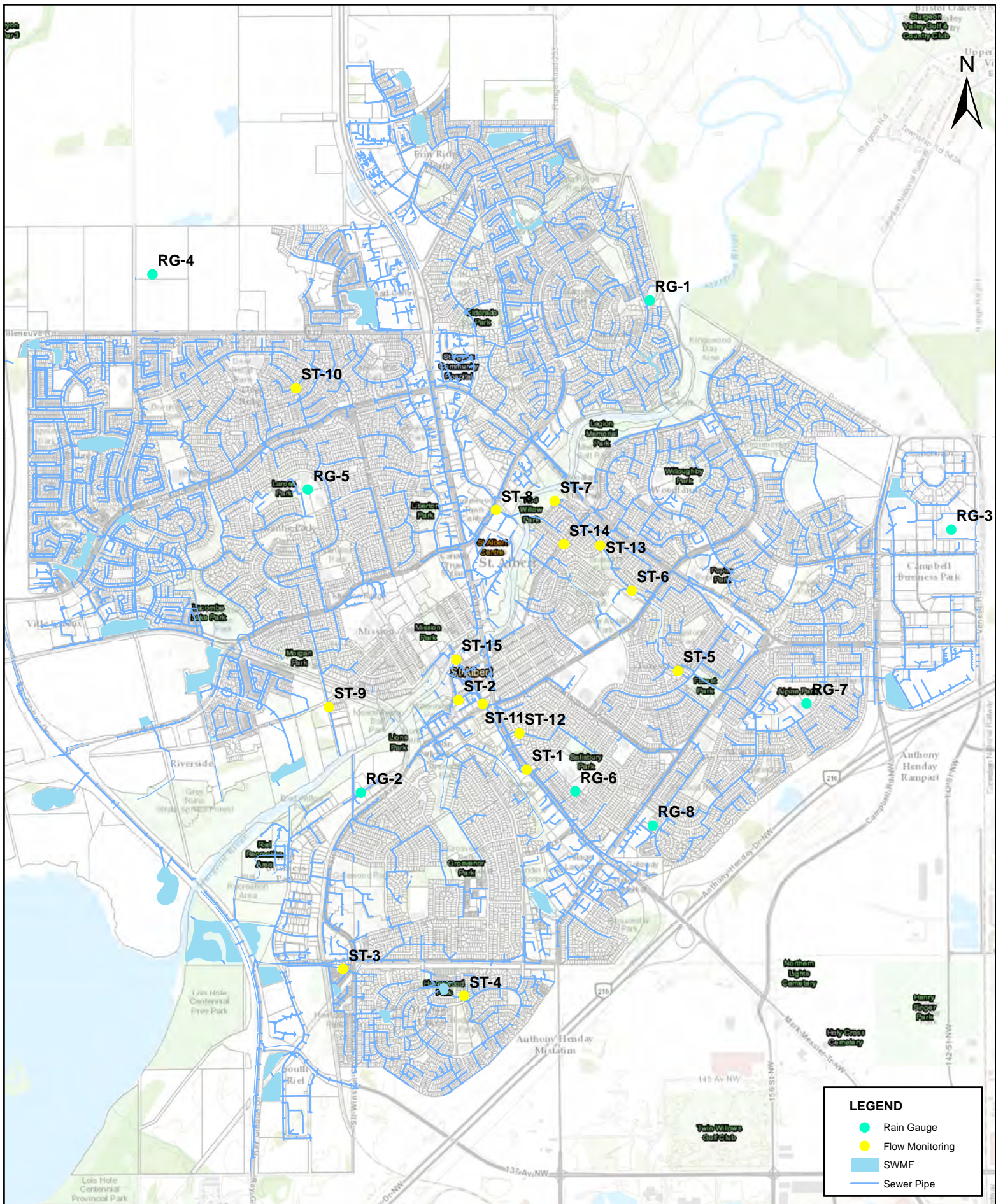


# APPENDIX

**B**

STORMWATER  
SYSTEM FIGURES



LEGEND

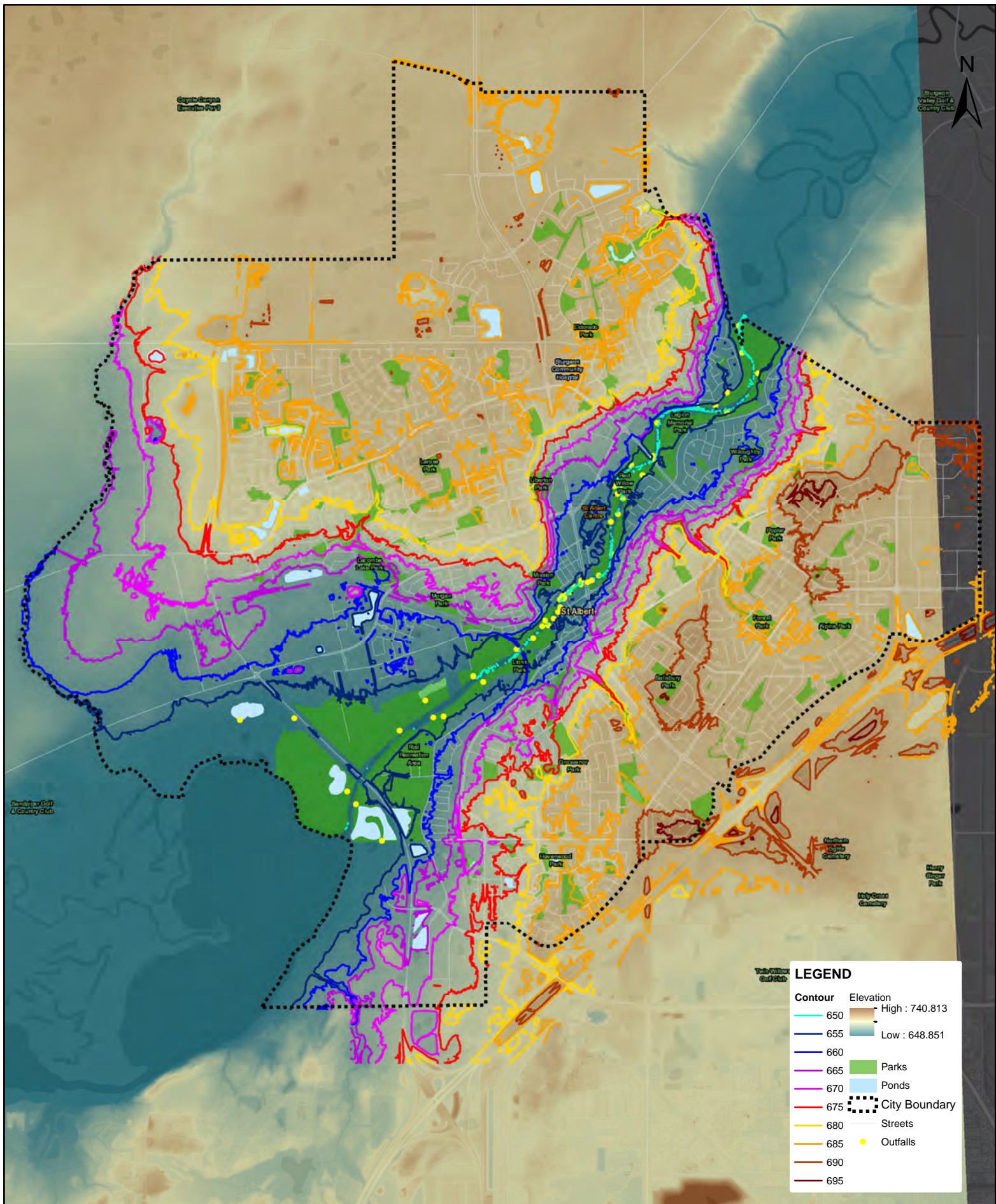
● Rain Gauge

● Flow Monitoring

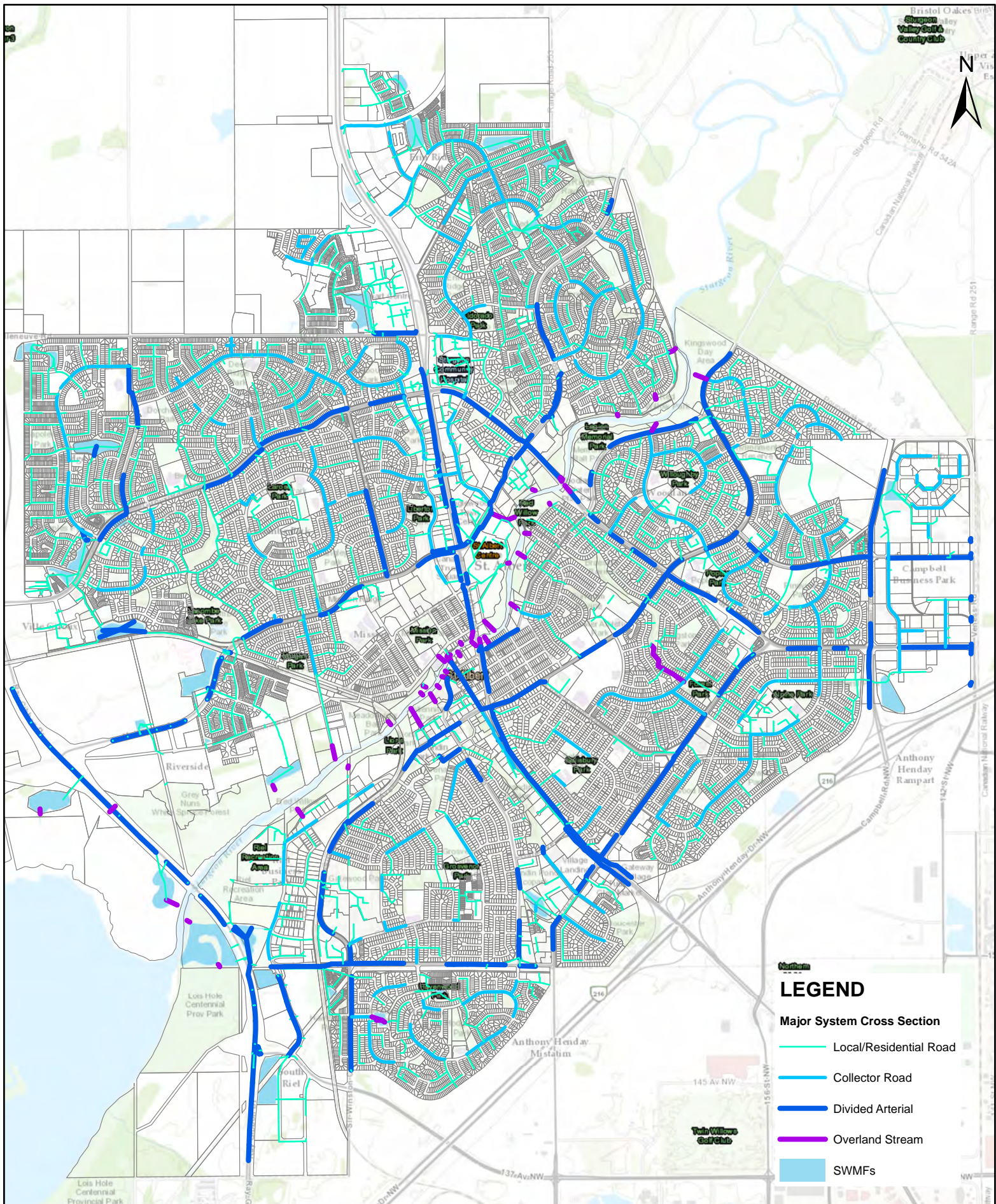
— SWMF

— Sewer Pipe









## LEGEND

### Major System Cross Section

- Local/Residential Road
- Collector Road
- Divided Arterial
- - - Overland Stream
- SWMFs

Client/Project:



2020 Utility Master Plan

City of St Albert

Existing Conditions Major System

Project No: 20M-01312-00

Drawn By: Approved By:

