

## MEETING OF THE BOARD OF CITY COMMISSIONERS

AUGUST 23, 2016

The Board of City Commissioners met in regular session on August 23, 2016 at the hour of 5:15 p.m. in the Tom Baker Meeting Room, City/County Office Building, 221 North Fifth Street, Bismarck, North Dakota. There were present: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary.

A Chaplain of the Bismarck Police Department presented the invocation.

1. The Board of City Commissioners considered approval of the minutes of the meeting on August 9, 2016.

Commissioner Marquardt made a motion to approve the minutes. Commissioner Askvig seconded the motion. Upon roll call, the commissioners voted as follows: Ayes: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary. Nays: None, the motion carried.

### 2. CONSENT AGENDA

A. The Board of City Commissioners considered and approved voucher numbers 1066668 to 1066944.

B. The Board of City Commissioners reviewed the personnel actions.

C. The Board of City Commissioners considered the request to call for a public hearing on the request from DCN, LLC (dba Dakota Carrier Network), to apply for a broadband franchise.

D. The Board of City Commissioners considered the request to call for a public hearing on a request from A & B Pizza South, Inc. to locate a new class I-2 liquor license at 600 South Fifth Street, Space 212, Kirkwood Mall (dba A & B Pizza).

E. The Board of City Commissioners considered the request to call for a public hearing on a request from BWR-Bismarck, Inc. to locate a new class F-1 liquor license at 4424 North 15th Street (dba Buffalo Wings & Rings).

F. The Board of City Commissioners considered the request to call for a public hearing to transfer a Class F-1 liquor license at 1800 North 12th Street from WR Bismarck Ventures Limited Partnership (dba Minerva's) to Kelly Midwest Ventures Limited Partnership (dba Capital Street Grill & Bar).

G. The Board of City Commissioners considered the request to call for a public hearing on Ordinance 6232 relating to placement of poles in right-of-way restricted.

ORDINANCE NO. 6232

AN ORDINANCE TO AMEND AND RE-ENACT SECTION 10-05-08 OF THE BISMARCK CODE OF ORDINANCES (REV.) RELATING TO PLACEMENT OF POLES RESTRICTED.

BE IT ORDAINED BY THE BOARD OF CITY COMMISSIONERS OF THE CITY OF BISMARCK, NORTH DAKOTA:

Section 1. Amendment. Section 10-05-08 of the City of Bismarck Code of Ordinances (1986 Rev.) relating to Placement of Poles Restricted is hereby amended and re-enacted to read as follows:

10-05-08. Placement of Poles Restricted. A pole for the holding or conveying of any wire, or wires or cables or any other equipment or installation to be used in connection with the provision of cell, data, telegraph, telephone, cable television, electric lighting, or electric power service or any other utility or communication service to the public, with or without a franchise, may not be placed in any public right-of-way or other public place within the city without prior approval by the city engineer.

Section 2. Severability. If any section, sentence, clause or phrase of this ordinance is for any reason held to be invalid or unconstitutional by a decision of any court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this ordinance.

Section 3. Effective Date. This ordinance shall take effect following final passage, adoption and publication.

H. The Board of City Commissioners considered the following requests from the City Administration Department:

- 1) Approval of the amendment to the artwork agreement for items on display at the Bismarck Event Center.
- 2) Approval to provide financial contribution to support the North Dakota League of Cities Annual Conference.

I. The Board of City Commissioners considered the following requests from the Bismarck Airport:

- 1) Approve the upgrade of the radio system at the airport with Electronic Communications Inc. for \$6,500.
- 2) Approve the Engineering Services Agreement with Kadrmass, Lee & Jackson (KLJ) for Wetland Monitoring.

J. The Board of City Commissioners considered the request from the Community Development Department for approval of Corrective Ordinance 6139 regarding the annexation of Heritage Park Addition and call for a public hearing on the request. Staff recommends approval.

K. The Board of City Commissioners considered the following requests from the Engineering Department:

- 1) Approval of the NDDOT Discharge Permit and the Companion Agreement with Cherry Tree, LLP.
- 2) Approval of the Temporary Encroachment Agreement with Community Contractors, Inc.
- 3) Approval of Contract Change Order No. 1 with Northern Improvement in the amount of \$40,000 for the installation of edge drain pipe in Unit 3 of Street Improvement District 16-506.

L. The Board of City Commissioners considered the following requests from the Finance Department:

- 1) Approval of contract with AssetWorks for Work Order Management System.
- 2) Approval of the extension of the consulting contract the city has with Plante & Moran.

M. The Board of City Commissioners considered the following requests from the Human Resources Department:

- 1) Approval of the St. Alexius Employee Assistance service agreement for the period of September 1, 2016 to August 31, 2017.
- 2) Approval of the Bismarck State College Learning Partners agreement for the period of August 1, 2016 through June 30, 2017.

N. The Board of City Commissioners considered the request from the Bismarck Parking Authority for authorization to sole source contract repairs at the Parkade Ramp.

O. The Board of City Commissioners considered the following requests for resolutions relating to Park Improvement District 16-002 (construction of neighborhood park amenities including playground equipment, a picnic shelter, and parking lot):

- Receiving Bids and Ordering Preparation of Engineer's Statement
- Awarding Contract
- Approving Contract and Contractor's Bond

The President of the Board of City Commissioners announced the hour had arrived for the opening of bids for the construction of Park Improvement District 16-002. The Assistant City Administrator presented an affidavit showing publication in the official newspaper of advertisement for bids, the affidavit was examined, found satisfactory and was directed to be placed on file in the office of the City Administration.

The City Engineer then reported that two sealed bids for the construction of said improvement had been filed in his office prior to the time of this meeting, pursuant to said advertisement, which bids were publicly read and considered, and upon motion duly made, seconded and carried, said bids were directed to be entered upon the

minutes of this meeting. The names of each of the bidders and the estimated cost under terms of each bid based on prices proposed by the bidder and quantities estimated by the City Engineer are as follows:

BIDDER	BID AMOUNT	ALT #1	ALT #2	ALT #3
Capital City Construction	\$219,491.00	\$52,687.00	\$80,338.00	\$25,800.00
Weisz & Sons Inc.	\$216,676.20	\$47,989.00	\$93,531.25	\$20,150.00
Engineer's Estimate	\$239,854.00	\$50,005.00	\$85,780.00	\$20,000.00

Commissioner Askvig introduced the following resolution and moved its adoption:

**RESOLUTION RECEIVING BIDS  
AND ORDERING PREPARATION OF ENGINEER'S STATEMENT  
PARK IMPROVEMENT DISTRICT NUMBER TWO (002)**

BE IT RESOLVED by the Board of City Commissioners of the City of Bismarck, North Dakota, as follows:

1. The Assistant City Administrator is hereby directed to enter upon the minutes of this meeting all bids received for the work and material required for the work to be done in Park Improvement District Number Two (002).
2. The engineer is hereby directed to make a careful and detailed statement of the estimated costs of said bids and upon receipt of the same the Board of City Commissioners shall take such other and further action with reference to said bids as shall be deemed necessary and expedient.

Commissioner Guy seconded that motion. Upon roll call, the Commissioners voted as follows. Ayes: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary. Nays: None, the motion carried.

Commissioner Askvig introduced the following resolution and moved its adoption:

**RESOLUTION AWARDING CONTRACT FOR THE CONSTRUCTION OF  
PARK IMPROVEMENT DISTRICT NUMBER TWO (002)**

BE IT RESOLVED by the Board of City Commissioners of the City of Bismarck, North Dakota, as follows:

1. Notice of advertisement for bids for the construction of Park Improvement District Number Two (002) having been duly published, and all bids received pursuant to said notice having been considered, it is hereby found and determined that the lowest responsible bidder whose bid complies with law and the terms of said advertisement is          of Capital City Construction, of Bismarck, North Dakota, and the estimated bidder's proposal for the construction of the work is \$325,629.00 for the main amount bid plus alternates 2 and 3.

2. Upon the furnishing by the successful bidder of a contractor's bond in the sum not less than the amount of the contract as above estimated, with a surety company authorized to do business in the State of North Dakota, conditioned as required by the provisions of Section 40-22-31 of the North Dakota Century Code, which bond shall be furnished within ten days from the date hereof, a contract for the performance of said work pursuant to the plans and specifications on file in the office of City Administration shall be made and executed by the President and countersigned by the Assistant City Administrator.

3. The Special Assessment Analyst is hereby authorized and directed to retain the bidder's bond furnished by the successful bidder pending the approval of the contractor's bond and the execution of the construction contract, and to return the bonds of the other bidders forthwith.

Commissioner Guy seconded that motion on the foregoing resolution. Upon roll call, the Commissioners voted as follows. Ayes: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary. Nays: None, the motion carried and said resolution was declared duly passed and adopted.

The Board of City Commissioners then had before it for consideration the request for approval of the bond and contract on the following improvement district, completing the legal requirements as required by the N.D.C.C.

Commissioner Askvig introduced the following resolution and moved its adoption:

RESOLUTION APPROVING CONTRACT AND CONTRACTOR'S BOND  
PARK IMPROVEMENT DISTRICT NUMBER TWO (002)

BE IT RESOLVED by the Board of City Commissioners of the City of Bismarck, North Dakota that the bond and contract furnished by Capital City Construction for the construction of Park Improvement District Number Two (002) are hereby approved.

Commissioner Guy seconded the motion. Upon roll call, the commissioners voted as follows: Ayes: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary. Nays: None, the motion carried.

P. The Board of City Commissioners considered the request from the Public Works Utility Operations Department for approval of Change Order No. 5 with Crow River Construction, LLC for a \$10,942.80 deduction to the contract amount for the Southport Lift Station and Forcemain project.

Addendum Items:

Q. The Board of City Commissioners considered the request from the Finance Department for approval of the use of Rural Road Sales Tax funding for Unit 4 of Street Improvement District 492 (roadway lighting).

R. The Board of City Commissioners considered the request from Bismarck Parks and Recreation District to execute warranty deed for Schaumberg Arena.

Commissioner Askvig made a motion to approve the consent agenda. Commissioner Guy seconded the motion. Upon roll call, the commissioners voted as follows: Ayes: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary. Nays: None, the motion carried.

## REGULAR AGENDA

### 3. Heartview Foundation Opioid Treatment Program.

Kurt Snyder, Heartview Foundation, appeared and spoke to the Board regarding what they are experiencing at Heartview and their plan to treat those dealing with opioid addiction. Dan Donlin, Chief, Bismarck Police Department, appeared before the Board and explained what the officers are dealing with as far as those dealing with opioid addition.

### 4. The Board of City Commissioners received the South Bismarck Watershed stormwater presentation by Apex Engineering.

Scott Schneider, Apex Engineering, appeared before the Board to make the South Bismarck Watershed stormwater presentation. There was discussion between the Board and Mr. Schneider. A copy of the presentation will be available at the end of the minutes.

The Board received the presentation but took no formal action.

### 5. The Board of City Commissioners considered the request from the Metropolitan Planning Organization (MPO) to allow Bis-Man Transit to locate a public transportation point on the south side of Front Avenue between 5th and 7th Street.

Roy Rickert, Executive Director of Bis-Man Transit, appeared to make the request to the Board. He asked for funds to pay for the changes to the road where the bus stop will be located. After discussion between the Board, Mr. Rickert, and staff, it was decided that funds will be made available from the Special Roads Project Funds.

Commissioner Askvig made a motion to approve the request with funding coming from the Special Roads Project Funds. Commissioner Guy seconded the motion. Upon roll call, the commissioners voted as follows: Ayes: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary. Nays: None, the motion carried.

6. Addendum Item - The President of the Board of City Commissioners announced the hour had arrived for the PUBLIC HEARING on a request from a new owner of Bismarck Yellow Cab to obtain a new Taxi Cab License. Due to damage the vehicle recently sustained, repairs will need to be made to the vehicle prior to the applicant putting it into service. After examination of the repairs by the Police Department, the owner will be issued a license to operate by City Administration.

Mr. Zaman, the new owner of Bismarck Yellow Cab, appeared before the Board and requested approval of the new taxi cab license.

Commissioner Askvig made a motion to approve the request. Commissioner Guy seconded the motion. Upon roll call, the commissioners voted as follows: Ayes: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary. Nays: None, the motion carried.

7. The President of the Board of City Commissioners announced the hour had arrived for the PUBLIC HEARING on Ordinance 6219 relating to the creation of the Bismarck Animal Advisory Board (revised since the original introduction on July 12, 2016).

The following persons appeared in support of the creation of the Bismarck Animal Advisory Board: T.J. Jerke, Jean Schafer, Laura Cronquist.

Commissioner Guy made a motion to adopt Ordinance 6219. Commissioner Oban seconded the motion. There was discussion by the Board, including the definition of companion animal.

Commissioner Askvig made a motion to amend the ordinance for the purposes of this ordinance, "companion animal" shall mean a dog or cat (definition is highlighted in yellow in the excerpt below). Commissioner Guy seconded the motion. Upon roll call, the commissioners voted as follows: Ayes: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary. Nays: None, the motion carried.

**3-04-01. Bismarck Animal Advisory Board; Purpose.** There is hereby created and established a body to be known as the Bismarck Animal Advisory Board. The purpose of the Animal Advisory Board is to advise the Bismarck Police Department on companion animal policies, promote collaboration between the City and private citizens, institutions, and agencies interested in or conducting activities relating to companion animals in the city, to identify proactive, creative approaches to engage and facilitate communication and education within the companion animal community and to foster and assist the development of companion animal programs in the community. The Animal Advisory Board may study, advise, and report on policy recommendations it deems effective to promote outcomes consistent with City goals and objectives as outlined by the Police Department and the City Commission. For the purposes of this chapter, "companion animal" shall mean a dog or cat.

Commissioner Guy made a motion to adopt Ordinance 6219 as amended. Commissioner Oban seconded the motion. Upon roll call, the commissioners voted as follows: Ayes: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary. Nays: None, the motion carried.

8. The President of the Board of City Commissioners announced the hour had arrived for the PUBLIC HEARING on Ordinance 6226 relating to city rights-of-way.

There were no oral or written protests.

Commissioner Askvig made a motion to adopt Ordinance 6226. Commissioner Marquardt seconded the motion. Upon roll call, the commissioners voted as follows: Ayes: Commissioners Askvig, Guy, Oban, and President Seminary. Nays: Commissioner Marquardt, the motion carried.

9. The President of the Board of City Commissioners announced the hour had arrived for the PUBLIC HEARING on Ordinance 6227 relating to rules and regulations for granting gaming site authorization.

There were no oral or written protests.

Commissioner Askvig made a motion to adopt Ordinance 6227. Commissioner Marquardt seconded the motion. Upon roll call, the commissioners voted as follows: Ayes: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary. Nays: None, the motion carried.

10. The Board of City Commissioners considered the following requests relating to Koch Creek Commercial Subdivision, requested by Michael Koch. Bismarck Planning and Zoning Commission recommends approval.

- PUBLIC HEARING on Ordinance 6228 relating to a zoning change from the A-Agriculture zoning district to the CG-Commercial zoning district.
- Approval of the final plat.

Kim Lee, Planning Manager, appeared before the Board and presented the background information for this item (background information can found in this item in the agenda packet).

The Planning & Zoning Commission held a public hearing on the zoning change and final plat requests on July 27, 2016. Several members of the public spoke at that public hearing. Concerns raised at the hearing included the proximity of the proposed commercial development to an established rural residential area (Northridge), the need for an electrical substation in this location, why the area needed to be rezoned to CG-Commercial, why the Future Land Use Plan identifies this area as Commercial, why they had already started site work for the electrical substation, and why this was a City action when it was not within the corporate limits of the City.

At the conclusion of the public hearing, and based on the finding contained in the staff report, the Planning and Zoning Commission unanimously recommended approval of the zoning change from the A-Agricultural zoning district to the CG-Commercial zoning district, with the condition that Lot 2, Block 1, Koch Creek Commercial Subdivision be annexed into the City of Bismarck and municipal services in place prior to development, and approval of the final plat, including a waiver to delay the paving of the roadways within the plat until the electrical substation located on Lot 1, Block 1 is completed.

Shelly Hegel appeared before the Board. She's concerned about the lack of adequate notice and why it needs to even be in her neighborhood.

Commissioner Marquardt made a motion to approve the request. Commissioner Guy seconded the motion. Upon roll call, the commissioners voted as follows: Ayes: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary. Nays: None, the motion carried.

11. The President of the Board of City Commissioners announced the hour had arrived for the PUBLIC HEARING on Ordinance 6229 relating to a zoning change from the PUD-Planned Unit Development zoning district to the RM15-Residential zoning district for Lots 1-3, Block 1, Sonnet Heights Subdivision, requested by Boustead Enterprises, LLC. Bismarck Planning and Zoning Commission recommends approval.

Kim Lee, Planning Manager, appeared before the Board and presented the background information for this item (background information can found in this item in the agenda packet).

The Planning & Zoning Commission held a public hearing on the zoning change on July 27, 2016. No members of the public spoke at that public hearing. At the conclusion of the public hearing, and based on the finding contained in the staff report, the Planning and Zoning Commission unanimously recommended approval of the zoning change from the PUD-Planned Unit Development zoning district to the RM15-Residential zoning district for Lots 1-3, Block 1, Sonnet Heights Subdivision.

There were no oral or written protests.

Commissioner Askvig made a motion to approve the request. Commissioner Guy seconded the motion. Upon roll call, the commissioners voted as follows: Ayes: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary. Nays: None, the motion carried.

12. The President of the Board of City Commissioners announced the hour had arrived for the PUBLIC HEARING on Ordinance 6230 relating to a zoning change from the R5-Residential and R10-Residential zoning districts to the Conditional R10-Residential and RM15-Residential zoning districts for Lots 14-19, Block 4, South

Meadows Addition, requested by Investcore, Inc. and Microvest, LLC. Bismarck Planning and Zoning Commission recommends approval.

Kim Lee, Planning Manager, appeared before the Board and presented the background information for this item (background information can found in this item in the agenda packet).

The Planning & Zoning Commission held a public hearing on the zoning change on July 27, 2016. No members of the public spoke at that public hearing. At the conclusion of the public hearing, and based on the finding contained in the staff report, the Planning and Zoning Commission unanimously recommended approval of the zoning change from the R5-Residential zoning district to the Conditional R10-Residential zoning district on Lots 14 & 15 and from the R10-Residential zoning district to the RM15-Residential zoning district on Lots 16-19, Block 4, South Meadows Addition, with the condition that the development of Lots 14 & 15 is limited to two-family dwellings in order to provide an appropriate land use transition between the single family residential land use to the west and the multi-family residential land use on Lots 16-20.

There were no oral or written protests.

Commissioner Askvig made a motion to approve the request. Commissioner Marquardt seconded the motion. Upon roll call, the commissioners voted as follows: Ayes: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary. Nays: None, the motion carried.

13. The President of the Board of City Commissioners announced the hour had arrived for the PUBLIC HEARING on Ordinance 6231 relating to a zoning change from the P-Public zoning district to the PUD-Planned Unit Development zoning district for part of Lot 21, Lounsberry Outlots (Saxvik Elementary School), requested by Bismarck Public Schools. Bismarck Planning and Zoning Commission recommends approval.

Kim Lee, Planning Manager, appeared before the Board and presented the background information for this item (background information can found in this item in the agenda packet).

The Planning & Zoning Commission held a public hearing on the zoning change on July 27, 2016. No members of the public spoke at that public hearing. At the conclusion of the public hearing, and based on the finding contained in the staff report, the Planning and Zoning Commission unanimously recommended approval of the zoning change from the P-Public zoning district to the PUD-Planned Unit Development zoning district for part of Lot 21, Lounsberry Outlots (formerly Saxvik Elementary School property).

There were no oral or written protests.

Commissioner Askvig made a motion to adopt Ordinance 6231. Commissioner Marquardt seconded the motion. Upon roll call, the commissioners voted as follows:

Ayes: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary. Nays: None, the motion carried.

14. The Board of City Commissioners considered the request from the Engineering Department to receive and consider disposition of bids for Solid Waste Utility Project LF16-01.

Gabe Schell, City Engineer, appeared before the Board. The bids received were:

BIDDER	BID AMOUNT
Northern Improvement Co.	\$811,318.28
Meyer Contracting	\$1,035,458.03
George E Haggart, Inc.	\$1,227,256.00
Weisz & Sons, Inc.	\$1,012,383.00
Veit & Company	\$929,136.45
Burski Excavating	\$1,068,534.40
Engineer's Estimate =	\$1,085,563.19

He said staff recommends awarding the bid to Northern Improvement for \$811,318.28.

Commissioner Askvig made a motion to award the bid to Northern Improvement. Commissioner Marquardt seconded the motion. Upon roll call, the commissioners voted as follows: Ayes: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary. Nays: None, the motion carried.

15. The Board of City Commissioners considered the request from the Engineering Department to receive and consider disposition of bids for Sewer Utility Project 16-68.

Gabe Schell, City Engineer, appeared before the Board. The bids received were:

BIDDER	BID AMOUNT
Northern Improvement Co.	\$139,818.50
Strata Corporation	\$120,858.75
Engineer's Estimate =	\$126,032.00

He said staff recommends awarding the bid to Strata Corporation for \$120,858.75.

