Traffic Control	LS	1	\$ 1,000.00	\$ 1,000.00	1,2
Erosion Control	LS	1	\$ 2,000.00	\$ 2,000.00	1,2
Inlet Protection	Each	2	\$ 200.00	\$ 400.00	1,2
Sod Removal	SY	726	\$ 5.00	\$ 3,630.00	1,2
Excavation	CY	1,900	\$ 15.00	\$ 28,500.00	1,2
Excavation Off-site Disposal	CY	1,900	\$ 15.00	\$ 28,500.00	1,2
Grading	SY	726	\$ 2.00	\$ 1,452.00	1,2
Turf Re-Establishment (Restoration)	SF	8,800	\$ 1.00	\$ 8,800.00	1,2
18" RCP Storm Sewer (Excavation, Install, Backfill)	LF	25	\$ 43.00	\$ 1,075.00	1,2
18" FES	Each	1	\$ 585.00	\$ 585.00	1,2
Riprap	CY	4	\$ 130.00	\$ 520.00	1,2
Temporary Fence Installation	LF	400	\$ 8.00	\$ 3,200.00	1,2
<b>Subtotal Construction Cost</b>				<b>\$ 90,000.00</b>	<b>1,3</b>
Contingency (15%)			15%	\$ 20,000.00	1,3
Permitting, Engineering, and Design (15%)			15%	\$ 20,000.00	1,3
Construction Observation (10%)			10%	\$ 10,000.00	1,3
<b>Total Cost</b>				<b>\$ 140,000.00</b>	<b>1,3,4</b>

(1) This is a point estimate for 2015, and could vary due to cost and design changes.

(2) Rounded to the nearest \$100.

(3) Rounded up to the nearest \$10,000.

(4) Estimated total project cost does not include costs of potential contamination at the site

---

## **4.2.4 Dickman Industrial Park Wet Extended Detention Basins**

### **4.2.4.1 Project Location**

The proposed project is located in an industrial area of approximately 25 acres in the southern part of the Old Village subwatershed, between Concord Boulevard and Dickman Trail (Figure 4-6). The City of Inver Grove Heights has begun to acquire property in the area for redevelopment into an industrial park. Figure 4-7 shows the City's preliminary concept plan for the redeveloped industrial park.

There is an existing stormwater management basin at the northern tip of the industrial area that receives runoff from a watershed of approximately 40.2 acres that includes the north end of the industrial site, parts of the Concord Boulevard right-of-way, and a partially developed area north of Concord Boulevard. Approximately 24 acres at the south end of the site currently drains to an existing 30-inch diameter storm sewer pipe that discharges to the Mississippi River between the 64<sup>th</sup> Street storm sewer outfall and the 70<sup>th</sup> Street storm sewer outfall. This project is considered a high priority site by the Friends of Pool Two organization and it is Item 52 in in the City's 3<sup>rd</sup> Gen WRMP, Table 5.1.

### **4.2.4.2 Alternatives Considered**

The proposed project would consist of two wet extended detention basins that would treat runoff from the portion of the future industrial park not already served by the existing basin at the north end of the site. The combined permanent pool volume of the two proposed basins would be approximately 1.0 acre-feet. The ponds would receive stormwater runoff from the redeveloped Dickman Industrial Park area, and would discharge treated water to the existing 30-inch diameter storm sewer pipe located east of the site.

Additional stormwater BMPs will likely be constructed at the redeveloped site, including volume-reduction BMPs such as infiltration basins. As the site plan is developed further, the pond sizes may be revised as needed to match the desired treatment volume.

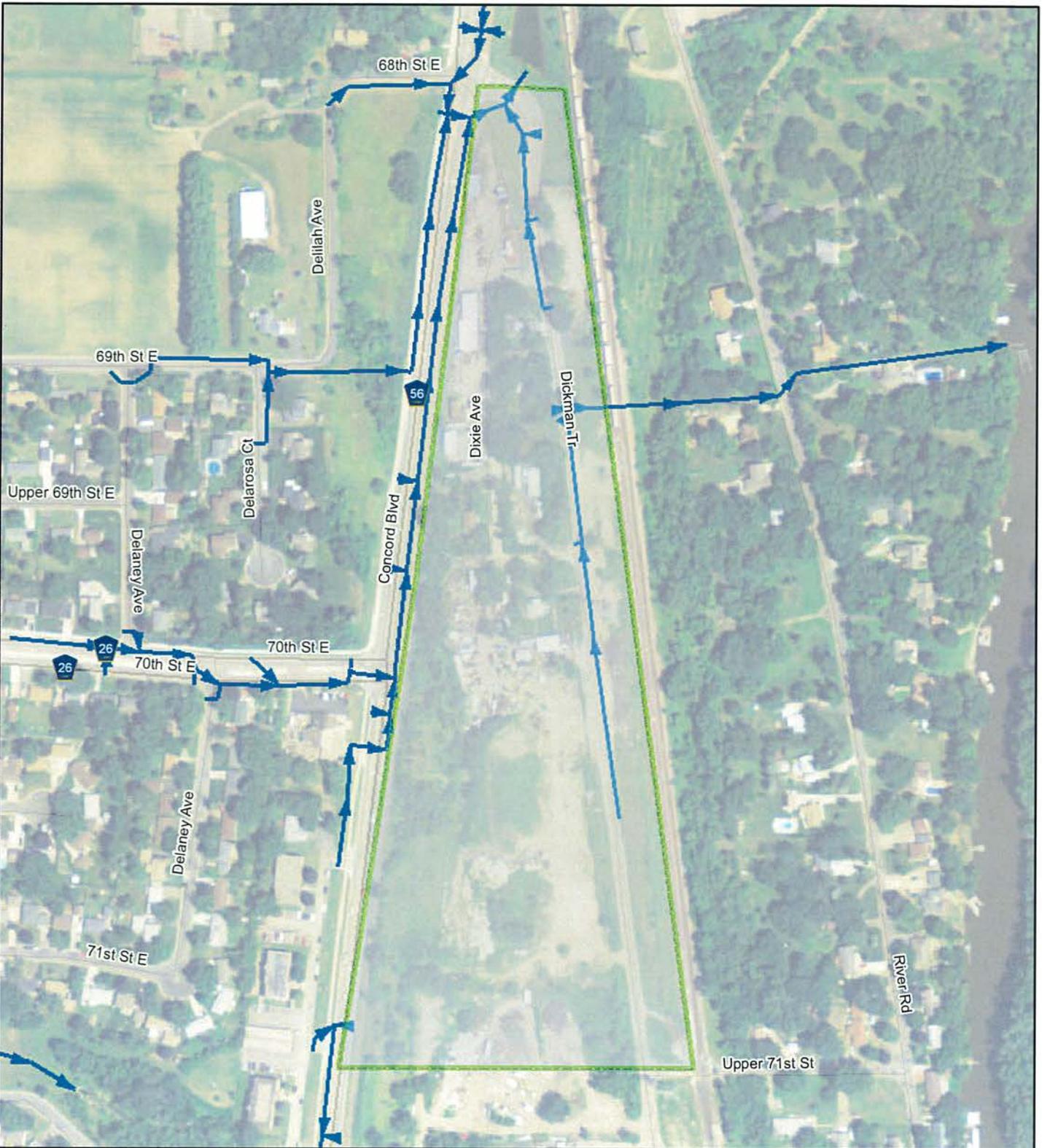
### **4.2.4.3 Estimated Pollutant Reduction**

Pollutant reductions for the Industrial Park stormwater management basins were estimated by simulating the proposed basin and its contributing area with the P8 water quality model. Weather conditions for the 10-year period from 2001-2010 were used as inputs for the simulation.

The P8 model showed that the proposed basins trapped on average approximately 17 pounds per year of TP and approximately 8,300 pounds per year of TSS for the 10-year simulation period. This represents an 82 percent TSS reduction for the watershed contributing to the proposed pond, and a 17.7 pound per acre (12 percent) TSS reduction for the Old Village subwatershed.

### **4.2.4.4 Estimated Construction Costs**

The estimated construction cost for the Dickman Industrial Park wet extended basins is \$230,000. This cost does not include testing for or remediation of any contaminated soils or high elevation of bedrock, either or both of which may be present at the project site. Shallow bedrock is known to be in the area and soil testing will be required before the project reaches final design. Cost estimate details are shown in Table 4-3.



-  Proposed Project Location
-  Existing Storm Sewer
-  City of Inver Grove Heights



1 inch = 300 feet

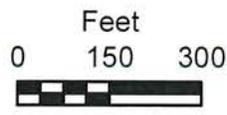


FIGURE 4-6

DICKMAN INDUSTRIAL PARK WET EXTENDED  
DETENTION BASINS PROJECT LOCATION  
(OLD VILLAGE WATERSHED)  
Stormwater Project Plan  
City of Inver Grove Heights  
Dakota County, MN

### Dickman Industrial Park (South)

- Multi-Tenant Light Industrial (60,000 Sq. Ft.)
- Multi-Tenant Light Industrial (36,000 Sq. Ft.)
- (3) 1 acre Light Industrial Sites (+/- 14,000 Sq. Ft. for each site)

### Dickman Industrial Park (North)

- 2 story Office / Flex (20,000 Sq. Ft.)
- (2) 1 Acre Light Industrial Sites (+/- 30,000 Sq. Ft.)
- Multi-Tenant Light Industrial (40,000 Sq. Ft.)

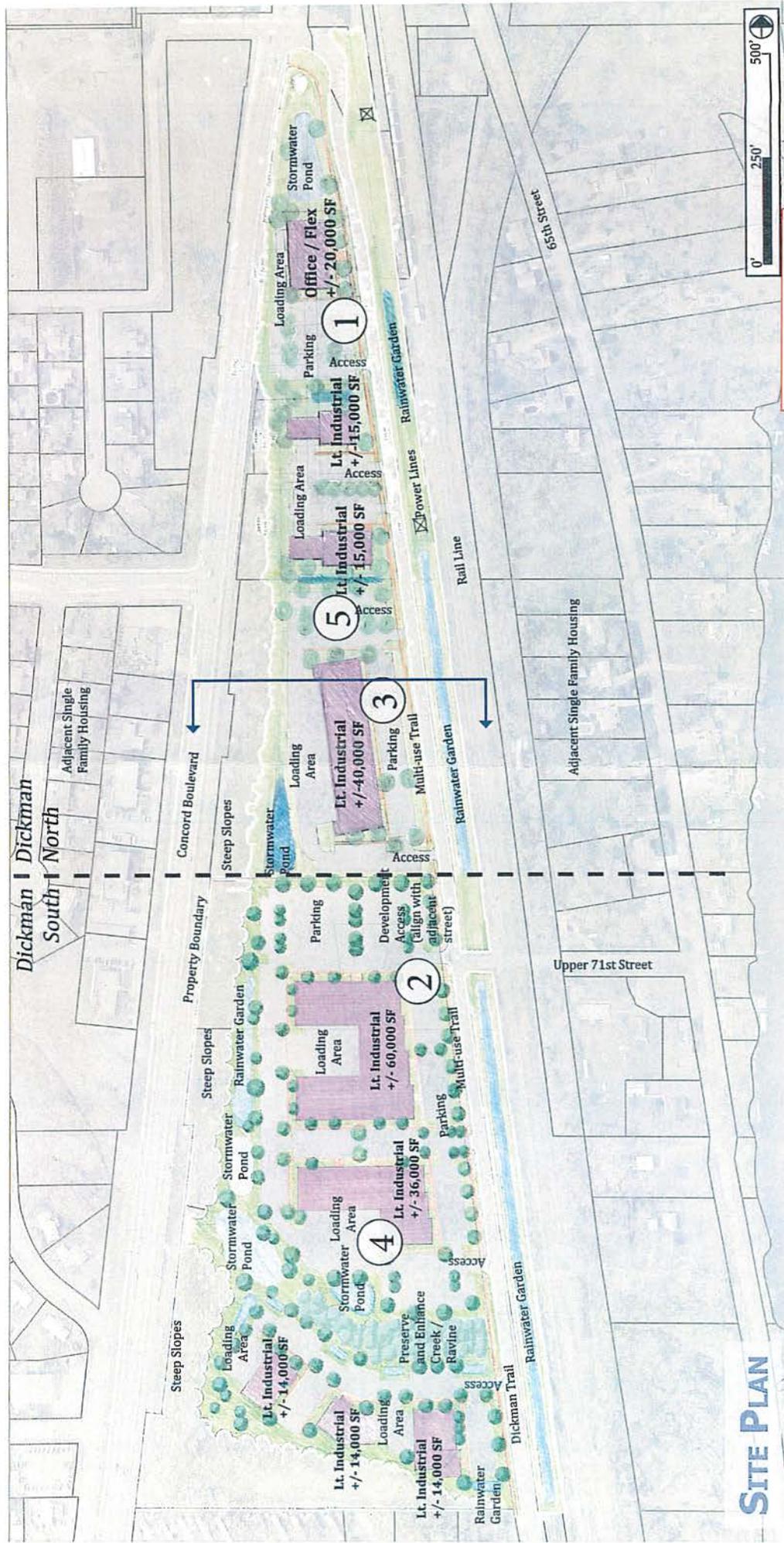


Figure 4-7  
Dickman Industrial Park  
Preliminary Concept Plan

**SITE PLAN**

#### 4.2.4.5 Estimated Construction Costs

Table 4-3. Dickman Industrial Park Wet Extended Detention Basin Preliminary Opinion of Cost

Item	Unit	Quantity	Unit Cost	Cost	Notes
Mobilization/Demobilization	LS	1	\$ 13,900.00	\$ 13,900.00	1,2
Traffic Control	LS	1	\$ 1,000.00	\$ 1,000.00	1,2
Erosion Control	LS	1	\$ 2,000.00	\$ 2,000.00	1,2
Inlet Protection	Each	1	\$ 200.00	\$ 200.00	1,2
Excavation	CY	3900	\$ 15.00	\$ 58,500.00	1,2
Excavation Off-site Disposal	CY	3900	\$ 15.00	\$ 58,500.00	1,2
Grading	SY	726	\$ 2.00	\$ 1,452.00	1,2
Turf Re-Establishment (Restoration)	SF	13000	\$ 1.00	\$ 13,000.00	1,2
18" RCP Storm Sewer (Excavation, Install, Backfill)	LF	50	\$ 43.00	\$ 2,150.00	1,2
18" FES	Each	2	\$ 585.00	\$ 1,170.00	1,2
Riprap	CY	4	\$ 130.00	\$ 520.00	1,2
<b>Subtotal Construction Cost</b>				<b>\$ 160,000.00</b>	<b>1,3</b>
Contingency (15%)			15%	\$ 24,000.00	1,3
Permitting, Engineering, and Design (15%)			15%	\$ 27,600.00	1,3
Construction Observation (10%)			10%	\$ 18,400.00	1,3
<b>Total Cost</b>				<b>\$ 230,000.00</b>	<b>1,3,4</b>

(1) This is a point estimate for 2015, and could vary due to cost and design changes.