MG

JM

Scale

0 0.25 0.5 1  
Kilometers

Figure B-3

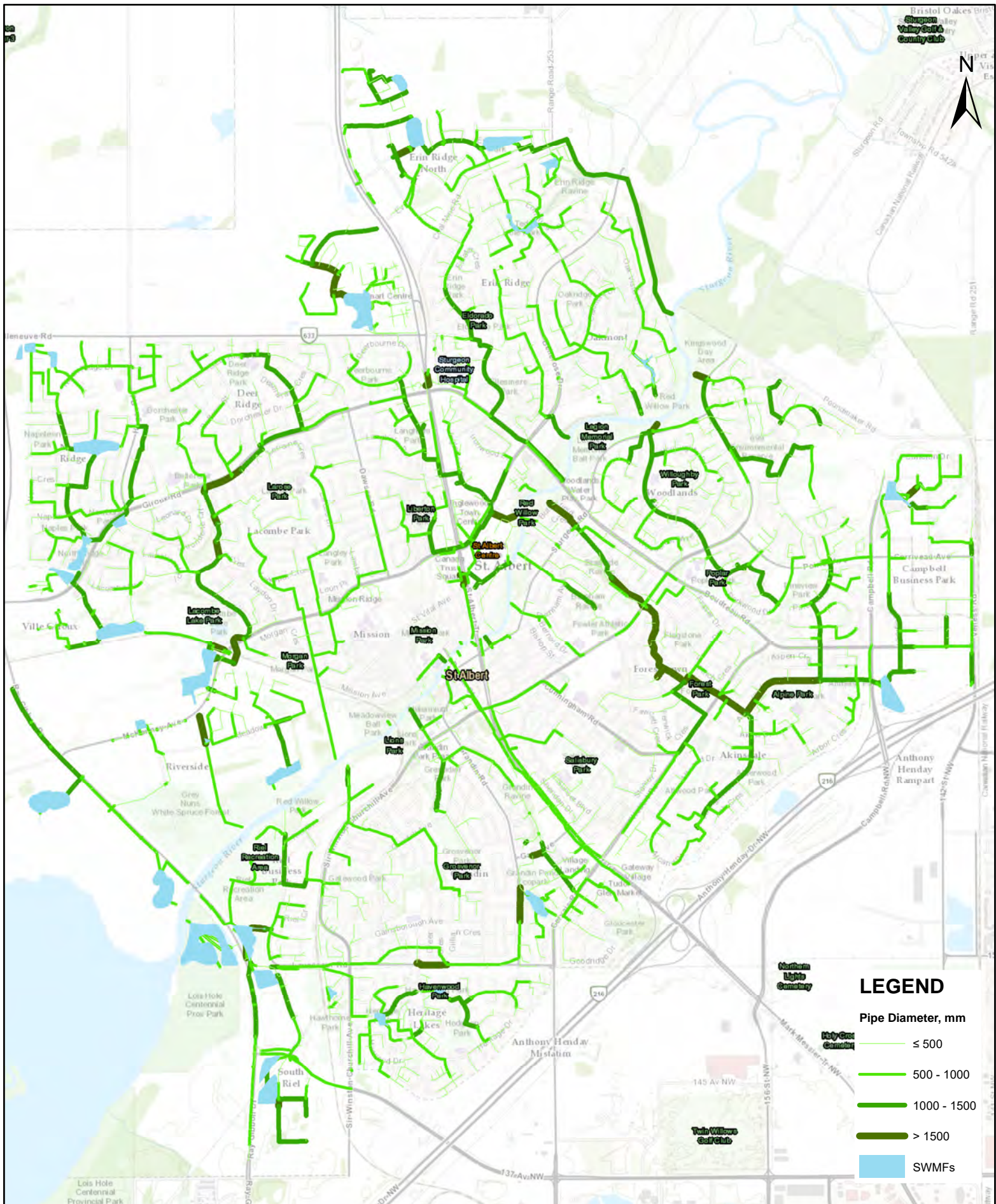
PCS: NAD 83 UTM Z12

Revision Date: 11/26/2021

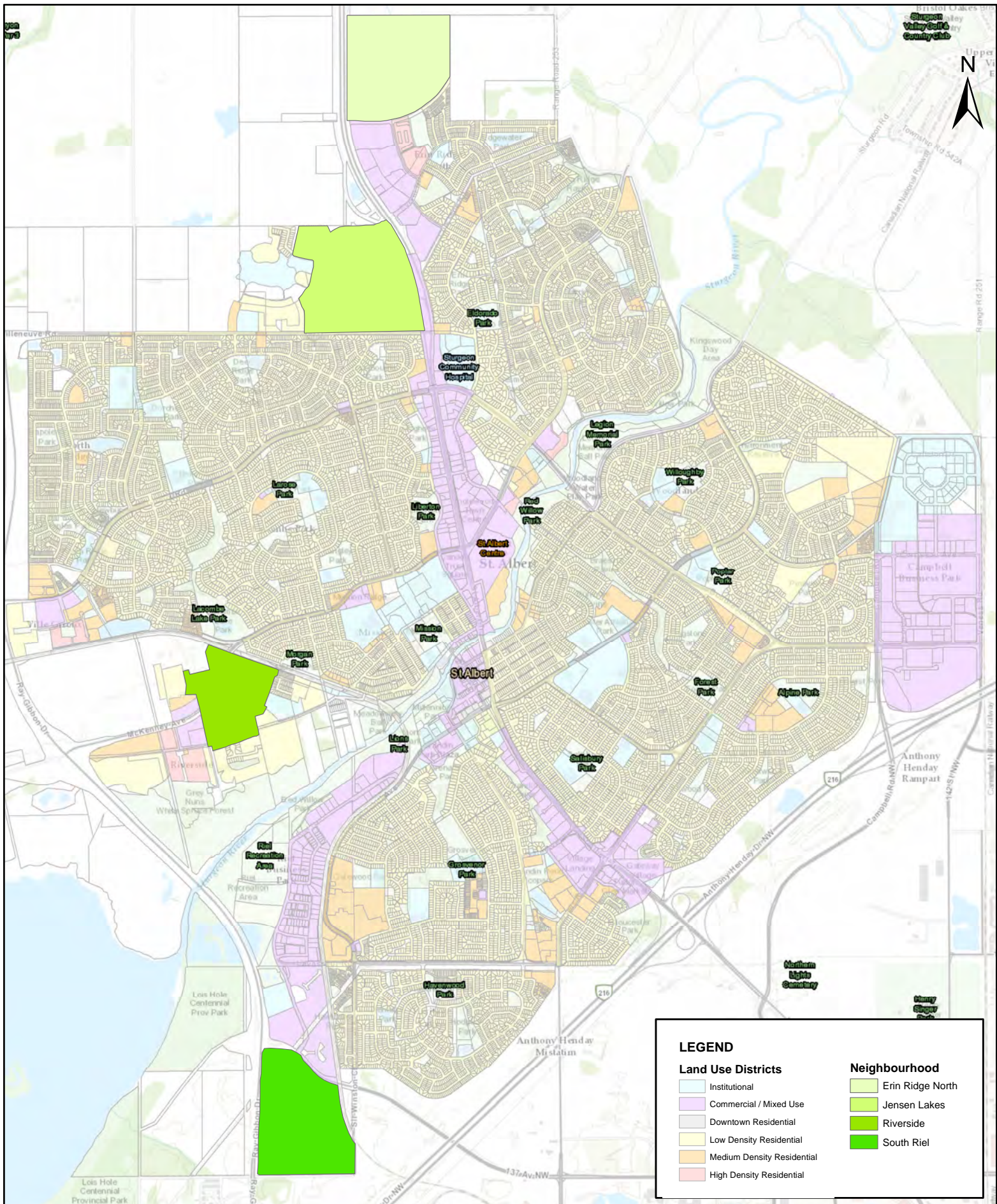


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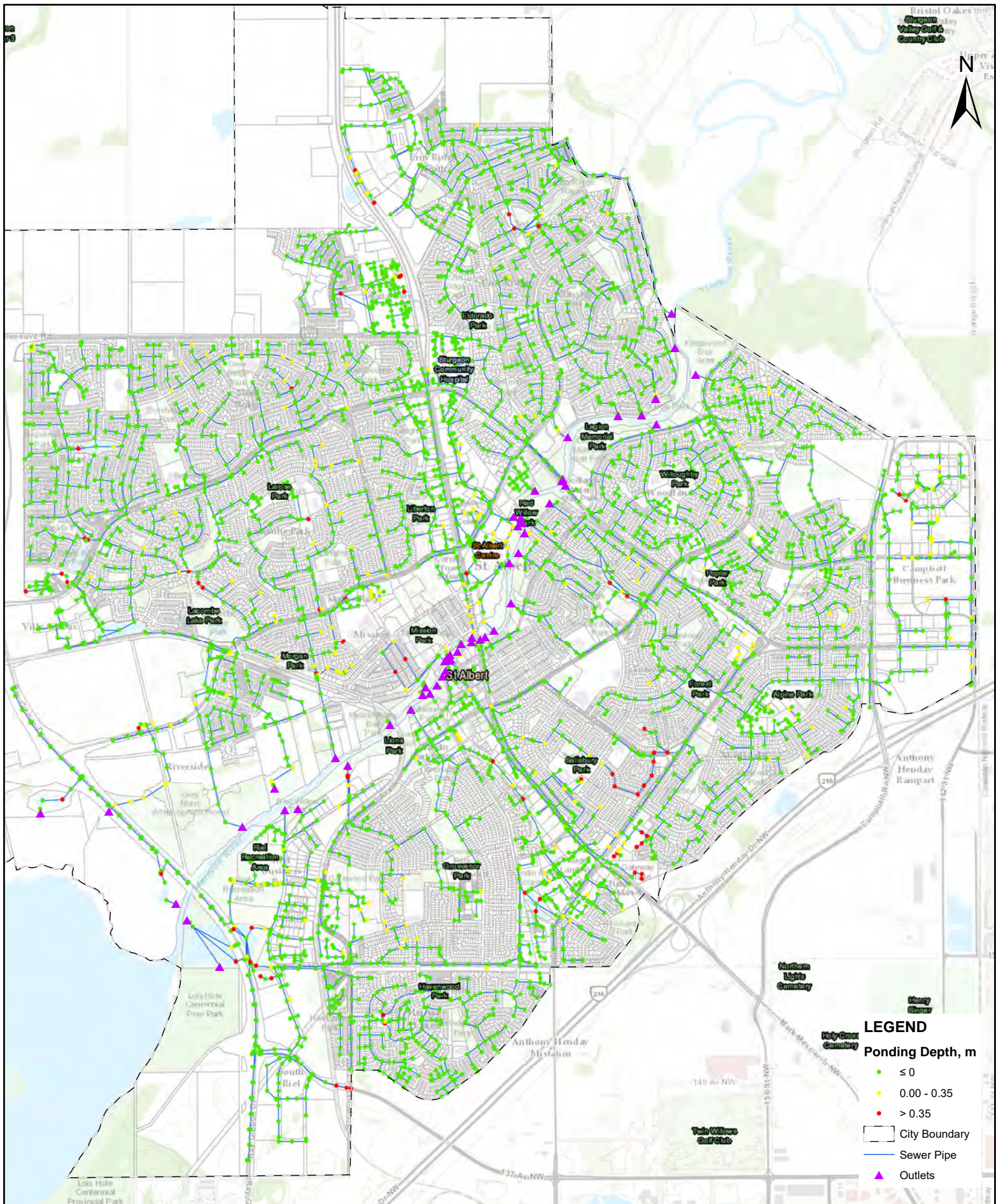






## Stormwater System Update Locations for the Existing Conditions





# LEGEND

## Ponding Depth, m

- ≤ 0
- 0.00 - 0.35
- > 0.35

- City Boundary
- Sewer Pipe
- ▲ Outlets

Client/Project:



2020 Utility Master Plan

## Stormwater Modelling Results Existing Conditions Minor System Flooding 1:5-Year 4-Hour Chicago Storm

Project No: 20M-01312-00

Drawn By: Approved By:

MG

JM

## Figure B-6

Scale

0 0.25 0.5 1  
Kilometers

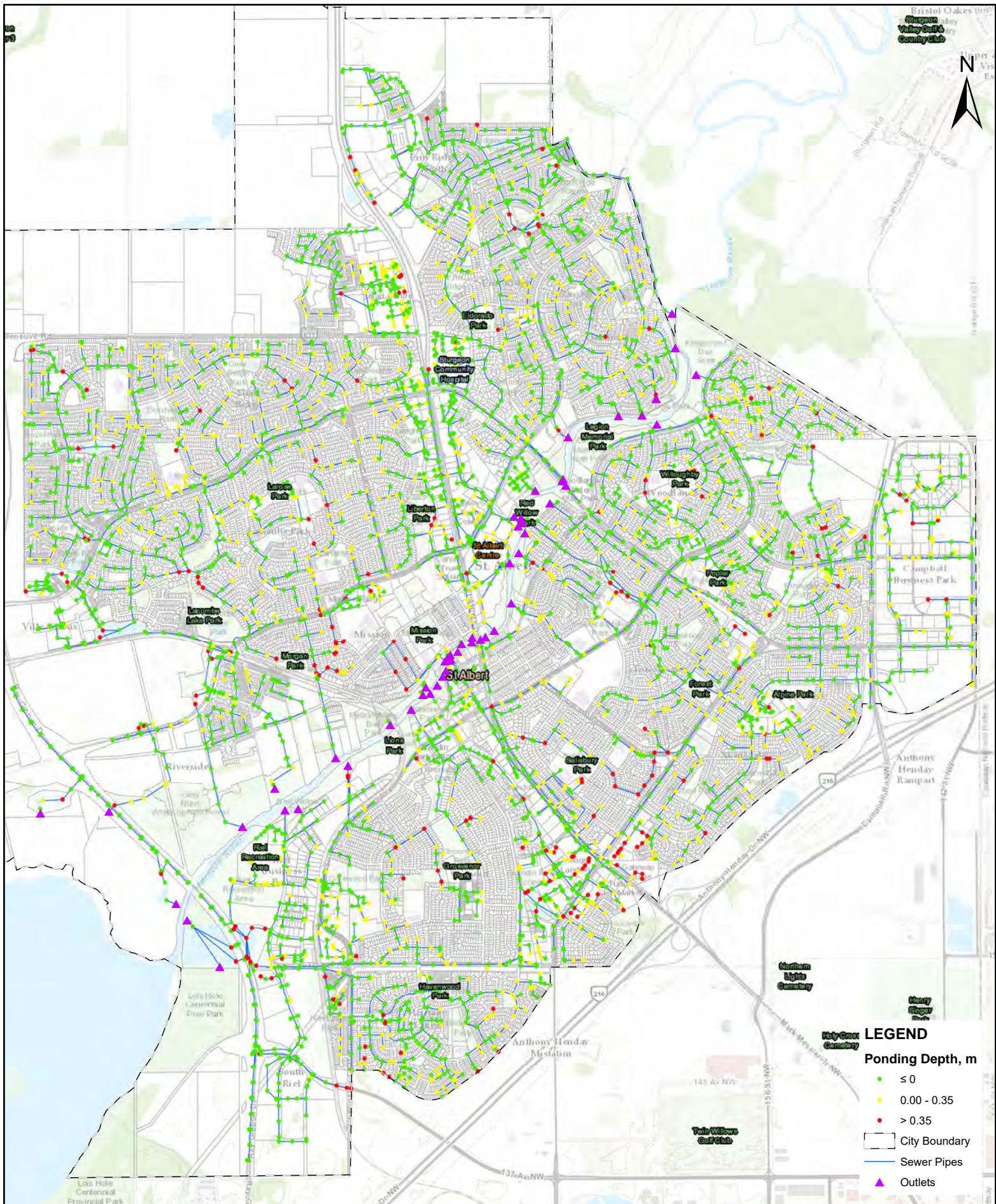
PCS: NAD 83 UTM Z12

Revision Date: 11/26/2021



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# LEGEND

## Ponding Depth, m

- ≤ 0
- 0.00 - 0.35
- > 0.35

- City Boundary
- Sewer Pipes
- ▲ Outlets



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Client/Project:



2020 Utility Master Plan

## Stormwater Modelling Results Existing Conditions Minor System Flooding 1:100-Year 4-Hour Chicago Storm

Project No: 20M-01312-00

Drawn By: Approved By:

MG

JM

## Figure B-7

Scale

0 0.25 0.5 1  
Kilometers

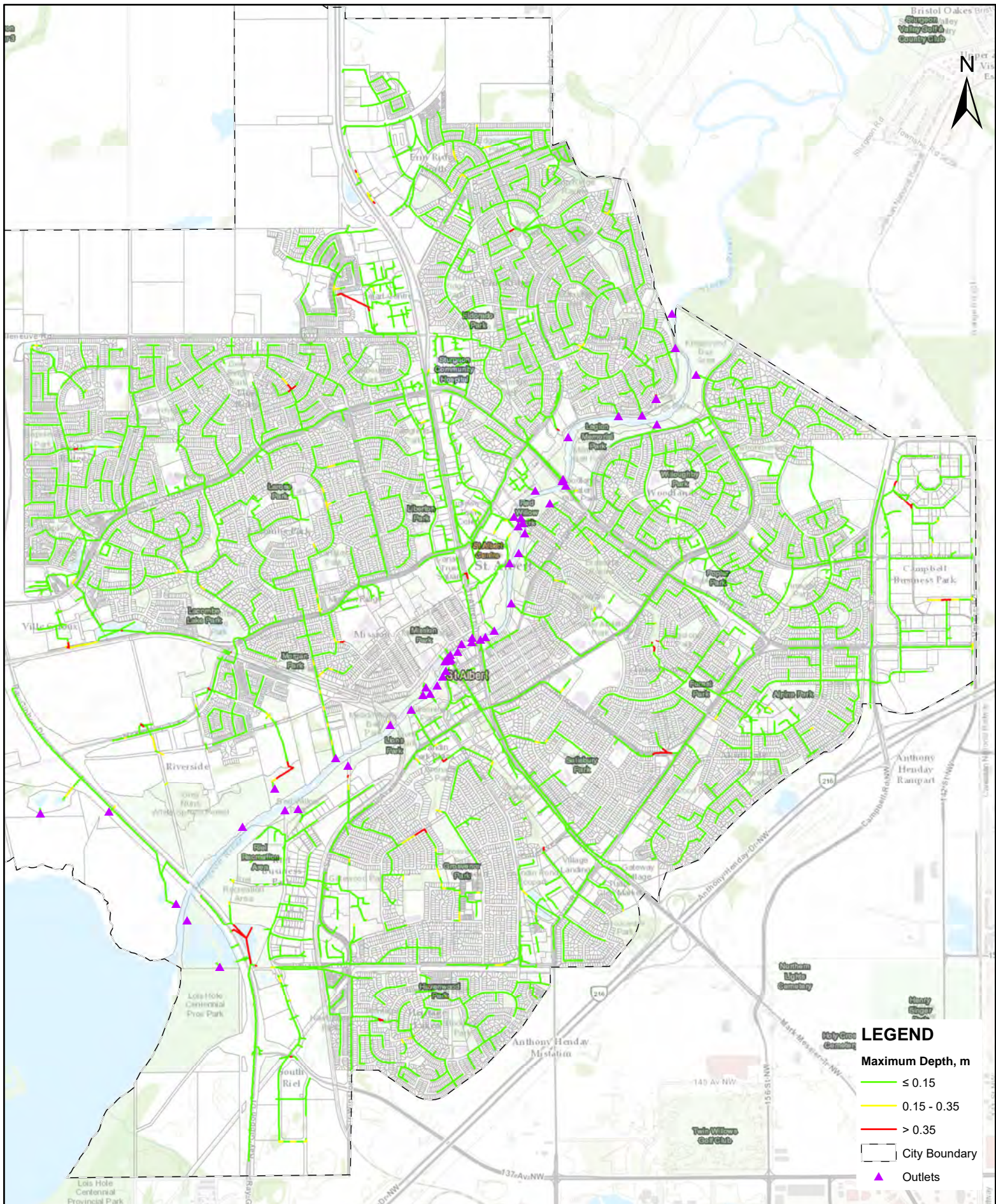
PCS:

NAD 83 UTM Z12

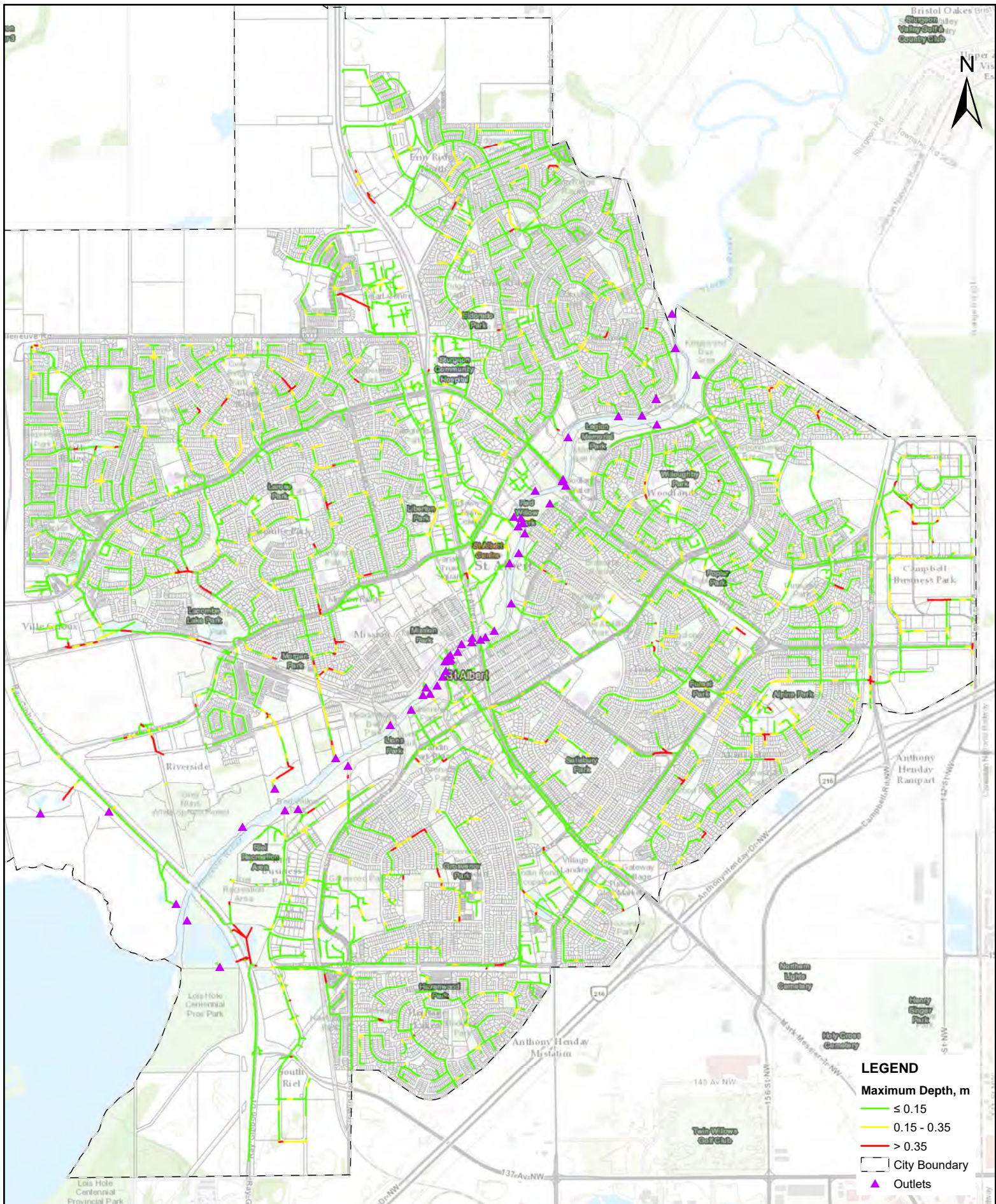
Revision

Date: 11/26/2021







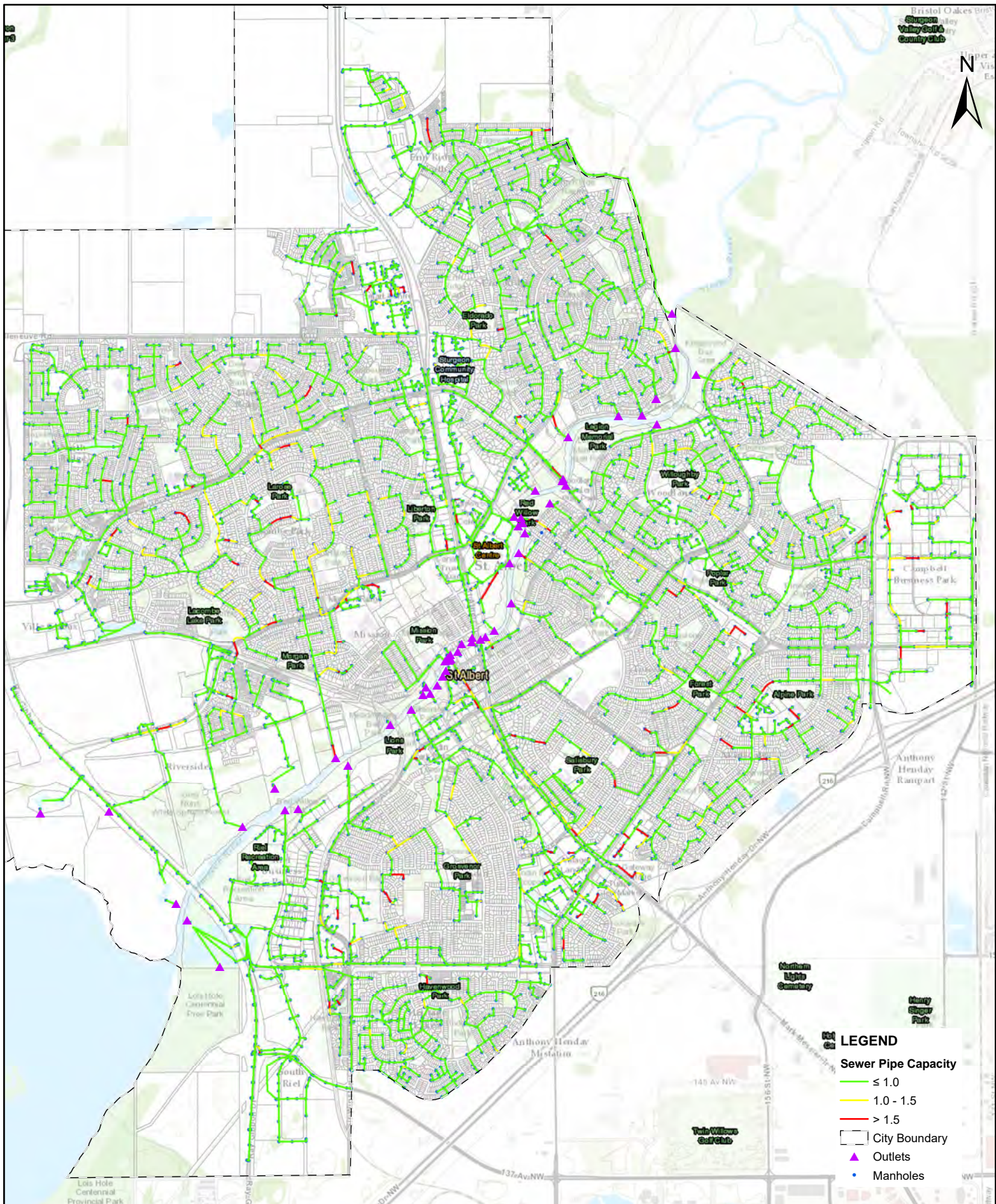


**LEGEND**

**Maximum Depth, m**

- ≤ 0.15
- 0.15 - 0.35
- > 0.35
- City Boundary
- ▲ Outlets





**LEGEND**

**Sewer Pipe Capacity**

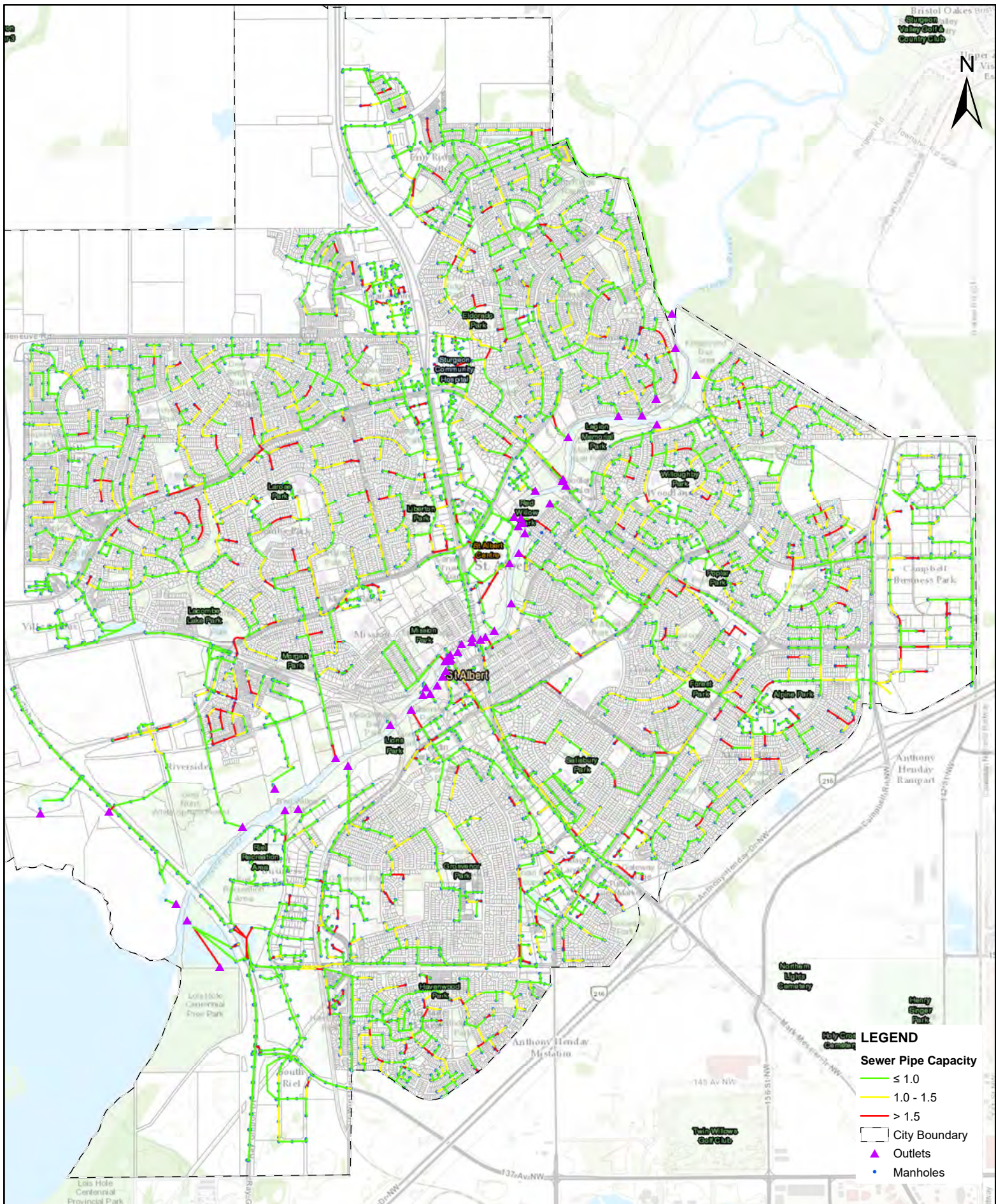
- ≤ 1.0
- 1.0 - 1.5
- > 1.5

City Boundary

Outlets

Manholes





**LEGEND**

**Sewer Pipe Capacity**

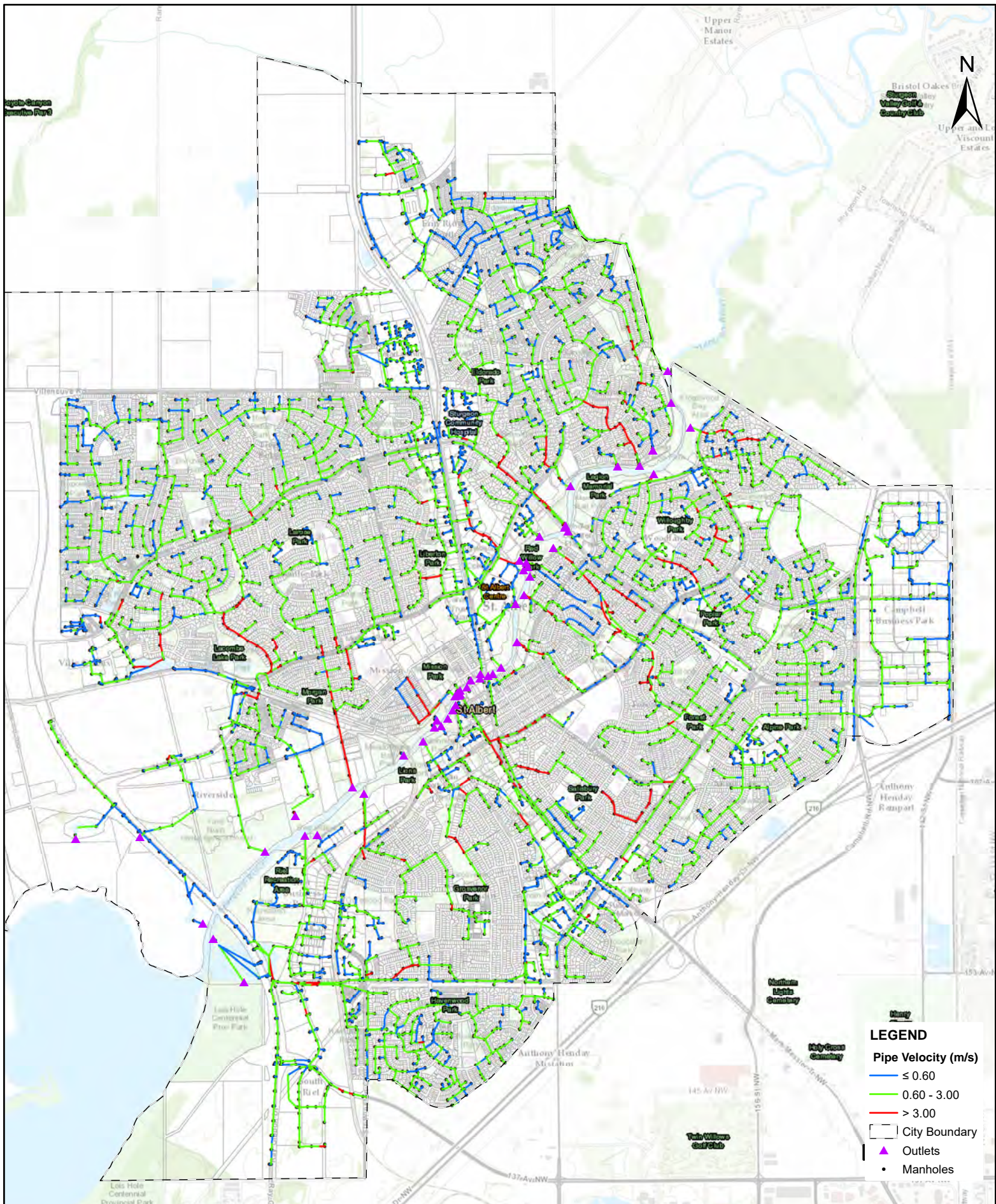
- ≤ 1.0
- 1.0 - 1.5
- > 1.5

City Boundary

Outlets

Manholes





**LEGEND**

**Pipe Velocity (m/s)**

- ≤ 0.60
- 0.60 - 3.00
- > 3.00

City Boundary

Outlets

Manholes

Scale  
0 0.25 0.5 1  
Kilometers

PCS: NAD 83 UTM Z12  
Revision Date: 11/26/2021

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Client/Project

2020 Utility Master Plan

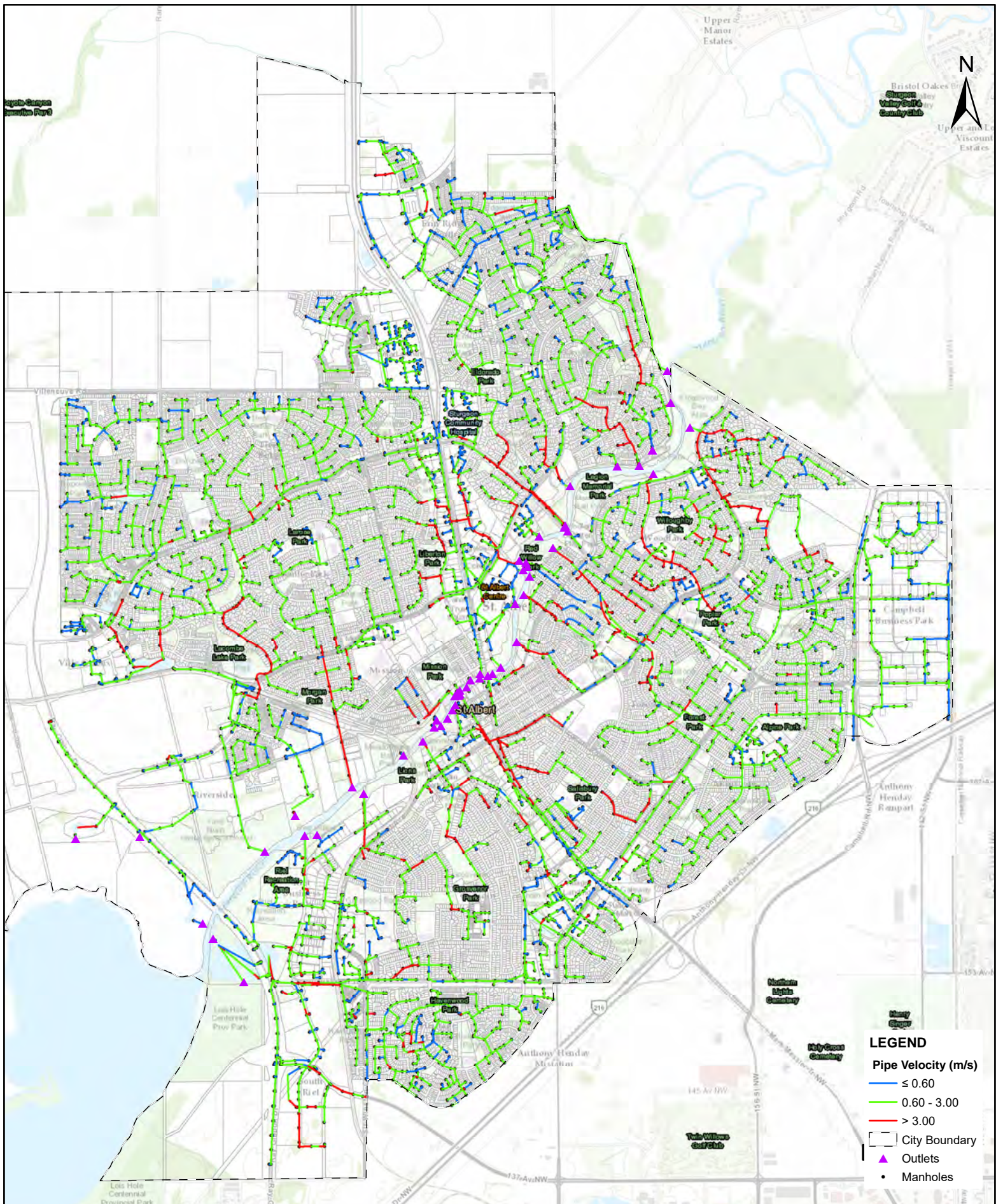
**Stormwater Modelling Results**  
**Existing Conditions Maximum Pipe Velocity**  
**1:5-Year 4-Hour Chicago Storm**