Commissioner Askvig made a motion to award the bid to Strata Corporation. Commissioner Marquardt seconded the motion. Upon roll call, the commissioners voted as follows: Ayes: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary. Nays: None, the motion carried.

16. The Board of City Commissioners considered the request from the Engineering Department to order the repair of hazardous sidewalks deemed unsafe for pedestrian traffic.

Gabe Schell, City Engineer, appeared before the Board to make the request. Since the list was published in the agenda, the following addresses have agreed to make the repairs necessary and asks that they get removed:

- 3510 Stoneridge Place
- 1219 N 1<sup>st</sup> Street
- 406 S Anderson St
- 523 N 21<sup>st</sup> Street
- 416 W Thayer Avenue
- 520 E Main Avenue

Commissioner Askvig made a motion to approve the request. Commissioner Marquardt seconded the motion. Upon roll call, the commissioners voted as follows: Ayes: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary. Nays: None, the motion carried.

17. The Board of City Commissioners received project updates on North Washington Street and Quiet Rail Zone.

Mark Berg, City Traffic Engineer, appeared before the Board and gave a quick update on the North Washington Street project and the Quiet Rail Zone project.

18. The Board of City Commissioners considered the following requests from the Bismarck Airport regarding the Vehicle Parking Concession (pay parking lot) Requests for Proposals (RFP) at the airport terminal:

- Receive proposals and consider selection committee's recommendation to award (these will be provided at the meeting); and
- Approval of the format for the Concession Agreement.

Greg Haug, Airport Director, appeared before the Board and asked them to consider a request from Bismarck Airport to approve a selection committee recommendation for Vehicle Parking Concession proposals and to approve the format of the concession agreement. The committee recommended selection of Republic Parking System LLC., for a five year term with a five year option term by mutual consent starting October 1, 2016.

Commissioner Askvig made a motion to approve the selection of Republic Parking System's proposal, approved the concession agreement format and authorized airport staff and City Attorney to work with Republic Parking to finalize the agreement.. Commissioner Guy seconded the motion. Upon roll call, the commissioners voted as follows: Ayes: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary. Nays: None, the motion carried.

19. Addendum Item - Consider request from the Finance Department for approval of the 2016 Budget Adjustment for the loan prepayment to the Liability Insurance Fund

Commissioner Askvig made a motion to approve the request. Commissioner Oban seconded the motion. Upon roll call, the commissioners voted as follows: Ayes: Commissioners Askvig, Marquardt, Guy, Oban, and President Seminary. Nays: None, the motion carried.

20. Consider other business.

The Board took no action.

Having completed the items on the agenda, President Seminary asked if there was any further business for this meeting. There being none, the meeting was declared adjourned at 8:07 p.m.



# *South Bismarck Watershed Storm Sewer Improvements*

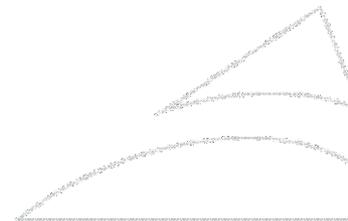
*Bismarck City Commission*

August 23, 2016

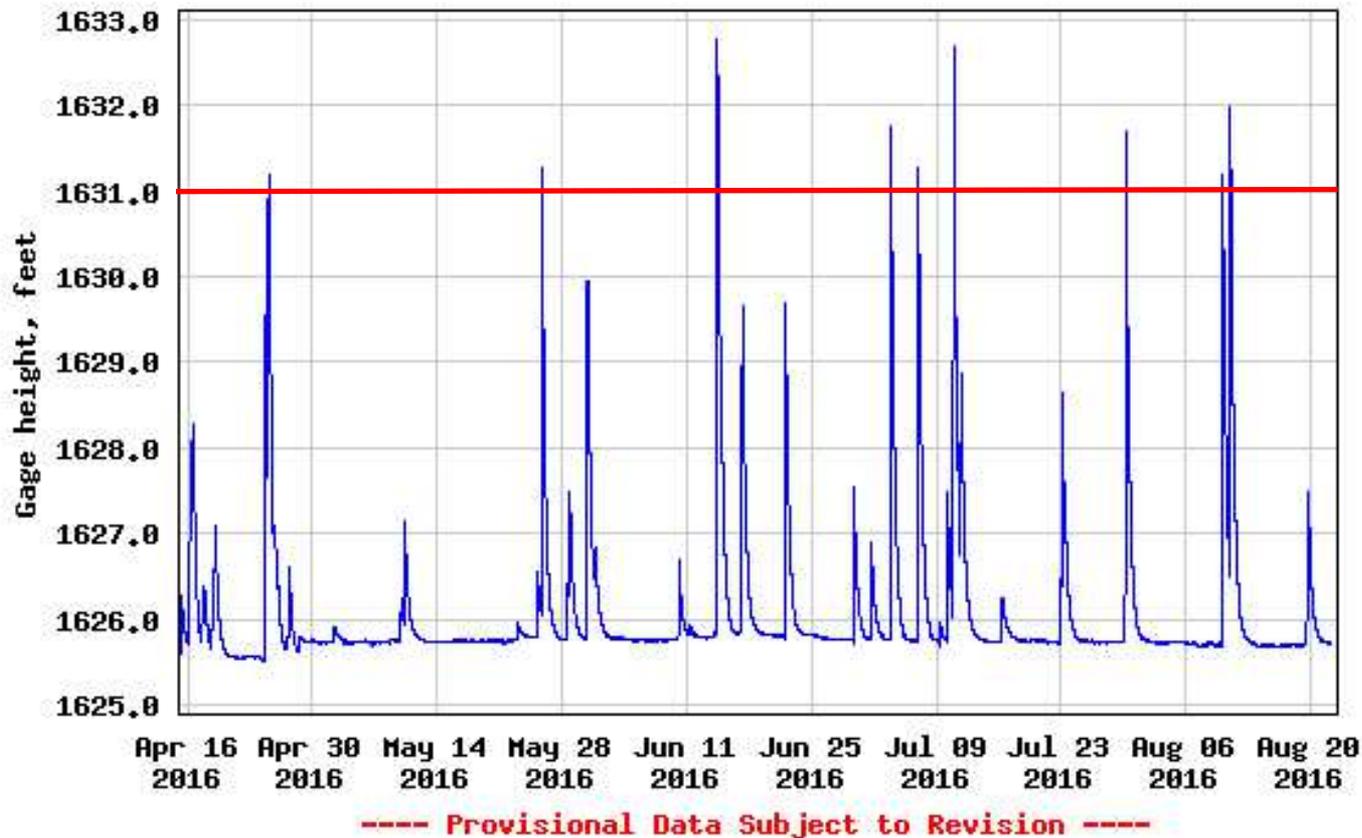


# Presentation Overview

- Rainfall
- Watershed Overview
- Base Model Development
- South 12<sup>th</sup> Street Alternatives
- 5<sup>th</sup> Street and Bowen Avenue
- South Bismarck Bypass



