

# 16th Street SW

## RECONSTRUCTION PROJECT



City Council Presentation

## 16<sup>th</sup> Street SW Reconstruction 14<sup>th</sup> Ave SW to 2<sup>nd</sup> Ave SW

May 6, 2024

**City of Minot**

NORTH  
**Dakota** | Transportation  
Be Legendary.

**Apex**  
Engineering Group



## Today's Presenters



**Matt Kinsella, PE**

- Project Manager



**Levi Heller, PE**

- Assistant Project Manager

## Other Project Team Members

### Agency Partners



- Lance Meyer, PE
- Stephen Joersz, PE
- Jason Sorenson



- Seng Marohl
- Chad Beggs, PE

### Consultant Team



## Tonight's Agenda

- Project Overview
- Proposed Alternatives
- Estimated Cost and Project Schedule



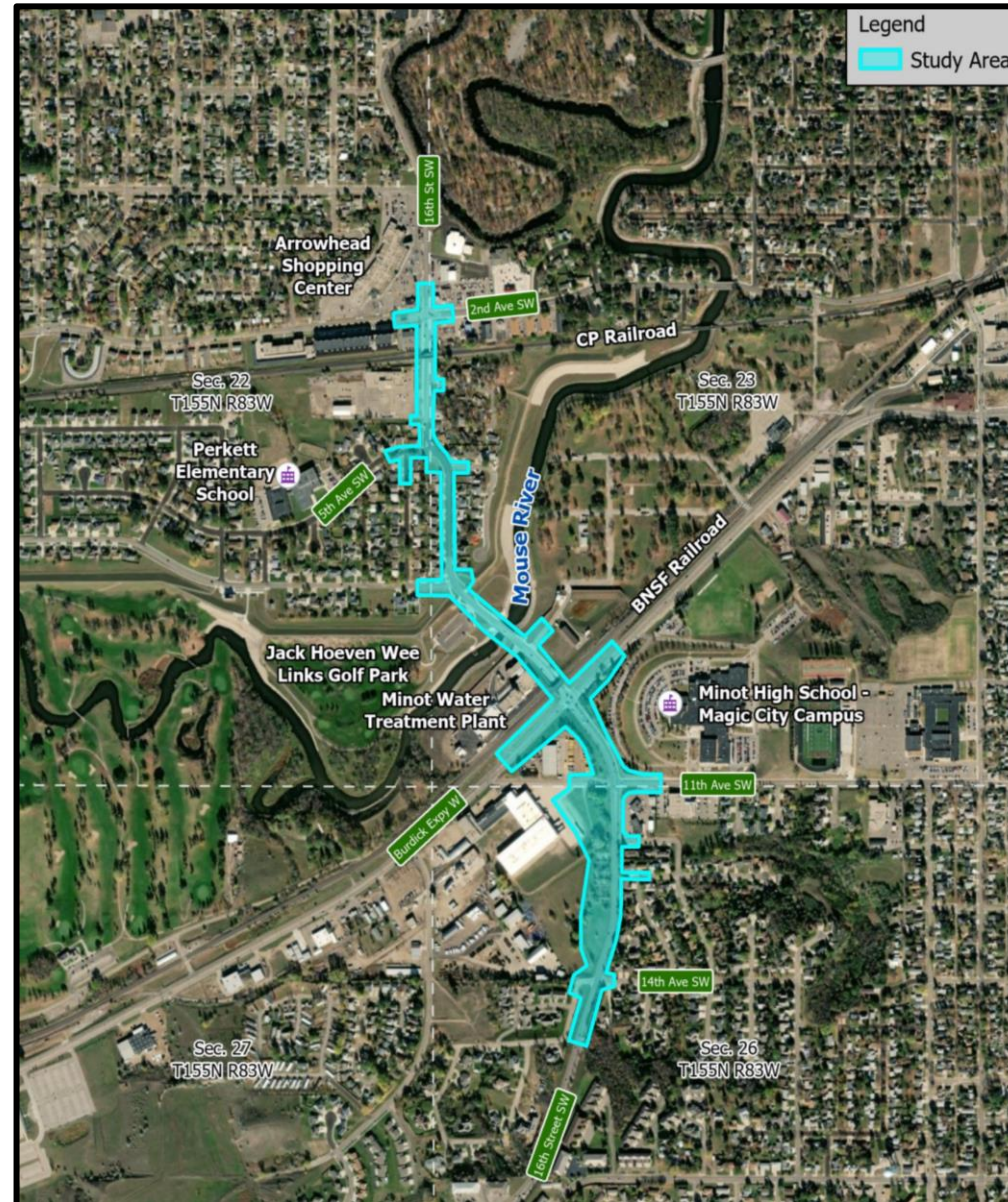




# Project Overview



## Project Study Area



## Project Background

- Consultant team began work May 2023
- Alternative development/environmental work May – November 2023
- Public input meeting November 2023