(2) Rounded to the nearest \$100.

(3) Rounded up to the nearest \$10,000.

(4) Estimated total project cost does not include costs of potential contamination at the site

---

## **4.2.5 64<sup>th</sup> and Crosby Wet Extended Detention Basin**

### **4.2.5.1 Project Location**

The proposed project is located within a residential area, south of the intersection of 64<sup>th</sup> Street and Crosby Avenue, at the northeast corner of a green space of approximately 6.6 acres that is expected to be developed into future single family housing (Figure 4-8). This project is Item 56 in the City's 3<sup>rd</sup> Gen WRMP, Table 5.1.

### **4.2.5.2 Alternatives Considered**

The proposed project would consist of a wet extended detention basin. The permanent pool volume of the basin would be approximately 1.0 acre-feet. The pond would treat stormwater runoff from the newly developed area and from approximately 18 acres of the area contributing to the storm sewer trunk line along 64<sup>th</sup> Street.

The developer of new housing in this area will be required to construct stormwater treatment for the new impervious surface created within the development. The City proposes to route water from the existing storm sewer draining the area to the north and west of the proposed pond. The City would pay for the cost of storm sewer modifications to re-route water from the 64<sup>th</sup> Street storm sewer trunk line and would share in the pond construction cost proportionally to the proportion of stormwater volume contributed to the pond.

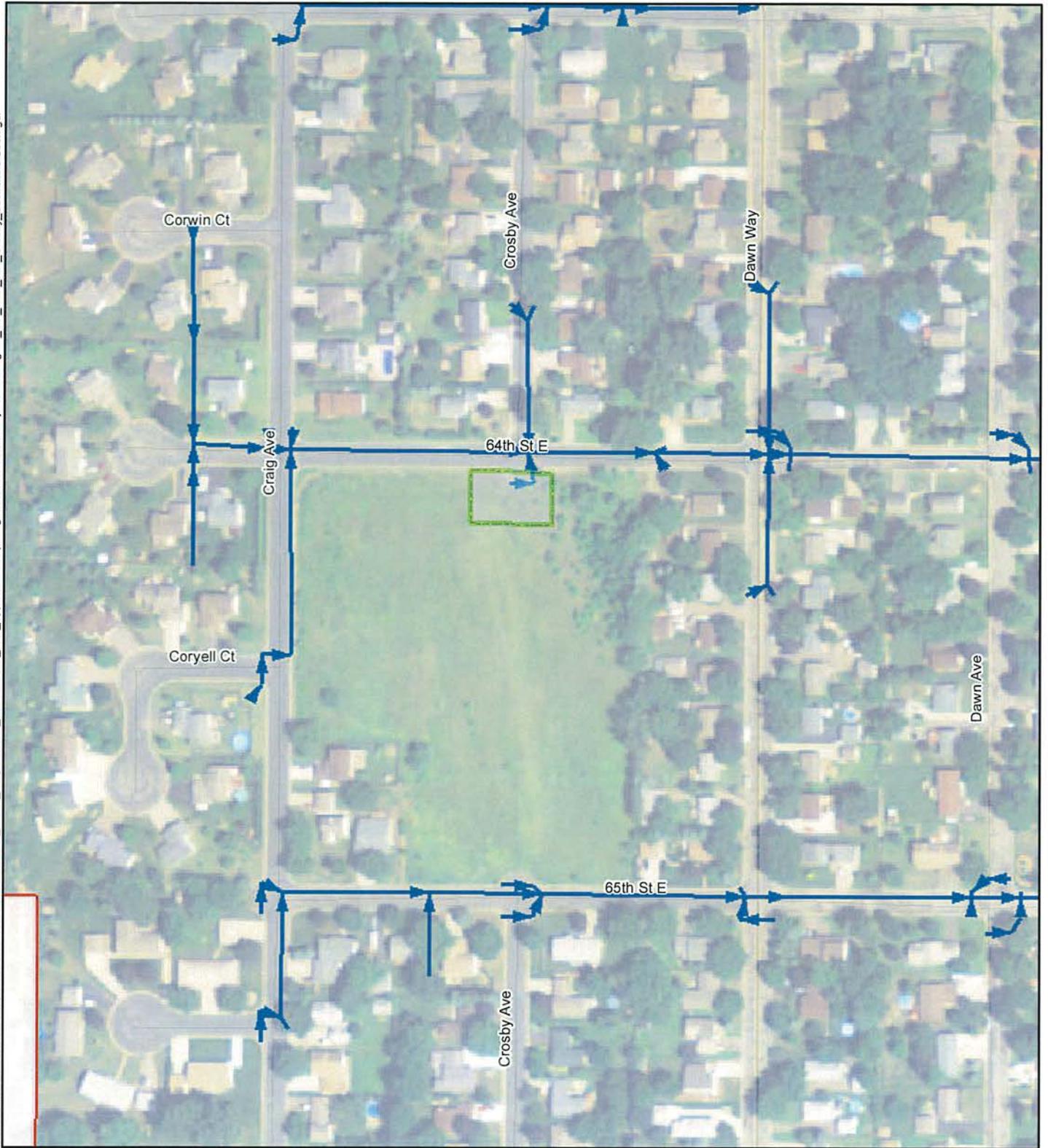
### **4.2.5.3 Estimated Pollutant Reduction**

Pollutant reductions for the stormwater management basin were estimated by simulating the proposed basin and its contributing area with the P8 water quality model. Weather conditions for the 10-year period from 2001-2010 were used as inputs for the simulation.

The P8 model showed that the proposed basins trapped on average approximately five pounds of TP per year and 2,500 pounds per year of TSS for the 10-year simulation period. This represents a 90 percent TSS reduction of TSS for the area contributing to the proposed basin, and a 5.3 pound per acre (nine percent) TSS reduction for the Old Village subwatershed.

### **4.2.5.4 Estimated Construction Costs**

The estimated construction cost for the 64<sup>th</sup> and Crosby wet extended basin is \$240,000. This cost does not include testing for or remediation of any contaminated soils or high elevation of bedrock, either or both of which may be present at the project site. Soil testing will be required before the project reaches final design. Cost estimate details are shown in Table 4-4.



-  Approximate Project Footprint
-  Existing Storm Sewer
-  City of Inver Grove Heights

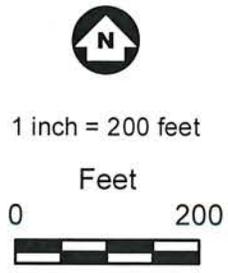


FIGURE 4-8

64TH AND CROSBY WET EXTENDED  
DETENTION BASIN PROJECT LOCATION  
Stormwater Treatment  
Feasibility Study  
City of Inver Grove Heights  
Dakota County, MN

#### 4.2.5.5 Estimated Construction Costs

Table 4-4. 64<sup>th</sup> and Crosby Wet Extended Detention Basin Preliminary Opinion of Cost

Item	Unit	Quantity	Unit Cost	Cost	Notes
Mobilization/Demobilization	LS	1	\$ 13,900.00	\$ 13,900.00	1,2
Traffic Control	LS	1	\$ 1,000.00	\$ 1,000.00	1,2
Erosion Control	LS	1	\$ 2,000.00	\$ 2,000.00	1,2
Inlet Protection	Each	1	\$ 200.00	\$ 200.00	1,2
Excavation	CY	3,900	\$ 15.00	\$ 58,500.00	1,2
Excavation Off-site Disposal	CY	3,900	\$ 15.00	\$ 58,500.00	1,2
Grading	SY	726	\$ 2.00	\$ 1,452.00	1,2
Turf Re-Establishment (Restoration)	SF	13,000	\$ 1.00	\$ 13,000.00	1,2
18" RCP Storm Sewer (Excavation, Install, Backfill)	LF	50	\$ 43.00	\$ 2,150.00	1,2
18" FES	Each	2	\$ 585.00	\$ 1,170.00	1,2
Riprap	CY	4	\$ 130.00	\$ 520.00	1,2
<b>Subtotal Construction Cost</b>				<b>\$ 160,000.00</b>	<b>1,3</b>
Contingency (15%)			15%	\$ 30,000.00	1,3
Permitting, Engineering, and Design (15%)			15%	\$ 30,000.00	1,3
Construction Observation (10%)			10%	\$ 20,000.00	1,3
<b>Total Cost</b>				<b>\$ 240,000.00</b>	<b>1,3</b>

(1) This is a point estimate for 2015, and could vary due to cost and design changes.

(2) Rounded to the nearest \$100.

(3) Rounded up to the nearest \$10,000.

(4) Estimated total project cost does not include costs of potential contamination at the site

---

## 5.0 Summary

This Stormwater Project Plan describes stormwater BMPs that have the potential to decrease TSS loading from the City of Inver Grove Heights to the Mississippi River. The City has identified several potential sites where land for a BMP has been or could be acquired, or where future public projects will be undertaken that could incorporate retrofit stormwater BMPs into their design. Construction and maintenance costs, pollutant removals, and cost effectiveness for the evaluated projects are compared in Table 5-1.

Some of the projects described in this plan are at the early concept design stage and are subject to change due to factors including conflicts with existing infrastructure, contaminated soils, shallow bedrock, and other unforeseen site limitations. Substantial changes to projects would be communicated to the MPCA by submitting addendums to the Stormwater Project Plan.

**Table 5-1. TSS Removal and Cost Comparison for Evaluated BMPs**

Project Number	Project Name	Subwatershed	TP Reduction (lbs/yr)	TSS Reduction (lbs/yr)	Construction Cost (6) (\$)	Maintenance Cost (\$/yr)	Lifespan (yrs)	Cost Effectiveness (\$/lb TSS/yr)
1	78 <sup>th</sup> and Concord Wet Extended Detention Basin	Skyline Village	9	3,400 (1)	\$ 400,000 (1)	\$ 14,000	25	\$ 118
2	Delano Circle Rainwater Gardens (1)	Skyline Village	2	850 (1)	\$ 27,600 (1)	\$ 966	20	\$ 33
3	Dawn-Concord Ravine Wet Extended Detention Basin	South Grove	10	7,050	\$ 250,000	\$ 8,750	35	\$ 35
4	River Road Wet Extended Detention Basin	South Grove	50	36,300 (3)	\$ 900,000	\$ 31,500	35	\$ 25
5	7125 Concord Infiltration Basins	South Grove	5	1,570	\$ 160,000	\$ 5,600	20	\$ 9
6	Dawn Way Rainwater Gardens (1)	Old Village	7	2,820 (1)	\$ 92,000	\$ 3,220	20	\$ 33
7	64 <sup>th</sup> and Concord Wet Extended Detention Basins	Old Village	17	10,500	\$ 380,000	\$ 13,300	35	\$ 36
8	65 <sup>th</sup> and Doffing Wet Extended Detention Basin	Old Village	6	3,500	\$ 140,000	\$ 4,900	35	\$ 40
9	Dickman Industrial Park Wet Extended Detention Basins	Old Village	17	8,300	\$ 240,000	\$ 8,400	35	\$ 29
10	64 <sup>th</sup> and Crosby Wet Extended Detention Basin	Old Village	5	1,500 (4)	\$ 200,000 (5)	\$ 7,000	35	\$ 160
11	Dickman Trail Storm Sewer Improvements (2)	South Grove	< 1	120 (2)	\$ 210,000	\$ 7,350	35	\$ 1,750
12	Dawn-Concord Ravine Dry Extended Detention Basin (2)	South Grove	< 1	120 (2)	\$ 220,000	\$ 7,700	35	\$ 1,833

(1) TSS reduction and cost estimate from the Dakota County SWCD study

(2) TSS reduction is based on increased TSS trapping in the proposed River Road Wet Extended Basin

(3) TSS reduction assumes that no additional upstream BMPs are constructed

(4) TSS reduction is based on stormwater treatment for the existing developed area.

(5) Construction cost will be shared between the City and the site's developer. The amount listed represents only the City's portion of the cost.

(6) Estimated final cost does not include potential cost of contamination cleanup or bedrock that may be encountered at site.