Project No: 20M-01312-00  
 Drawn By: Approved By:

MG	JM
----	----

**Figure B-12**





**LEGEND**

**Pipe Velocity (m/s)**

- ≤ 0.60
- 0.60 - 3.00
- > 3.00

--- City Boundary

▲ Outlets

• Manholes



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Client/Project:



2020 Utility Master Plan

# Stormwater Modelling Results Existing Conditions Maximum Pipe Velocity 1:100-Year 4-Hour Chicago Storm

Project No: 20M-01312-00

Drawn By: Approved By:

MG

JM

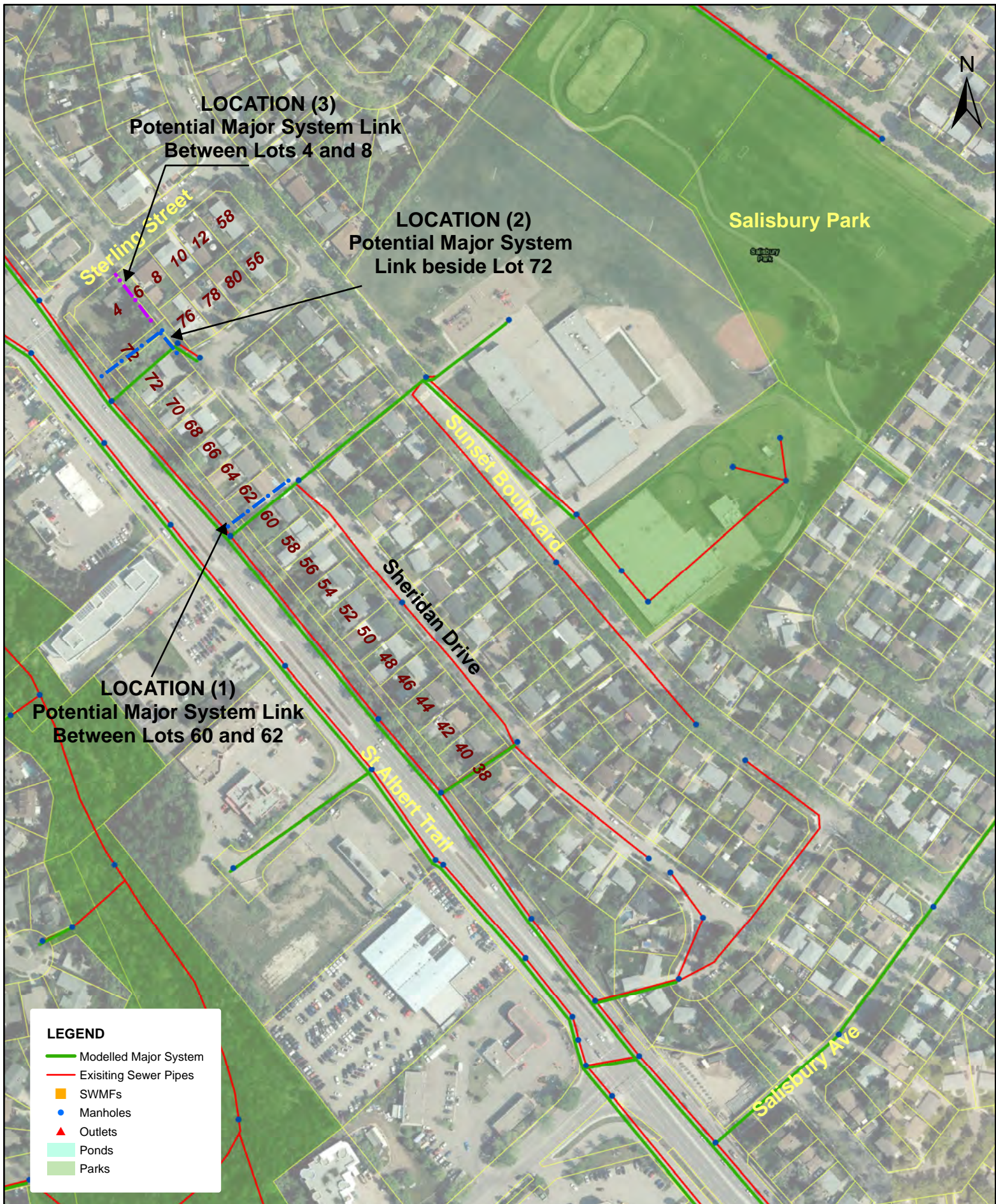
**Figure B-13**

Scale  
0 0.25 0.5 1  
Kilometers

PCS: NAD 83 UTM Z12

Revision Date: 11/26/2021





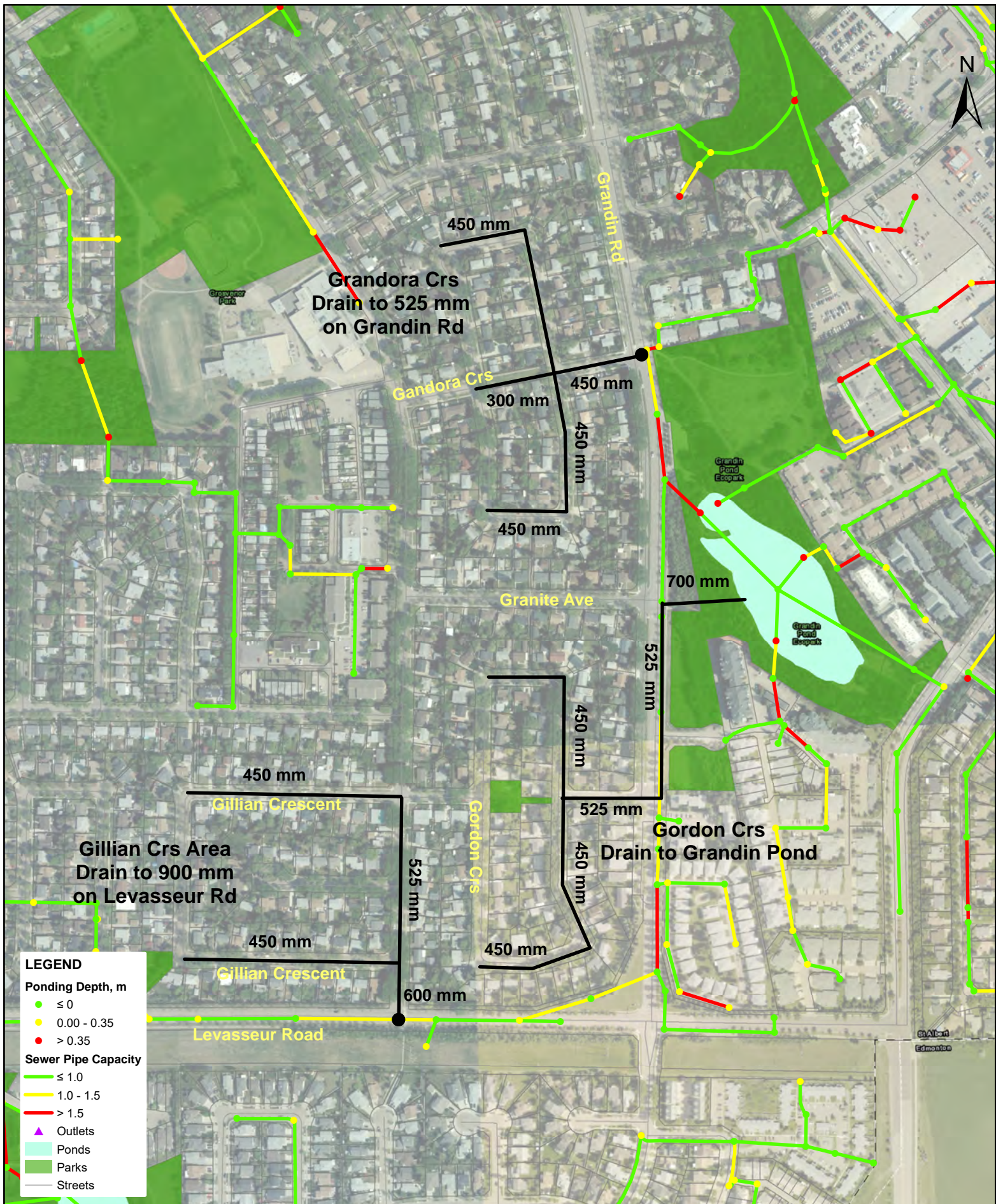








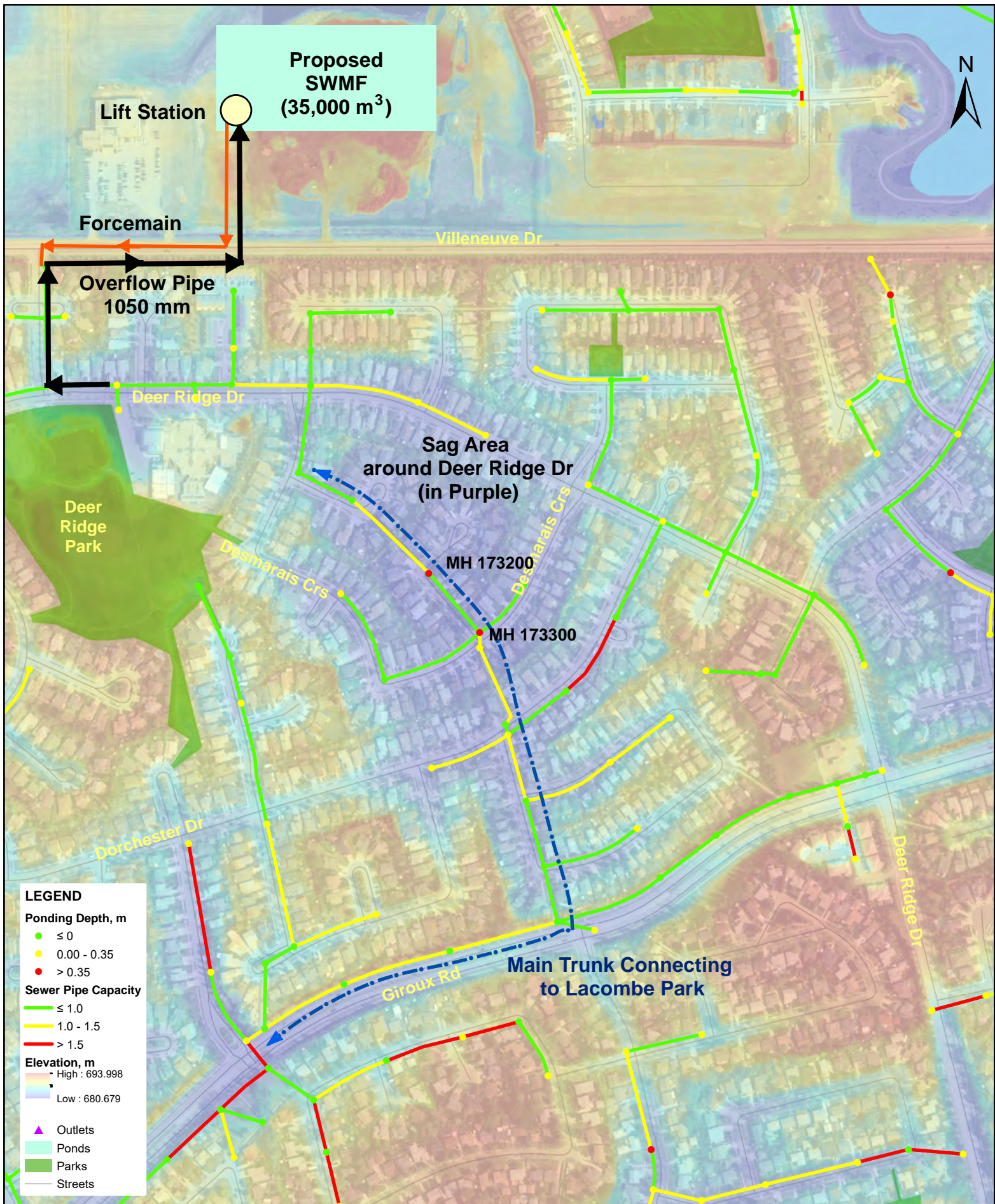




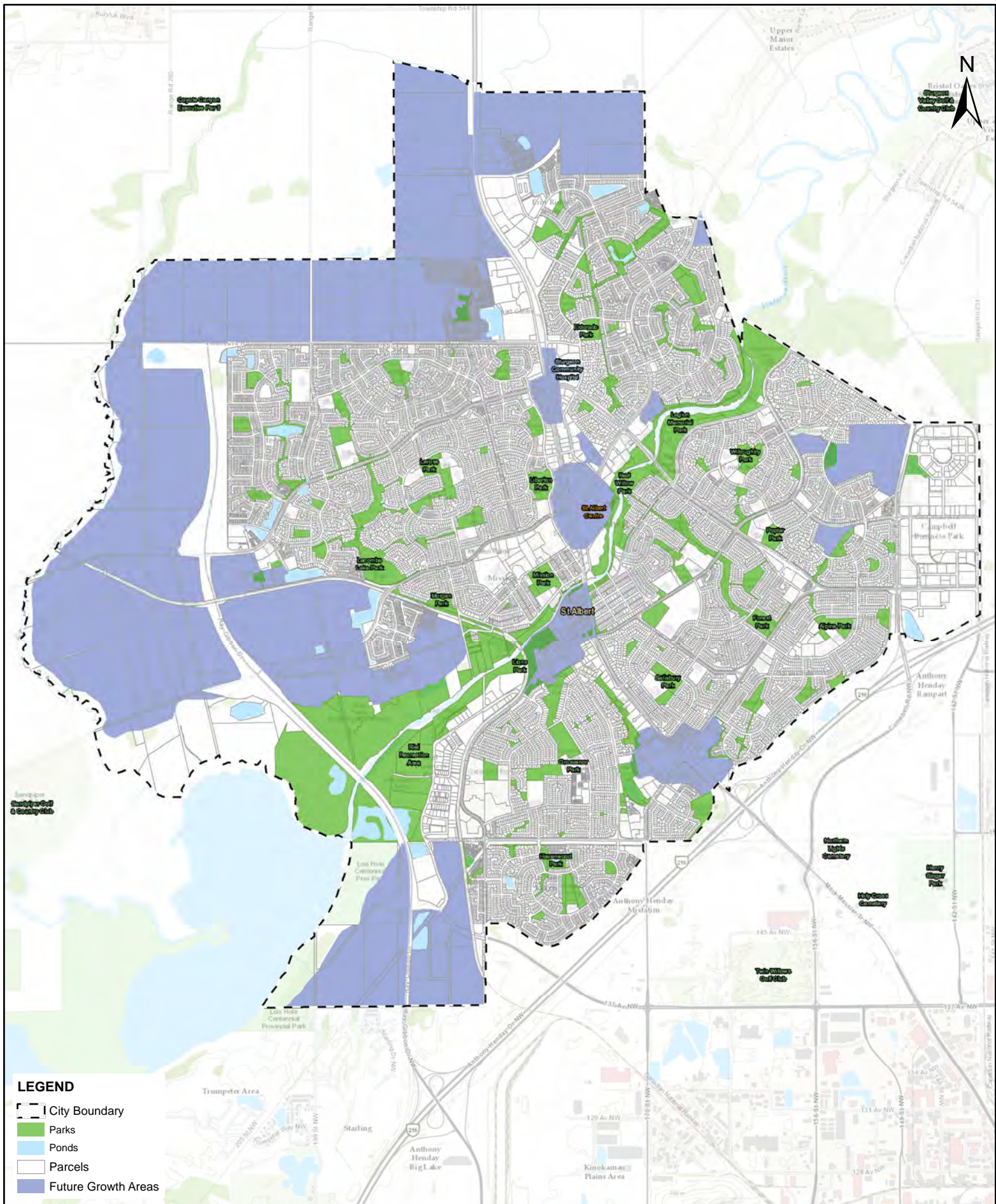






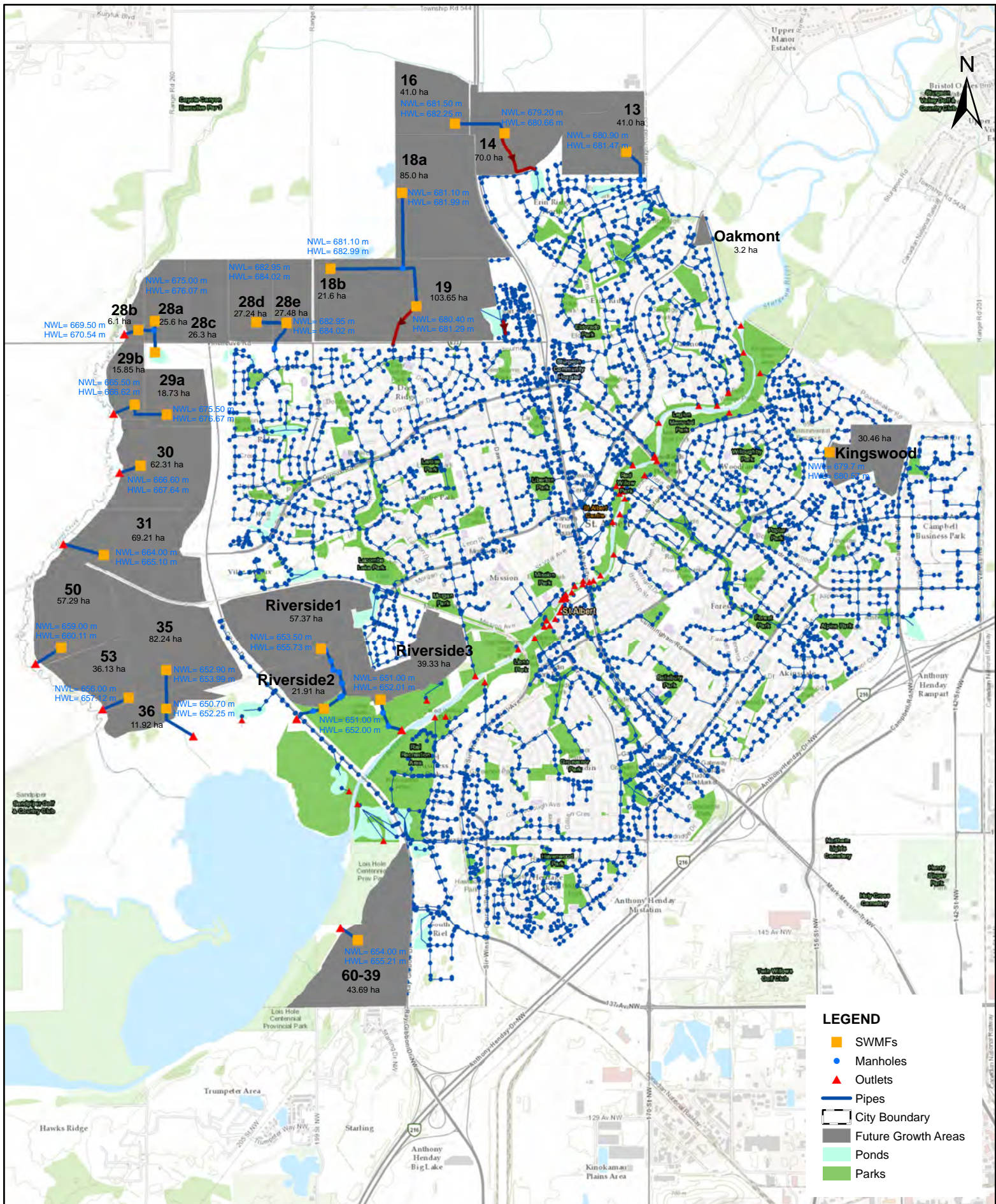




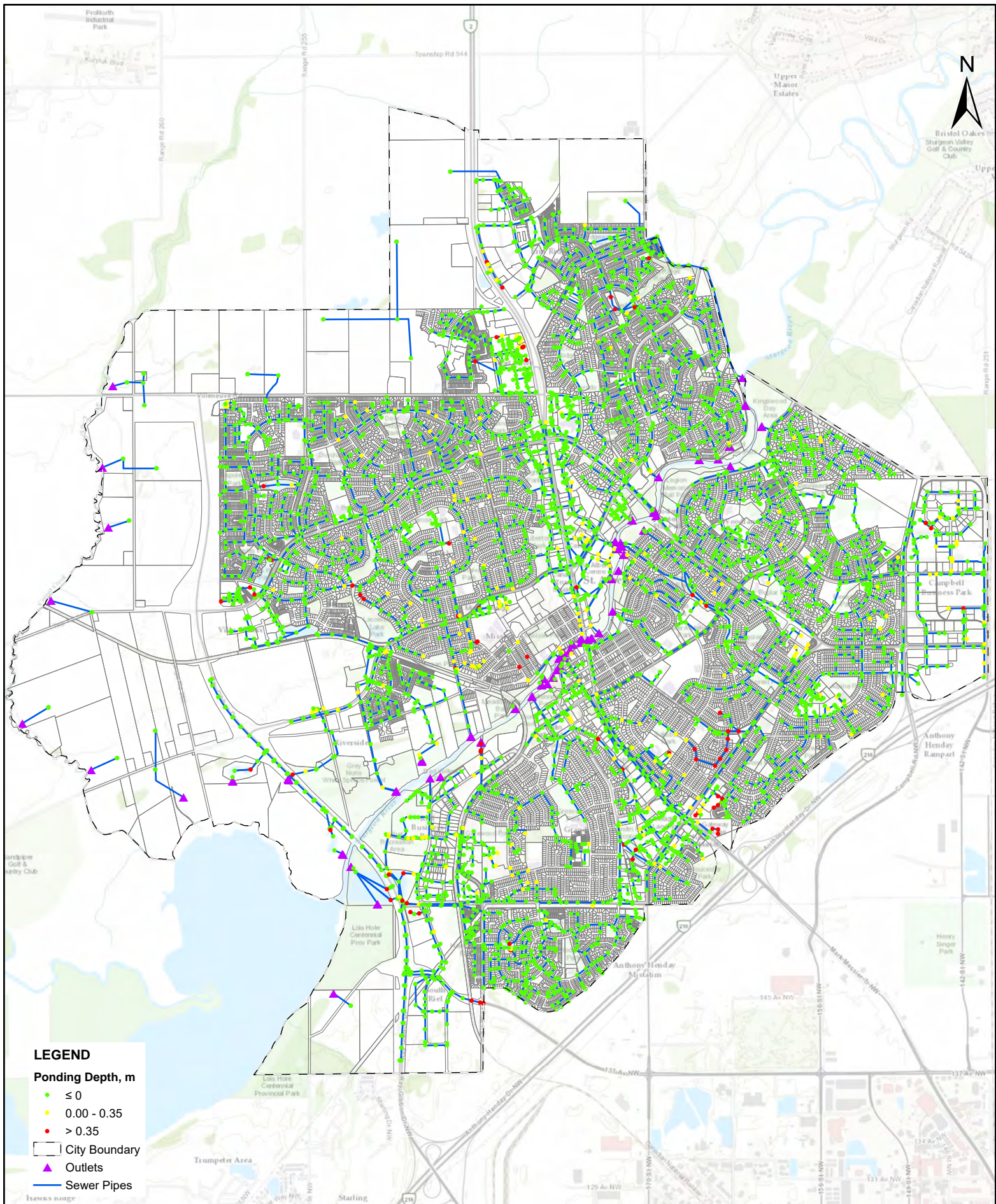