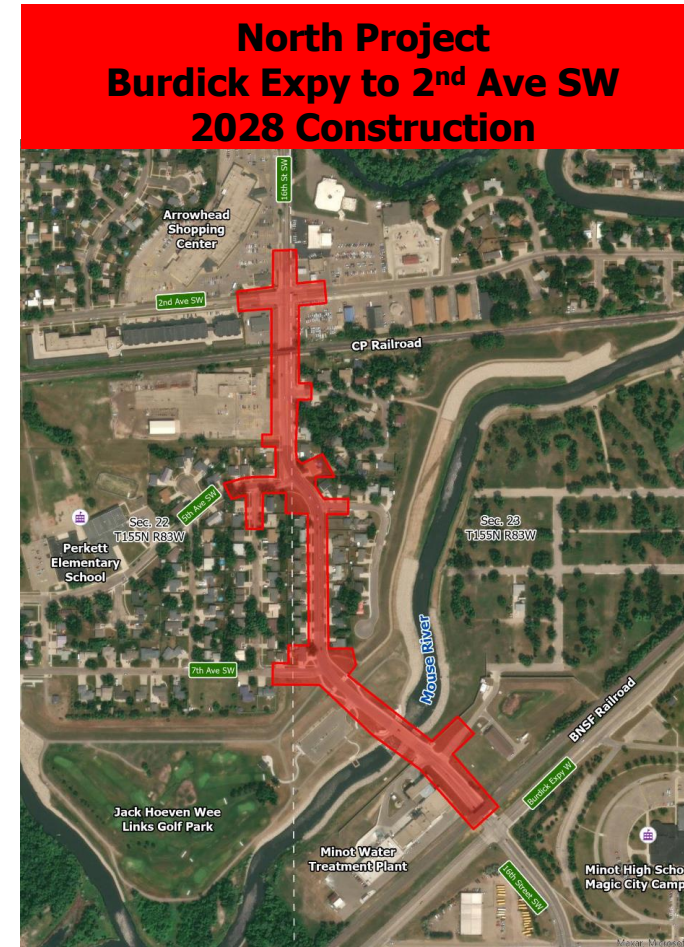




## Project Background

- March 4<sup>th</sup> City Council Meeting
  - Due to increased project cost – Council approves splitting project into two phases

Today's  
Focus





## South Project - Purpose and Need



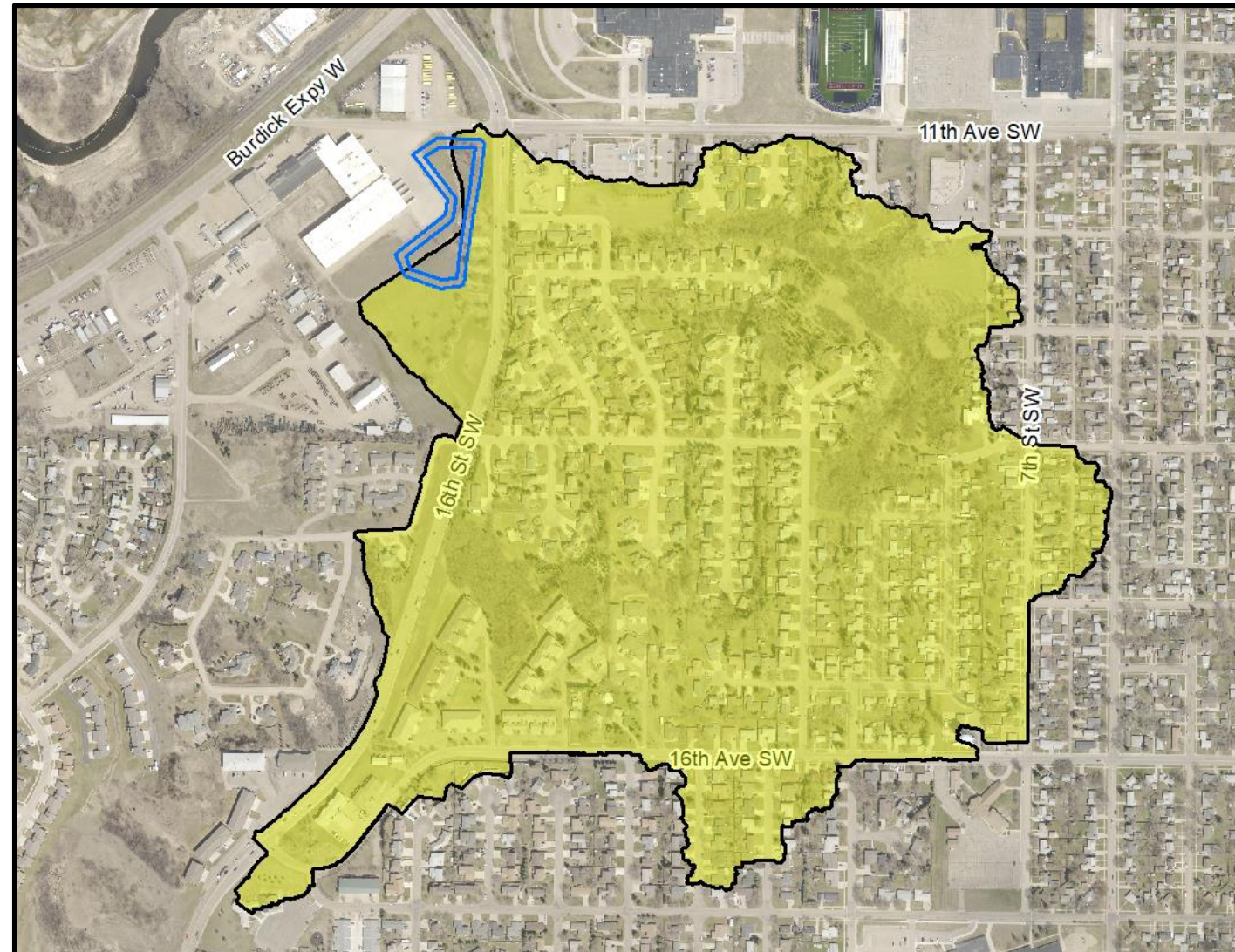


## South Project - Purpose and Need

- Expand storm sewer system capacity including regional retention pond

### Other Needs:

- Lack of left turn lanes
- Need for upgraded pedestrian/bicycle facilities and ADA upgrades