## **Appendix A**

***Table 5-1 from the City of Inver Grove Heights Third Generation  
Water Resources Management Plan***

SECTION V

TABLE 5.1

INVER GROVE HEIGHTS LOCAL WATER MANAGEMENT IMPLEMENTATION PLAN

No.	Project Description	MS4 Permit Requirement	Initial 12 Month Requirement	Annual Requirement	Projects, Programs, & Studies	10 Year Cost Estimate <sup>1</sup>	Possible Funding Sources <sup>3</sup>	Proposed Cost By Year <sup>1,2</sup>							Comments		
								2014	2015	2016	2017	2018	2019	2020		2021	2022
1	Systems Mapping - Update Stormwater Sewer System Map and basin inventory. The mapping and inventory will be completed within 12 months of the date permit coverage is extended. Once completed, the inventory will be submitted to the MP/CA MS4 Permit Program.	✓	✓	✓		\$40,000	General Fund/ Storm Water Utility	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	See SWPPP Application for Reauthorization (Appendix B)
2	Construction Site Stormwater Runoff Control - The City will update regulatory mechanisms to meet or exceed the requirements of MPCA permit to discharge stormwater associated with construction activity, as well as review ordinances to ensure they meet the new construction general permit requirements within 12 months of the date permit coverage is extended.	✓	✓			\$3,500	General Fund/ Storm Water Utility	\$3,500									See SWPPP Application for Reauthorization (Appendix B)
3	BMP Construction Guidance - Develop BMP construction guidance document for developers and contractors within 12 months of the date permit coverage is extended.	✓	✓		✓	\$4,500	General Fund/ Storm Water Utility	\$4,500									See SWPPP Application for Reauthorization (Appendix B)
4	Post-construction Stormwater Management - The City will evaluate and update related ordinances and documentation methods to meet the requirements of the MS4 permit within 12 months of the date permit coverage is extended.	✓	✓			\$10,000	General Fund/ Storm Water Utility	\$5,000	\$5,000								See SWPPP Application for Reauthorization (Appendix B)
5	Enforcement Response Procedures - Existing ERP's including NPDES Inspection Form, Erosion and Sediment Control Inspection Report, and a Notice of Erosion Control Requirement for Construction will be updated to meet the permit requirements within 12 months of the date permit coverage is extended.	✓	✓			\$4,000	General Fund/ Storm Water Utility	\$4,000									See SWPPP Application for Reauthorization (Appendix B)
6	Public Education and Outreach - The City will complete the following public education and outreach activities to stay compliant with MS4 Permit requirements within 12 months of the date permit coverage is extended: -NPDES/MS4/SWPPP related brochures at City Hall -Minimum of two NPDES/MS4/SWPPP public education related articles in the City's Insights newsletter. -Continue annual joint powers agreement with Dakota County Soil and Water Conservation District to educate the public through the DCSWCD Blue Thumb program -Continue annual joint powers agreement with Dakota County Soil and Water Conservation District to educate the public through the City's Rainingarden Program in relation to appropriate public improvement projects. -The City will update the website to meet permit requirements within 12 months of the date permit coverage is extended -When possible, the City will make presentations to community groups and attend community group meetings. -Other	✓	✓	✓		\$100,000	General Fund/ Storm Water Utility	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	See SWPPP Application for Reauthorization (Appendix B)

SECTION V

No.	Project Description	MS4 Permit Requirement	Initial 12 Month Requirement	Annual Requirement	Projects, Programs, & Studies	10 Year Cost Estimate <sup>1</sup>	Possible Funding Sources <sup>3</sup>	Proposed Cost By Year <sup>1,2</sup>								Comments	
								2014	2015	2016	2017	2018	2019	2020	2021		2022
7	Annual SWPPP Assessment & Annual Reporting - City staff will conduct an annual SWPPP assessment in preparation of each annual report. Proposed SWPPP modifications are subject to Part II.G of the MS4 permit. The final annual report will be posted on the Water Resources webpage. City staff will submit the annual report to the MPCCA prior to June 30th for the previous calendar year.	✓	✓	✓		\$20,000	General Fund/ Storm Water Utility	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	See SWPPP Application for Reauthorization (Appendix B)
8	Annual Public Meeting/Event - Provide public notice and present the draft MS4 annual report to one public event per year to solicit public input regarding the adequacy of the City's SWPPP. Public input received (oral and written) will be recorded in a record of decision and responses (if relevant) will be made in writing to each commenter. Hold one event per calendar year of the MS4 permit cycle. Maintain web-based online system allowing citizens and businesses to notify City of issues related to stormwater or illicit discharge.	✓		✓		\$35,000	General Fund/ Storm Water Utility	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	See SWPPP Application for Reauthorization (Appendix B)
9	Online Availability of the Stormwater Pollution Prevention Plan (SWPPP) Program Document - The City will make the SWPPP and 2013 annual report available on the Water Resources webpage within 12 months from the date the MS4 permit coverage is extended to the City.	✓	✓	✓		\$5,000	Storm Water Utility	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	See SWPPP Application for Reauthorization (Appendix B)
10	IDDE Program - The City will review and update the written procedures of the following within 12 months the date permit coverage is extended: - Identification of priority areas likely to have illicit discharges as described in the permit. - Timely response to known, suspected, and reported illicit discharges - Investigating, locating and eliminating the source of illicit discharges - ERPs for eliminating the illicit discharges and needed corrective actions	✓	✓	✓		\$16,500	General Fund/ Storm Water Utility	\$3,000	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	See SWPPP Application for Reauthorization (Appendix B)
11	Record Keeping as required by the MS4 permit Construction Site Stormwater Runoff Control - The City will update regulatory mechanisms to meet or exceed the requirements of MPCCA permit to discharge stormwater associated with construction activity, as well as review ordinances to ensure they meet the new construction general permit requirements within 12 months of the date permit coverage is extended.	✓	✓			\$3,500	General Fund/ Storm Water Utility	\$3,500									See SWPPP Application for Reauthorization (Appendix B)
12	IDDE Community Reporting - The City's IT department will update request system on City webpage to include a link to report illicit discharges. To be completed within 12 months from the date MS4 permit coverage is extended.	✓	✓			\$1,000	General Fund/ Storm Water Utility	\$1,000									See SWPPP Application for Reauthorization (Appendix B)

SECTION V

No.	Project Description	MS4 Permit Requirement	Initial 12 Month Requirement	Annual Requirement	Projects, Programs, & Studies	10 Year Cost Estimate <sup>1</sup>	Possible Funding Sources <sup>2</sup>	Proposed Cost By Year <sup>1,2</sup>										Comments	
								2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
13	Employee Training - Continue to host a minimum of one staff training event per year to discuss illicit discharge recognition and reporting. City staff will develop an annual training schedule, record the employee names, topics covered, and date of each event, annually through the end of the MS4 permit cycle.	✓	✓	✓		\$10,000	General Fund/ Storm Water Utility	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	See SWPPP Application for Reauthorization (Appendix B)
14	Sanitary Sewer/Stormwater Televising - The City will, as needed, hire a consultant to televisive sections of the sewer system to find illicit connection in the system.	✓		✓		\$50,000	General Fund/ Storm Water Utility	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	See SWPPP Application for Reauthorization (Appendix B)
15	IDDE Priority Inspection Map - Develop map to identify high-priority outfalls and high-risk establishments. To be completed within 12 months from the date MS4 permit coverage is extended.	✓	✓			\$3,000	General Fund/ Storm Water Utility	\$3,000											See SWPPP Application for Reauthorization (Appendix B)
16	Pollution Prevention - The City will develop spill prevention and control plans for municipal facilities by the end of year 1 of the MS4 permit cycle. Educational materials will be distributed to each municipal facility by the end of year 2.	✓	✓			\$2,500	General Fund/ Storm Water Utility	\$2,500											See SWPPP Application for Reauthorization (Appendix B)
17	Pollution Prevention - The City will continue to develop facilities inventory to include potential pollutants and will create a map of all identified facilities within 12 months of the date permit coverage is extended.	✓	✓			\$2,500	General Fund/ Storm Water Utility	\$2,500											See SWPPP Application for Reauthorization (Appendix B)
18	Pollution Prevention - Increase inspection frequency of maintenance yard. Once weekly and after all rain events utilize a checklist for the inspection that documents findings and allows staff to compare to previous inspections. Inspection frequency to be evaluated after year 1.	✓	✓	✓		\$25,000	General Fund/ Storm Water Utility	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	See SWPPP Application for Reauthorization (Appendix B)
19	Pollution Prevention - Annual staff training on fertilizer application, pesticide/herbicide application, and mowing discharge.	✓	✓	✓		\$5,000	General Fund/ Storm Water Utility	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	See SWPPP Application for Reauthorization (Appendix B)
20	Pollution Prevention - Annual training focused on automotive maintenance program (automotive inspections and washing), spill cleanup training, hazardous materials training, building leak prevention and inspection training.	✓	✓	✓		\$5,000	General Fund/ Storm Water Utility	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	See SWPPP Application for Reauthorization (Appendix B)
21	Pollution Prevention - Annual training on parking lot and street cleaning, storm drain systems cleaning, road salt materials management.	✓	✓	✓		\$5,000	General Fund/ Storm Water Utility	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	See SWPPP Application for Reauthorization (Appendix B)
22	Pond Assessment Procedures & Schedule - City will develop procedures for determining TSS and TP treatment effectiveness of City owned ponds used for treatment of stormwater and develop a prioritized inspection and maintenance schedule.	✓	✓		✓	\$52,000	General Fund/ Storm Water Utility	\$10,000	\$10,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	See SWPPP Application for Reauthorization (Appendix B)



SECTION V

No.	Project Description	MS4 Permit Requirement	Initial 12 Month Requirement	Annual Requirement	Projects, Programs, & Studies	10 Year Cost Estimate <sup>1</sup>	Possible Funding Sources <sup>3</sup>	Proposed Cost By Year <sup>1,2</sup>										Comments	
								2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
29	<b>Storm Drain Cleaning</b> - The City will continue to clean sump manholes and SPODs annually. The City will document the number of structures cleaned each year.	✓		✓		\$150,000	General Fund/ Storm Water Utility	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	See SWPPP Application for Reauthorization (Appendix B)
30	<b>Employee Training</b> - Continue to host a minimum of one staff training event per year to discuss stormwater related topics. City staff will develop an annual training schedule, record the employee names, topics covered, and date of each event, annually through the end of the MS4 permit cycle.	✓	✓	✓		\$10,000	General Fund/ Storm Water Utility	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	See SWPPP Application for Reauthorization (Appendix B)
31	<b>Road Salt Application Review</b> - The City will continue to evaluate current practices of road salt applications, alternative products, calibration of equipment, inspection of vehicles, staff training. This includes documenting salt applied each year. The City will continue to annually evaluate and implement this program throughout the MS4 permit cycle.	✓	✓	✓		\$20,000	General Fund/ Storm Water Utility	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	See SWPPP Application for Reauthorization (Appendix B)
32	<b>Pond Sediment Excavation and Removal Projects</b> - The City will develop a reporting component for pond sediment removal projects within 12 months from the date MS4 permit coverage is extended to the City. Reporting will consist of documenting the date, pond ID, project limits/construction plans, volume of sediment removed, test results (if any), and disposal location. Begin report in 2015.	✓	✓			\$4,000	General Fund/ Storm Water Utility	\$4,000											See SWPPP Application for Reauthorization (Appendix B)
33	<b>Stockpiles, Storage and Material Handling Area Inspections</b> - Conduct quarterly written inspections of all stockpile, soilage and material handling areas (per the 2014 facility inventory), through the end of the MS4 permit cycle.	✓	✓	✓		\$25,000	General Fund/ Storm Water Utility	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	See SWPPP Application for Reauthorization (Appendix B)
34	<b>Site Plan Review</b> - Every applicant for a City permit to allow land-disturbing activities must submit a project specific stormwater management plan (if applicable) and/or erosion control plan to the City	✓				\$500,000	General Fund/ Developer's Agreement	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	See SWPPP Application for Reauthorization (Appendix B)
35	<b>Park and Open Space Training Program</b> - City to develop and conduct training program	✓	✓	✓		\$6,500	General Fund/ Storm Water Utility	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	See SWPPP Application for Reauthorization (Appendix B)
36	<b>Fleet and Building Maintenance Training Program</b> - City to develop and conduct training program	✓	✓	✓		\$6,500	General Fund/ Storm Water Utility	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	See SWPPP Application for Reauthorization (Appendix B)
37	<b>Devlopment Spill Prevention and Control Plan</b> - City will develop program for municipal facilities.	✓	✓			\$3,000	General Fund/ Storm Water Utility	\$3,000											See SWPPP Application for Reauthorization (Appendix B)
38	<b>Annual Progress Report to WMO</b> - The City will provide an update to the WMOs outlining implementation program progress and other important information.				✓	\$2,500	General Fund/ Storm Water Utility	\$250	\$250	\$250	\$250	\$250	\$250	\$250	\$250	\$250	\$250	\$250	
39	<b>BMP, Outfall, and Pond Maintenance</b> - Based on inspection results, maintenance will be performed.				✓	\$1,500,000	General Fund/ Storm Water Utility	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	

SECTION V

No.	Project Description	MS4 Permit Requirement	Initial 12 Month Requirement	Annual Requirement	Projects, Programs, & Studies	10 Year Cost Estimate <sup>1</sup>	Possible Funding Sources <sup>3</sup>	Proposed Cost By Year <sup>1,2</sup>										Comments						
								2014	2015	2016	2017	2018	2019	2020	2021	2022	2023							
40	Northwest Area drainage improvements: ponding, storm sewer and rain gardens.				✓	\$3,000,000	Northwest Area Fees / Developers Agreement	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000				
41	Saunders Lake Outlet - Stormwater lift station and storm sewer to address water quality and erosion concerns..				✓	\$250,000	Storm Water Utility/ Stormwater Special Tax		\$250,000															
42	Valley Park Drainage Basin Outlet; stormwater lift station and storm sewer - connect to 70th Street system				✓	\$500,000	Storm Water Utility/ Stormwater Special Tax																	
43	Atlas 14 Risk Assessment - Updated City wide modeling for Atlas 14				✓	\$115,000	General Fund/ Storm Water Utility	\$65,000	\$25,000	\$25,000														
44	Wetland inventory and assessment				✓	\$100,000	General Fund/ Storm Water Utility	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000			
45	Miscellaneous updates to existing hydrologic models.				✓	\$100,000	General Fund/ Storm Water Utility	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000		
46	XP SWMM snowmelt modeling and report (including map and tables) - other unmodeled areas (e.g., Alhambra Path, Rosemount, portions of Babcock Trail drainage basins)				✓	\$56,000	General Fund/ Storm Water Utility								\$56,000									
47	Revise Water Resources Management Plan				✓	\$200,000	General Fund/ Storm Water Utility																\$200,000	
48	Soil Course Pond—feasibility study to address shoreline erosion issues				✓	\$10,000	General Fund/ Storm Water Utility								\$10,000									
49	Water Quality Monitoring - Simley Lake, Dickman Lake, Ohmans Lake, and/or others as necessary.				✓	\$30,000	General Fund/ Storm Water Utility										\$10,000						\$10,000	
50	Dawn Way and 59th Street Capacity Issues				✓	\$359,000	General Fund/ Storm Water Utility										\$359,000							
51	Develop Wetland Ordinance				✓	\$30,000	General Fund/ Storm Water Utility	\$30,000																
52	Dixie Avenue and Dickman Trail Stormwater Basin Construction and Storm Sewer Improvements				✓	\$450,000	Developers Agreement/ Grants										\$450,000							
53	78th and Concord Blvd Stormwater Management Basin Construction and Storm Sewer Improvements				✓	\$400,000	General Fund/ Storm Water Utility/Grants		\$400,000															
54	64th Street/Dorling Avenue Storm Sewer Improvements				✓	\$600,000	Developers Agreement/ General Fund/ Storm Water Utility/Grants																	\$600,000

SECTION V

No.	Project Description	MS4 Permit Requirement	Initial 12 Month Requirement	Annual Requirement	Projects, Programs, & Studies	10 Year Cost Estimate <sup>1</sup>	Possible Funding Sources <sup>3</sup>	Proposed Cost By Year <sup>1,2</sup>										Comments			
								2014	2015	2016	2017	2018	2019	2020	2021	2022	2023				
55	Concord Blvd/7th Street/Dickman Trail Storm Sewer Improvements				✓	\$350,000	Developers Agreement/ General Fund/ Storm Water Utility/Grants			\$350,000											
56	Local/Misc. Drainage Improvements				✓	\$500,000	Developers Agreement/ General Fund/ Storm Water Utility/Grants	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
	<b>TOTAL</b>					\$9,762,500		\$919,250	\$980,250	\$1,892,250	\$1,342,250	\$933,250	\$1,236,250	\$1,467,250	\$877,250	\$867,250	\$1,577,250				

<sup>1</sup> Cost estimates are preliminary and subject to review and revision as engineer's reports are completed and more information becomes available. Table reflects 2014 costs and do not account for inflation. Costs generally include labor, equipment, materials, and all other costs necessary to complete each activity. For City completed activities, start time is included in the cost. Some of the costs outlined above may be included in other operational costs budgeted by the City.