### USGS 464703100464600 DRAIN ON WACHTER AVE AT BISMARCK, ND

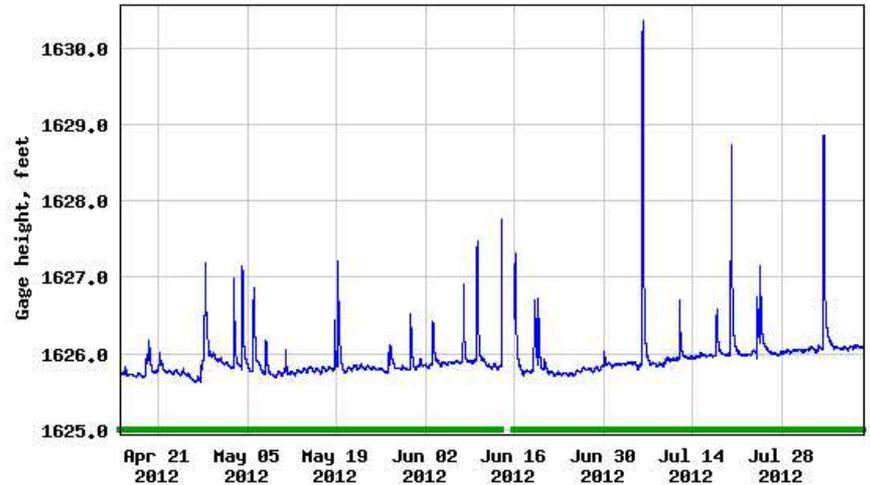


2016 - 9 Events above Elevation 1631

**5.41" ahead of Average Year-to-Date precipitation as of 8/21/2016**



### USGS 464703100464600 DRAIN ON WACHTER AVE AT BISMARCK, ND

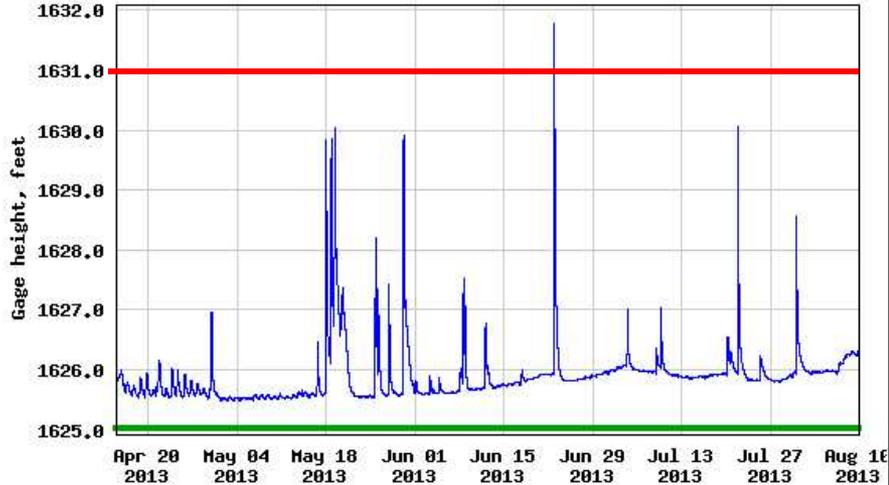


**2012**

— Gage height      — Period of approved data



### USGS 464703100464600 DRAIN ON WACHTER AVE AT BISMARCK, ND

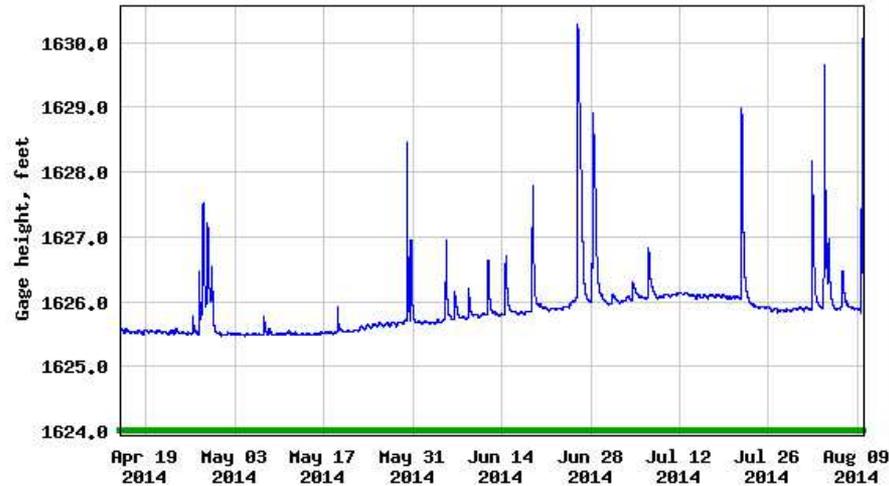


**2013**

— Gage height      — Period of approved data



### USGS 464703100464600 DRAIN ON WACHTER AVE AT BISMARCK, ND

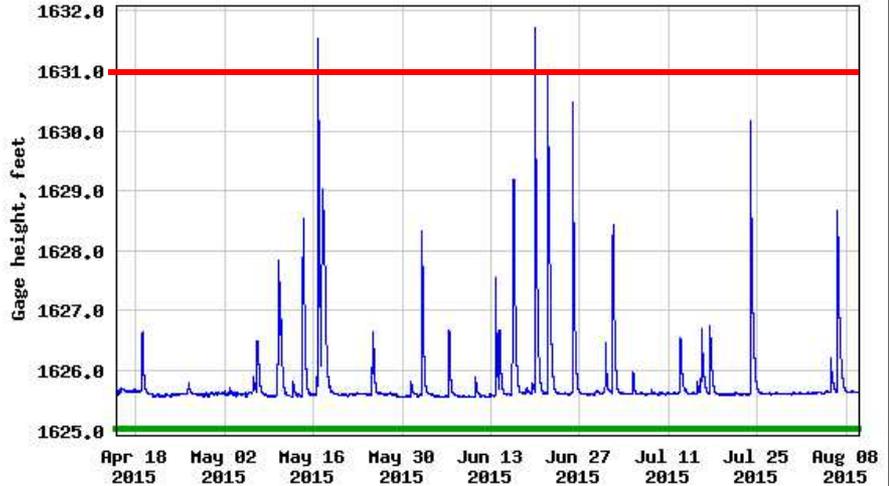


**2014**

— Gage height      — Period of approved data



### USGS 464703100464600 DRAIN ON WACHTER AVE AT BISMARCK, ND

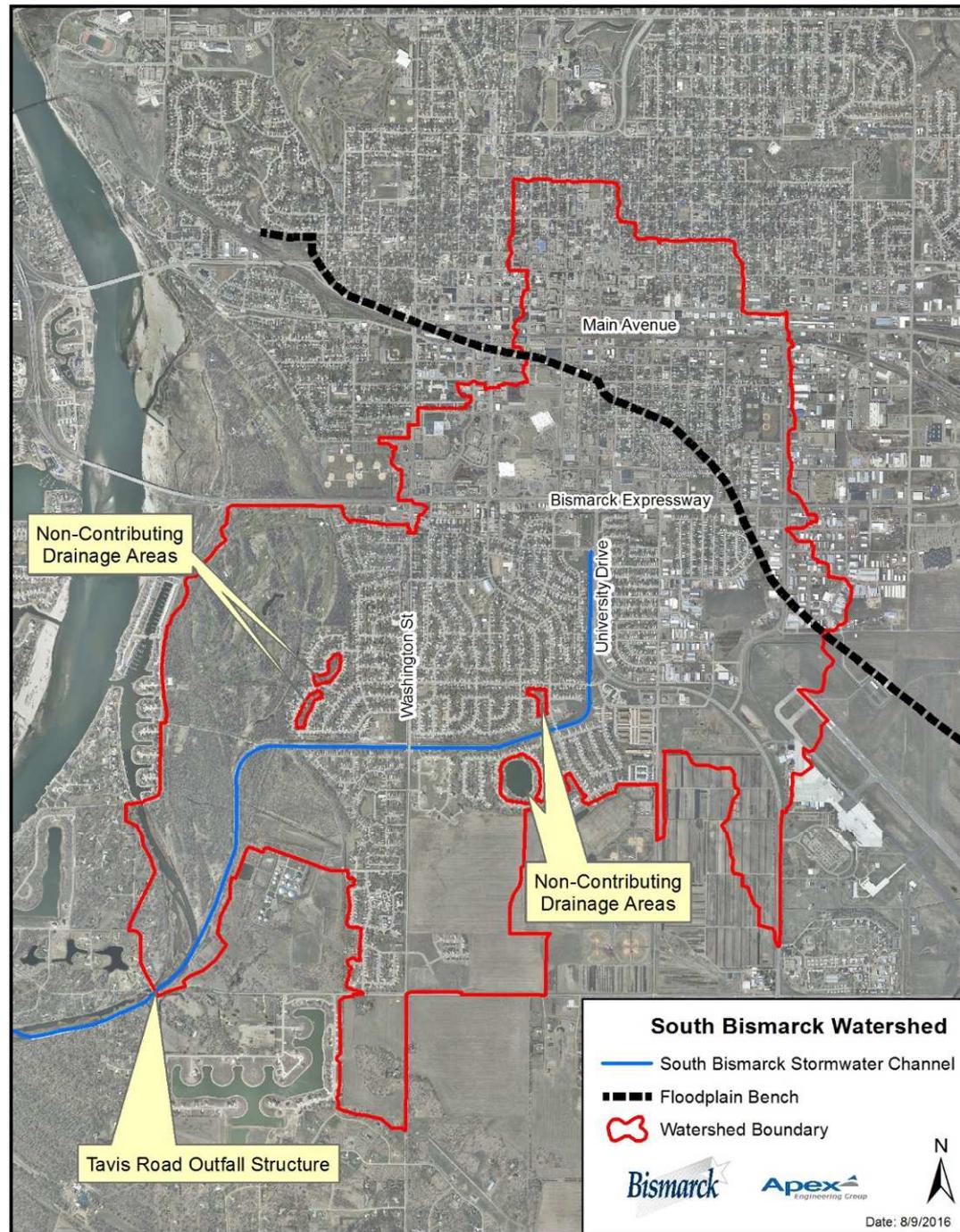


**2015**

— Gage height      — Period of approved data

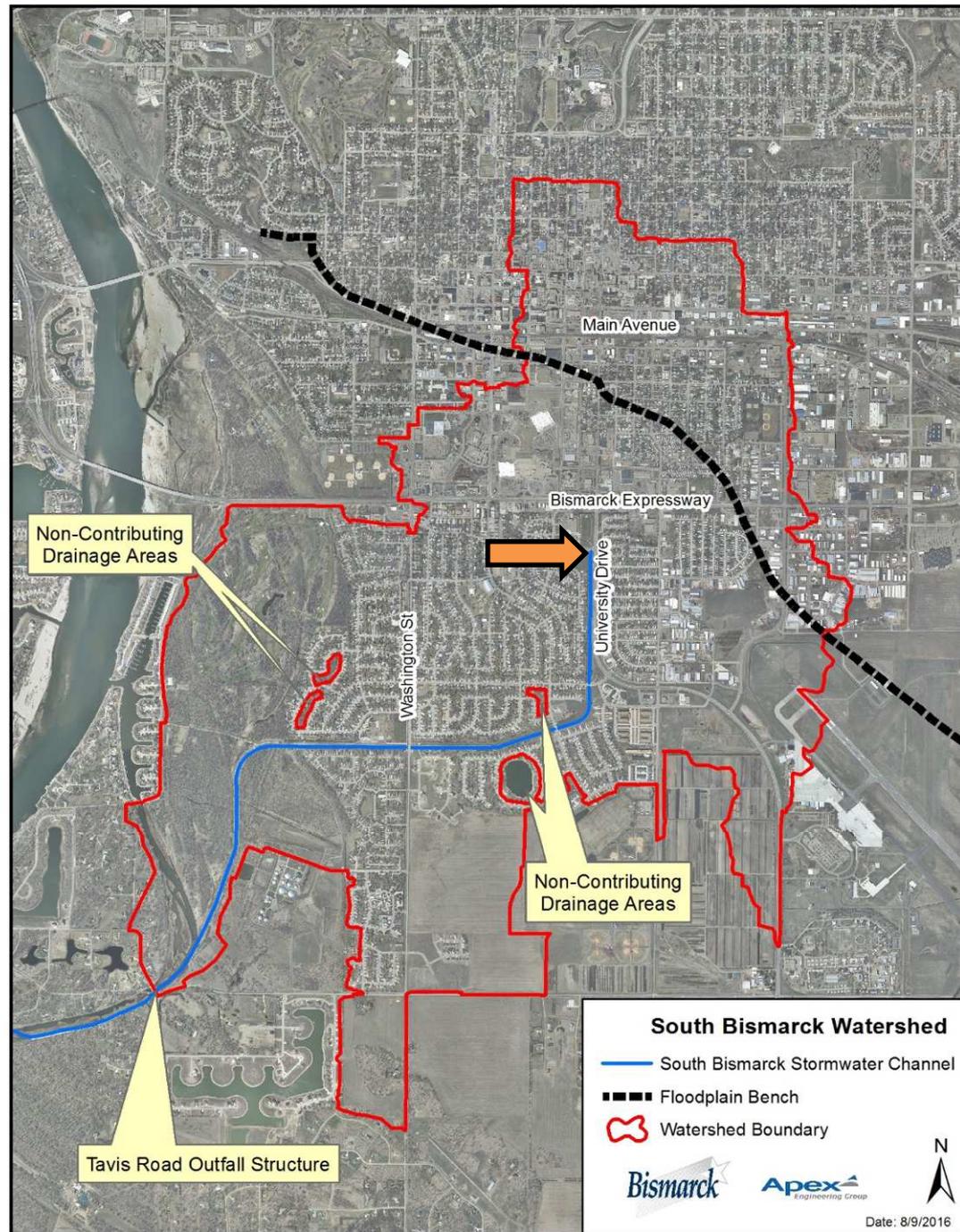
# Watershed Overview

- 3,570 Acres
- Fully Developed



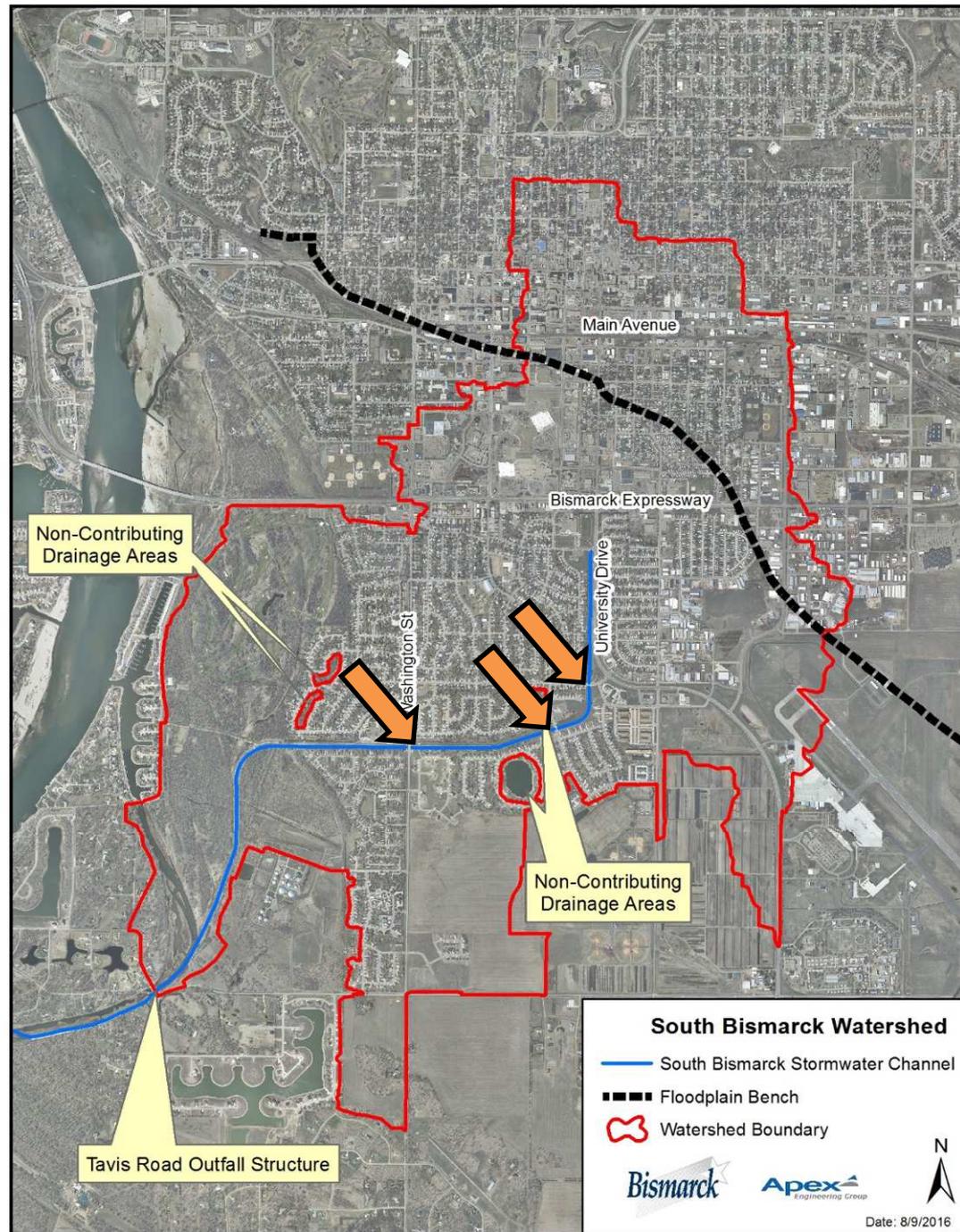
# Watershed Overview

- 3,570 Acres
- Fully Developed
- Drains through South Bismarck Ditch



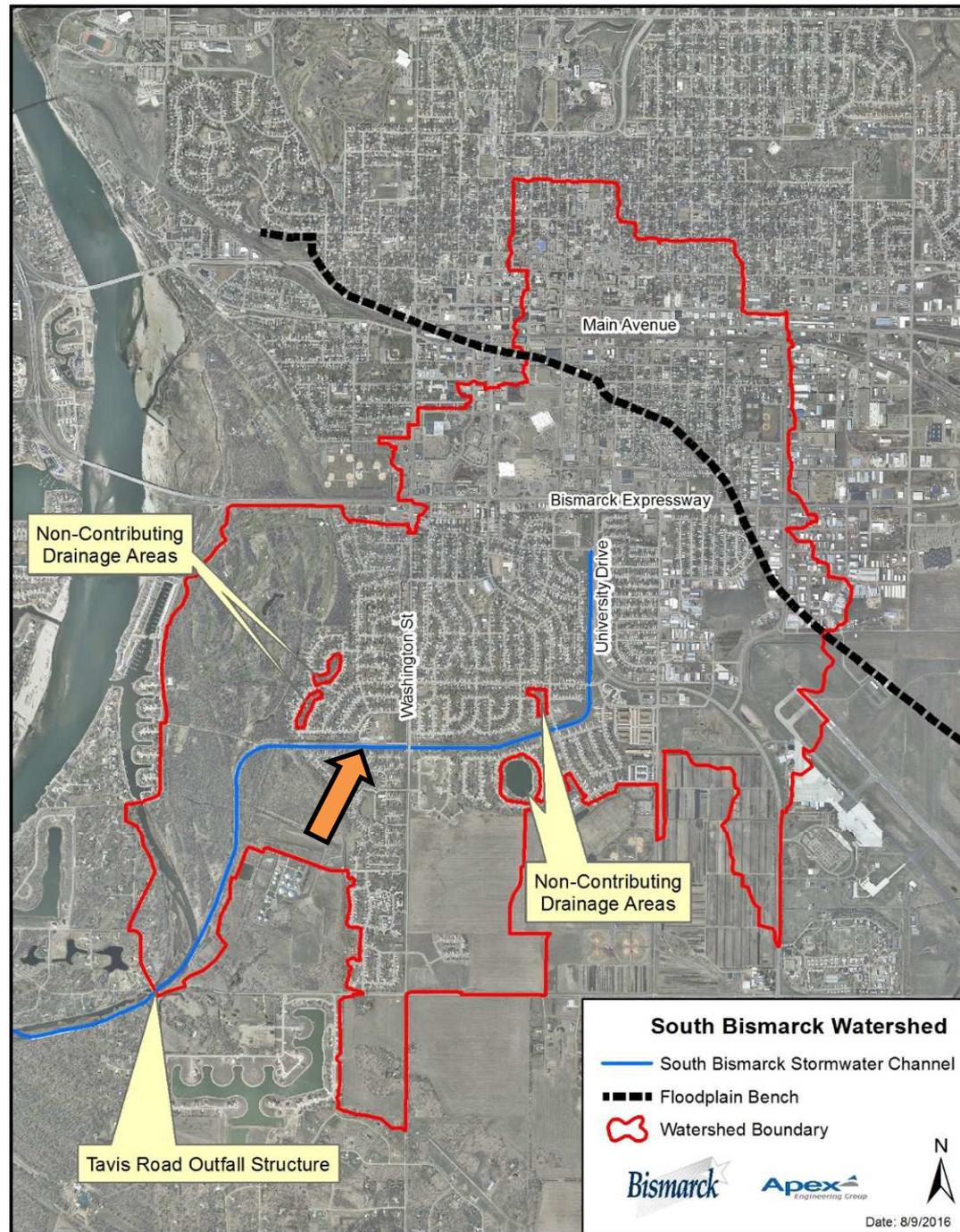
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- Drains through South Bismarck Ditch



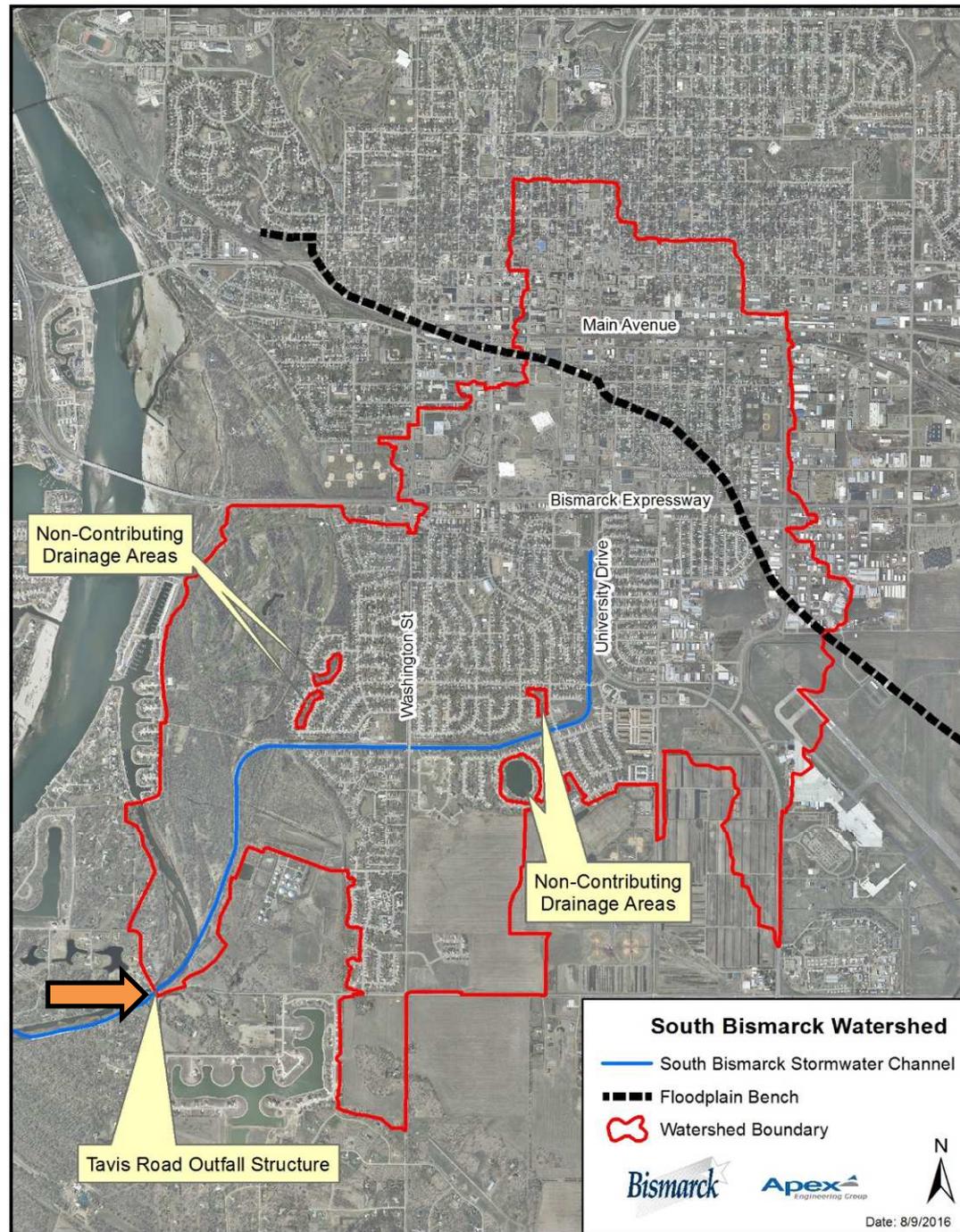
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- 3,570 Acres
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- Drains through South Bismarck Ditch



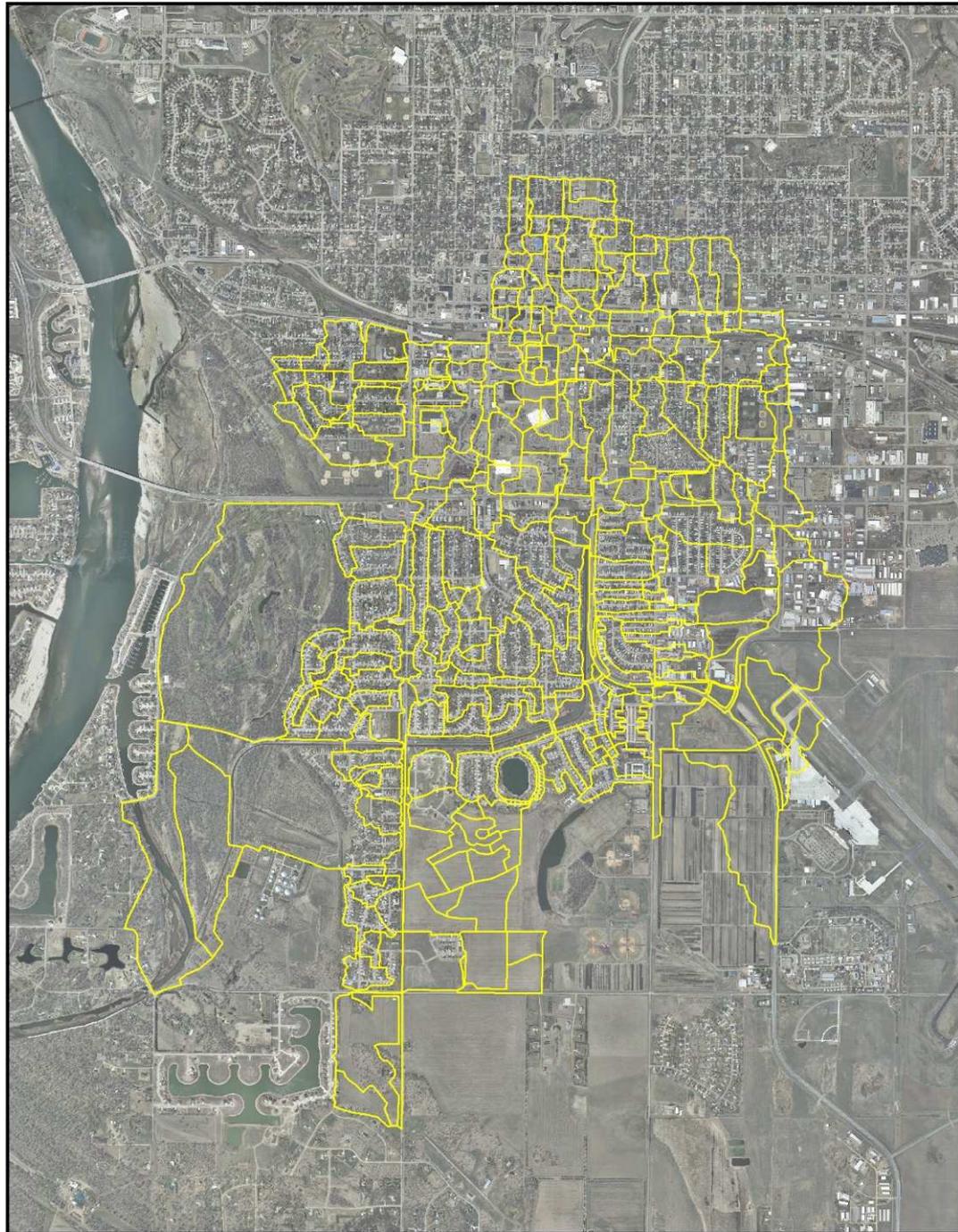
# Watershed Overview

- 3,570 Acres
- Fully Developed
- Drains through South Bismarck Ditch
- Outlets through Tavis Road



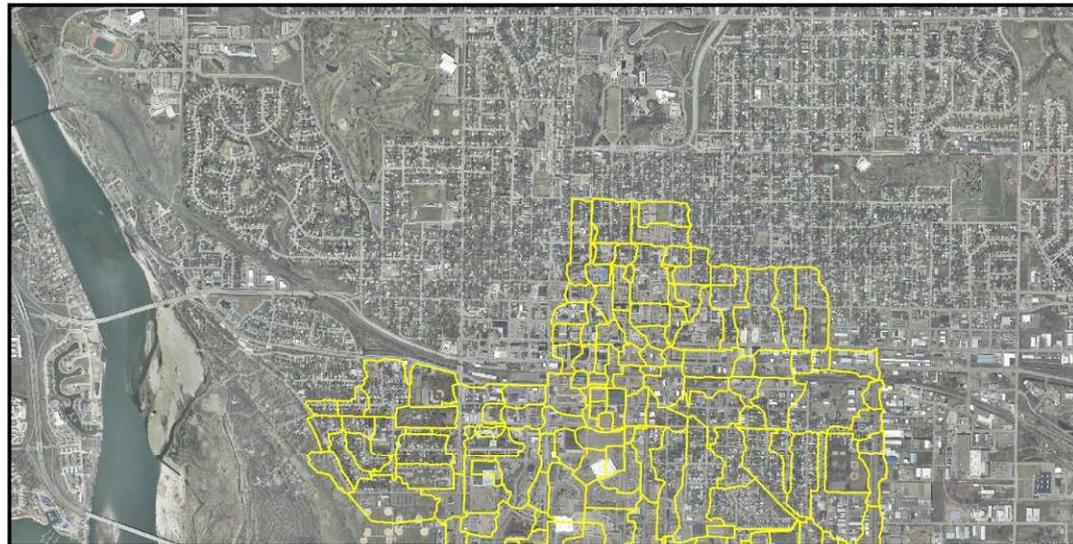
# Model Overview

- 275 Subwatersheds
- 689 Conduits
- 423 Junctions
  - 194 Storage Nodes

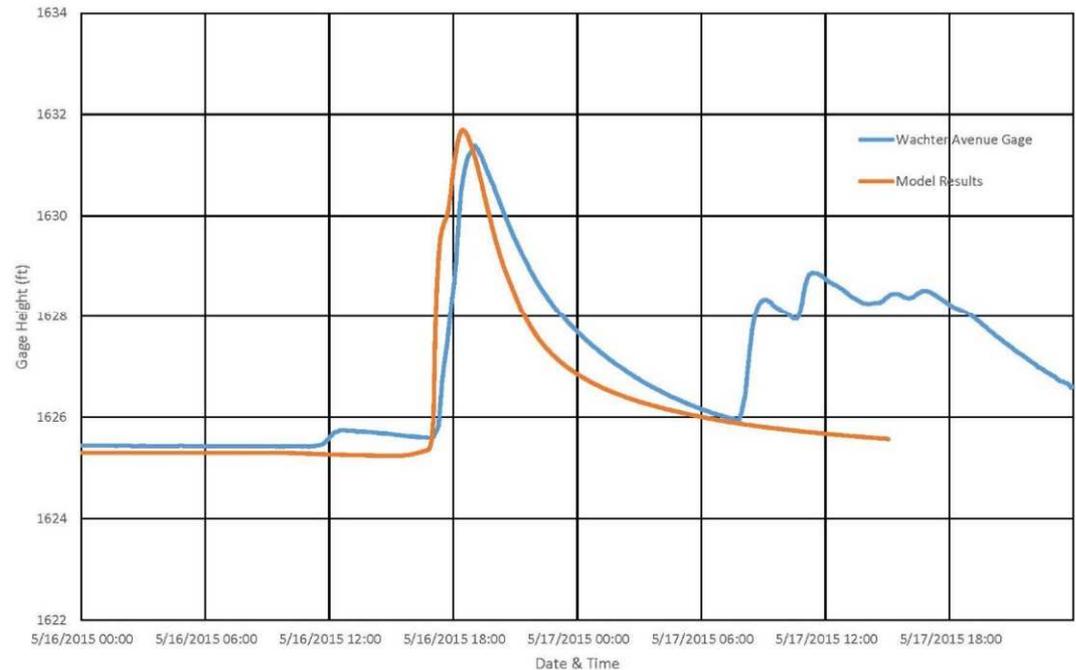


# Model Overview

- 303 Subwatersheds
- 689 Conduits
- 423 Junctions
  - 194 Storage Nodes
- Calibration Event
  - May 16, 2015