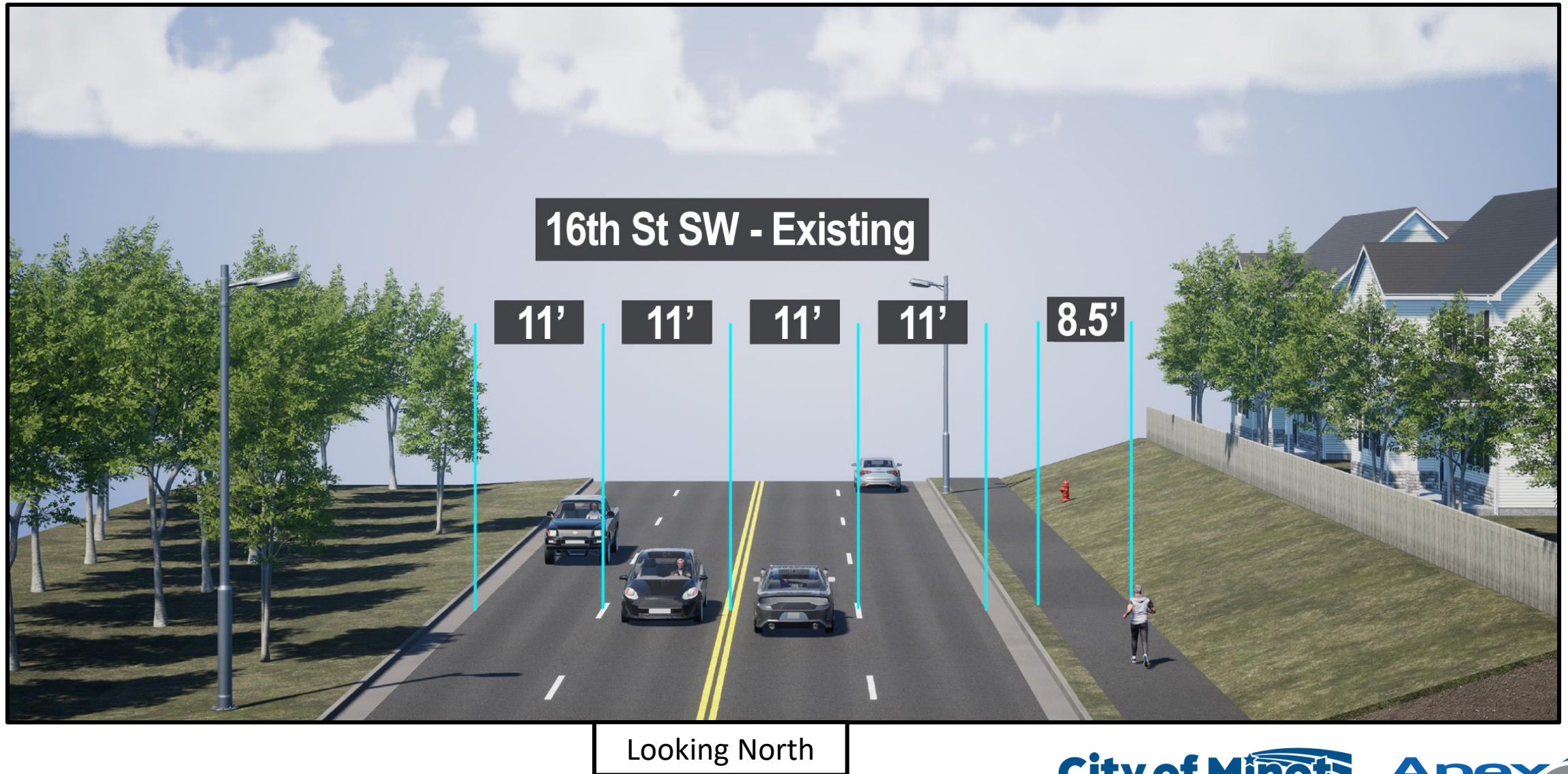




# Proposed Alternatives

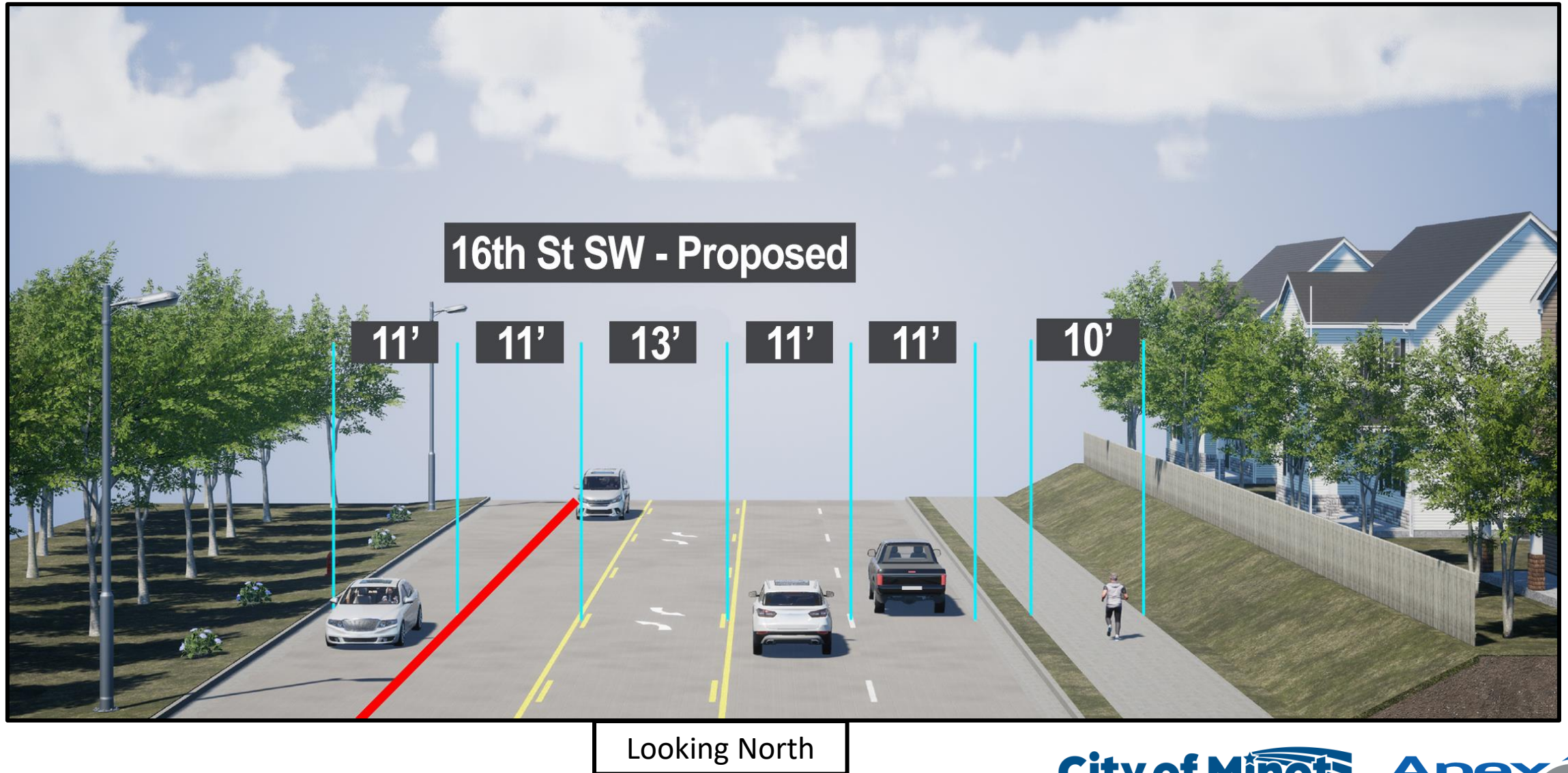