<sup>2</sup> 10 Year cost projections are based upon 2 MS4 Permit Cycles with year 1 program updates occurring again in 2019

<sup>3</sup> Funding for stormwater program activities projected to come from following sources - Surface Water Management Fund, Developers Agreements, Grant Funds, General Operating Fund, or Special Assessments

## **Attachments on CD Media**

### **Attachment A**

*City of Inver Grove Heights Pollutant Load Analyses:  
South Grove Subwatershed, Skyline Village Subwatershed,  
Old Village Subwatershed*

### **Attachment B**

*City of Inver Grove Heights Third Generation  
Water Resources Management Plan*

CITY OF INVER GROVE HEIGHTS

REQUEST FOR COUNCIL ACTION

**Approve Final Plans and Specifications and Authorize Advertisement for Bids for the 2015 Improvement Program, City Project No. 2015-16 – NWA Trunk Utility Improvements, Argenta Trail to Blackstone Ridge**

Meeting Date: February 8, 2016  
 Item Type: Consent  
 Contact: Thomas J. Kaldunski, 651.450.2572  
 Prepared by: Thomas J. Kaldunski, City Engineer  
 Reviewed by: Scott D. Thureen, Public Works Director

*SK*

Fiscal/FTE Impact:	
<input type="checkbox"/>	None
<input type="checkbox"/>	Amount included in current budget
<input type="checkbox"/>	Budget amendment requested
<input type="checkbox"/>	FTE included in current complement
<input type="checkbox"/>	New FTE requested – N/A
<input checked="" type="checkbox"/>	Other: Water Fund (511), Sewer Fund (512)

**PURPOSE/ACTION REQUESTED**

Approve Final Plans and Specifications and Authorize Advertisement for Bids for the 2015 Improvement Program, City Project No. 2015-16 – NWA Trunk Utility Improvements, Argenta Trail to Blackstone Ridge.

**SUMMARY**

The project was initiated by the City Council as part of the City's Improvement Program. The project involves trunk sanitary sewer and watermain construction as necessary, restoration and appurtenances.

The trunk watermain portion will include: the Argenta Trail (future alignment) trunk watermain improvements and related appurtenances serving the Argenta District (Blackstone Ridge PUD) from 70th Street to Alverno Lane.

The sanitary sewer improvements will include trunk sanitary sewer, manholes, appurtenances and restoration, parallel to the future Argenta Trail alignment, within an easement on the Blackstone Ridge PUD, from the north side of 70th street to the right-of-way for future 65th Street. The proposed trunk sewer will be a 10-inch and 12-inch gravity sewer with sufficient depth to serve upstream areas of the Argenta District.

The total estimated project cost for City Project No. 2015-16 – NWA Trunk Utility Improvements, Argenta Trail to Blackstone Ridge is estimated at \$2,929,200. A funding package has been prepared in the feasibility report which includes Fund 511 Water NWA and Fund 512 Sewer NWA. These funds come from the Northwest Area Utility Connection Fees, plat connection charges and developer funds collected at the time of development.

The acquisition of temporary easements is necessary for construction of the proposed trunk utility improvements. The developer of the Blackstone Ridge PUD has been asked to provide these temporary easements by March 1, 2015. To date, the developer has not executed the temporary easements. The permanent easement will be granted with the Blackstone Ridge final plat.

Funding

There are no proposed special assessments on this project. All costs will be borne by Fund 511 or Fund 512 as outlined above.

### Easements

Permanent and temporary easements are necessary for the construction of the trunk utility extensions. Legal descriptions and easement depictions have been prepared on the Argenta Trail corridor including outlots and easements on the Blackstone Ridge PUD.

A public hearing was held by the Council on November 9, 2015. The project was ordered following the public hearing. City Project No. 2015-16 will be bid concurrently with City Project No. 2015-13 – NWA Trunk Utility Improvements - Argenta District (70th Street Lift Station to Blackstone Ridge Development) on the 71st Street Alignment. The Council has previously authorized the bids for City project No. 2015-13. The tentative schedule for bidding is as follows:

- Publication in Southwest Review and other bid list on February 28, 2016
- Receipt of bids – April 2, 2016
- Award of Contract – April 11, 2016
- Tentative start of construction varies from mid-April 2016 to mid-June 2016 depending on easement acquisitions

The City is currently waiting for Mr. Deanovic to provide temporary easements on Blackstone Highlands and Blackstone Ridge. The City is currently in negotiations and the eminent domain process to secure easements from the Glenlin and Flannery property owners.

I recommend approval of the resolution approving the final plans and specifications and authorizing the advertisement for bids for the 2015 Improvement Program, City Project No. 2015-16 – NWA Trunk Utility Improvements, Argenta Trail to Blackstone Ridge.

TJK/kf

Attachment: Resolution  
December 22, 2015 email requesting Deanovic easements  
Title sheet of project plans

CITY OF INVER GROVE HEIGHTS  
DAKOTA COUNTY, MINNESOTA

RESOLUTION APPROVING THE FINAL PLANS AND SPECIFICATIONS AND AUTHORIZING  
ADVERTISEMENT FOR BIDS FOR THE 2015 IMPROVEMENT PROGRAM, CITY PROJECT NO. 2015-  
16 – NWA TRUNK UTILITY IMPROVEMENTS, ARGENTA TRAIL TO BLACKSTONE RIDGE

RESOLUTION NO. \_\_\_\_\_

**WHEREAS**, following a public hearing on November 9, 2015, City Council ordered the project, authorized preparation of final plans and specifications and authorized easement acquisitions.

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF INVER GROVE HEIGHTS, MINNESOTA THAT:**

1. The final plans and specifications for City Project No. 2015-16 are approved.
2. City Engineer or his professional consultants are hereby authorized to advertise for bids for said project.
3. The contract for these improvements shall be let no later than three years after the adoption of this resolution.
4. The Council authorizes the use of Fund 511 Water NWA and Fund 512 Sewer NWA to finance the project utilizing fees collected at the time of development and permitting of related NWA developments.

Adopted by the City Council of Inver Grove Heights this February 8, 2016.

AYES:  
NAYS:

\_\_\_\_\_  
George Tourville, Mayor

ATTEST:

\_\_\_\_\_  
Michelle Tesser, City Clerk

## Thomas J. Kaldunski, P.E.

---

**From:** Matthew Storm [matthews@elsco.net]  
**Sent:** Tuesday, December 22, 2015 1:28 PM  
**To:** Thomas J. Kaldunski, P.E.  
**Subject:** Deanovic

Jim:

I have spoken with Tom Kaldunski and the reason for the easement needs are as follows:

1. The City of Inver Grove Heights needs to preserve the construction schedule for the sewer and water. If the City does not have the right to construct through easement or plat they cannot build the facility.
2. The easement is for both permanent and temporary easement, the plat will not cover the temporary easement.
3. The city could "hold" the easements until the plat and construction is completed. We would not record the document.
4. The facilities being constructed are to the mutual benefit of both parties.

The City has three avenues to obtain easement rights and they are by easement document, plat or eminent domain. The City would need to file for eminent domain soon due to the length of time to obtain easement rights through the court action, we do not wish to go this route.

It is my understanding that a meeting is being scheduled with the City to discuss the plat in more detail in the next couple of weeks. The easement could be signed at that time to preserve the construction schedule.

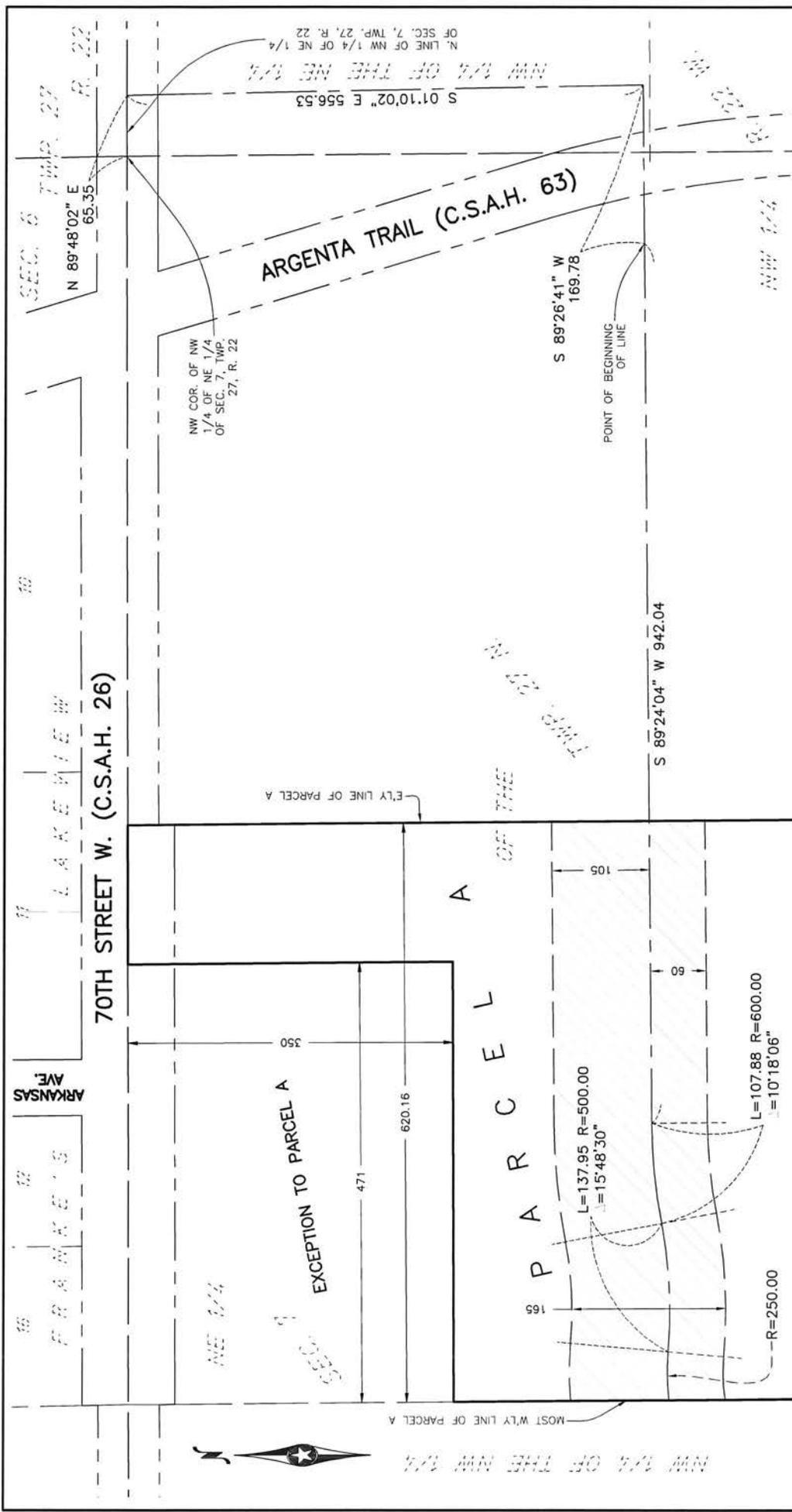
If you would desire to have a conference call with Tom and myself I could set one up for tomorrow afternoon or Thursday morning, please let me know if you would be interested in this call.

Thank you.