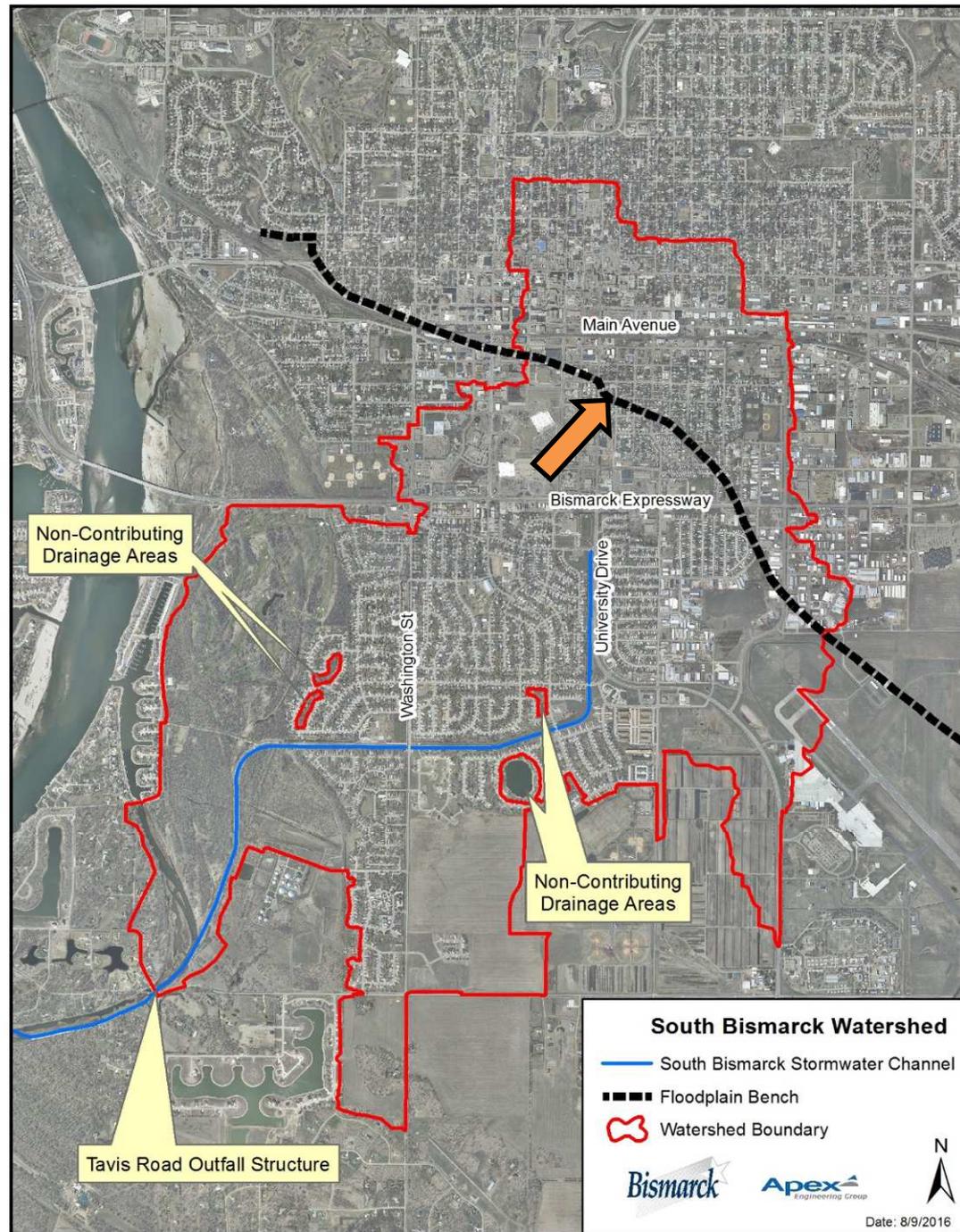


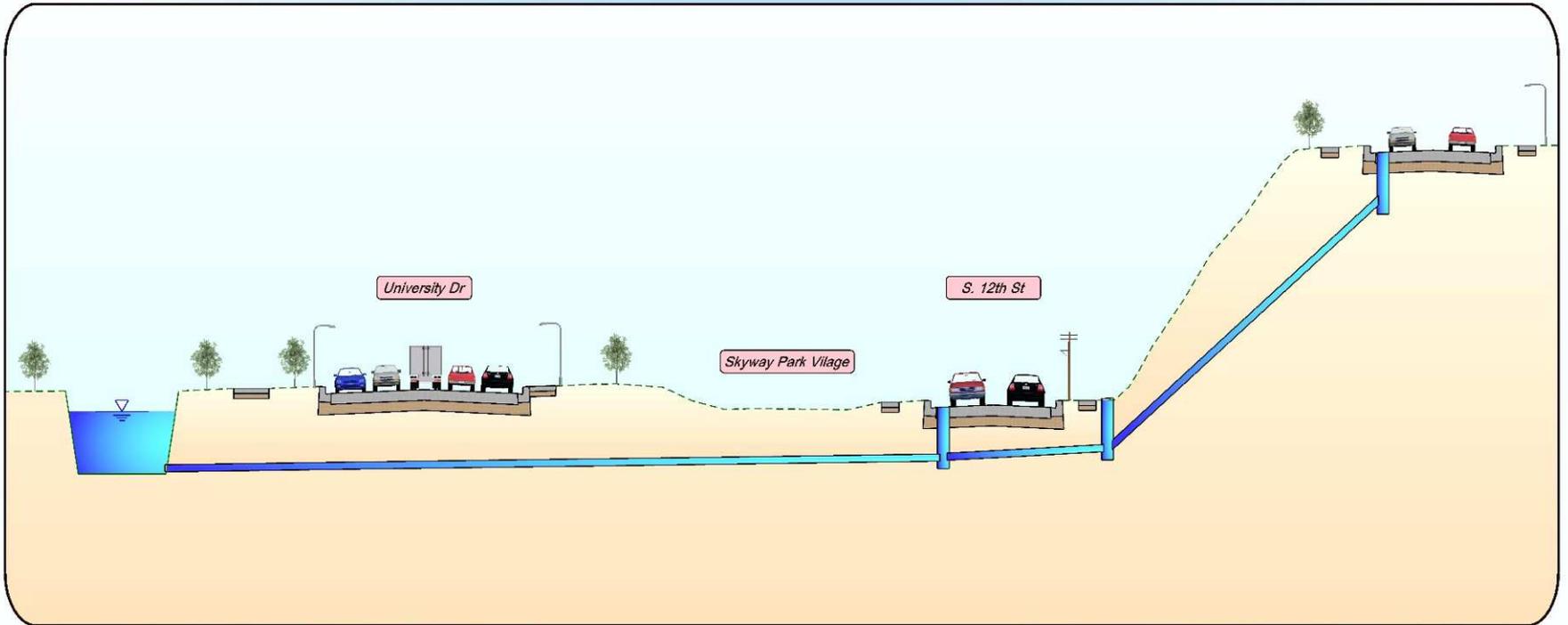
Wachter Avenue Gage - Model Calibration



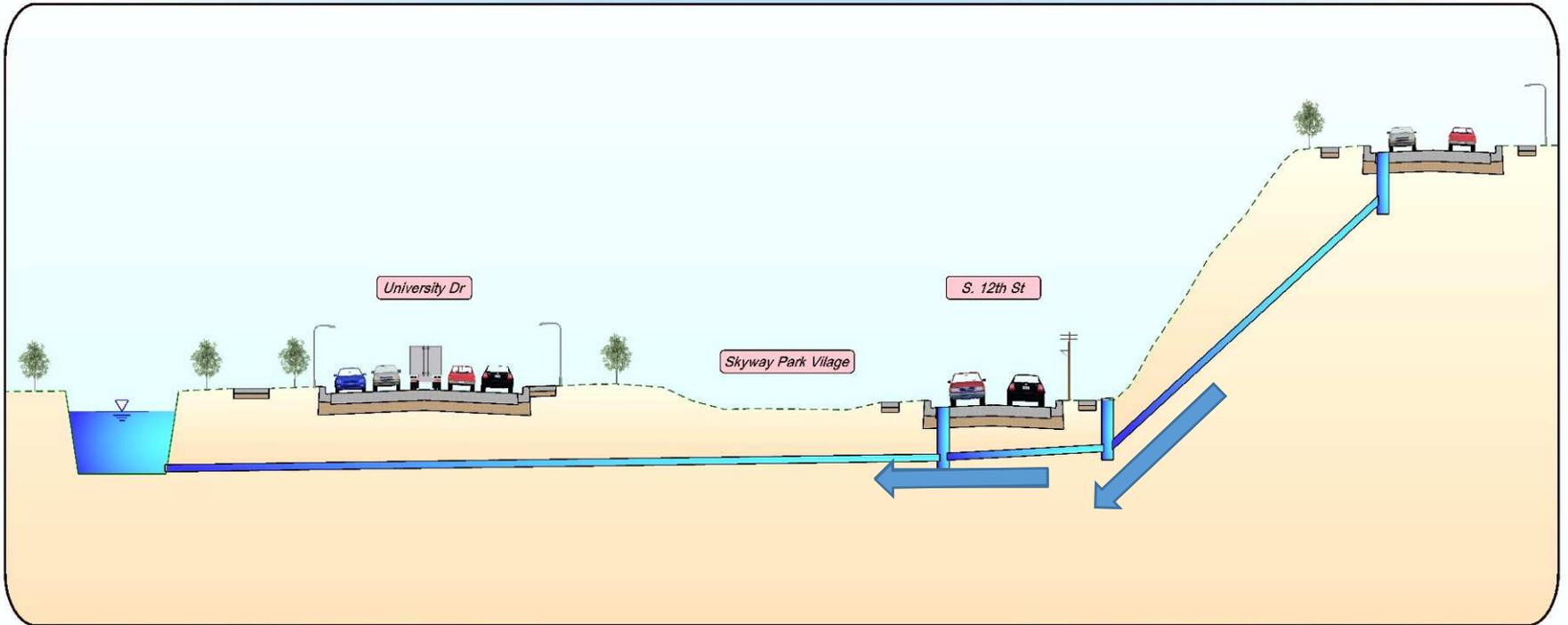
# Watershed Overview

- Floodplain Bench
- 30 to 50-ft Elevation Difference





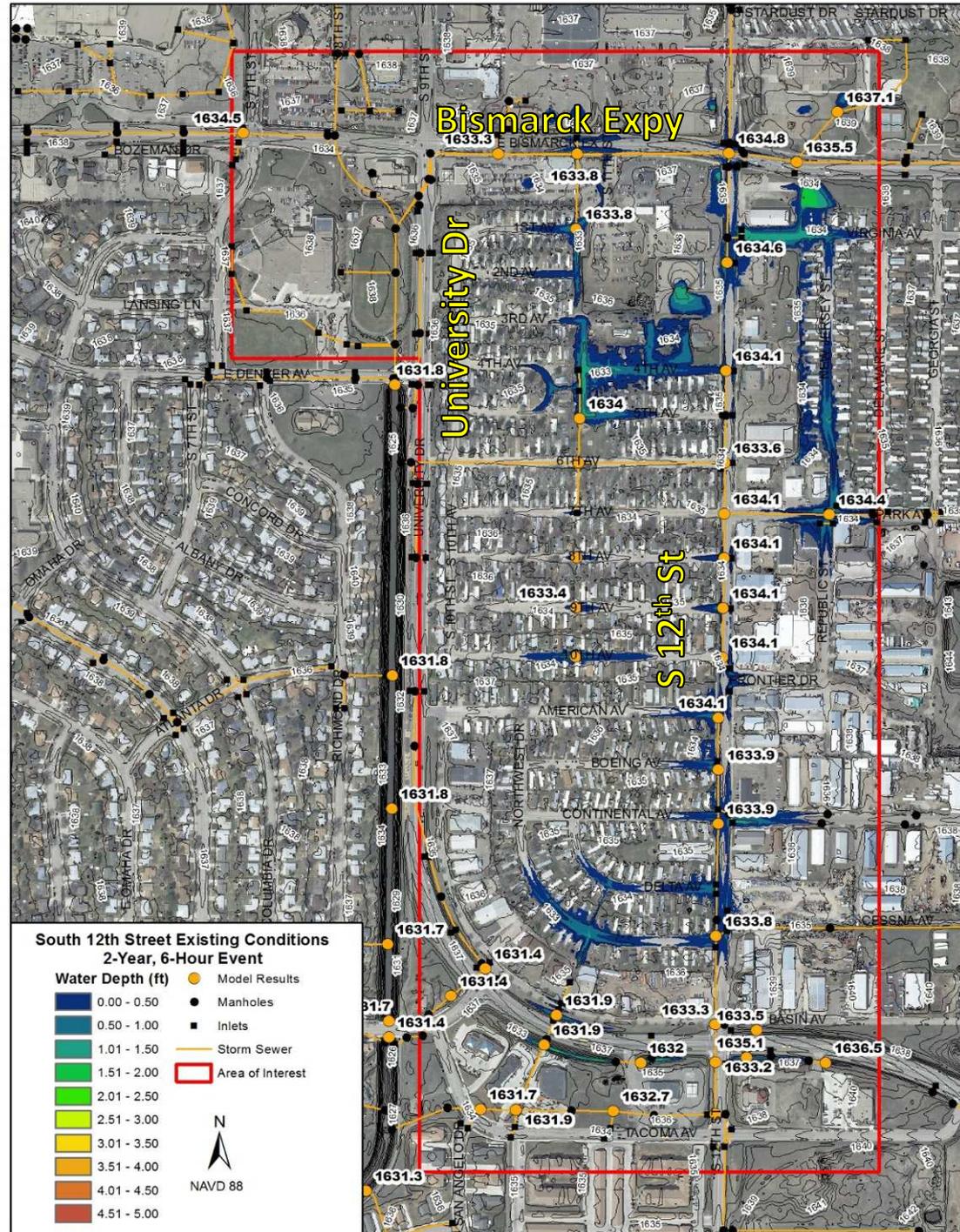
Existing Drainage Ditch  
University Drive / S. 12th Street



Existing Drainage Ditch  
University Drive / S. 12th Street

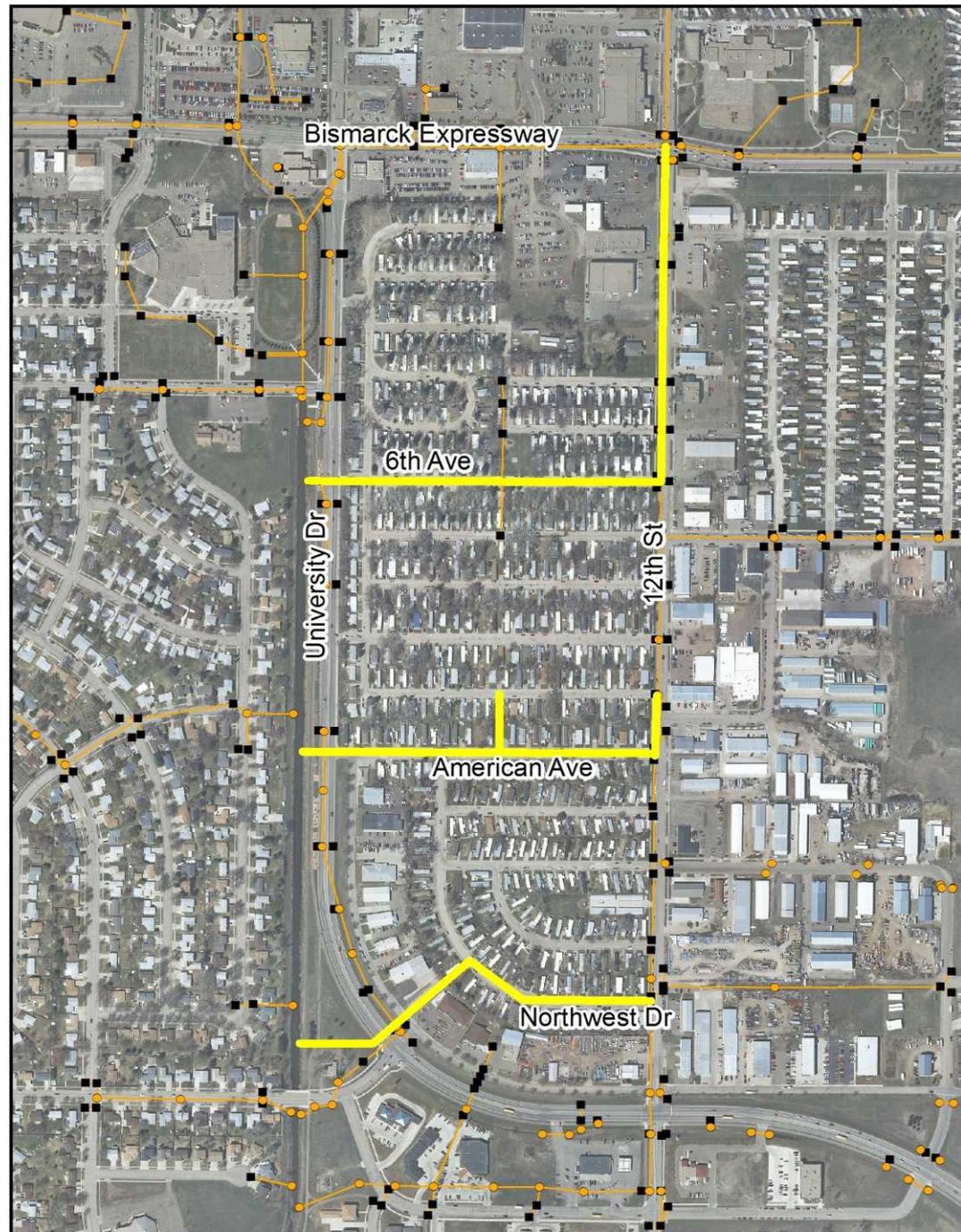
# South 12<sup>th</sup> St / Bismarck Expressway

- Base Model Inundation Mapping
- 2-Year Event



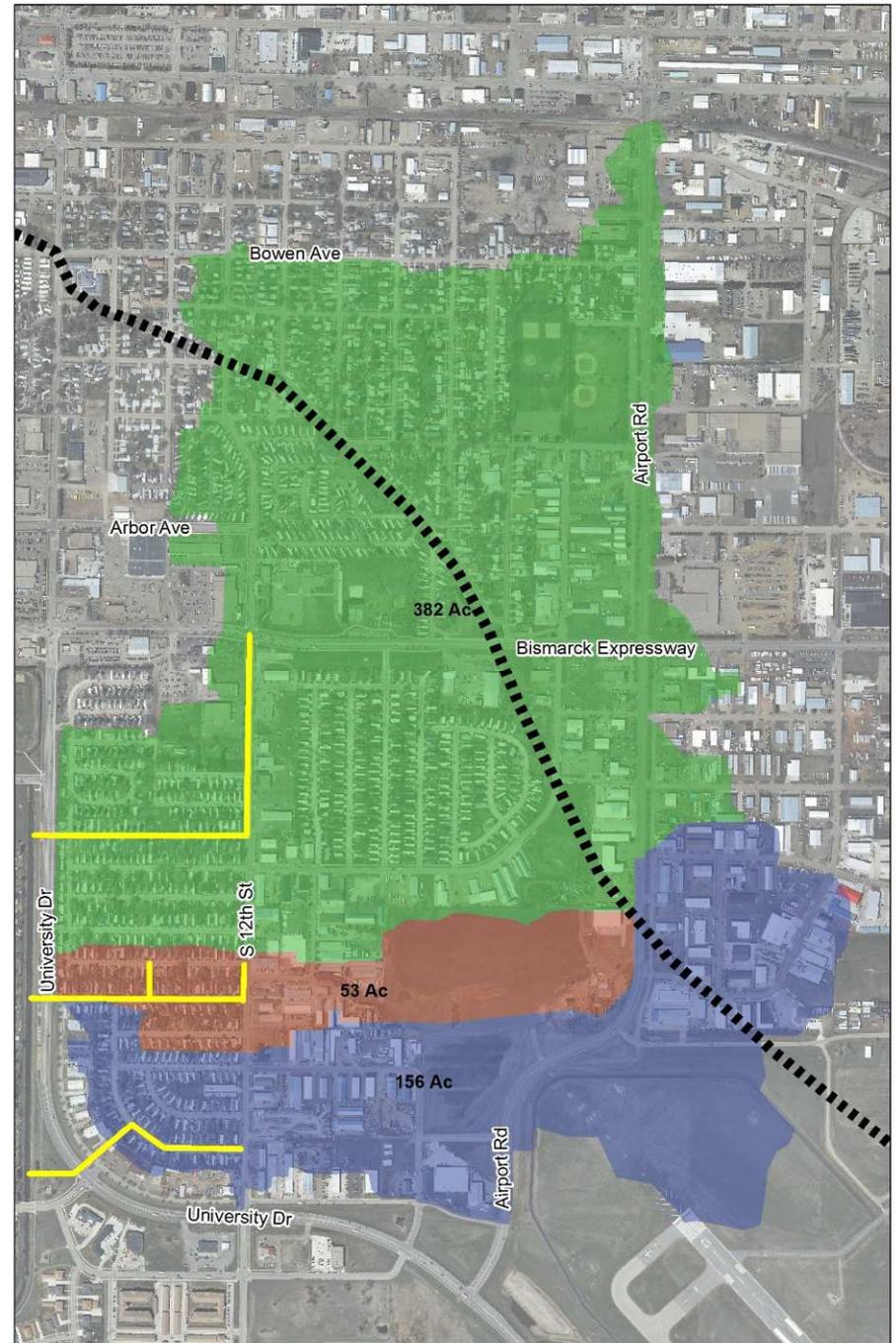
# Proposed Improvements

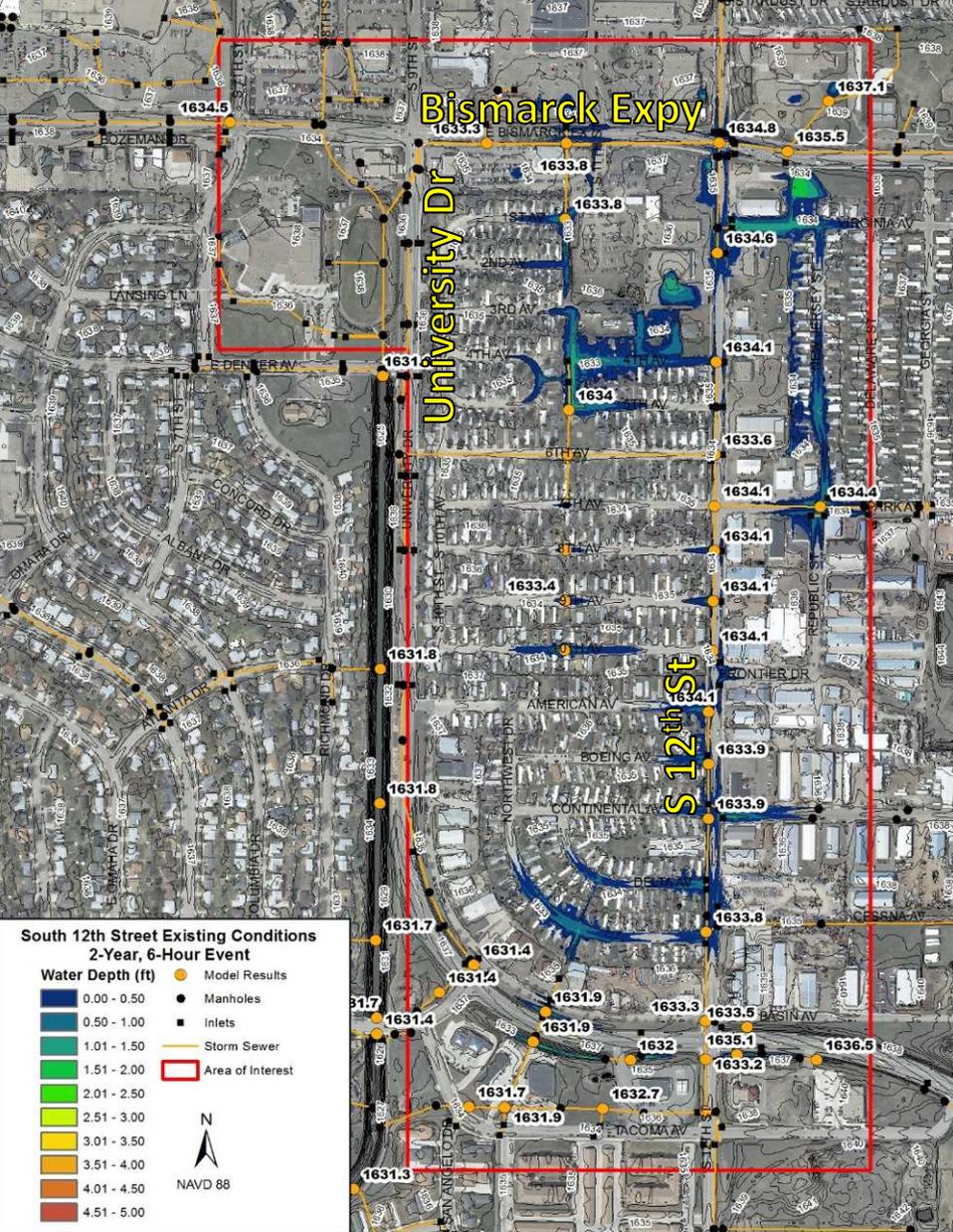
- 6<sup>th</sup> Avenue
  - \$4.2 Million
- American Avenue
  - \$2.1 Million
- Northwest Drive
  - \$2.0 Million