## South Project Alternatives





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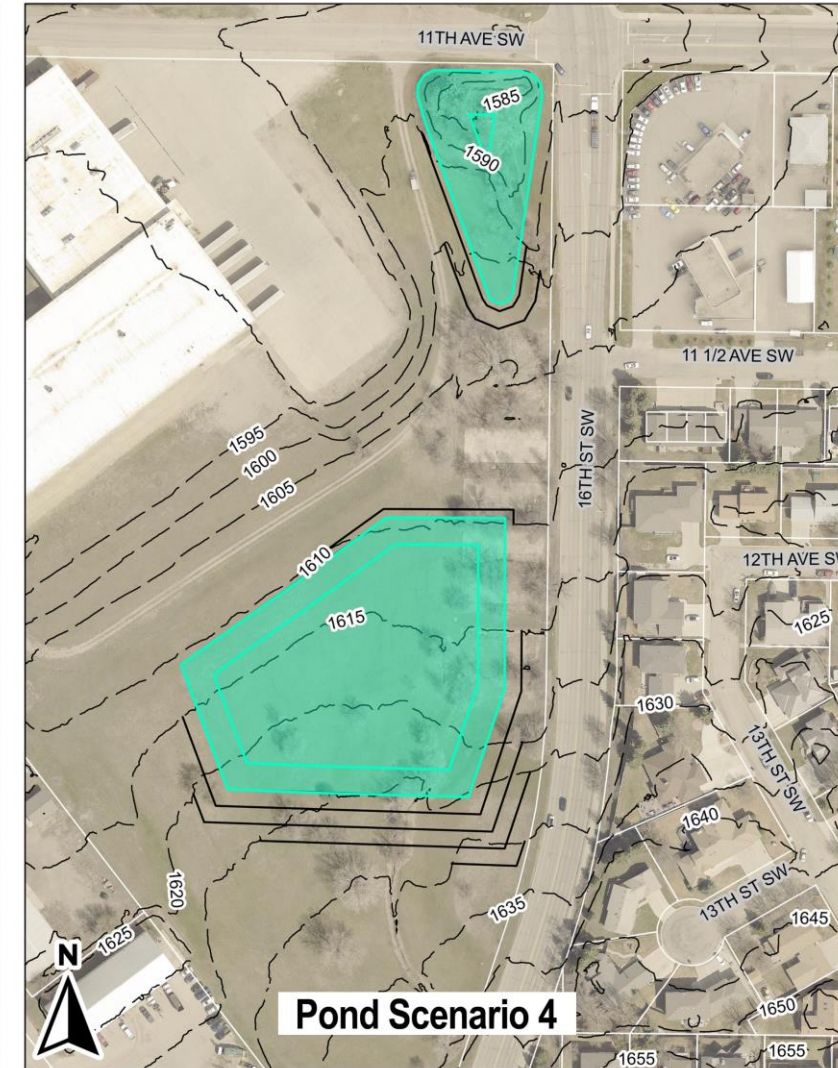
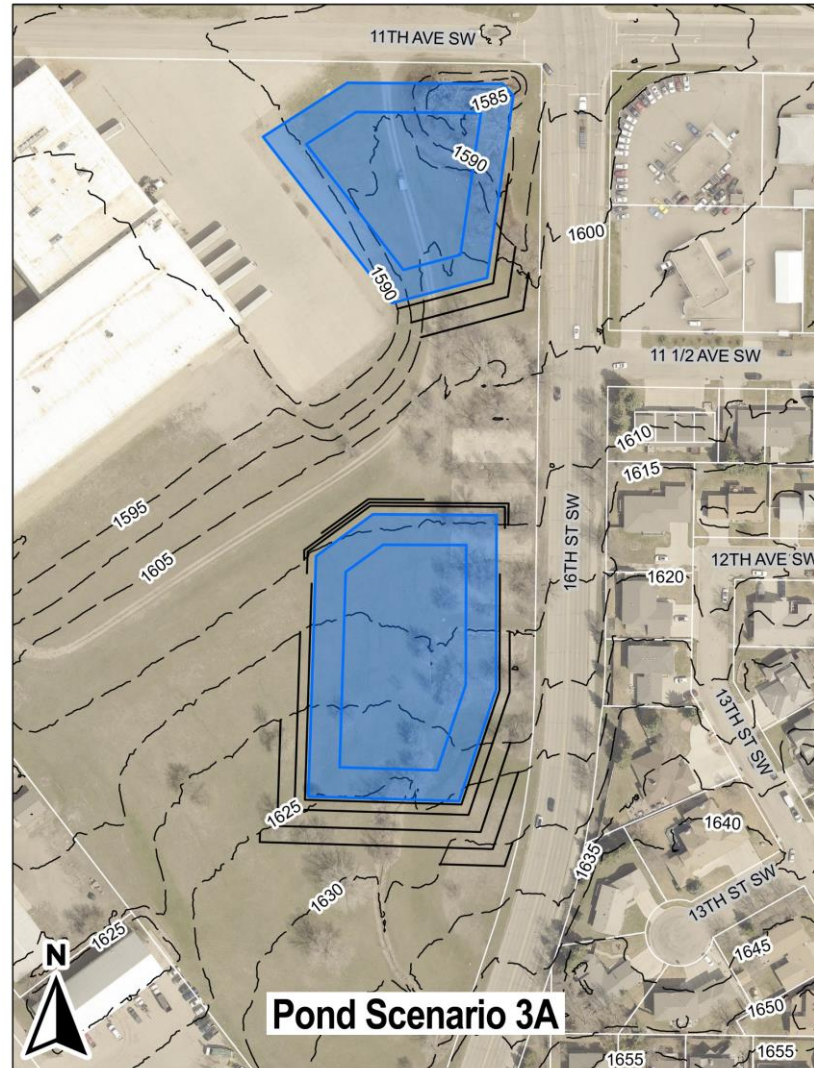
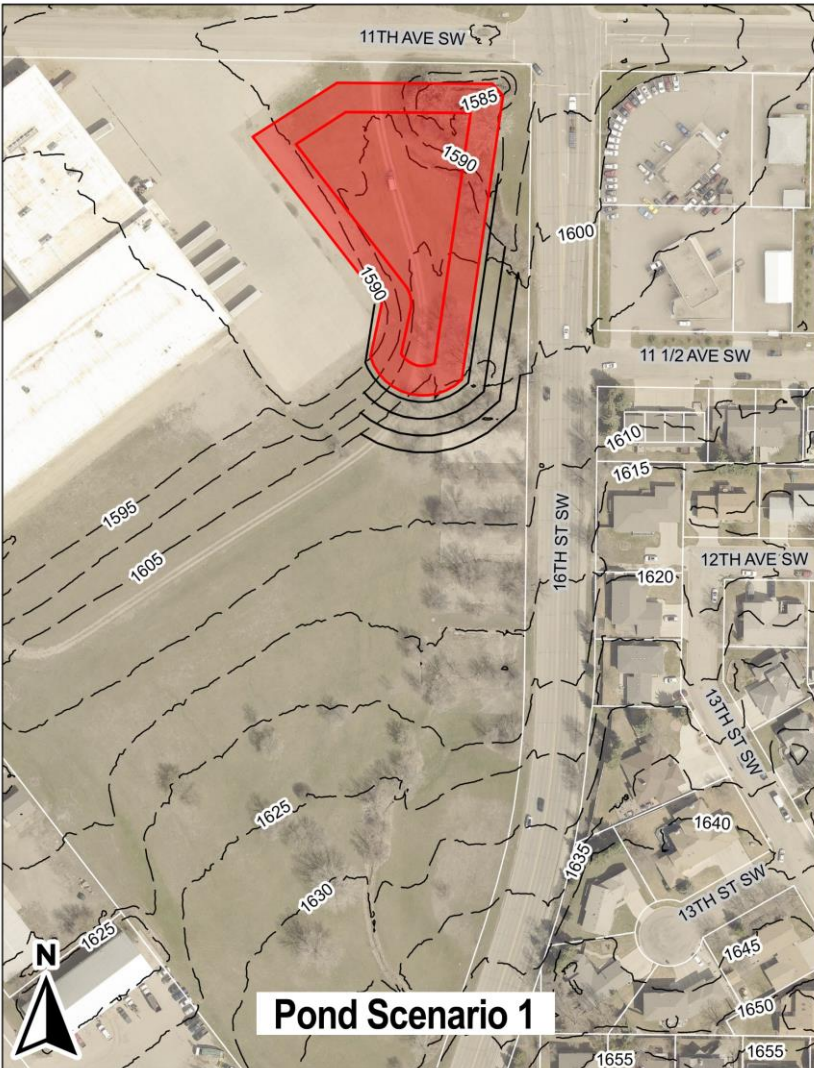