Matt

Matthew Storm  
President  
Evergreen Land Services  
4131 Old Sibley Memorial Hwy.  
Suite 201  
Eagan, MN 55122  
Phone - 651-882-0200  
Cell - 612-875-3460  
Fax - 651-882-6564  
[matthews@elsco.net](mailto:matthews@elsco.net)





**EASEMENT EXHIBIT**  
 INVER GROVE HEIGHTS, MN

**BOLTON & MENK, INC.**  
 Consulting Engineers & Surveyors  
 12224 NICOLLET AVENUE  
 BURNSVILLE, MINNESOTA 55337  
 (952) 890-0509

FOR: CITY OF INVER GROVE HEIGHTS

FILE NO. 5008  
 57-T27-R22-21

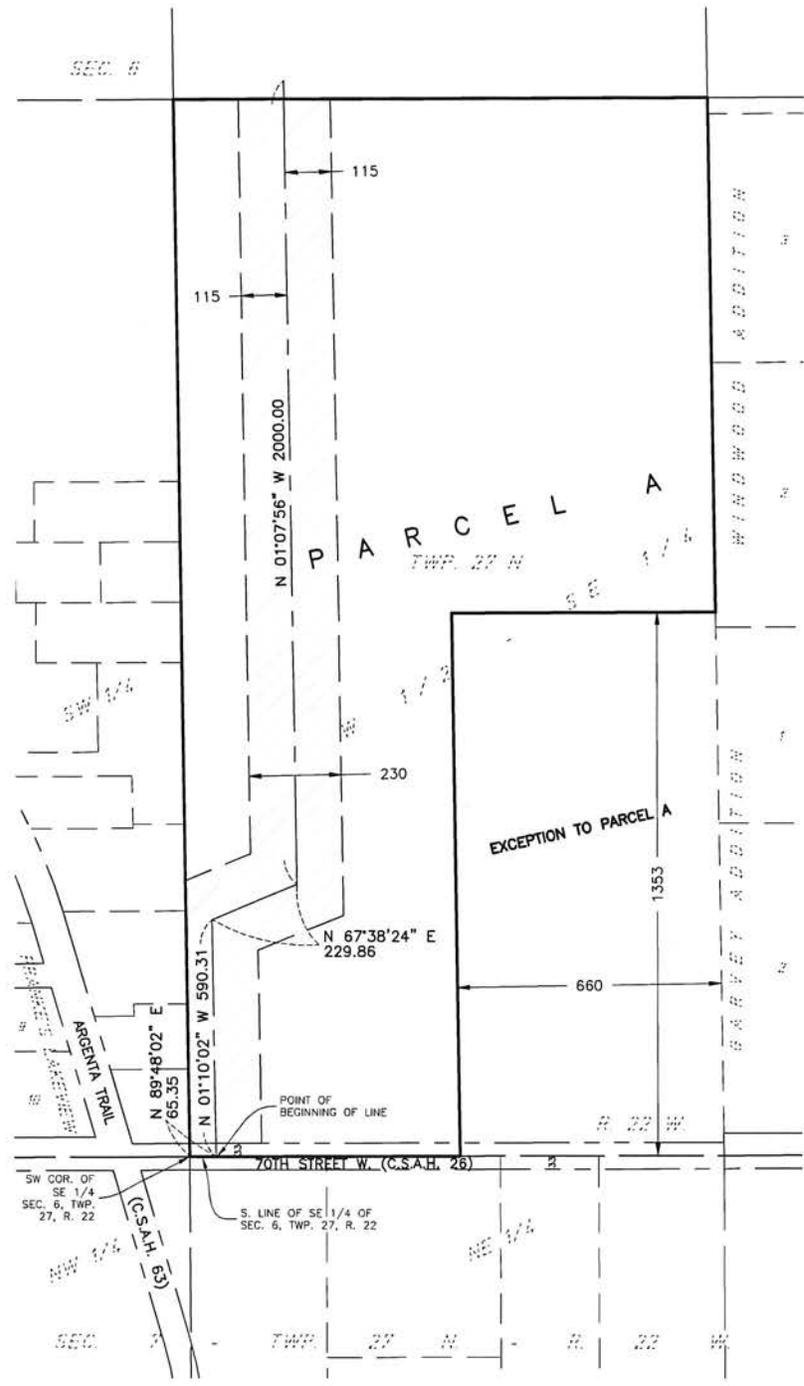
SHEET 2 OF 2 SHEETS

JOB NUMBER: T18.108658 FIELD BOOK: SEE FILE DRAWN BY: MML

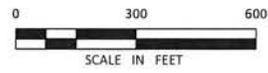
©Bolton & Menk, Inc. 2016, All Rights Reserved  
 H:\INGH\T18108658\CA0\C30\U08658EA4-RZ.DWG 01-14-2016 8:10a.m.

PROPOSED TEMPORARY CONSTRUCTION EASEMENT (107,534 SQ. FT.)

SCALE IN FEET  
 0 100 200



PROPOSED TEMPORARY CONSTRUCTION EASEMENT (597,892 SQ. FT.)



SHEET 2 OF 2 SHEETS

<p><b>EASEMENT EXHIBIT</b> 1487 70TH STREET W., INVER GROVE HEIGHTS, MN</p>		<p>PART OF: W 1/2 OF THE SE 1/4 SEC. 6, TWP. 27, R. 22 DAKOTA COUNTY, MN</p> <p>FOR: CITY OF INVER GROVE HEIGHTS</p>
<p><b>BOLTON &amp; MENK, INC.</b> Consulting Engineers &amp; Surveyors 12224 NICOLLET AVENUE BURNSVILLE, MINNESOTA 55337 (952)-890-0509</p>		

H:\INGH\T18108658\CAD\C3D\SD\B108658G

©Bolton & Menk, Inc. 2016,  
All Rights Reserved

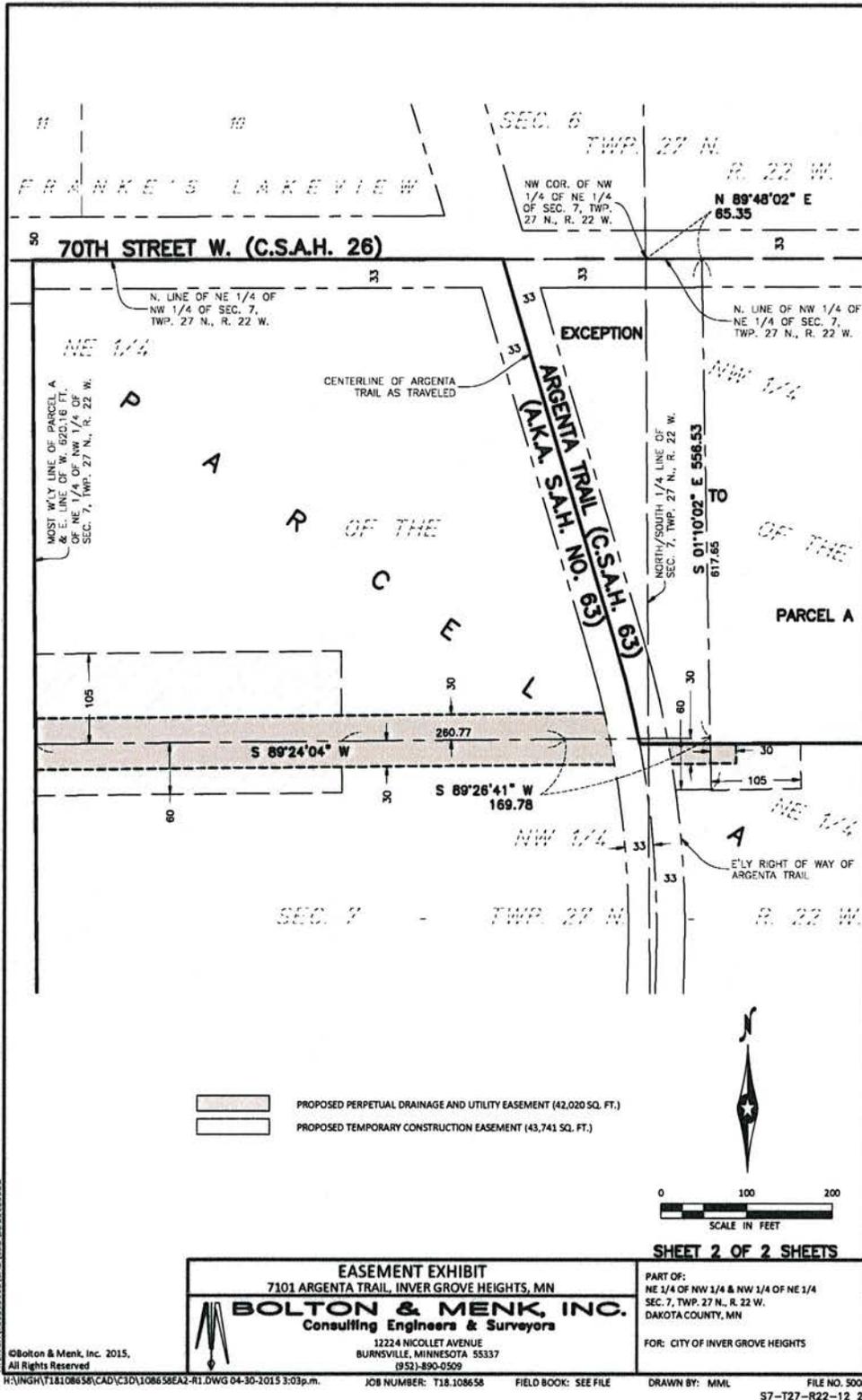
H:\INGH\T18108658\CAD\C3D\108658EA7.DWG 01-15-2016 11:05a.m.

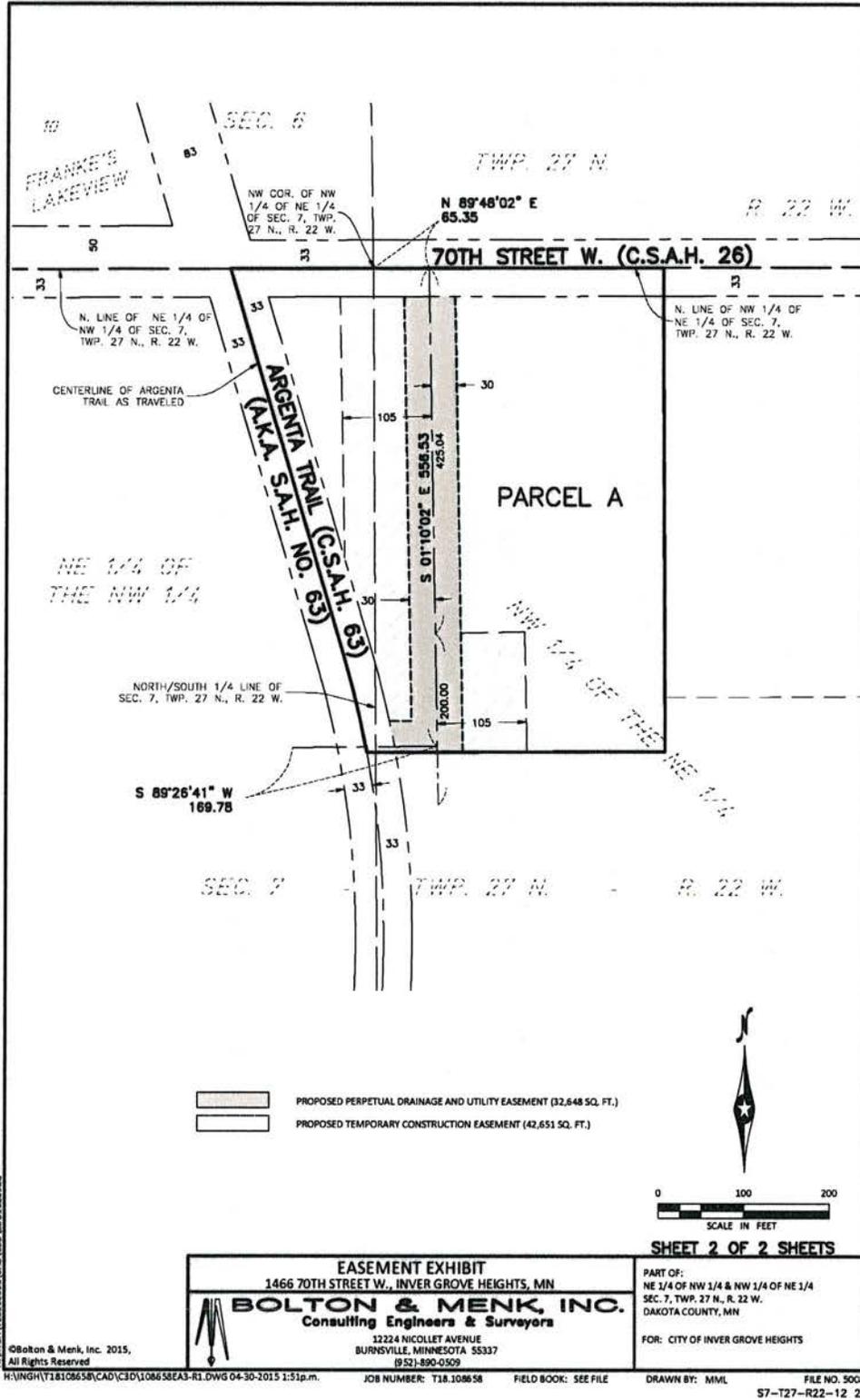
JOB NUMBER: T18.108658

FIELD BOOK: SEE FILE

DRAWN BY: MML

FILE NO. 5008  
56-T27-R22-42 43







**CITY OF INVER GROVE HEIGHTS**

**REQUEST FOR COUNCIL ACTION**

---

**PERSONNEL ACTIONS**

Meeting Date: February 8, 2016  
Item Type: Consent  
Contact: Joe Lynch, City Administrator  
Prepared by: Carrie Isaacson, Admin Svc Coord  
Reviewed by: Janet Shefchik, HR Manager

**Fiscal/FTE Impact:**

- |                                     |                                    |
|-------------------------------------|------------------------------------|
| <input checked="" type="checkbox"/> | None                               |
| <input type="checkbox"/>            | Amount included in current budget  |
| <input type="checkbox"/>            | Budget amendment requested         |
| <input type="checkbox"/>            | FTE included in current complement |
| <input type="checkbox"/>            | New FTE requested – N/A            |
| <input type="checkbox"/>            | Other                              |

**PURPOSE/ACTION REQUESTED** Staff requests that the Council approve the personnel actions listed below:

**Please confirm the Part-Time/Seasonal/Temporary employment of:** Silverita Roesner (VMCC/Fitness)

**Please confirm the Termination of:** Jessica Billmeyer, Sergeant and John Schmeling, Senior Engineering Technician



# ANNUAL REPORT

FY 2015

*The mission of the Inver Grove Heights Convention & Visitors Bureau is to market and promote Inver Grove Heights to visitors to maintain and stimulate the community's economic vitality.*

# TABLE OF CONTENTS

## Contents

To Our Stakeholders _____	1
Economic Impact of Tourism _____	2
Inver Grove Heights CVB Financial Summary _____	4
2015 Marketing & Advertising Campaign _____	5
Focus for 2016 _____	9
Organization Information _____	10

# INVER GROVE HEIGHTS...CLOSER THAN YOU THINK

## To Our Stakeholders

### MISSION

Mission: To market and promote Inver Grove Heights to visitors to maintain and stimulate the community's economic vitality.