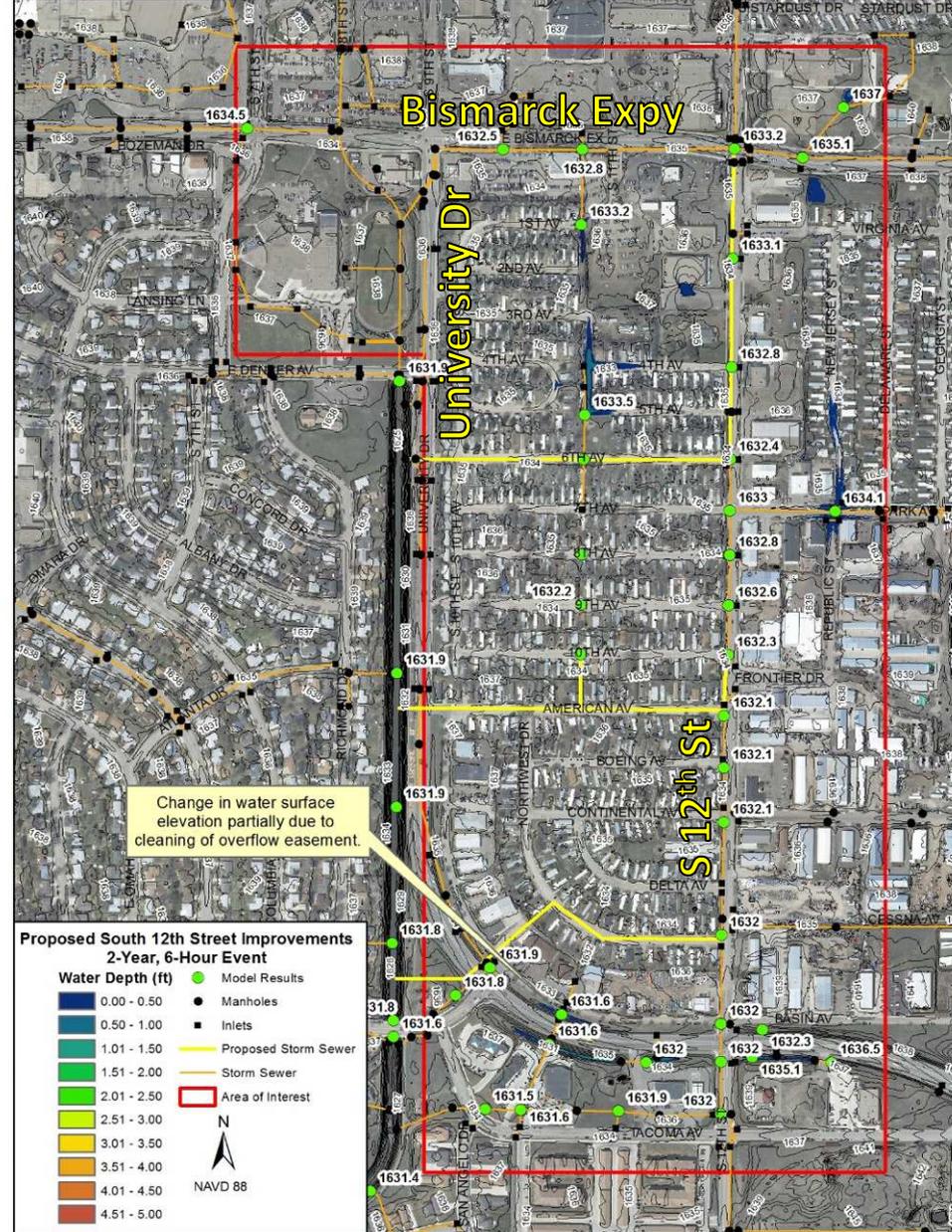
# South 12<sup>th</sup> St.