## South Project Alternatives

- All South Project Build Alternatives Include the Following:
  - New transition speed zone (30 MPH) from 11th Avenue SW to Burdick Expressway
  - Turn lane recommendations from the Traffic Operations Report
  - New traffic signal system at 11th Avenue SW
  - Revised traffic signal at Burdick Expressway
  - New lighting on 16th Street SW
  - Drainage improvements at 12th Avenue SW, east of 16th Street SW

## South Project Alternatives

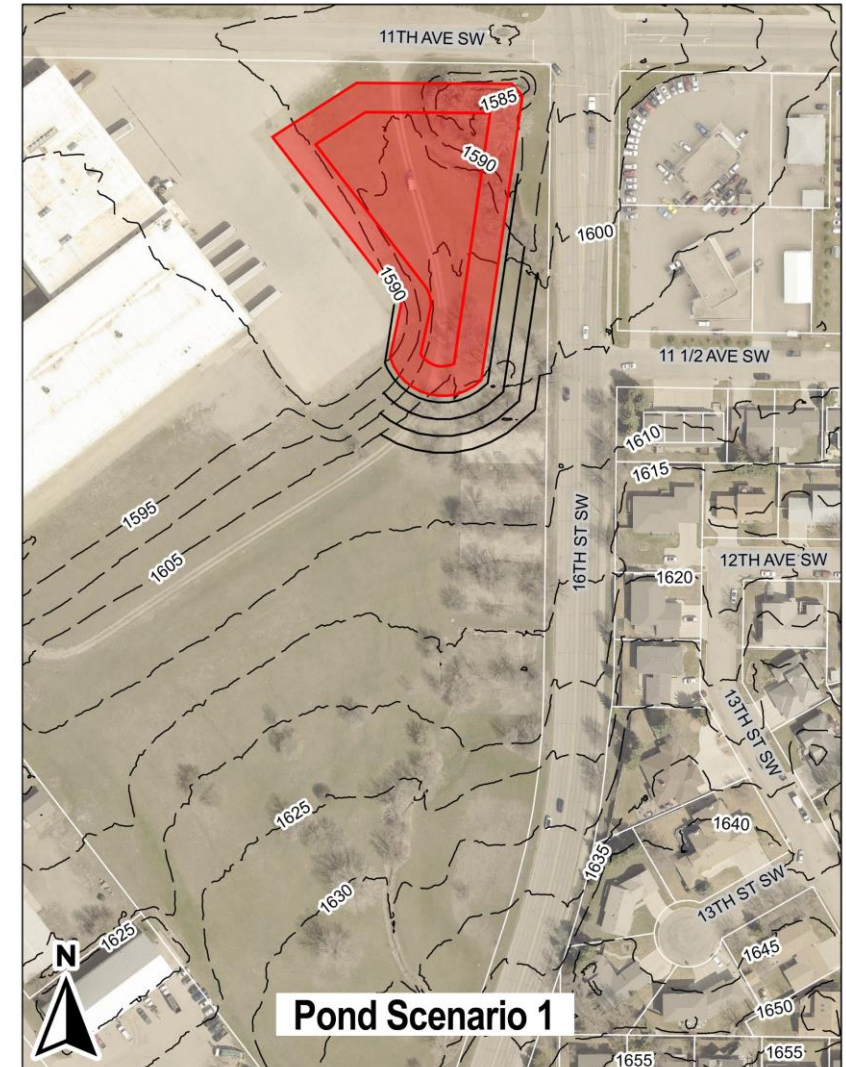




## South Project Alternatives

### ■ Pond Scenario 1

- Single pond system does not meet City requirement of one-foot of freeboard on the 100-year storm event
- Higher duration of flooding at the 16<sup>th</sup> St/Burdick intersection RR underpass
- Undesirable impacts to landowner