### VISION

To generate measurable lodging tax growth and tourism and hospitality related economic impact for the City of Inver Grove Heights.

### CVB PURPOSE

The purpose of the Inver Grove Heights Convention & Visitors Bureau is to market and promote the City as a tourist destination.

### FINANCIAL HIGHLIGHTS

The Inver Grove Heights Convention & Visitors Bureau has generated over \$1 million in local lodging tax revenues since its inception in December 2001. The annual Inver Grove Heights CVB budget has been increasing considerably year-over-year due to incremental growth of visitor traffic and lodging in our community. ***In 2015, the lodging tax revenue collected exceeded the total 2015 lodging tax revenue budget by 18 percent, exceeded the total CVB budget by 8.5 percent, and exceeded the previous year's (2014) lodging tax revenues collected by 7.8 percent.***

### LOOKING AHEAD

The Inver Grove Heights Convention & Visitors Bureau Board of Directors identified key objectives for increasing tourism and hospitality related economic impact for Inver Grove Heights in 2016. Through digital display marketing campaigns, content enhancement (native advertising, social media, video and print), niche communication, partnerships and education on the impact of tourism on our local economy, the Inver Grove Heights CVB plans to grow its lodging tax base by 10 percent in 2016.

Best Regards,

Don Heikkila  
Chairman of the Board



Nicole Bengtson  
Director

# INVER GROVE HEIGHTS...CLOSER THAN YOU THINK

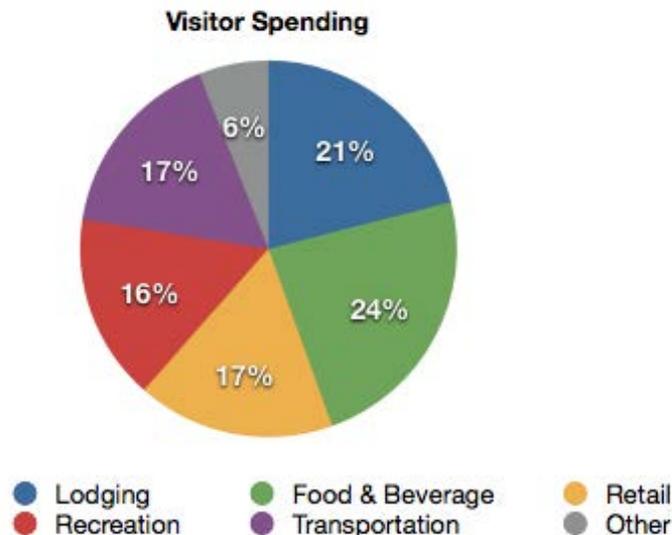
## Economic Impact of Tourism

### WHY IS TOURISM IMPORTANT TO YOU?

#### **More Visitors = More Economic Vitality**

#### MINNESOTA TOURISM GENERATES:

- \$13.6 billion a year in gross sales, or \$37 million per day in tourism-related economic impacts
- 254,400 full and part-time jobs, or 11% of MN's private sector employment
- \$4.7 billion in wages – dollars that are largely spent in the community
- \$878 million a year in state sales taxes, or 17% of all state sales tax revenues



79% of visitor dollars are spent on “Main Street” and throughout the community. This includes food and beverage, retail, recreation, transportation and other spending. The remaining 21% of visitors’ dollars are spent on lodging.

*(Note: Data for leisure and hospitality sector, 2014 – attachment Tourism & Minnesota’s Economy)*

#### METRO AREA TOURISM GENERATES:

- \$9.2 billion a year in gross sales
- \$599 million in sales taxes
- 164,178 full and part-time jobs

# INVER GROVE HEIGHTS...CLOSER THAN YOU THINK

DAKOTA COUNTY TOURISM GENERATES THE THIRD HIGHEST SALES AND PRIVATE SECTOR EMPLOYMENT IN THE STATE!

- \$817 million a year in gross sales
- \$53.7 million in sales taxes
- 17,379 full and part-time jobs

2015 INVER GROVE HEIGHTS TOURISM GENERATED:



**\$106,000**  
annual lodging tax receipts



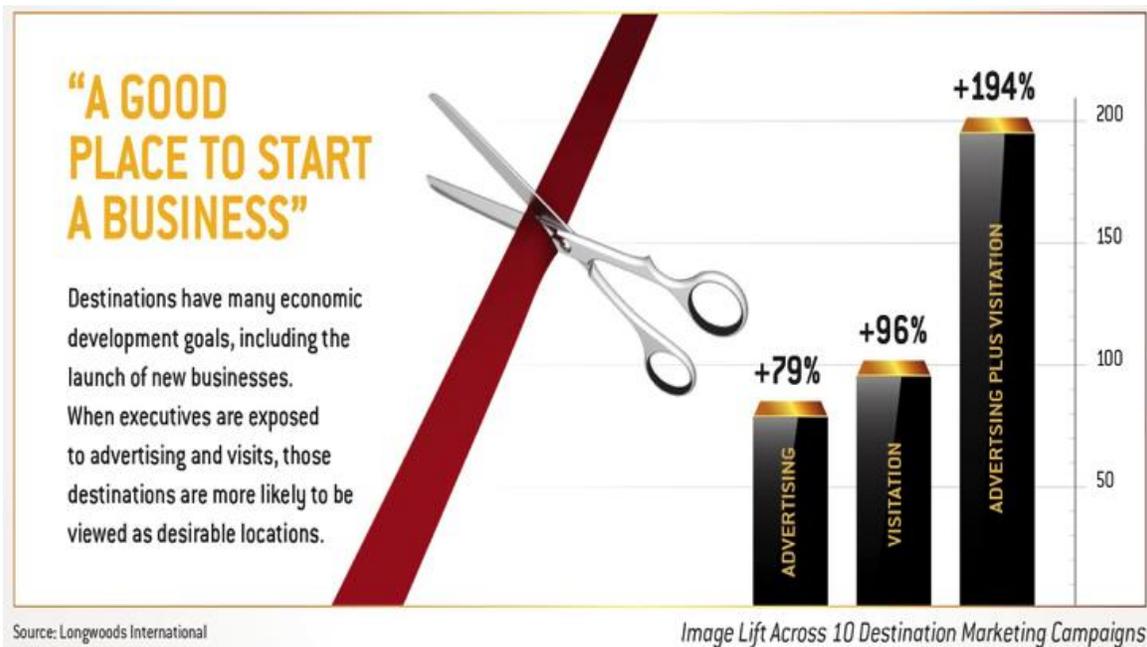
**\$5.3 million**  
lodging revenues



**\$19.9 million**  
visitor spending in the community

*This is based upon 21 percent of visitors' spending on lodging and 79 percent spent in the area.*

ECONOMIC DEVELOPMENT FOLLOWS TOURISM



# INVER GROVE HEIGHTS...CLOSER THAN YOU THINK

## Inver Grove Heights CVB Financial Summary

### IGH CVB FUND BALANCE STATEMENT AS OF 12/31/15 ADJUSTED\*

- Total Assets - \$128,961
  - Total Liability - \$0
  - Equity – Total beginning equity \$114,060
  - Total Revenue \$116,516
    - Total Expense \$101,615
    - Revenues Over/Under Expenses \$14,901
  - Total Liabilities, Equity and Current Surplus (Deficit) - \$128,961
- \*2015 account activity may be adjusted and is not final until all accounts are recorded by April 2016.*

### PRIOR-YEAR COMPARATIVE INCOME STATEMENT ACCOUNT SUMMARY

#### INVER GROVE HEIGHTS CVB ANNUAL BUDGET VS. YTD ACTIVITY

	2015 BUDGET	2015 ACTIVITY ADJUSTED*	2014 YTD ACTIVITY
LODGING TAX REVENUE TOTAL	\$90,000	\$106,361	\$98,691
REVENUE TOTAL (INCL. GRANTS)	\$98,000	\$116,516	\$104,193
EXPENSE TOTAL	\$98,000	\$101,615	\$75,325
CVB FUND ANNUAL SURPLUS (DEFICIT) TOTAL	\$0	\$14,901	\$28,868

### LODGING TAX REVENUES OVER PAST THREE YEARS

#### ANNUAL LODGING TAX BUDGET & ANNUAL LODGING TAX REVENUE COMPARISON

	2015	2014	2013
LODGING TAX REVENUE (LTR) GENERATED	\$106,361 7.8% over 2014 LTR 18% over LTR Budget	\$98,691 15.4% over 2013 LTR 13.4% over LTR Budget	\$85,530 7.2% over 2012 LTR 3.0% over LTR Budget
LODGING TAX REVENUE BUDGET	2015 \$90,000	2014 \$87,000	2013 \$83,000
LODGING TAX REVENUE GENERATED DEC. 2001 - DEC. 2015	DEC. 2001 - 2015 \$1,072,106		

# INVER GROVE HEIGHTS...CLOSER THAN YOU THINK

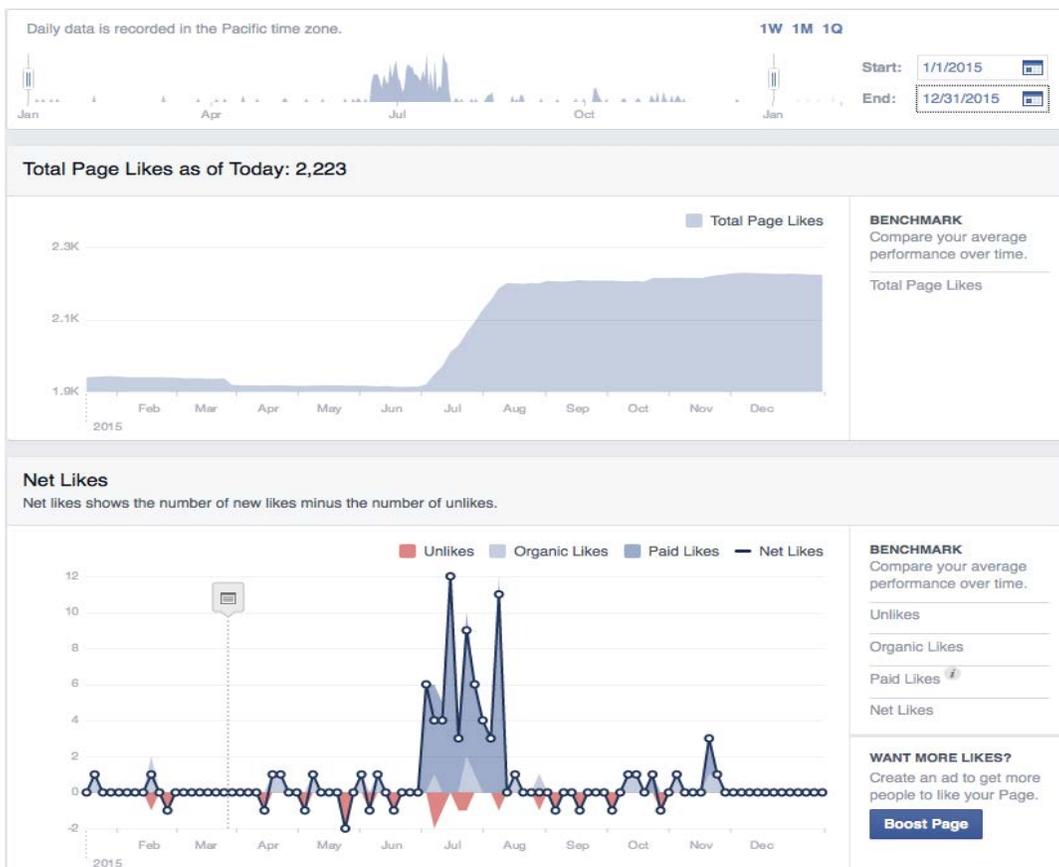
## 2015 Marketing & Advertising Campaign

### MARKETING STRATEGY

Inver Grove Heights CVB developed marketing initiatives to reach its target markets (Midwest region including Wisconsin, Iowa, southern Minnesota, Nebraska and others). The marketing partnerships included a mix of digital and print advertising with Xcel Energy Center, St. Paul Saints, Minnesota State Fair and the Minneapolis-St. Paul Official Visitors Guide. The CVB also partnered with Town Square Television to produce professional video footage to promote Inver Grove Heights on *The Minnesota Traveler* (TV show) and locally through the Minnesota Vixen sponsorship, CVB website ([www.visitigh.com](http://www.visitigh.com)) and social media. These initiatives also showcased local establishments, parks and recreation, local events and attractions on the CVB website and social media.

### SOCIAL MEDIA SUMMARY

The Inver Grove Heights CVB grew its Facebook page fan base by 14.5% in 2015 and has over 2,200 fans. The IGH CVB strategy was to generate visitor traffic through Facebook marketing campaigns, contests (sweepstakes), advertising and promoting area events and attractions to our target markets and fan base.