- Contributing Subwatershed
  - 591 Acres

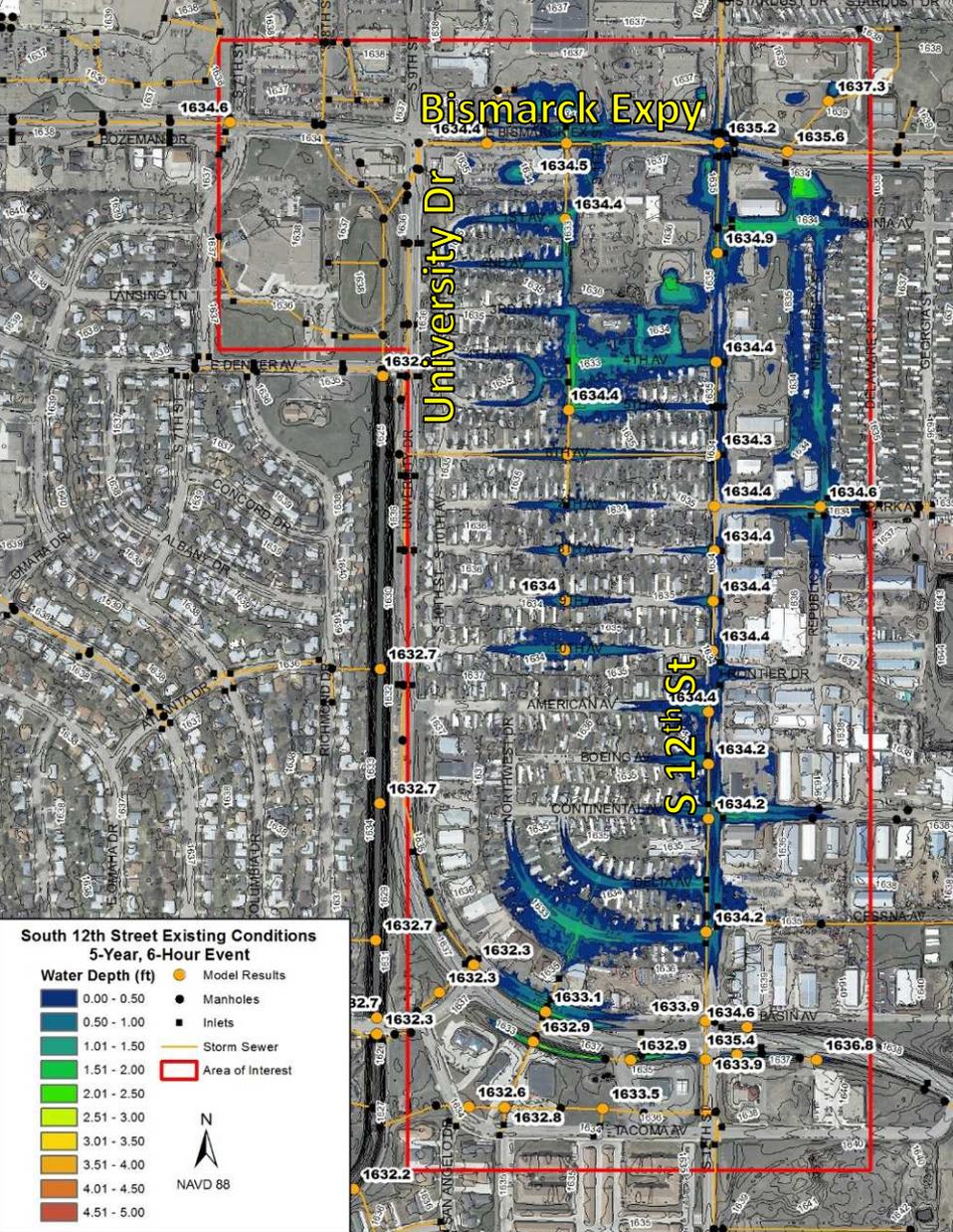




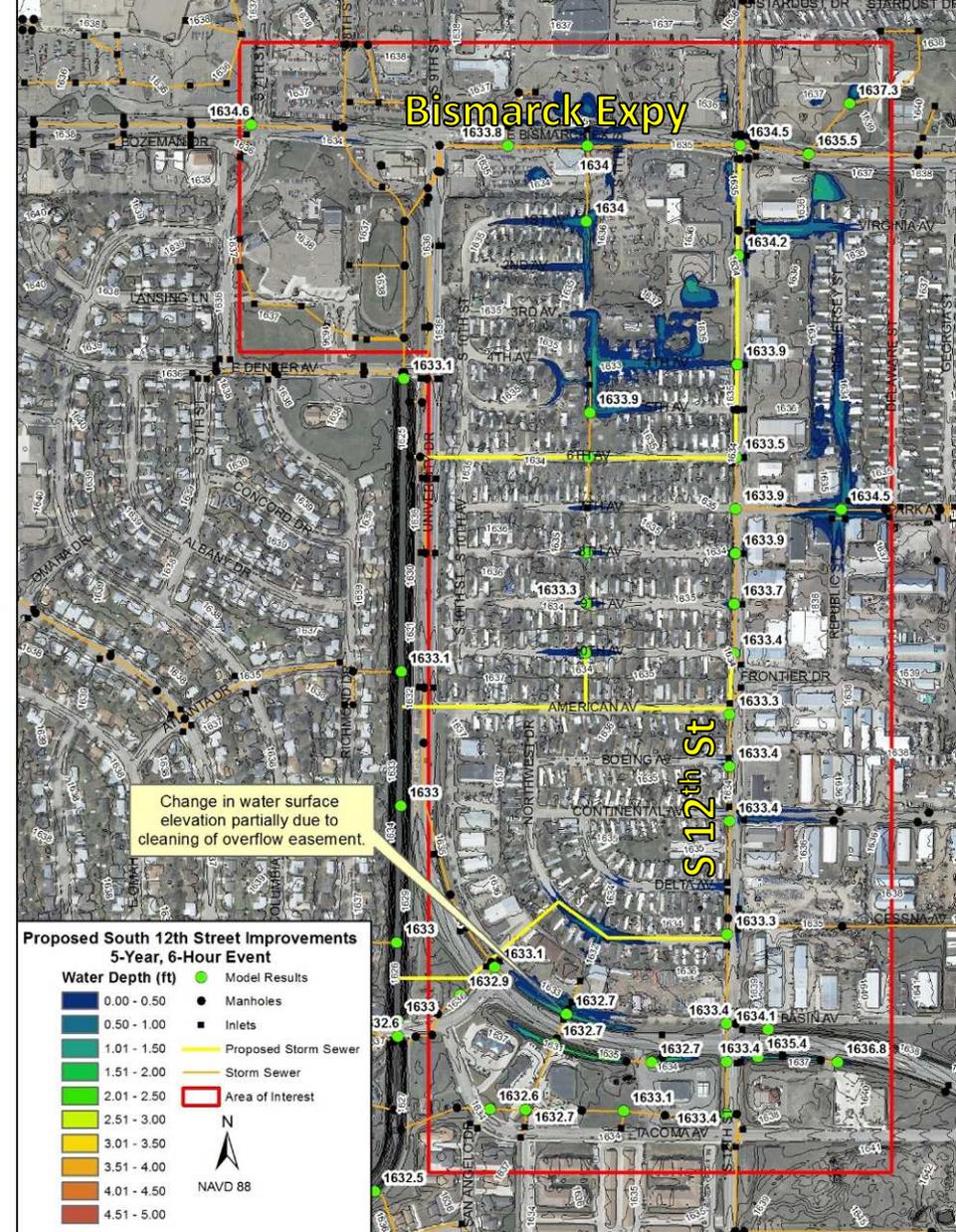
Existing Conditions



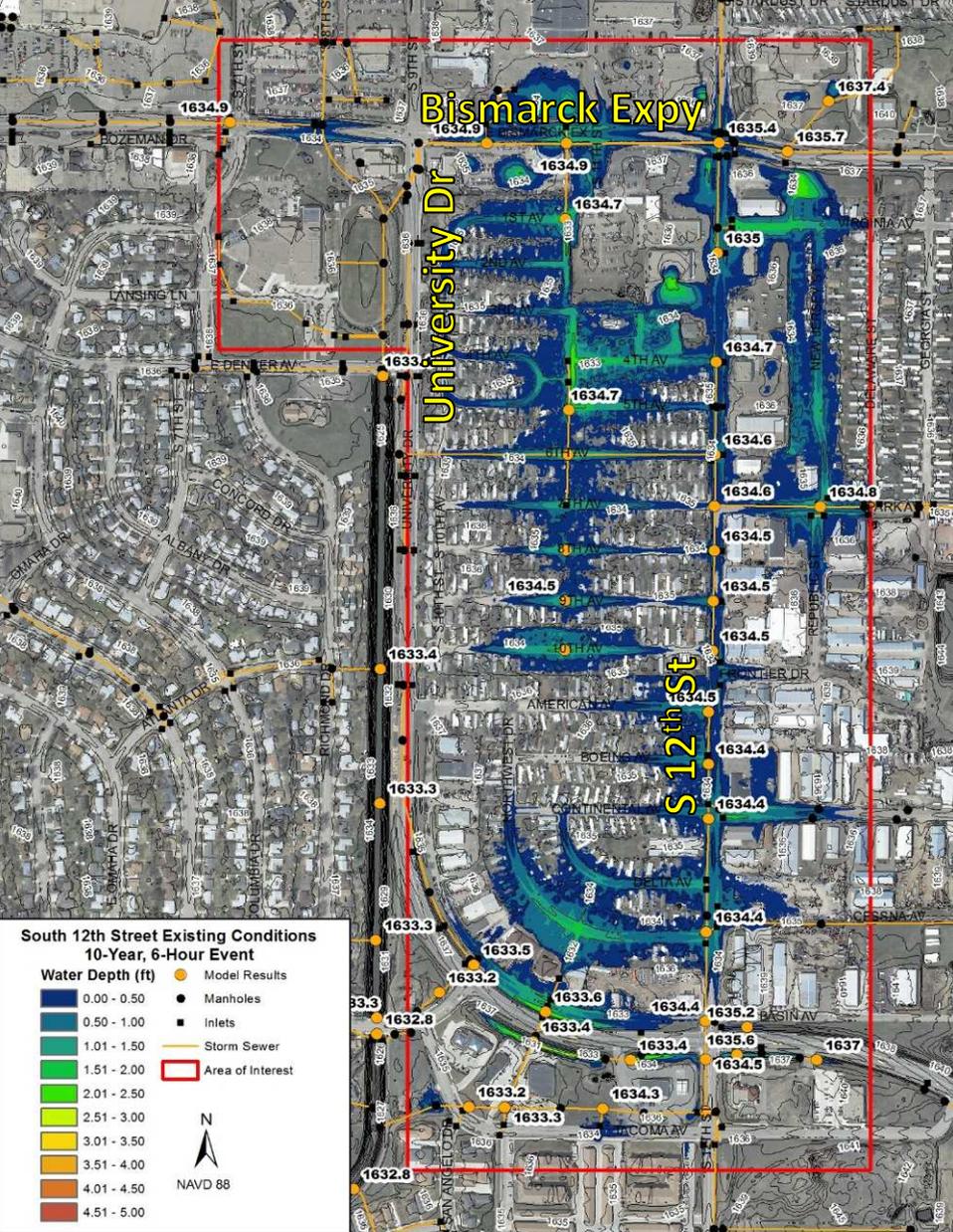
Proposed Conditions



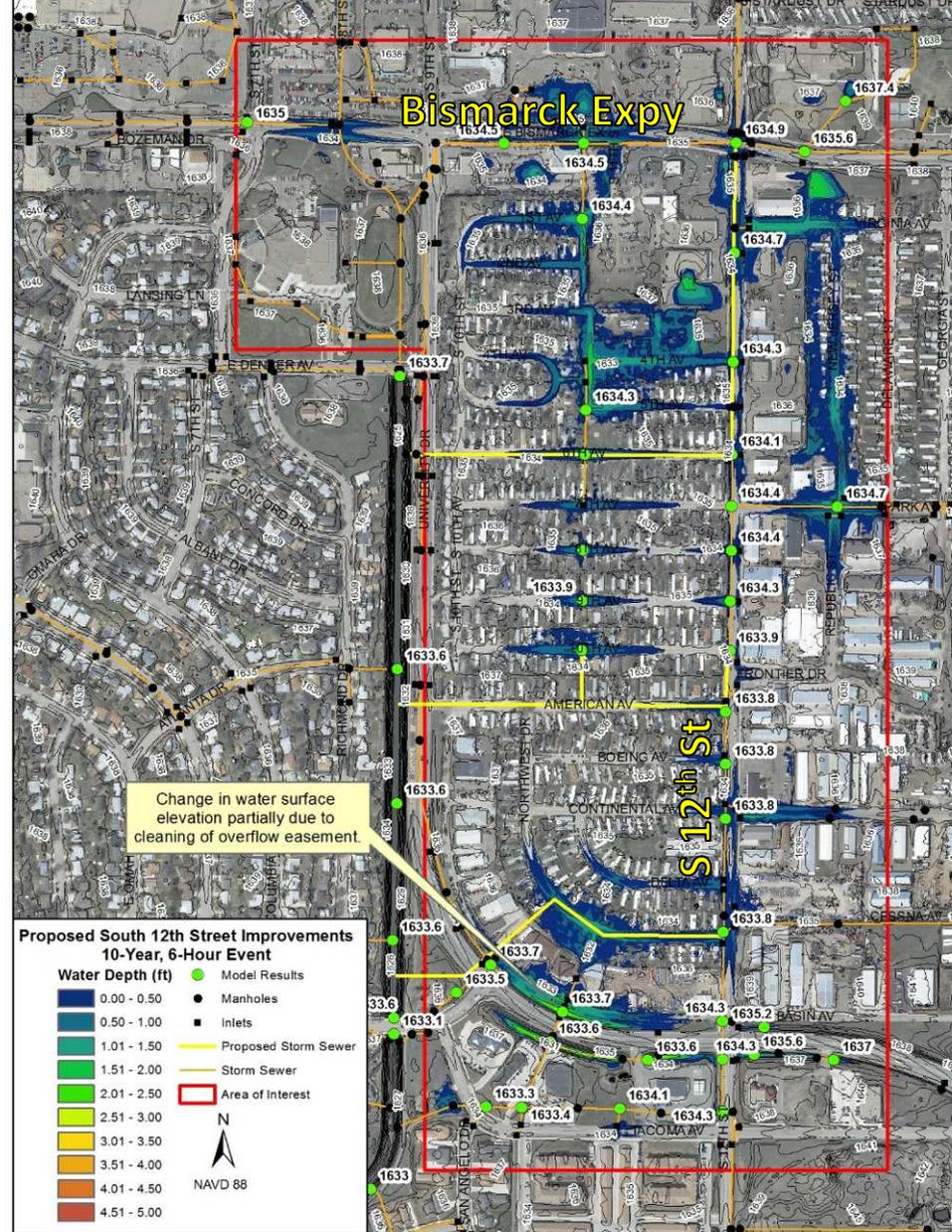
Existing Conditions



Proposed Conditions

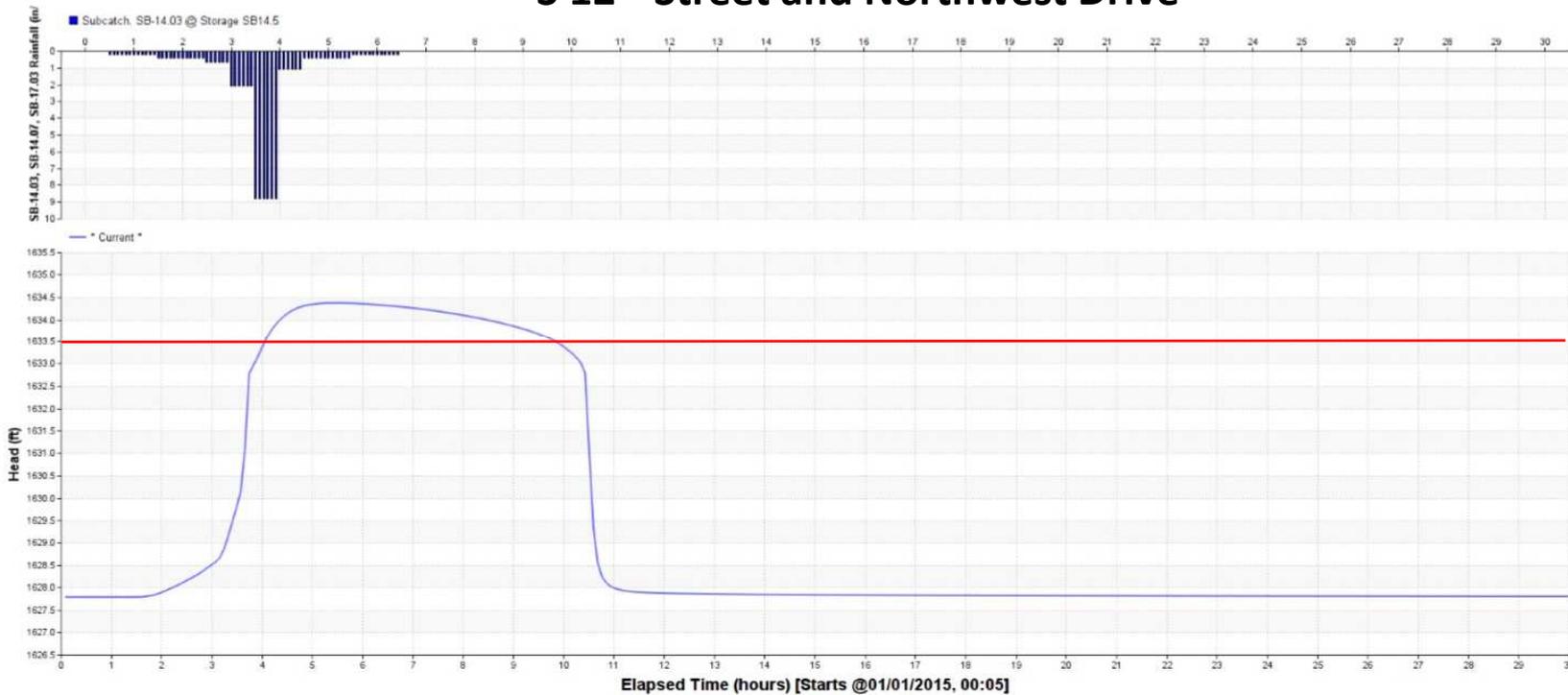


Existing Conditions

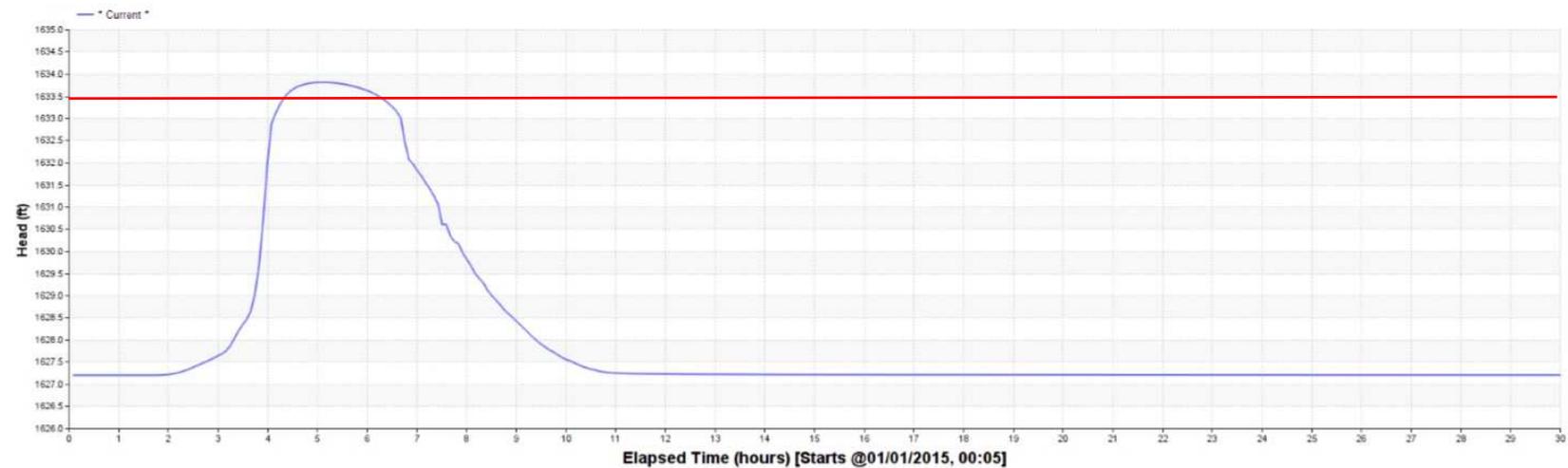


Proposed Conditions

# S 12<sup>th</sup> Street and Northwest Drive



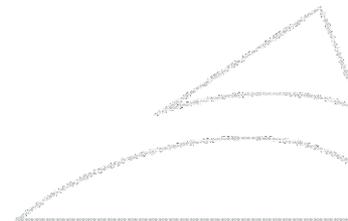
Existing Conditions – 10-Year



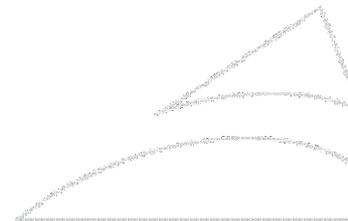
Proposed Conditions – 10-Year

# Other Improvements Studied

- Addition of Detention Ponds
- Concrete Lining of Existing Ditch
- Widening/Concrete Lining Ditch and Replace Box Culverts with Clear Span Bridges

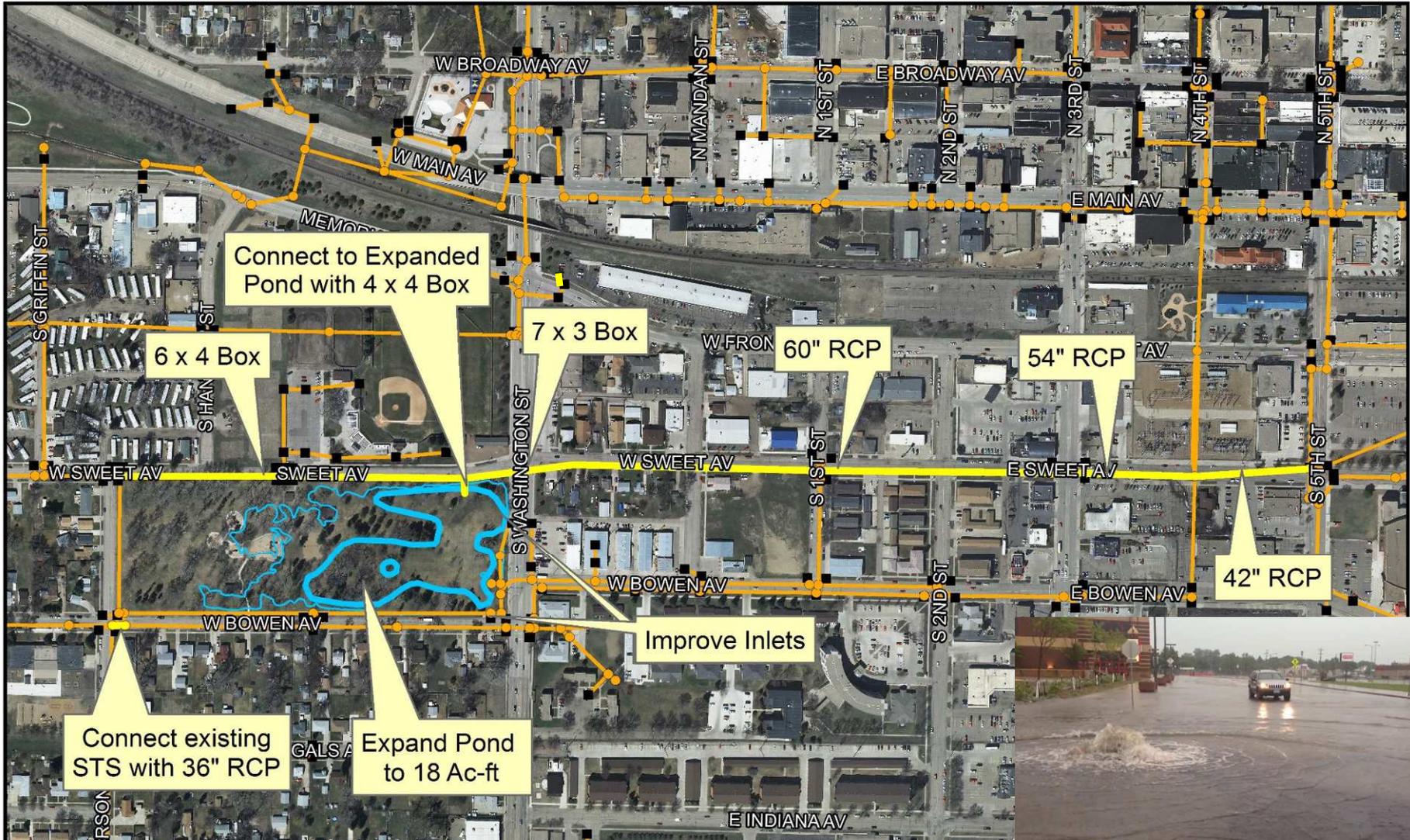


# Other Problem Areas

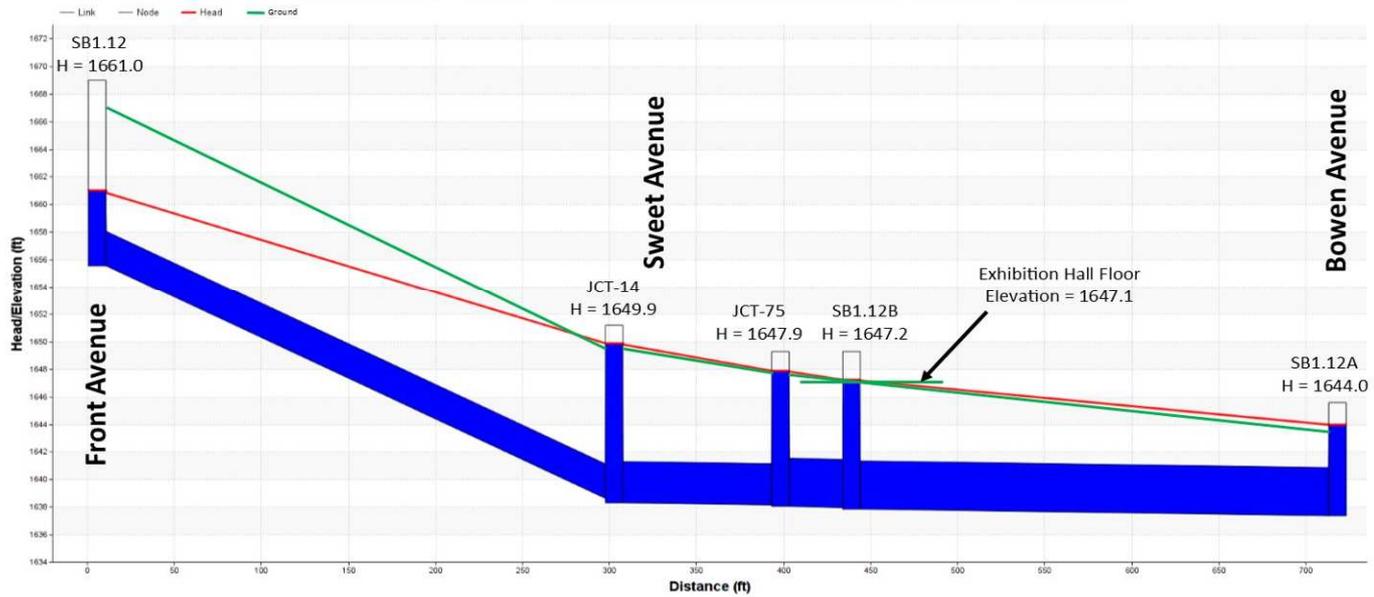


# Kiwanis Park Bypass

- Limited to 5<sup>th</sup> Street/Bowen Ave
- Utilizes Existing Outlet
- \$4.3 Million

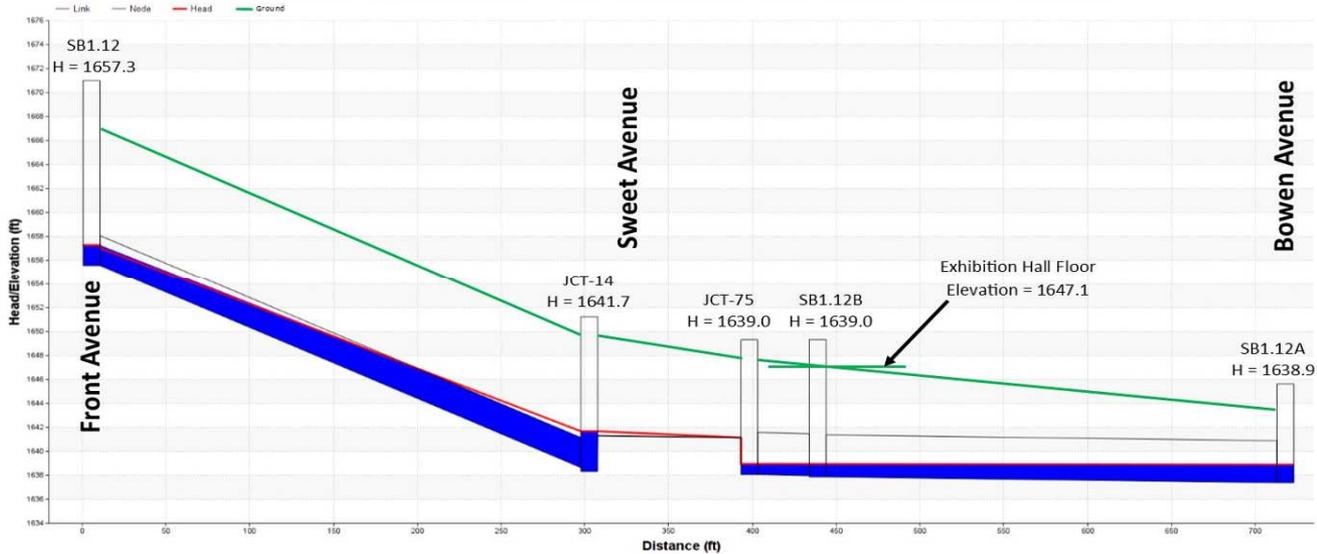


### Base Model, 2-Year - 5th Street from Front Avenue to Bowen Avenue



Existing Conditions – 2-Year

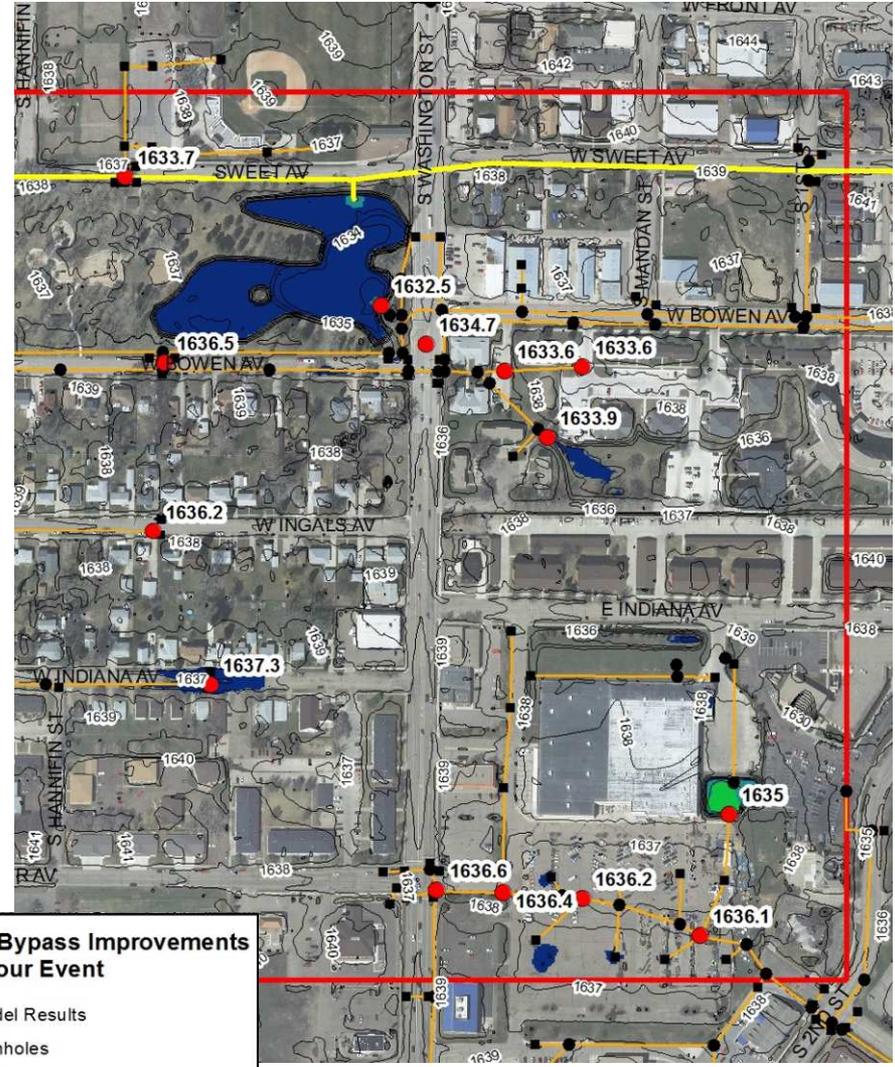
### Kiwanis Bypass, 2-Year - 5th Street from Front Avenue to Bowen Avenue



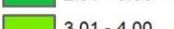
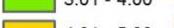
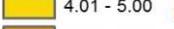
Proposed Conditions – 2-Year