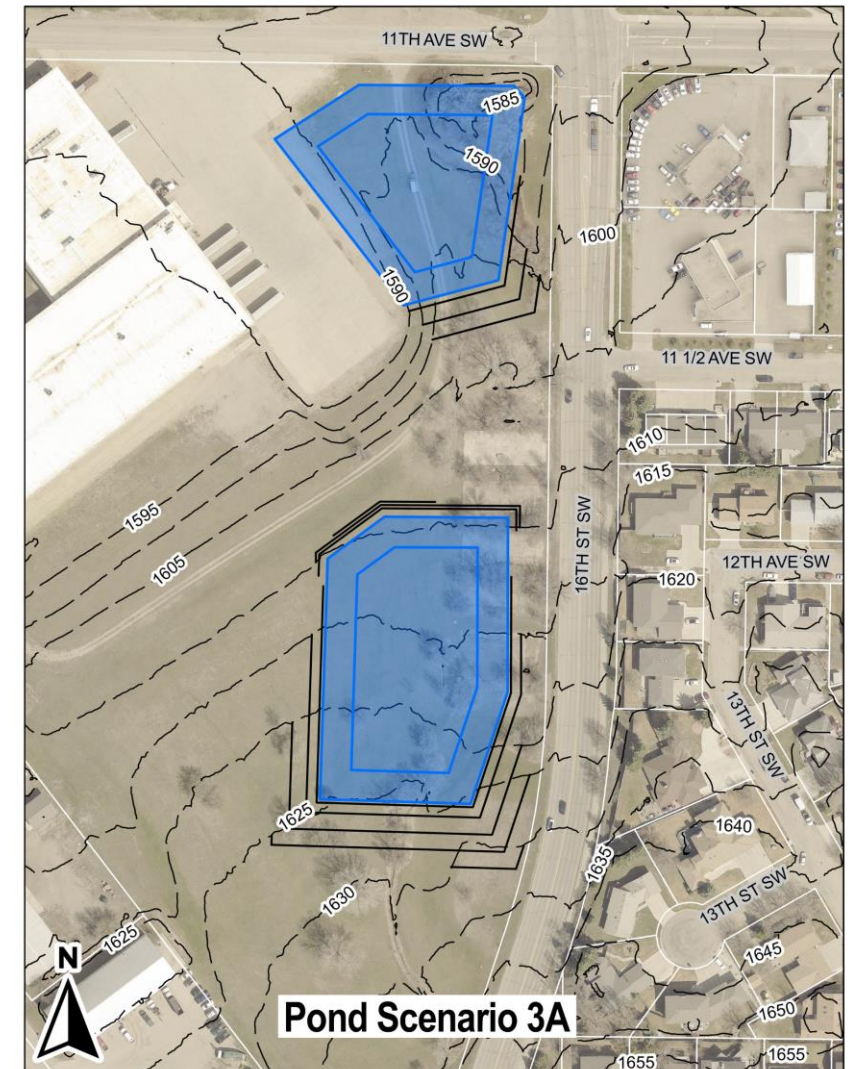




## South Project Alternatives

### ■ Pond Scenario 3A

- Two-tiered pond system meets City requirement of one-foot of freeboard on the 100-year storm event
- Lower duration of flooding at the 16<sup>th</sup> St/Burdick intersection RR underpass than Pond Scenario 1
- Undesirable impacts to landowner