*Spiked activity reflects paid promotion of IGH CVB's marketing campaigns on Facebook*

# INVER GROVE HEIGHTS...CLOSER THAN YOU THINK

## FACEBOOK SWEEPSTAKES CAMPAIGN SAMPLE:

- October: Minnesota vs. Nebraska Game Day Package
- Campaign dates: Oct. 3-10, 2015
- Channels: Facebook boost posts and sponsored ads
- Markets: Columbus, Lincoln, Omaha, Grand Island, NE

## 2015 ADVERTISING CAMPAIGNS:

### INVER GROVE HEIGHTS BUCKET LIST SWEEPSTAKES



**Visit Inver Grove Heights, Minnesota**  
Published by Kristina Murto [?] · October 3, 2015 ·

Enter to win a Minnesota vs Nebraska Game Day Package!  
2 Tickets to the Game, Saturday October 17 at TCF Bank Stadium  
An Overnight Stay for 2 at Microtel Inn & Suites by Wyndham  
\$25 Gift Card to B-52's Burgers & Brew  
Winner will be chosen and notified on Friday, October 9... [See More](#)

ENTER FOR A CHANCE TO WIN TWO TICKETS & OVERNIGHT STAY IN INVER GROVE HEIGHTS  
MINNESOTA VS NEBRASKA • OCTOBER 17 • TCF BANK STADIUM

Enter to win a Minnesota vs Nebraska Game Day Package!  
MINNESOTANEBRASKA.PGTB.ME

9,139 people reached [View Results](#)

- June-July: Win a Chance to Create Your Ultimate Twin Cities Vacation Experience #IGHBUCKETLIST
- Campaign dates: June 19-July 26, 2015
- Channels: Facebook, behavioral target email (provided by Ad Taxi Networks) and digital marketing (display internet advertising- provided by Charter Media)
- Banner Ad Campaign Summary: 258,576 total impressions, 2,633 total engagements, 22,519 retargeting impressions
- Audiences:
  - Women age 25-55, (interests: shopping, traveling, entertainment, household income \$75K+)
- Markets:
  - Western WI 60% (Lacrosse, Eau Claire, Madison) – 45,000 behavioral targeted emails
  - Northern IA 15% (Waterloo) – 11,250 behavioral targeted emails
  - Southern MN 25% (Rochester) – 18,750 behavioral targeted emails

# INVER GROVE HEIGHTS...CLOSER THAN YOU THINK

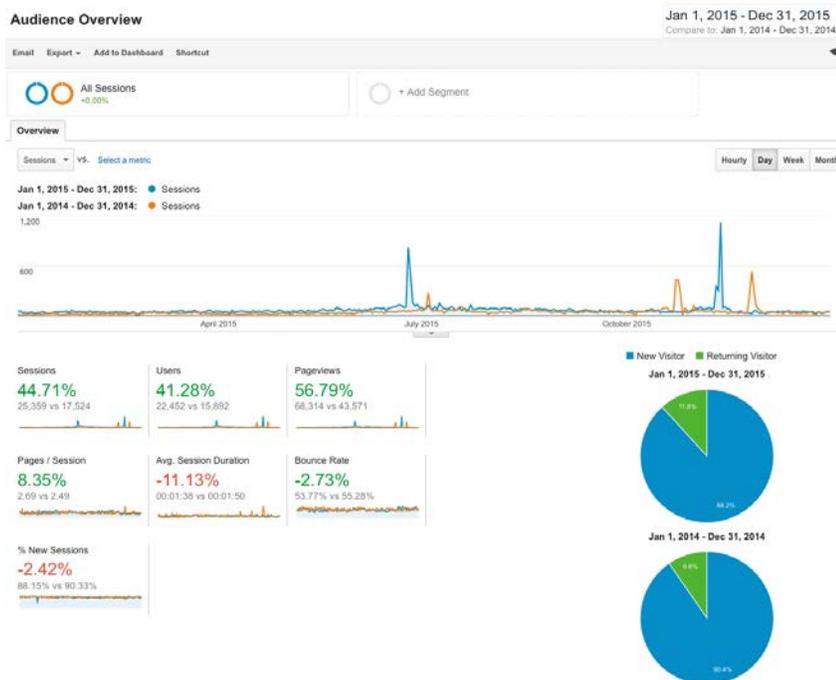
## INVER GROVE HEIGHTS PICK YOUR PASSION SWEEPSTAKES

- November: Pick Your Passion Sweepstakes (Fanatic for Football or Mad for the Mall)
- Campaign dates: end of Oct. - Nov. 19, 2015
- Channels: Facebook, behavioral target email (provided by Ad Taxi Networks) and digital marketing (display internet advertising- provided by Charter Media)
- Audiences:
  - Women age 25-55, (interests: shopping, traveling, entertainment, household income \$75K+)
  - Men age 25-55, (interests: college football, traveling, entertainment, household income \$75K+)
- Markets:
  - Western WI 60% (Lacrosse, Eau Claire, Madison)
  - Northern IA 15% (Waterloo)
  - Southern MN 25% (Rochester)



## WEBSITE

The Inver Grove Heights CVB launched a new website design and platform in 2015 to enhance the visitors experience online and when visiting Inver Grove Heights. Visitor sessions increased by 45% and users increased by 41 percent over the previous year.



# INVER GROVE HEIGHTS...CLOSER THAN YOU THINK

## THE MINNESOTA TRAVELER TELEVISION FEATURED SEGMENT

The Inver Grove Heights CVB participated in a regional marketing initiative with a new TV show called *The Minnesota Traveler* that featured 13 original episodes and various Minnesota communities throughout the state. Inver Grove Heights was showcased in a featured segment as a travel destination. The segment/episode aired a minimum of 12 times each (six times on Fox Sports North and six times on Fox Sports Wisconsin). The episode that featured Inver Grove Heights first aired in August and then 13 weeks later in November. Inver Grove Heights partnered with the Metro Tourism Committee to expand their reach and marketing dollars to be a part of a full half-hour episode showcasing the Minneapolis-St. Paul metro area.

## VIDEO PARTNERSHIP WITH TOWN SQUARE TELEVISION

The Inver Grove Heights CVB partnered with Town Square Television to support the Minnesota Vixen professional women's football team that played its home games in Inver Grove Heights. The visiting teams in this football league are all part of the CVB's Midwest target market. The partnership and sponsorship with Town Square Television included CVB advertisements with IGH hotel information and highlighted professional video footage from local attractions such as the Rock Island Swing Bridge, Inver Wood Golf Course, biking, disc golf and the indoor waterpark. Two 30-second and 10-second video spots were professionally produced to market and promote Inver Grove Heights to visitors and remind the local community of the fun in our own backyards.



## STRATEGIC PARTNERSHIPS



Inver Grove Heights CVB partners with the Metro Tourism Committee (area CVBs and Explore Minnesota Tourism) by participating in a \$150,000 regional marketing campaign to collectively maximize the area's advertising dollars and generate greater brand awareness, website traffic and ultimately visitors to Inver Grove Heights and the Minneapolis-St. Paul area. The IGH CVB also partnered on marketing initiatives with Twin Cities Tourism Attractions Association, Tour Minnesota Association, Minnesota Association of Convention & Visitors Bureaus and Explore Minnesota to build relationships and increase exposure to Inver Grove Heights.

# INVER GROVE HEIGHTS...CLOSER THAN YOU THINK

## Focus for 2016

### INVER GROVE HEIGHTS CONVENTION & VISITORS BUREAU BOARD OF DIRECTORS

The Inver Grove Heights CVB Board of Directors includes seven seats representing Inver Grove Heights hotels, local restaurants and businesses, an area attraction and the City of Inver Grove Heights.

- Chairman: Don Heikkila, Microtel Inn & Suites
- Treasurer: Joe Harms, Mississippi Pub
- Board Member: Rahul Kansara/Reazul Islam, Holiday Inn Express
- Board Member: Jessica Robinette, AmericInn Hotel & Suites
- Board Member: Joe Lynch, City of Inver Grove Heights
- Board Member: Jodie Miller, Town Square Television
- Board Member: Samantha Sommers, Mall of America
- Director: Nicole Bengtson, Inver Grove Heights CVB (non-voting member)

The Board and staff held two facilitated meetings in December 2015 for Board development, training and strategic planning for the future. With the help of professional industry experts who are seasoned veterans in board development, and in the Minnesota/metro tourism industry, the CVB Board and staff created a 2016 work plan and discussed longer-term strategic planning. The plan will be finalized in early 2016 and available upon request.

### DISCUSSIONS INCLUDED:

- Strengthening the cooperation with the City of Inver Grove Heights for promotion of City events and attractions
- Further exploring the development of a “signature event” (in partnership with the City and other local entities) to draw visitors to Inver Grove Heights and help “put IGH on the map”
- Capitalizing on the hotels’ proximity to the Mall of America, airports, Xcel Energy Center, CHS Field, Twin Cities Premium Outlets and the future Vikings complex, to attract visitors to Inver Grove Heights and encourage them to discover businesses and attractions in our community
- Enhancing our tourism awareness and marketing outreach efforts in the community, to use our own residents and businesses as ambassadors for the enrichment of Inver Grove Heights economic vitality

For each of the strategic goals/objectives listed below, the Board and staff have identified specific tasks and developed measurable outcomes that will be monitored and reviewed on a regular basis.

### KEY STRATEGIC GOALS/OBJECTIVES

- Generate incremental weekend leisure business during the 1st and 4th Quarter of 2016 and define the reach to our identified target markets.
- Content Enhancement
- Increase Tourism Awareness
- Establish criteria, measurements and analytics to measure outcomes of objectives
- Review, evaluate and revise as needed CVB organization

# INVER GROVE HEIGHTS...CLOSER THAN YOU THINK



## Organization Information

Inver Grove Heights Convention & Visitors Bureau  
5782 Blackshire Path, Inver Grove Heights, MN 55076

Tel 651.451.2266

800.584.4281

[www.visitigh.com](http://www.visitigh.com)



/VisitIGH



@VisitIGH



/VisitIGH



/VisitIGH



## Economic Impact: Sales and Jobs

Travel/tourism in Minnesota generates:

### SALES

- \$13.6 billion in gross sales
- More than \$37 million a day

### JOBS

- 254,400 full- and part-time jobs
- 11% of total private sector employment
- \$4.7 billion in wages

### REVENUE

- \$878 million in state sales tax
- 17% of state sales tax revenues

Note: Data for leisure & hospitality sector, 2014

## International Travel to Minnesota

Minnesota's appeal as a travel destination extends across the globe, including:

- 633,00 Canadian travelers on overnight trips
- 258,000 additional international travelers from other countries

Note: Canadian estimate is for 2014; Estimate for other countries is 2012-2014 annual average

## Growth in the tourism industry

Sales at leisure and hospitality businesses grew 37% from 2004 to 2014, including 5% annual growth for 2014.



Leisure & Hospitality Gross Sales (in billions) 2004-2014

## Impacts of state tourism advertising

- 3.2 million Minnesota trips
- \$337.4 million traveler spending
- \$31.2 million direct state and local taxes
- 2.6 million additional intended trips in next 12 months
- \$75 to \$1 traveler spending return on ad investment
- \$7 to \$1 state and local tax return on ad investment

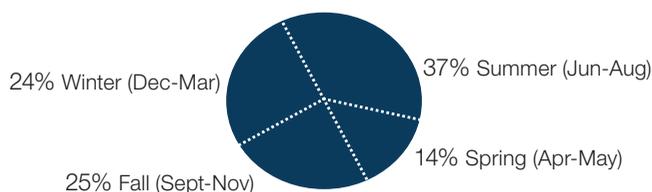
Note: Impacts of Explore Minnesota's spring/summer 2015 advertising

## Minnesota ranking among states

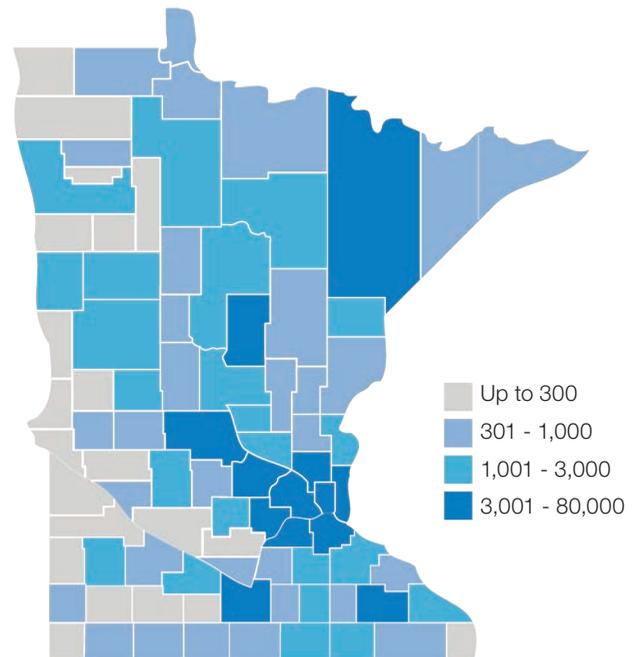
The economic impact of travel & tourism in Minnesota ranks significantly higher compared to other states in:

Traveler Spending	22 <sup>nd</sup>
Travel-Generated Employment	18 <sup>th</sup>
Travel-Generated Payroll	15 <sup>th</sup>
Travel-Generated Tax Receipts	10 <sup>th</sup>

## Traveler expenditures by season



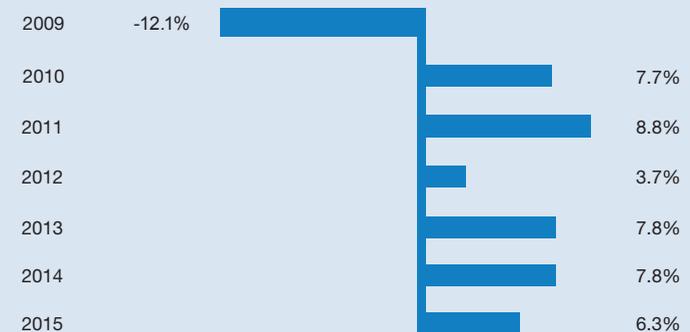
## Leisure & hospitality jobs by county, 2014



- Travel & tourism creates jobs and generates sales in every county of Minnesota.
- Tourism jobs represent all levels of employment, from important entry-level service jobs to high-paying executive positions.
- Traveler spending indirectly supports jobs in many other industries, as well, from financial services to printing.

## Change in room revenue

Source: STR, Inc.



After a decline in room revenue in 2009 due to the recession, Minnesota lodging properties have seen annual increases in room revenue.

## Traveler spending by sector

Spending during Minnesota's 69 million annual person-trips (including overnight and day trips) is distributed throughout the economy:

- Food 23.5%
- Lodging 21%
- Retail 17%
- Recreation 16%
- Transportation 16.5%
- Second Homes 6%

Find more information at: [industry.exploreminnesota.com](http://industry.exploreminnesota.com)

Sources: Minnesota 2015 Tourism Advertising Evaluation, Longwoods International; The Economic Impact of 2013 Travel in Minnesota, Tourism Economics; The Economic Impact of Expenditures by Travelers on Minnesota, June 2007-May 2008, Davidson-Peterson Associates; Minnesota Department of Revenue, 2014; Minnesota Department of Employment and Economic Development, 2014; Bureau of Labor Statistics; U.S. Travel Association; U.S. Department of Commerce, National Travel and Tourism Office, 2012-2014; Statistics Canada, 2014.