### Future Growth Areas for the City of St. Albert

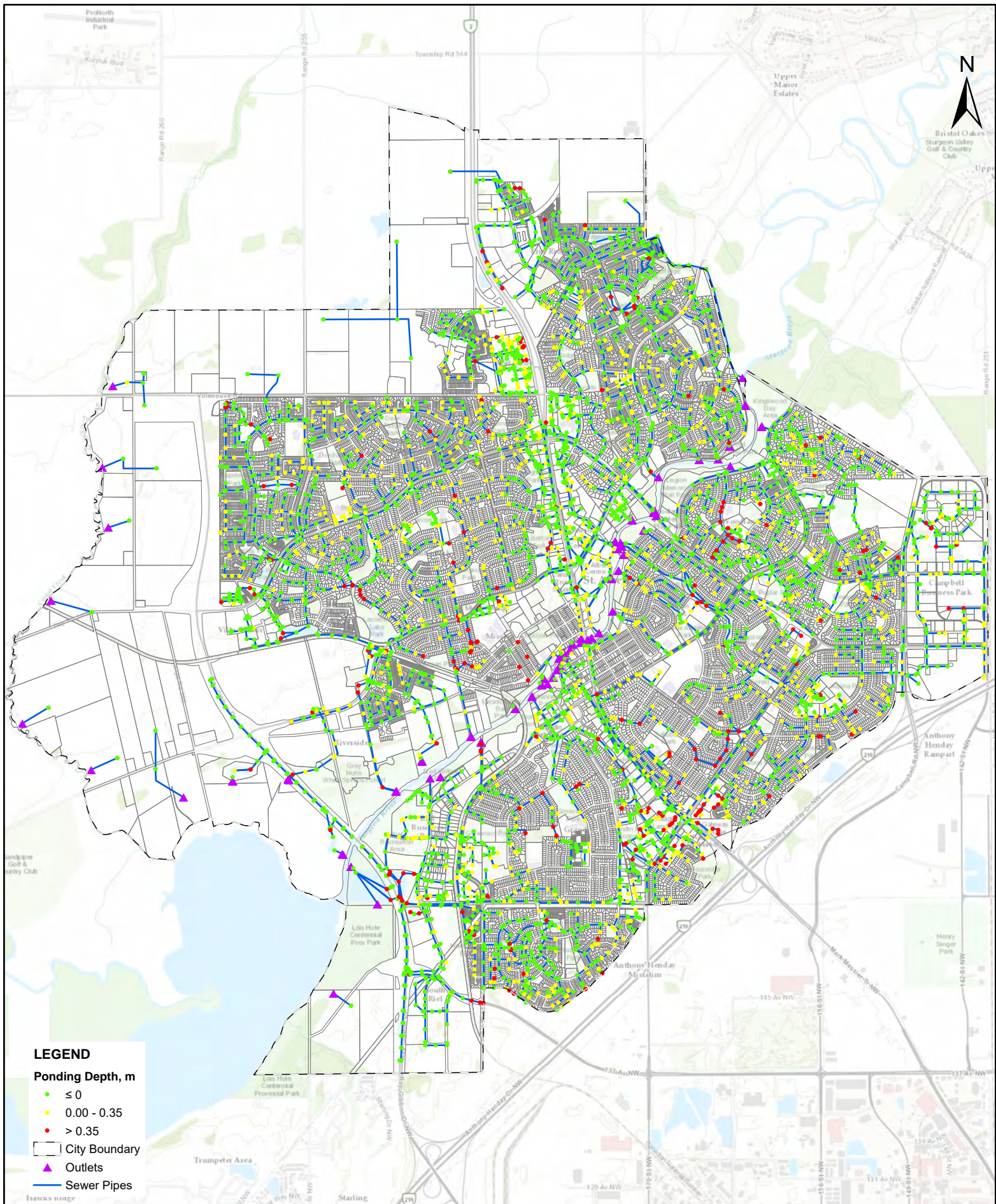




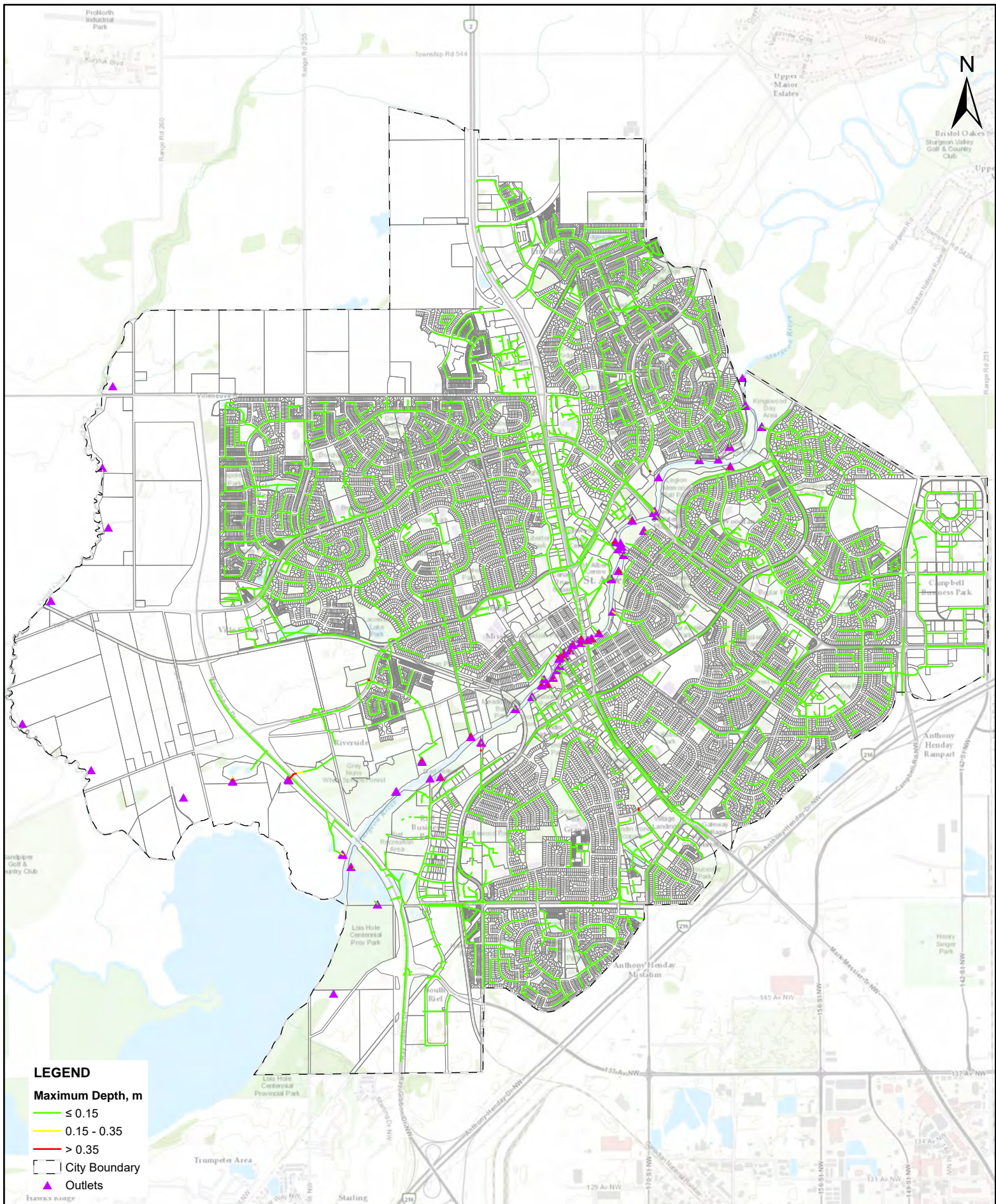




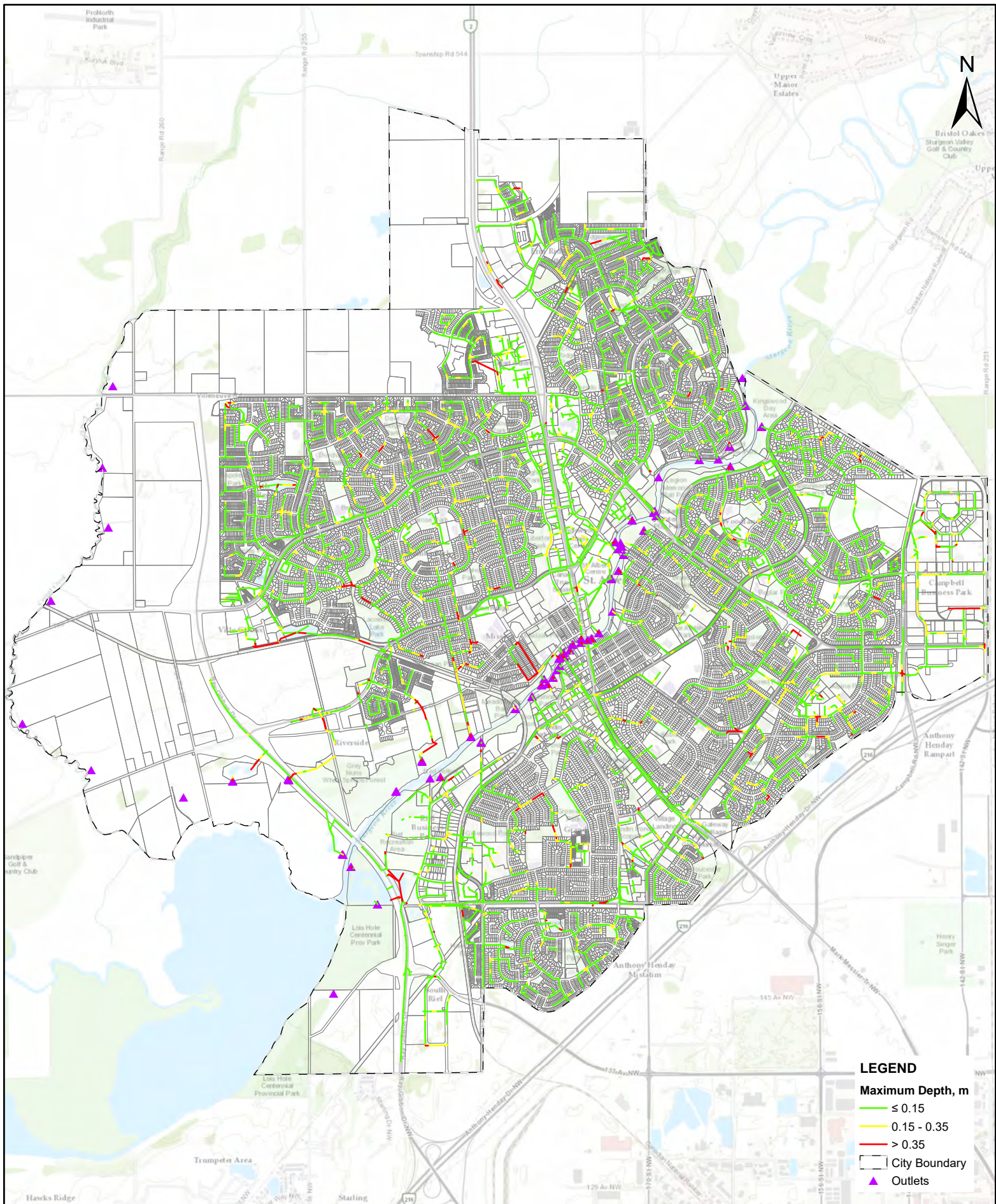




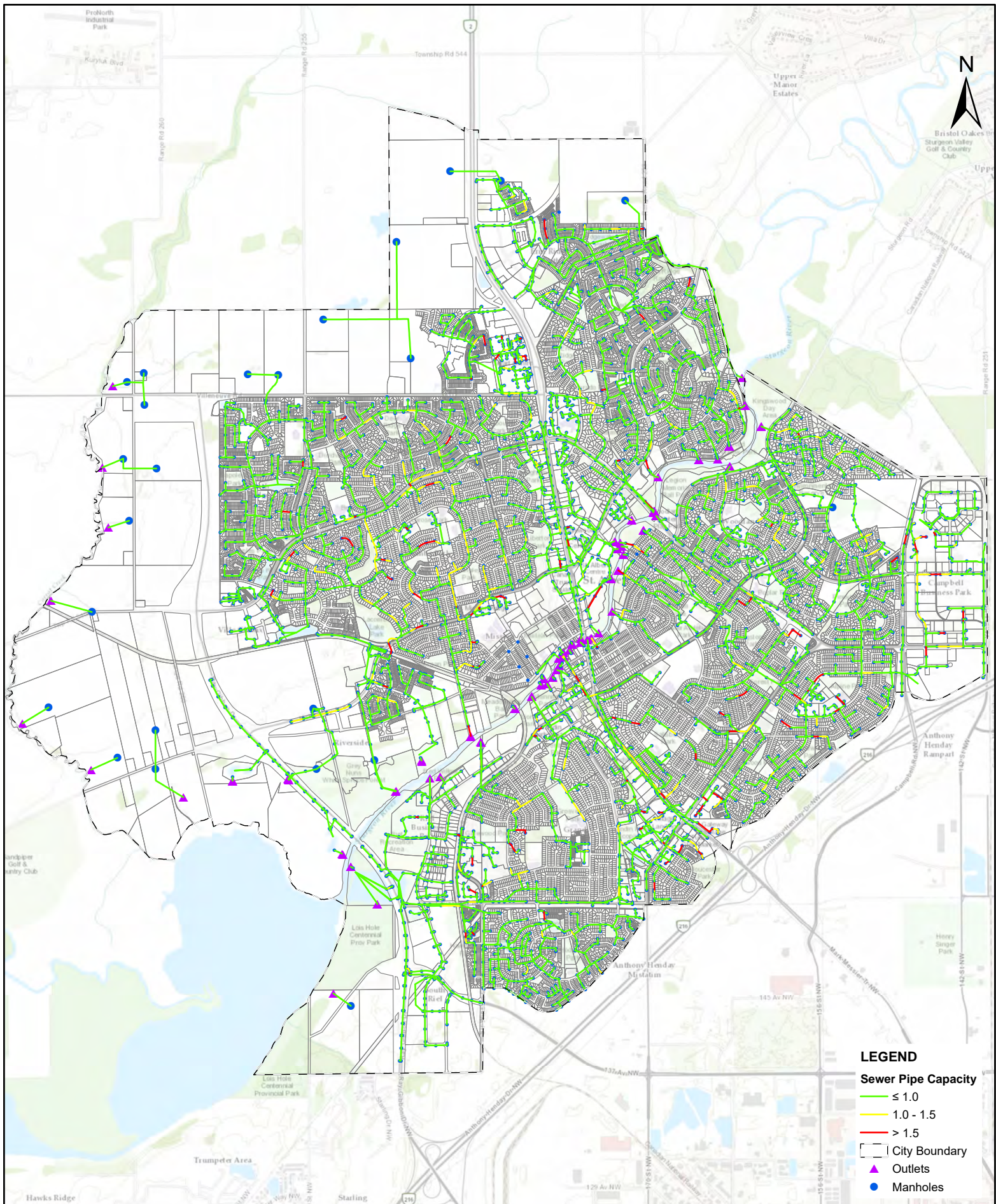












#### LEGEND

##### Sewer Pipe Capacity

≤ 1.0

1.0 - 1.5

> 1.5

City Boundary

Outlets

Manholes

Scale

0 0.25 0.5 1  
Kilometers

PCS: NAD 83 UTM Z12

Revision Date: 11/26/2021

Client/Project:

*St. Albert*  
City of St. Albert  
2020 Utility Master Plan

### Stormwater Modelling Results Ultimate Conditions Minor System Capacity 1:5-Year 4-Hour Chicago Storm

Project No: 20M-01312-00

Drawn By: Approved By:

MG

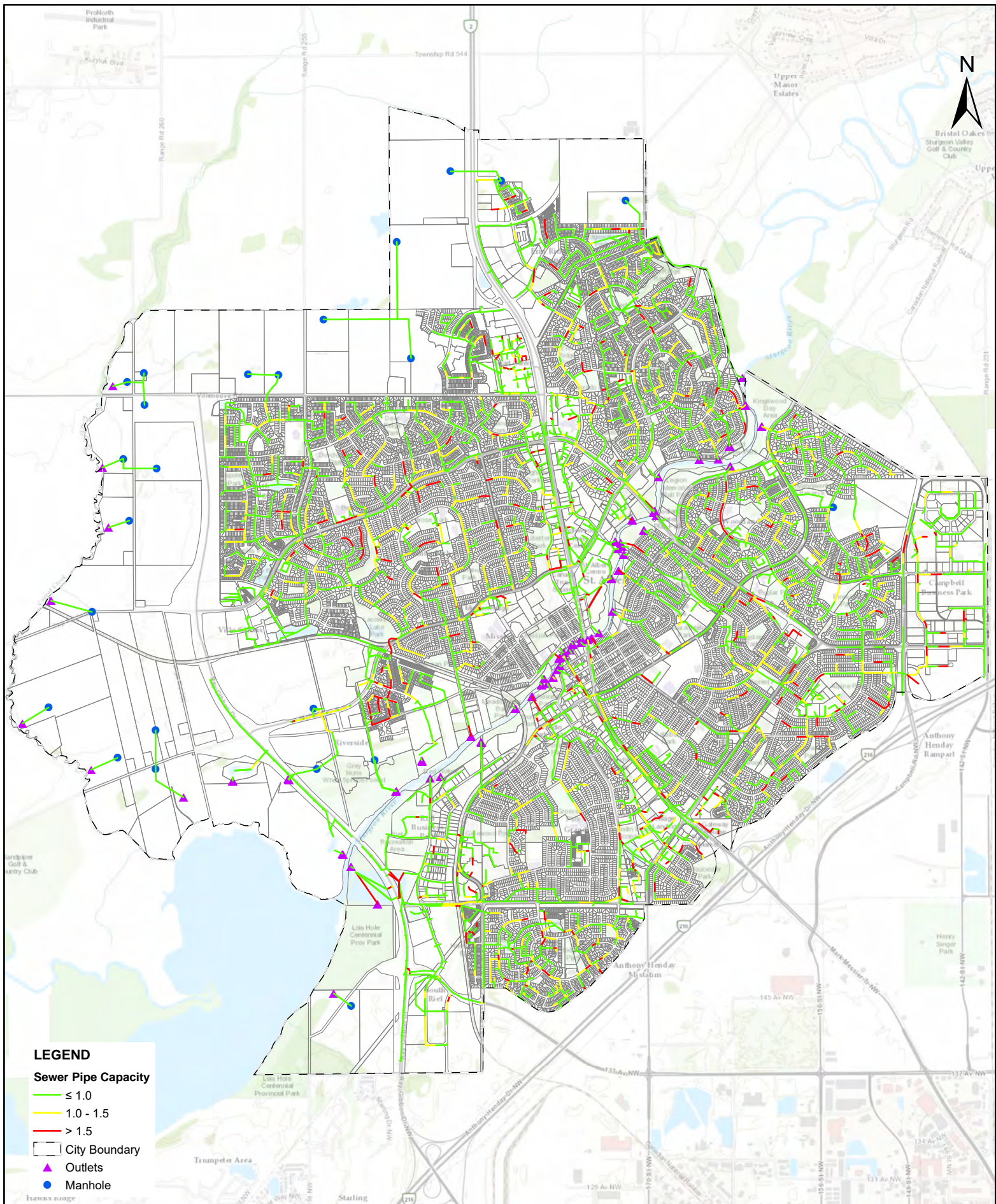
JM

#### Figure B-26

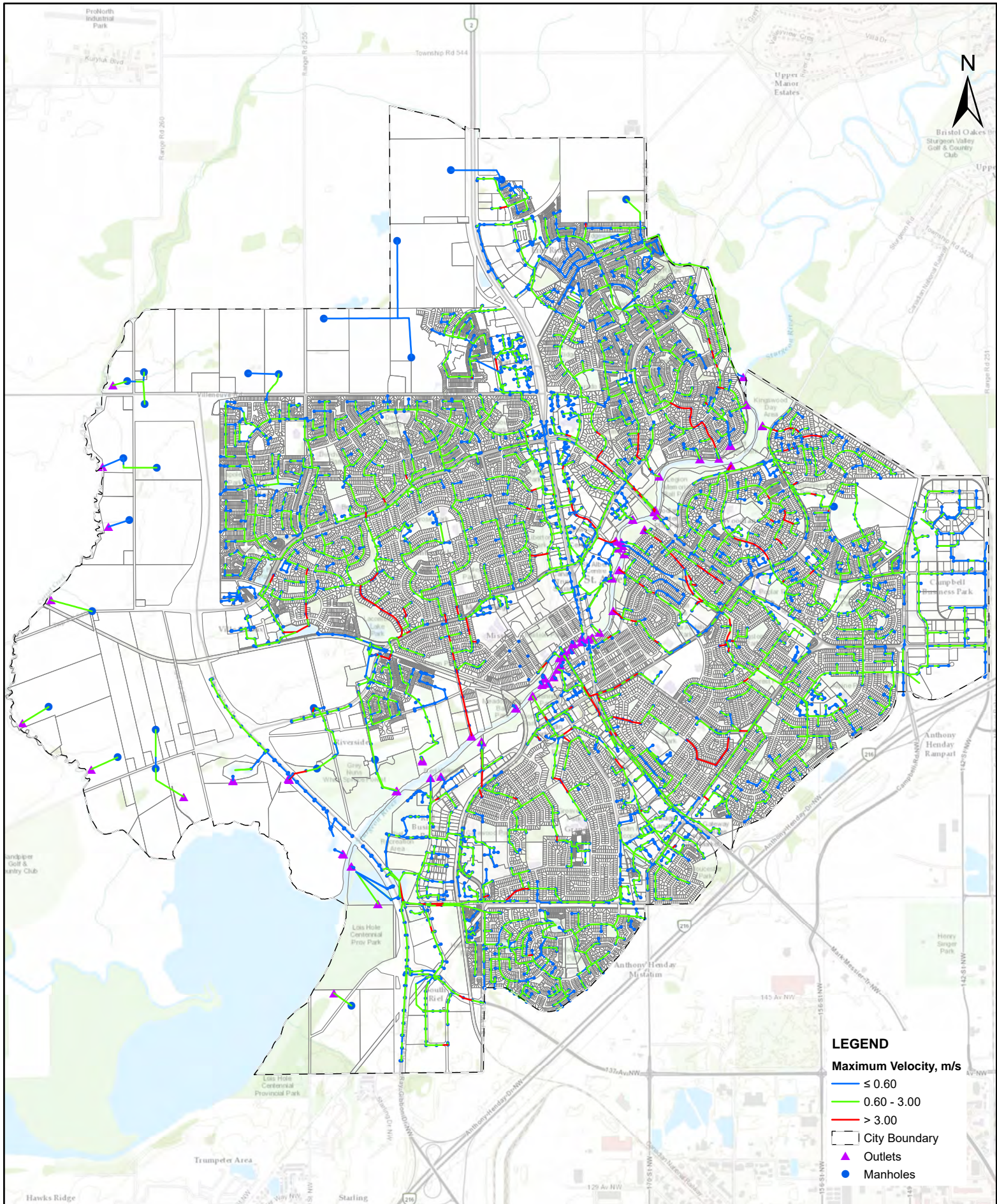


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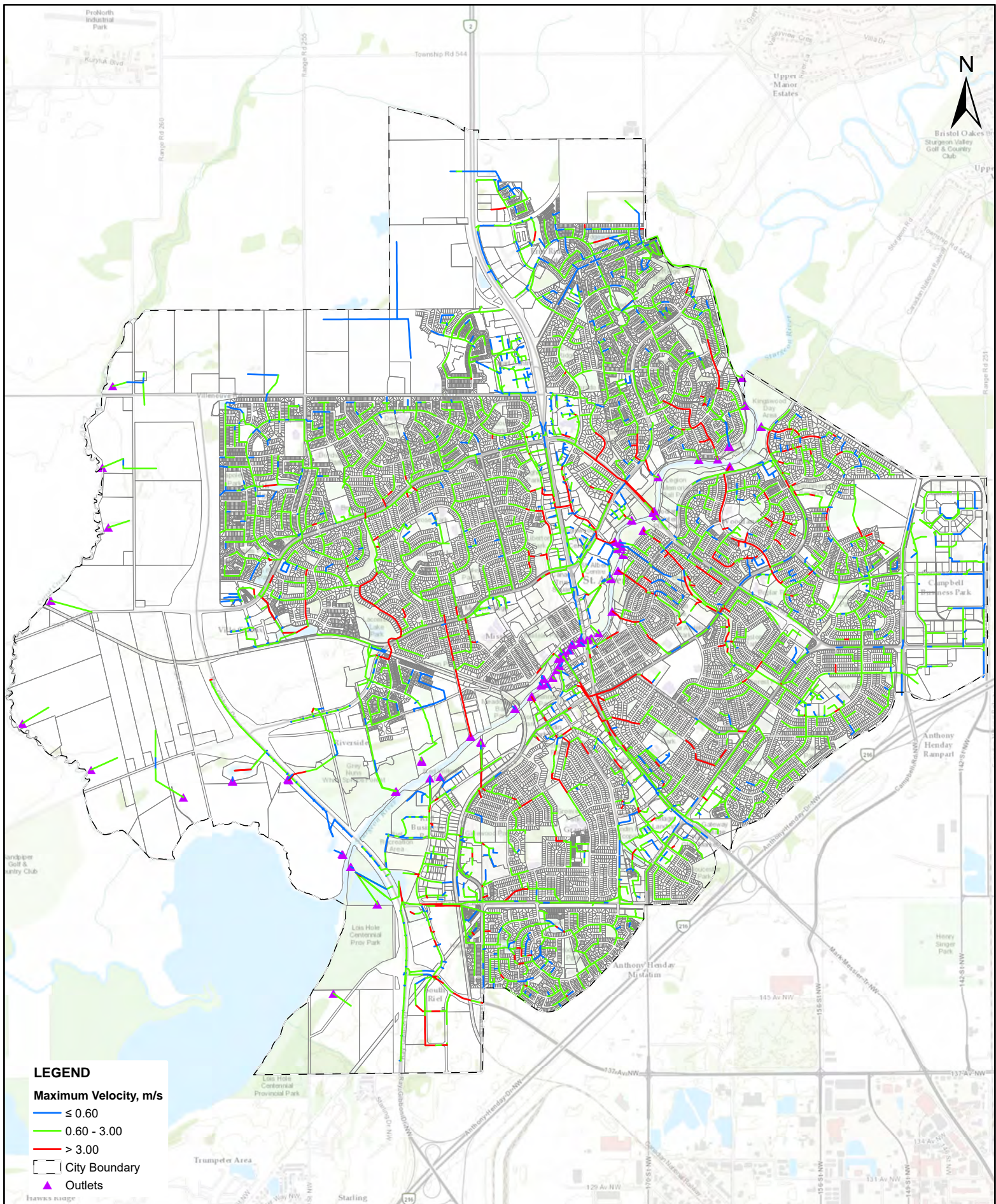






- LEGEND**
- Maximum Velocity, m/s**
- ≤ 0.60
  - 0.60 - 3.00
  - > 3.00
  - City Boundary
  - ▲ Outlets
  - Manholes





**Figure B-29**