# Existing Conditions

# Proposed Conditions

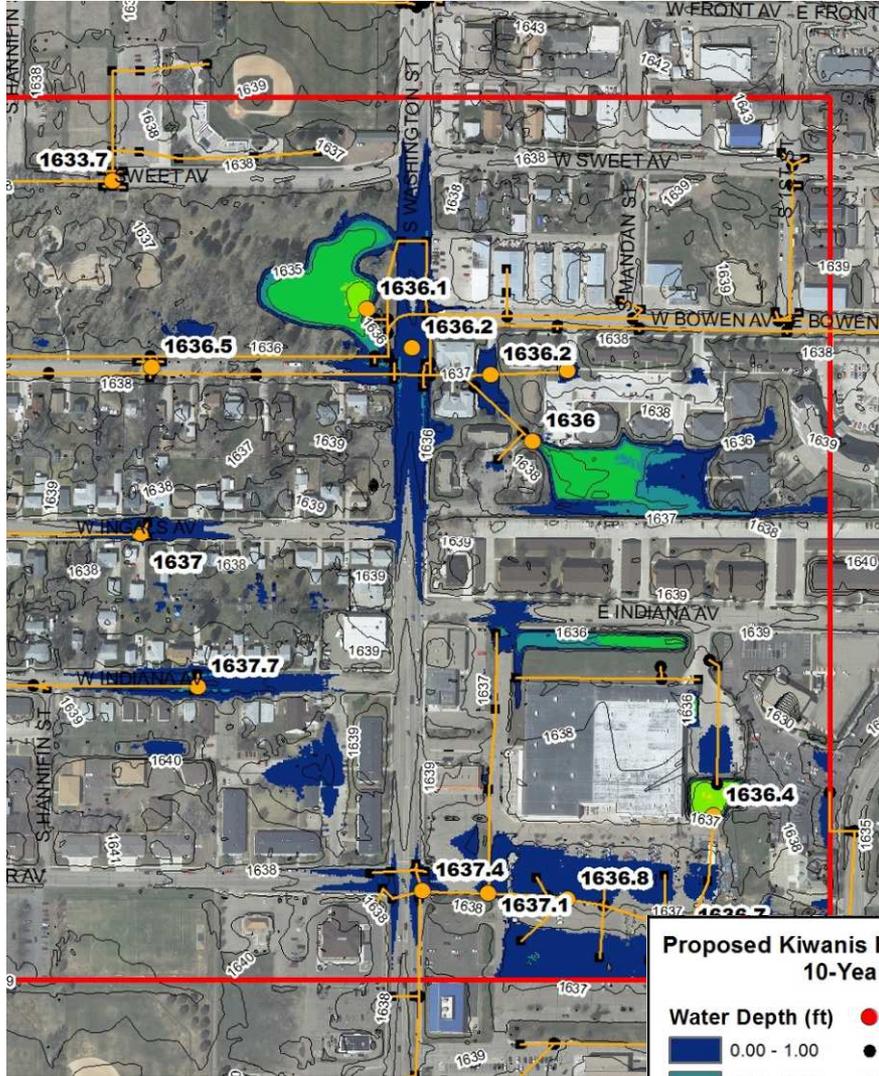


**Proposed Kiwanis Park Bypass Improvements  
2-Year, 6-Hour Event**

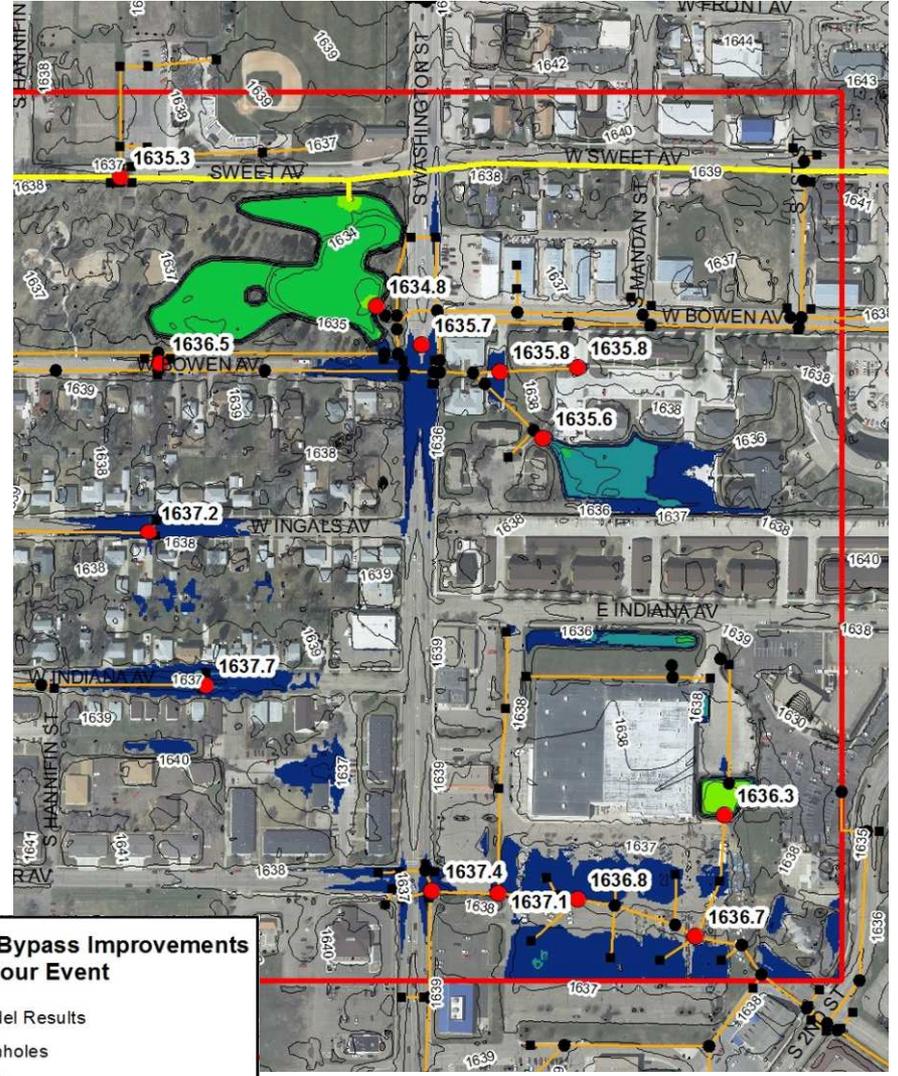
	0.00 - 1.00		Model Results
	1.01 - 2.00		Manholes
	2.01 - 3.00		Inlets
	3.01 - 4.00		Proposed Storm Sewer
	4.01 - 5.00		Storm Sewer
	5.01 - 6.00		Area of Interest
	6.01 - 7.00		



# Existing Conditions



# Proposed Conditions

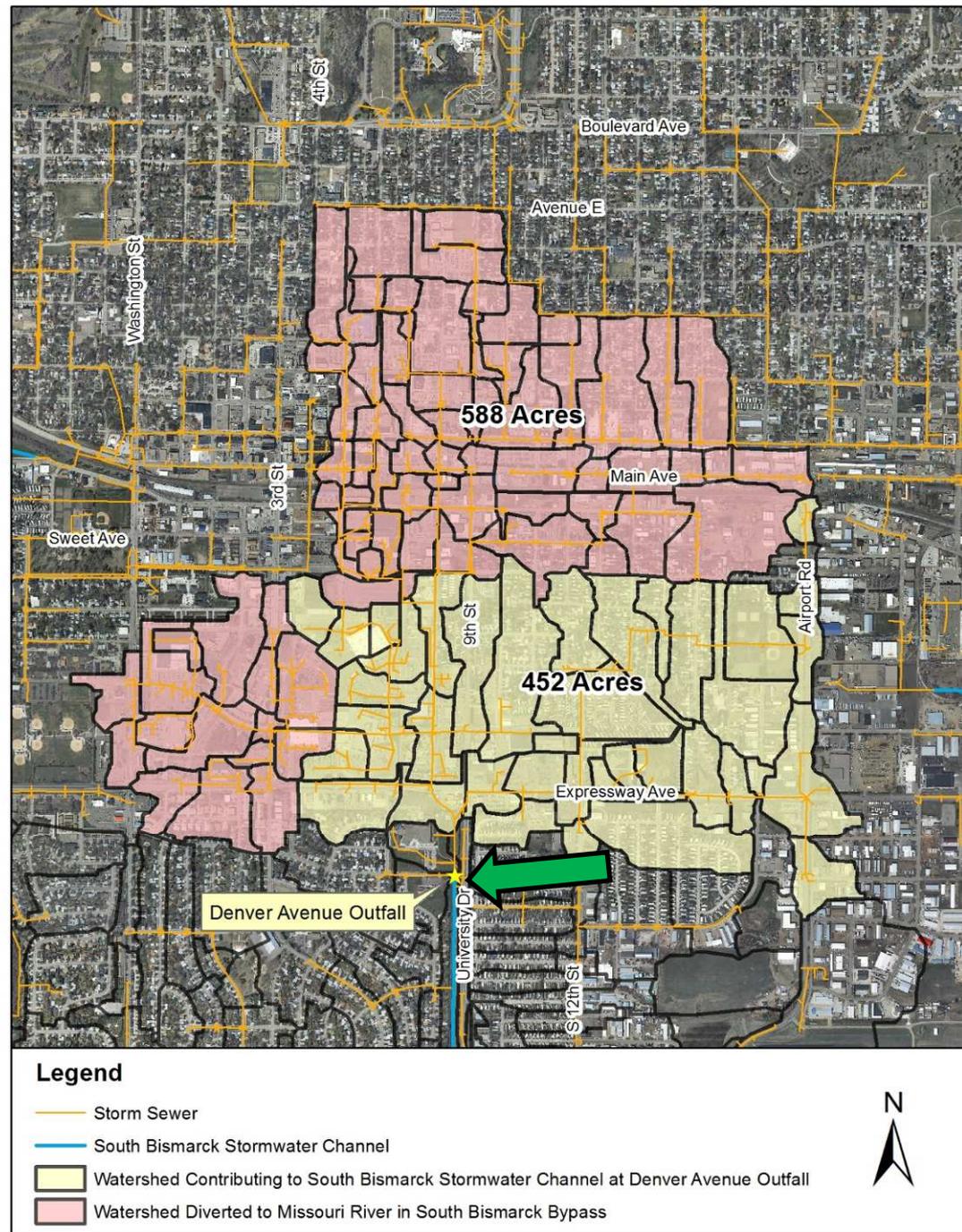


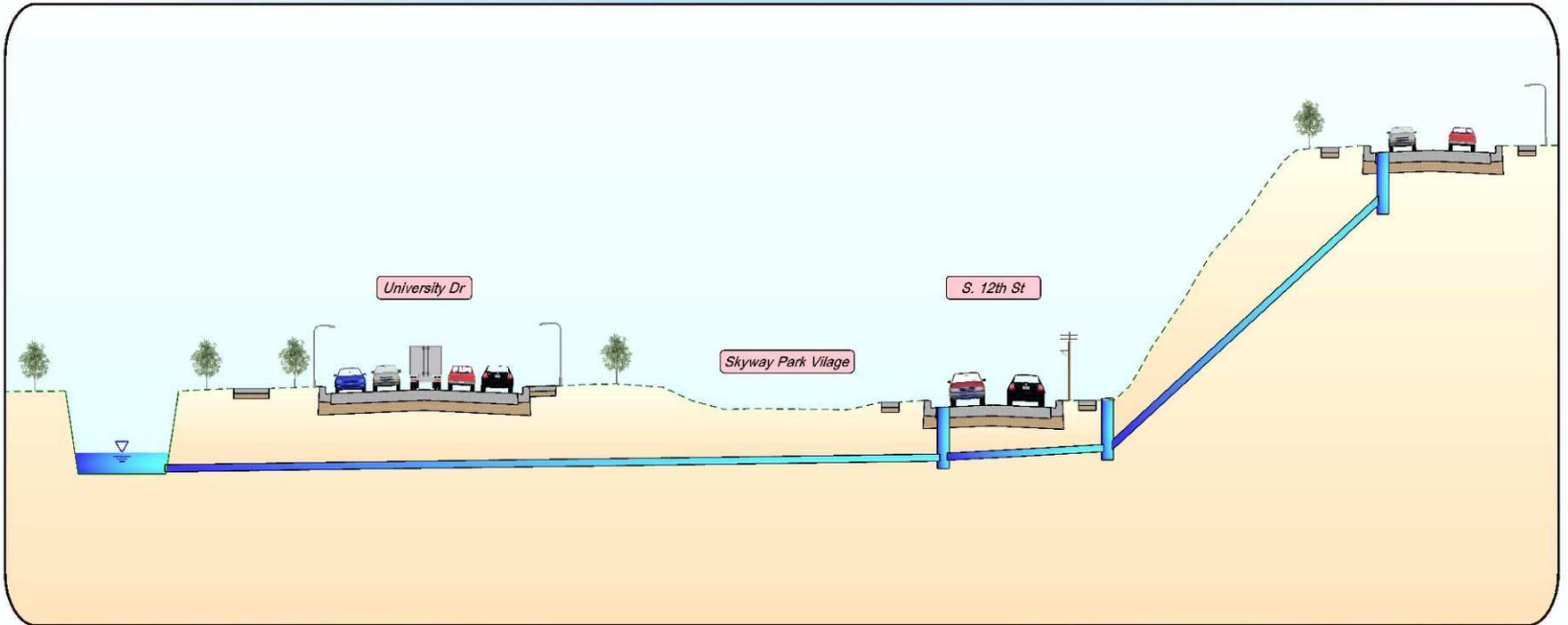
## Proposed Kiwanis Park Bypass Improvements 10-Year, 6-Hour Event



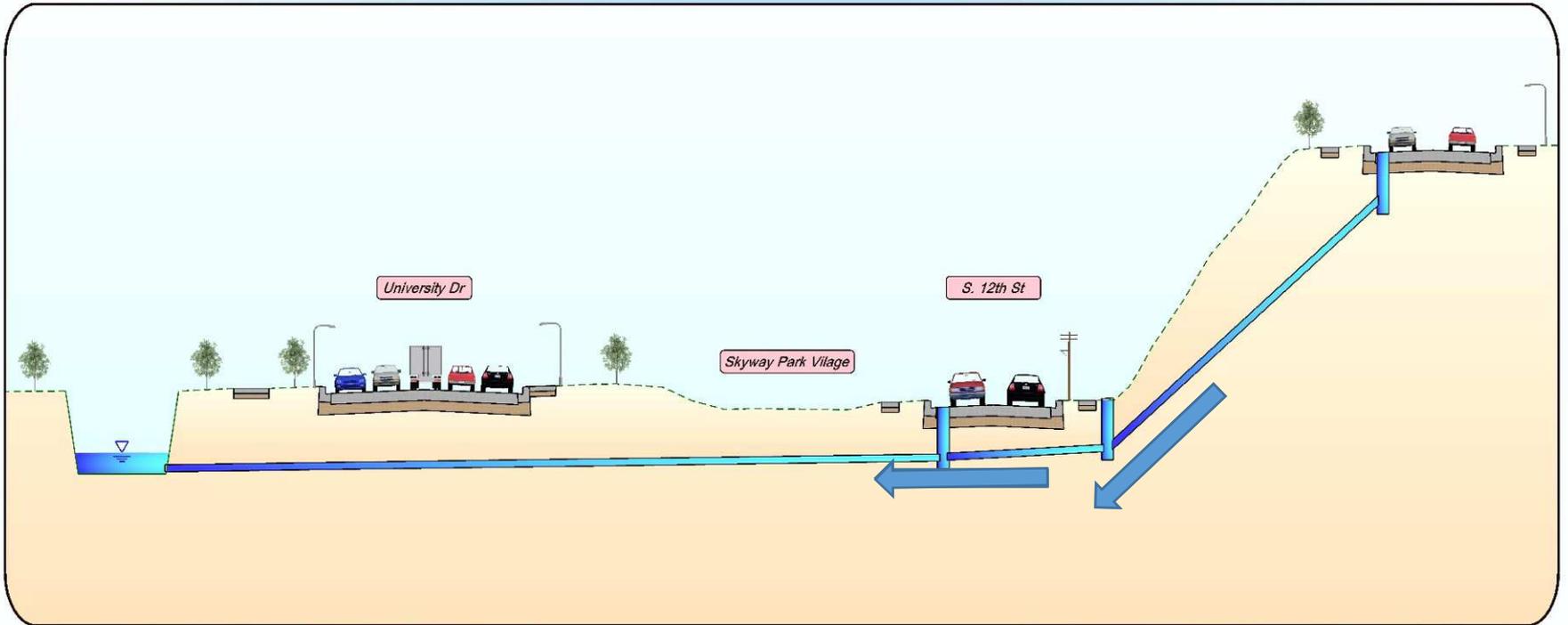
# New Outfall to Missouri River

- Divert 56% of Watershed Area





Existing Drainage Ditch  
University Drive / S. 12th Street



Existing Drainage Ditch  
University Drive / S. 12th Street

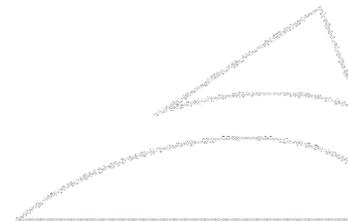
# South Bismarck Bypass

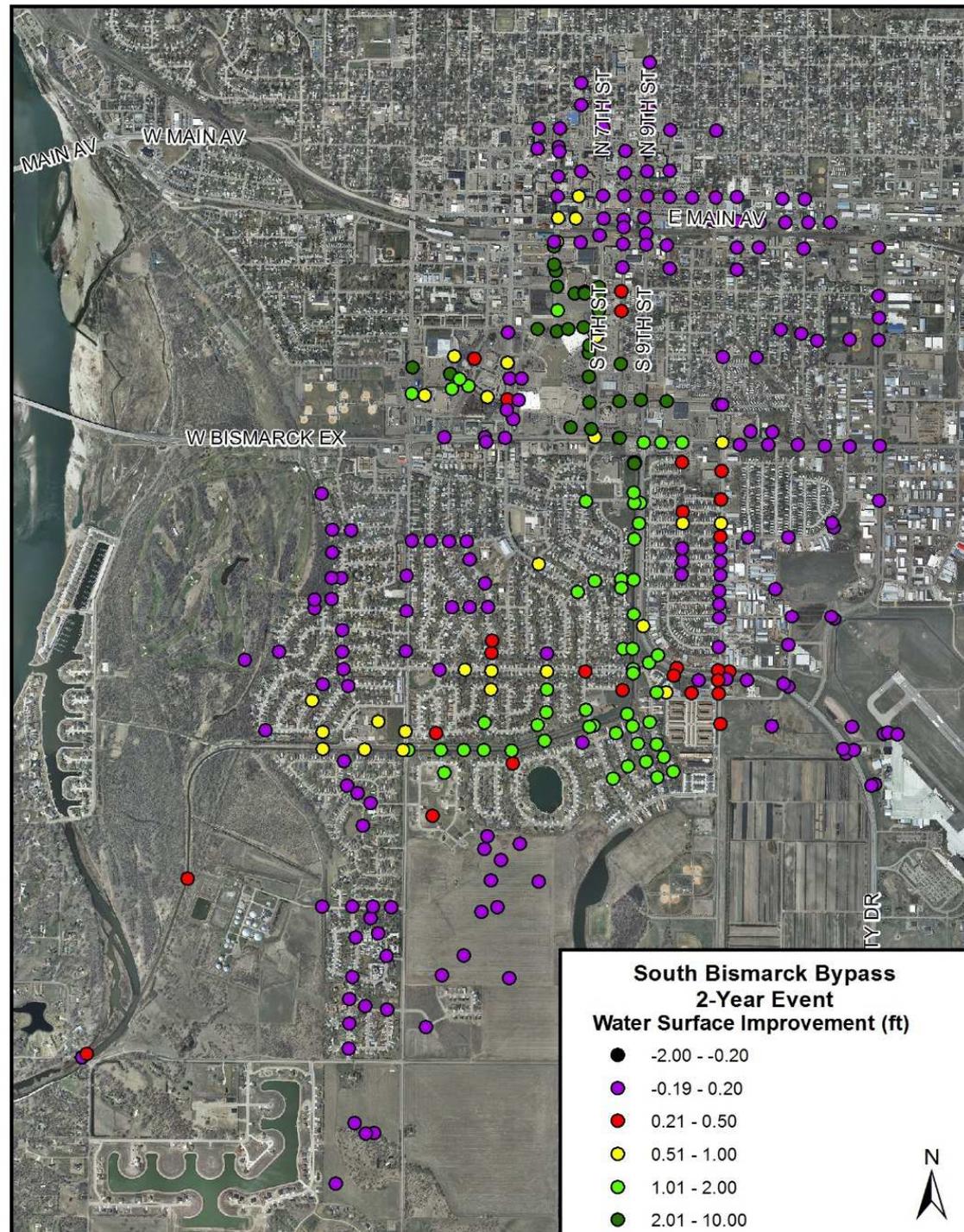
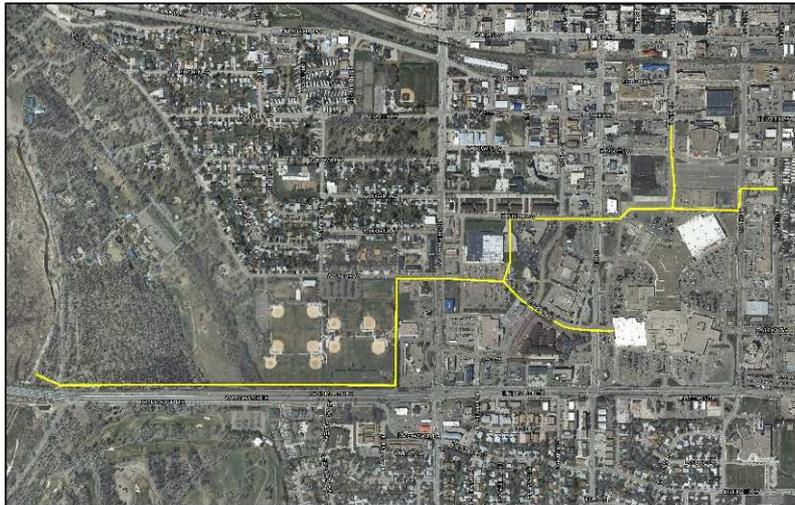
- Low Profile Box Culverts
- \$19.3 Million
- Open Channel