# Economic Impact by County

## Minnesota's Leisure and Hospitality Industry, 2014

	Gross Sales	Sales Tax	Private Sector Employment		Gross Sales	Sales Tax	Private Sector Employment
<b>Minneapolis - St. Paul Area</b>				<b>Southern Minnesota</b>			
Anoka	\$515,671,031	\$34,771,223	12,164	Big Stone	\$4,521,180	\$326,513	116
Carver	\$167,402,057	\$11,119,607	3,804	Blue Earth	\$178,359,038	\$11,631,162	3,963
Chisago	\$60,511,475	\$3,936,536	1,461	Brown	\$37,537,540	\$2,515,410	1,136
Dakota	\$817,349,108	\$53,729,727	17,379	Chippewa	\$15,833,603	\$1,107,936	384
Hennepin	\$4,681,048,376	\$307,267,775	79,869	Cottonwood	\$10,118,032	\$694,832	274
Isanti	\$33,960,959	\$2,378,311	951	Dodge	\$11,546,686	\$811,695	423
Ramsey	\$1,878,232,243	\$121,713,288	27,482	Faribault	\$11,065,714	\$739,566	301
Scott	\$353,798,403	\$19,830,978	5,896	Fillmore	\$20,026,267	\$1,411,494	629
Washington	\$477,244,735	\$32,203,251	10,700	Freeborn	\$44,426,704	\$3,011,110	1,009
Wright	\$207,778,783	\$12,010,512	4,472	Goodhue	\$69,953,034	\$4,750,068	1,803
<b>Region Total</b>	<b>\$9,192,997,170</b>	<b>\$598,961,208</b>	<b>164,178</b>	Houston	\$9,921,296	\$681,019	257
<b>Central Minnesota</b>				Jackson	\$10,478,233	\$682,046	318
Aitkin	\$21,303,335	\$1,429,108	474	Lac Qui Parle	\$4,059,040	\$277,276	98
Benton	\$54,806,319	\$3,654,142	1,328	Le Sueur	\$27,358,861	\$1,726,275	619
Crow Wing	\$219,764,993	\$13,723,626	3,969	Lincoln	\$4,078,741	\$296,194	102
Douglas	\$108,111,248	\$7,272,122	2,217	Lyon	\$70,864,422	\$3,251,500	1,377
Grant	\$2,178,720	\$129,392	46	Martin	\$34,217,605	\$2,185,015	807
Kandiyohi	\$88,229,427	\$5,462,315	1,637	Mower	\$50,175,741	\$3,309,800	1,228
McLeod	\$42,143,380	\$2,804,361	1,290	Murray	\$8,116,516	\$565,976	177
Meeker	\$18,578,868	\$1,251,223	502	Nicollet	\$35,372,248	\$2,439,473	926
Mille Lacs	\$47,710,177	\$2,605,451	885	Nobles	\$27,632,132	\$1,891,472	718
Morrison	\$40,789,850	\$2,820,276	1,045	Olmsted	\$445,238,740	\$29,345,590	8,316
Otter Tail	\$87,332,472	\$5,839,655	2,055	Pipestone	\$11,098,269	\$763,735	316
Pope	\$14,920,237	\$970,748	345	Redwood	\$25,863,966	\$1,844,768	416
Sherburne	\$82,294,708	\$5,245,656	2,163	Renville	\$7,679,065	\$540,555	264
Stearns	\$310,680,454	\$20,514,081	7,449	Rice	\$155,337,179	\$6,488,858	2,339
Stevens	\$16,147,681	\$930,812	351	Rock	\$10,431,131	\$727,352	261
Todd	\$19,966,823	\$1,386,165	365	Sibley	\$8,260,746	\$593,366	178
Wadena	\$15,559,350	\$1,060,268	388	Steele	\$69,652,276	\$4,278,490	1,543
<b>Region Total</b>	<b>\$1,190,518,042</b>	<b>\$77,099,401</b>	<b>26,509</b>	Swift	\$8,939,780	\$641,835	221
<b>Northwest Minnesota</b>				Traverse	\$1,932,793	\$135,744	0
Becker	\$79,053,922	\$5,090,534	1,552	Wabasha	\$27,002,096	\$1,775,116	777
Beltrami	\$92,827,650	\$6,031,109	2,192	Waseca	\$14,339,431	\$960,951	420
Cass	\$104,579,509	\$6,373,522	1,866	Watsonwan	\$7,244,083	\$488,290	205
Clay	\$81,953,715	\$5,310,616	1,945	Winona	\$98,293,435	\$6,650,028	2,331
Clearwater	\$5,707,849	\$418,449	180	Yellow Medicine	\$13,077,134	\$523,746	203
Hubbard	\$31,419,452	\$2,128,812	733	<b>Region Total</b>	<b>\$1,590,052,757</b>	<b>\$100,064,256</b>	<b>34,455</b>
Kittson	\$2,914,505	\$201,451	64	<b>Northeast Minnesota</b>			
Lake of the Woods	\$36,094,180	\$2,010,636	506	Carlton	\$66,832,919	\$3,968,889	1,084
Mahnomen	\$14,286,821	\$974,941	92	Cook	\$59,004,973	\$3,759,244	920
Marshall	\$5,173,475	\$399,428	125	Itasca	\$72,699,353	\$4,578,685	1,458
Norman	\$2,897,790	\$194,171	63	Kanabec	\$13,224,485	\$869,947	336
Pennington	\$25,212,483	\$1,696,670	551	Koochiching	\$29,761,365	\$1,898,140	578
Polk	\$47,697,630	\$2,932,443	1,114	Lake	\$34,781,898	\$2,289,774	896
Red Lake	\$2,320,566	\$168,422	66	Pine	\$66,451,094	\$3,530,607	958
Roseau	\$21,034,459	\$1,346,393	362	St Louis	\$508,749,581	\$34,530,464	10,533
Wilkin	\$4,537,697	\$321,876	127	<b>Region Total</b>	<b>\$851,505,668</b>	<b>\$55,425,750</b>	<b>16,763</b>
<b>Region Total</b>	<b>\$557,711,703</b>	<b>\$35,599,473</b>	<b>11,538</b>	<b>Minnesota Total</b> <b>\$13,622,881,649</b> <b>\$877,706,017</b> <b>254,380</b>			

Notes: State total does not equal the sum of counties or regions because some data is withheld to avoid disclosure of individual businesses; and some state level data is for businesses located outside of Minnesota. The Leisure and Hospitality industry consists of Accommodations; Food Services and Drinking Places; and Arts, Entertainment and Recreation.

Sources: Minnesota Department of Revenue; Minnesota Department of Employment and Economic Development

**INVER GROVE HEIGHTS**

**REQUEST FOR COUNCIL ACTION**

**PARKING OF BOATS AND OTHER NON-MOTORIZED VEHICLES IN THE FRONT YARD**

Meeting Date: February 8, 2016  
Item Type: Regular Session  
Contact: Allan Hunting 651.450.2554  
Prepared by: Allan Hunting, City Planner  
Reviewed by:


**PURPOSE/ACTION REQUESTED**

Request further direction regarding front yard parking regulations as they relate to the parking of boats and other non-motorized vehicles in the front yard.

The Council has raised some concerns regarding the recently approved parking restrictions in the front yard, that the language did not address parking of boats in the front yard and in particular being parked in front of a house. Council asked staff to look into the matter and return with some background information to be discussed at a council meeting.

In November, 2014, Council adopted an ordinance restricting parking of vehicles in the front yard. In summary, the language addressed:

- Allowed parking of any vehicle in the front yard but they must be on a hard surface such as bituminous, concrete or pavers.
- Parking may be on a driveway or on a parking pad that must be adjacent to and contiguous to the driveway.
- Rules only regulate parking in the front yard. No changes to side or rear yard regulations.
- Apply only to urban areas, R districts. Does not apply to A or E (large lot) districts.
- Contains one exception for winter street parking ban period allowing parking in front yard for automobiles only during this period.

The ordinance did not address:

- Does not prohibit parking of trailers, boats, RV's in the front yard.

AS the original ordinance was being formulated, staff contacted a number of nearby cities to obtain their regulations on this type of parking restriction. A matrix spreadsheet was prepared with a summary of automobile and recreational type vehicle parking. This spreadsheet is attached. To help illustrate what is considered a "front yard", I have included two maps that show the boundaries of "yards" as defined in the zoning ordinance and a map showing the definition of a "front yard" as defined in the front yard parking restriction ordinance.

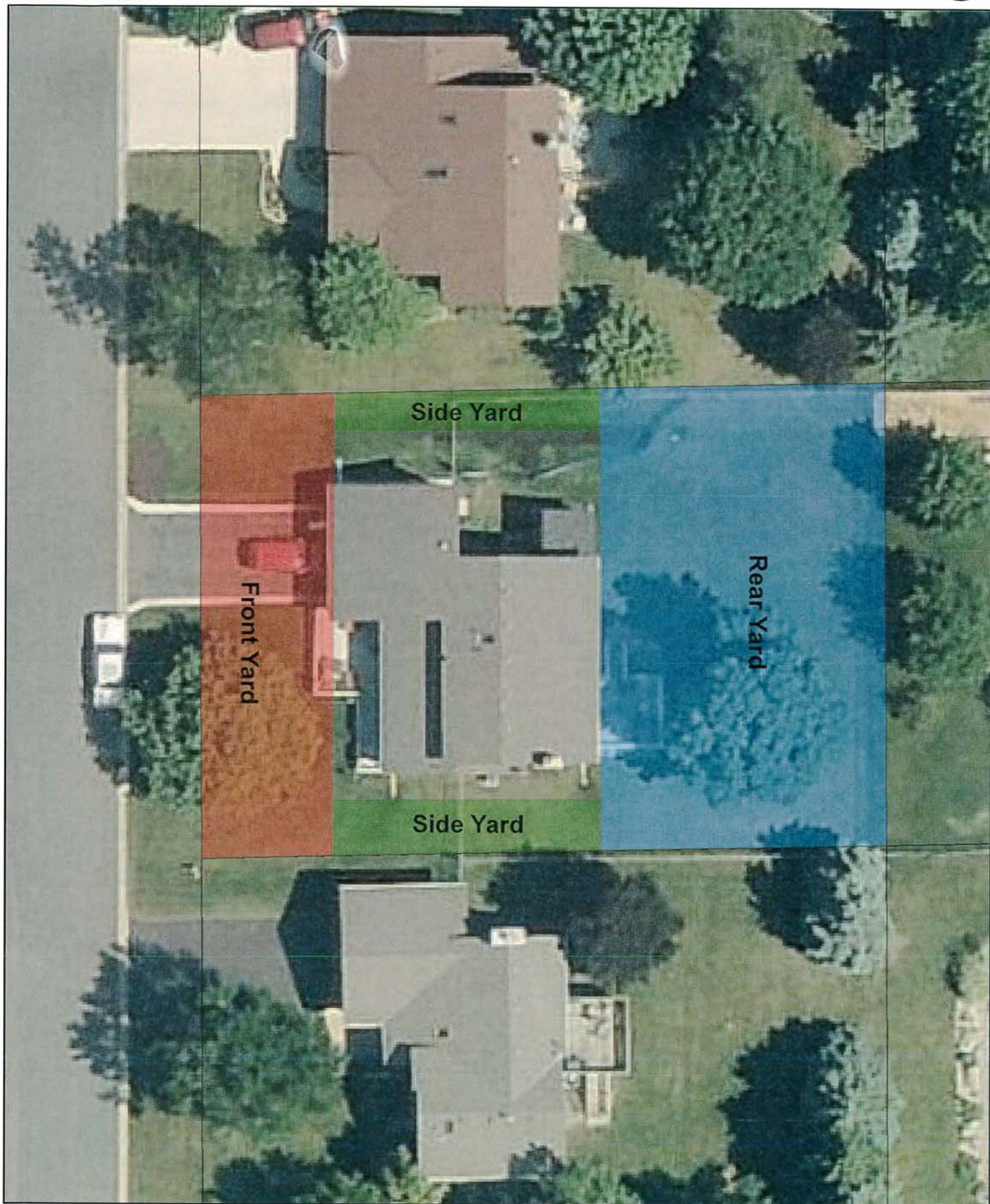
Staff seeks direction from Council on what should any new ordinance language address and next steps to be taken.

Attachment: Matrix of other city regulations  
Map illustrating yards by zoning definition  
Map illustrating front yard per front yard parking regulations

## RV'S/CAMPERS/BOATS/TRAILERS

CITY	Parking in Front Yard	Number of Vehicles Allowed	Surfacing Requirement	Parking Setback
<b>BURNSVILLE</b>	May be parked on driveway only, for a maximum of 14 continuous days	Maximum 2 parked outside for lots less than 1.0 acre. Maximum 4 parked outside for lots greater than 1.0 acre	Parking in front yard allowed only on established driveway. Driveway must be concrete, bituminous or pavers. Parking in the side or rear yard allowed on gravel or hard surface	Must be behind the required front yard setback and no closer than 2 feet from side or 8 feet from rear
<b>ROSEMOUNT</b>	Not allowed except during period April 1 to November 1 and on driveway only	Up to 2 recreational vehicles allowed in side or rear yards. No parking of oversized rec vehicles on urban lots.	Must be parked on bituminous, concrete, pavers or landscape rock	5 foot setback from side and rear. Must be at least 15 feet from curb line on driveway
<b>SOUTH ST. PAUL</b>	Allowed only on driveway in front yard. Allowed in landscaped side or rear yard	Up to 2 recreational vehicles allowed	Larger vehicles must be on hard surface and smaller vehicles allowed on grass surface in side or rear yard	
<b>FARMINGTON</b>	Allowed on driveway only. May not be parked in front of the the principal building	No limit	Allowed only on bituminous, concrete, or decorative landscape rock (no class V or gravel allowed)	5 foot setback from side and rear.

# Map Identifying Yard Definitions





# Illustrates Area Where no Vehicle Parking on Grass is Allowed