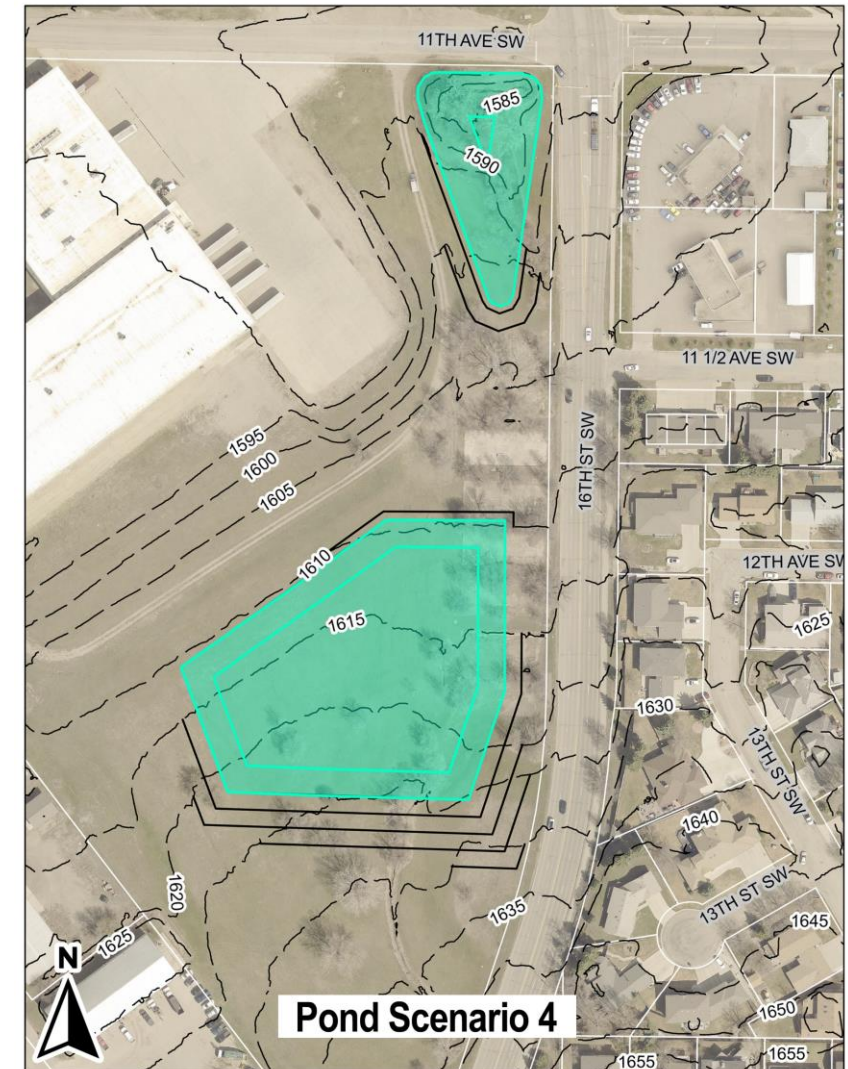


## South Project Alternatives

### ■ Pond Scenario 4

- Two-tiered pond system meets City requirement of one-foot of freeboard on the 100-year storm event
- Lower duration of flooding at the 16<sup>th</sup> St/Burdick intersection RR underpass than Pond Scenario 1
- Preferred pond configuration for landowner

**PREFERRED  
ALTERNATIVE**





## South Project Alternatives







# Estimated Cost and Project Schedule



## Estimated Cost – South Project

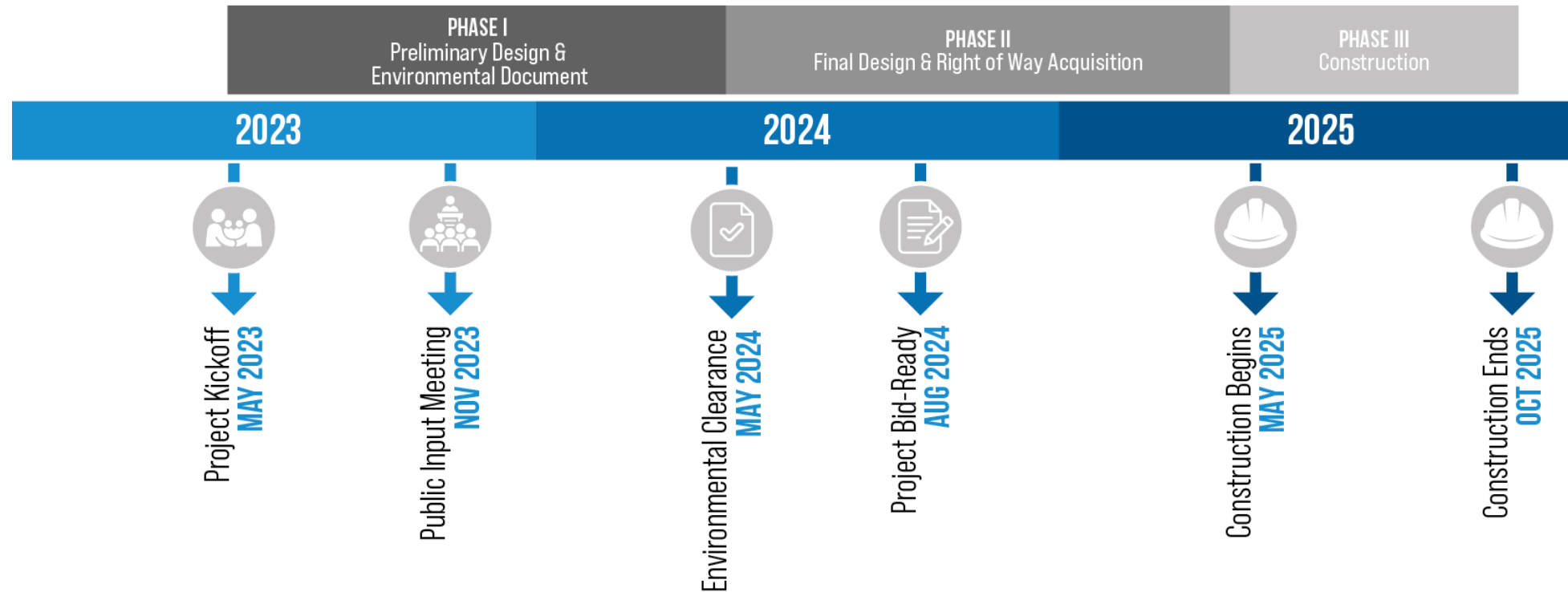
	Preliminary Construction & Engineering Costs	Preliminary Land Acquisition Costs	Preliminary Total Estimated Cost
Alternative B With Pond Scenario 1	\$13,740,200	\$280,000	<b>\$14,020,000</b> <i>Total Federal Funds (Capped): \$8,137,612</i> <i>Total City Funds: \$5,882,588</i>
Alternative B With Pond Scenario 3A	\$14,202,500	\$1,000,000	<b>\$15,202,500</b> <i>Total Federal Funds (Capped): \$8,137,612</i> <i>Total City Funds: \$7,064,888</i>
<div>PREFERRED ALTERNATIVE</div> Alternative B With Pond Scenario 4	\$14,017,400	\$1,000,000	<b>\$15,017,400</b> <i>Total Federal Funds (Capped): \$8,137,612</i> <i>Total City Funds: \$6,879,788</i>

*Note: Costs shown are inflated to 2025 dollars.*

## Schedule – South Project

### **16th Street SW** RECONSTRUCTION PROJECT

#### South Project Timeline



*Note: 2024-2025 dates are tentative and subject to change.*





Questions and Comments