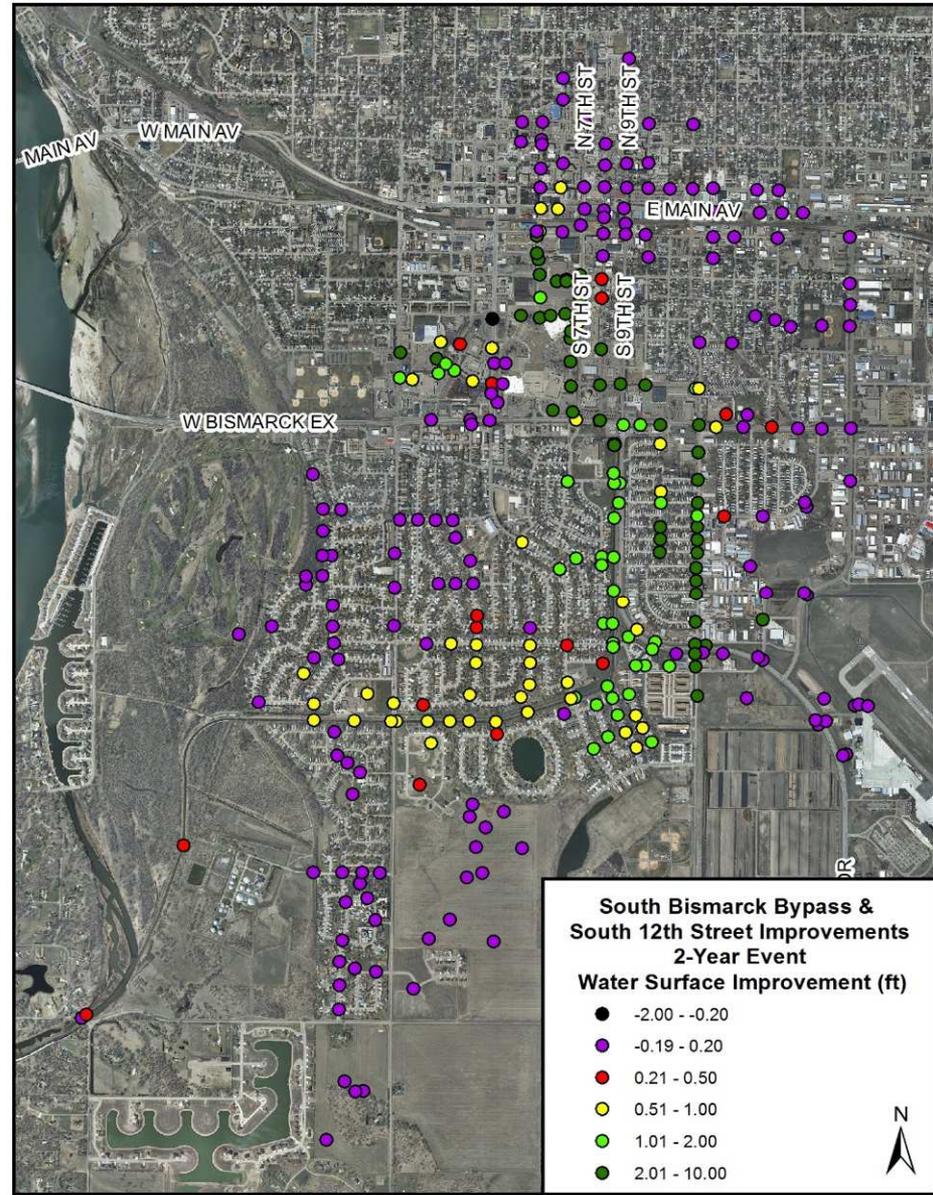
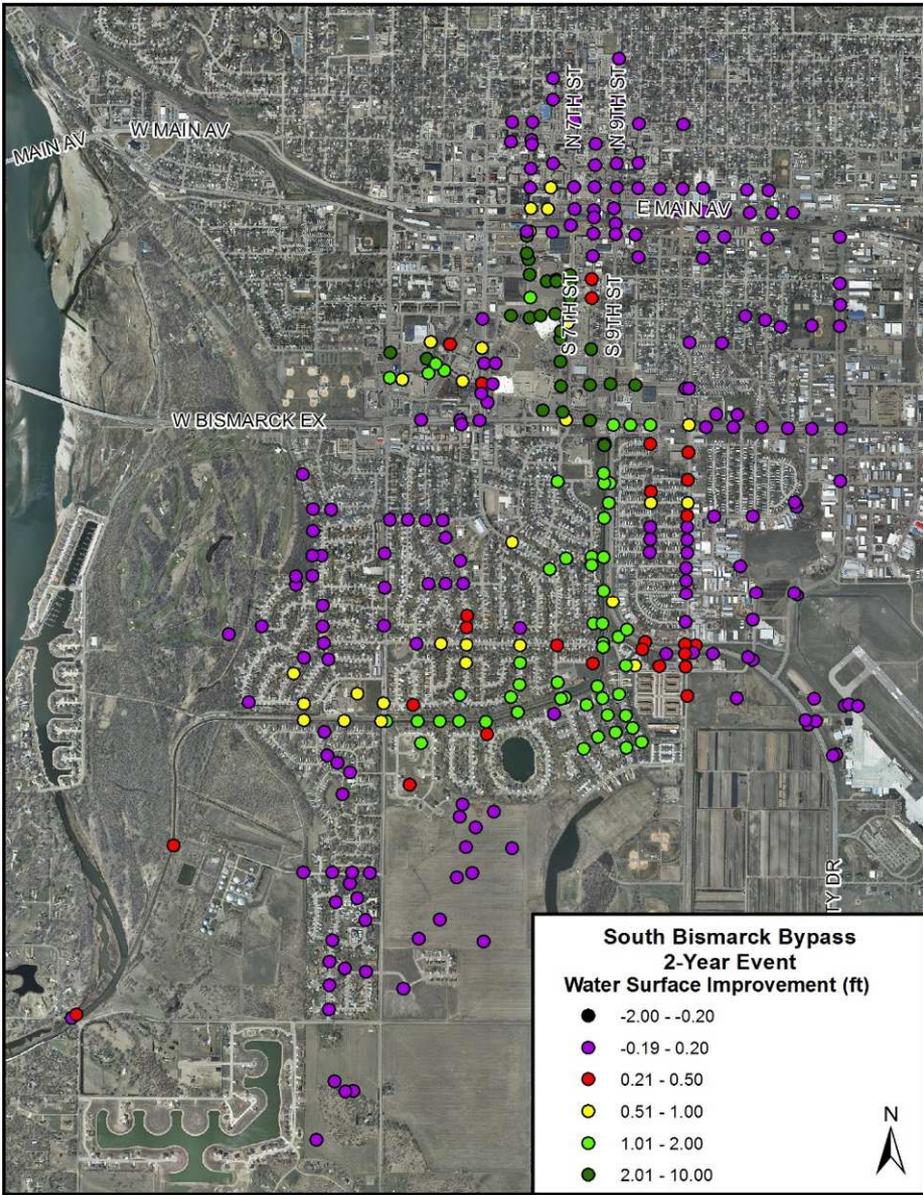


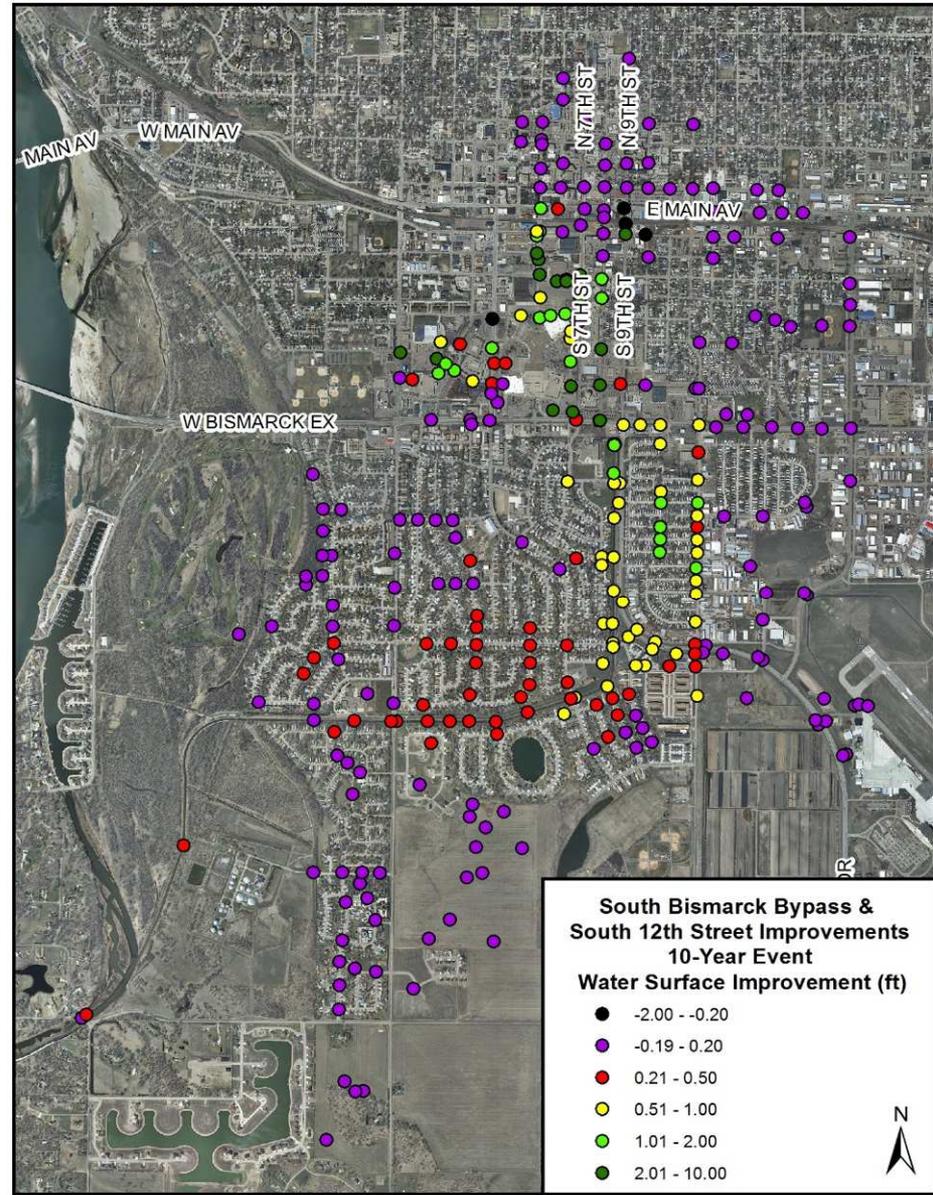
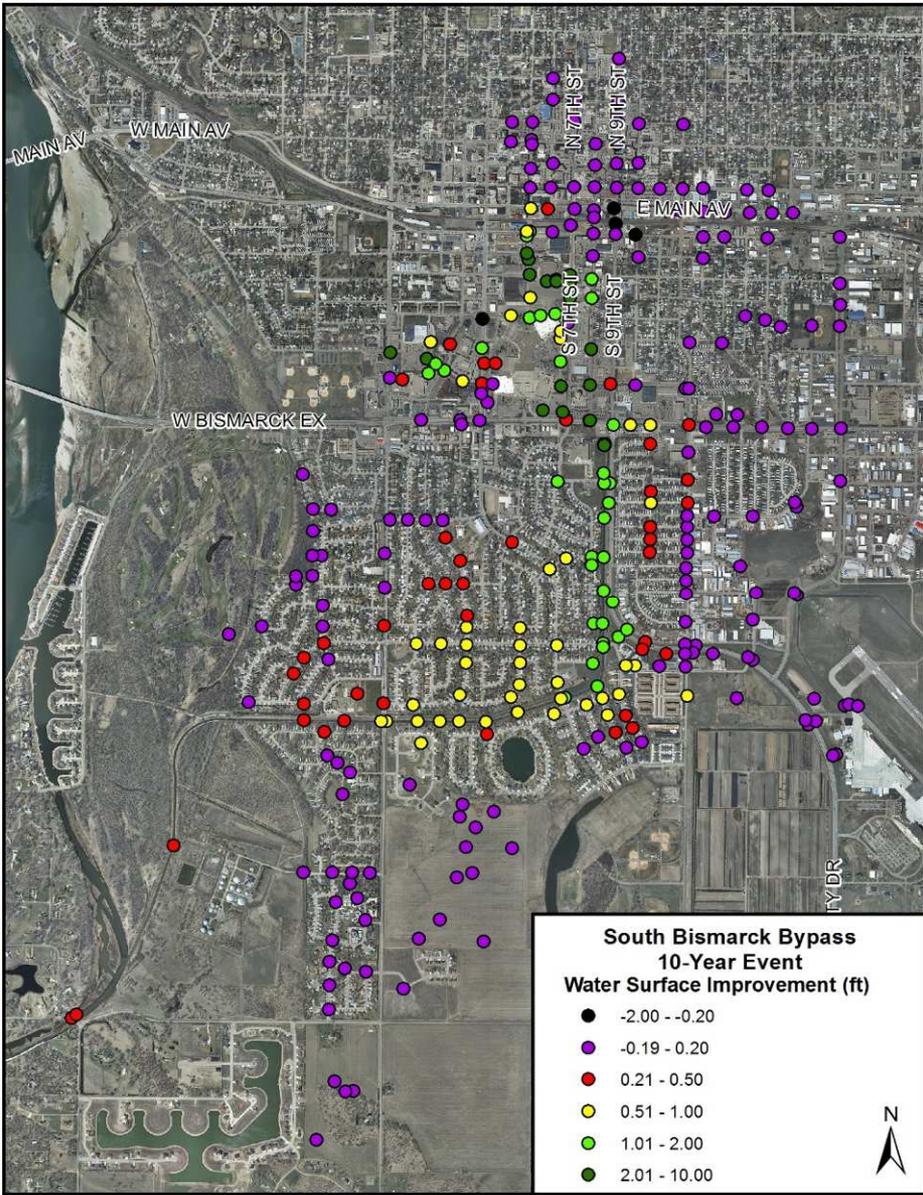
# South Bismarck Bypass - Benefits

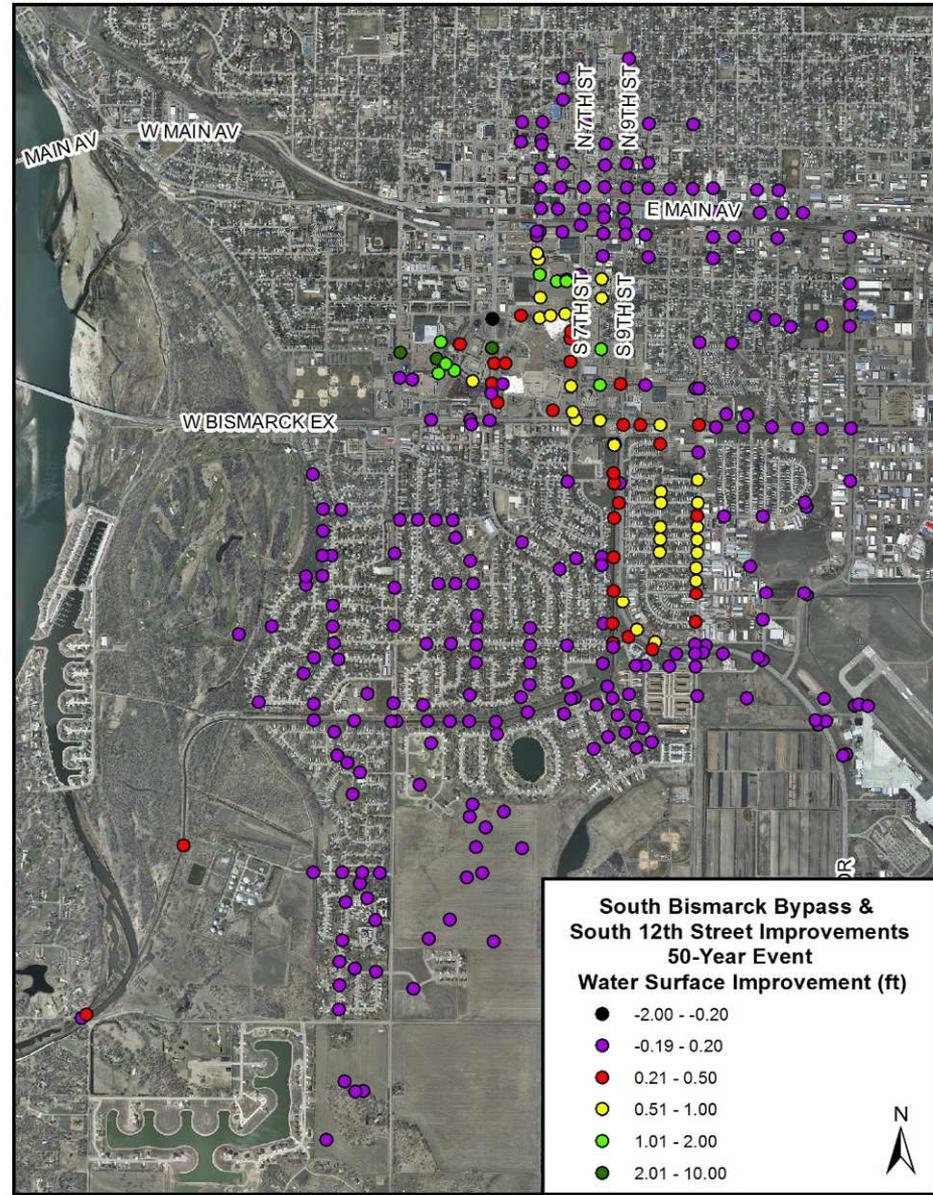
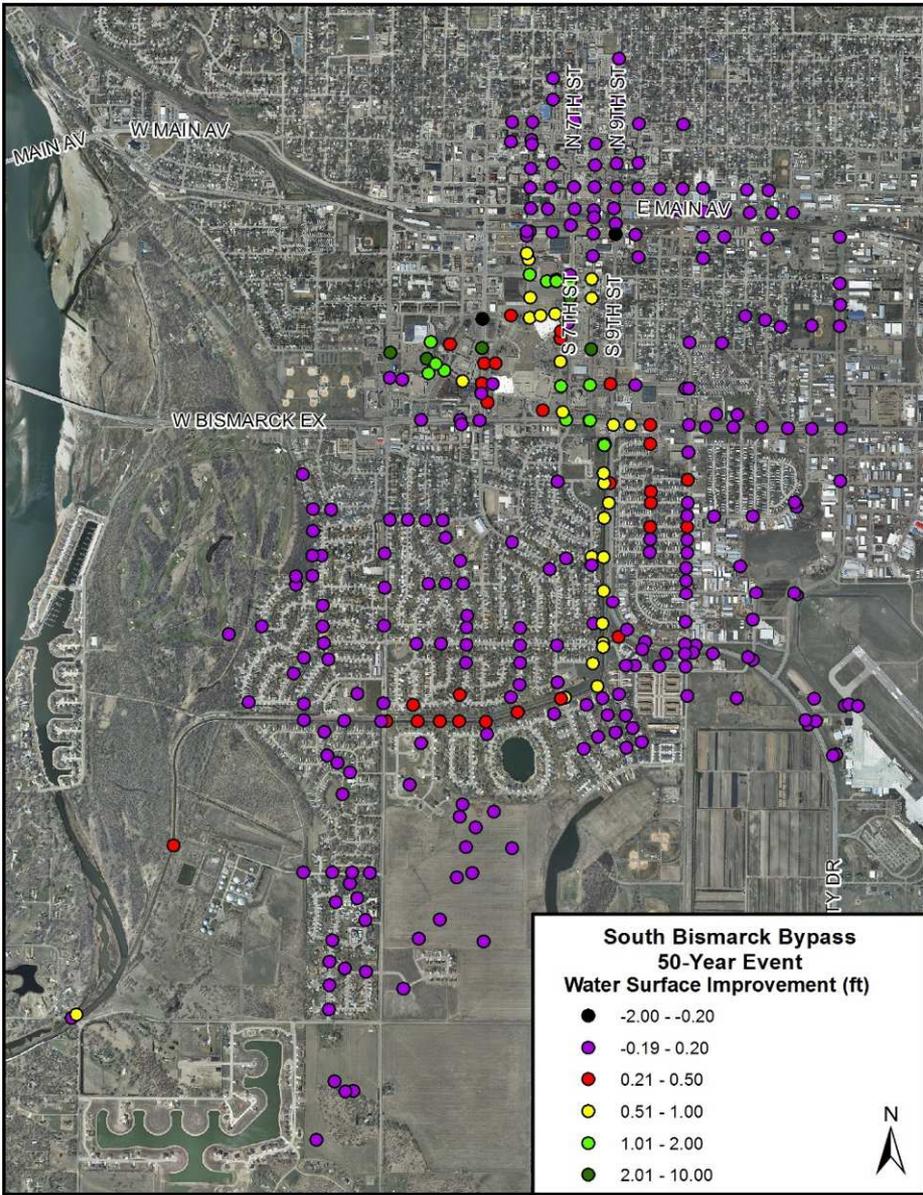
- Decreases stages in the south Bismarck stormwater channel.
- Allows local storm sewers that discharge to the stormwater channel to function more effectively.
- Ability to abandon double 54" reinforced concrete pipe located beneath Kirkwood Mall.
- Reduces water stages in South 12th Street area on larger events (50- and 100-year). Local improvements will still be necessary to improve conveyance on smaller events.





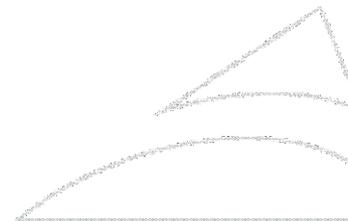






# Opinion of Probable Costs

Improvement	Estimated Cost
6 <sup>th</sup> Ave Improvements	\$4,200,000
American Ave Improvements	\$2,100,000
<u>Northwest Dr Improvements</u>	<u>\$2,000,000</u>
<b>South 12<sup>th</sup> St. Total</b>	<b>\$8,300,000</b>
Kiwanis Park Alternative	\$4,300,000
South Bismarck Bypass	\$19,300,000





# *South Bismarck Watershed Storm Sewer Improvements*

*Bismarck City Commission*

August 23, 2016

