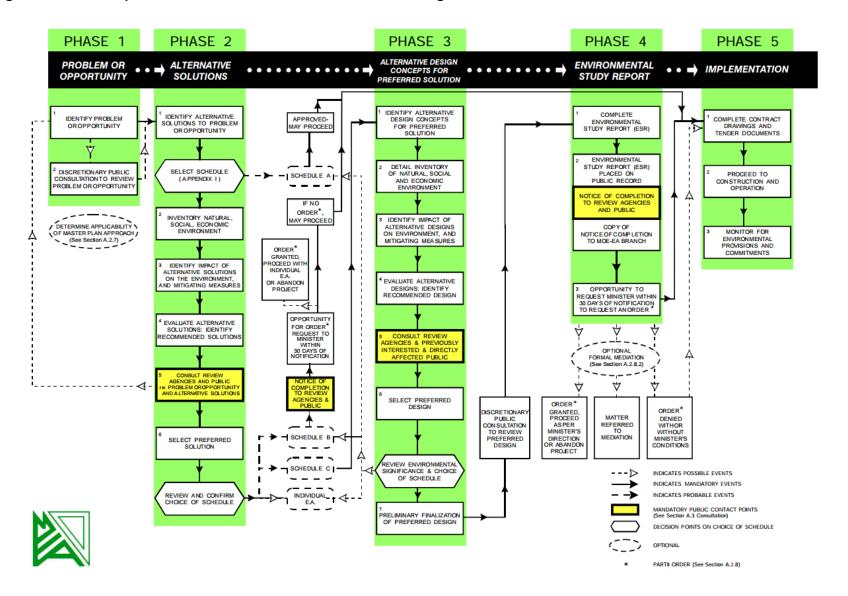
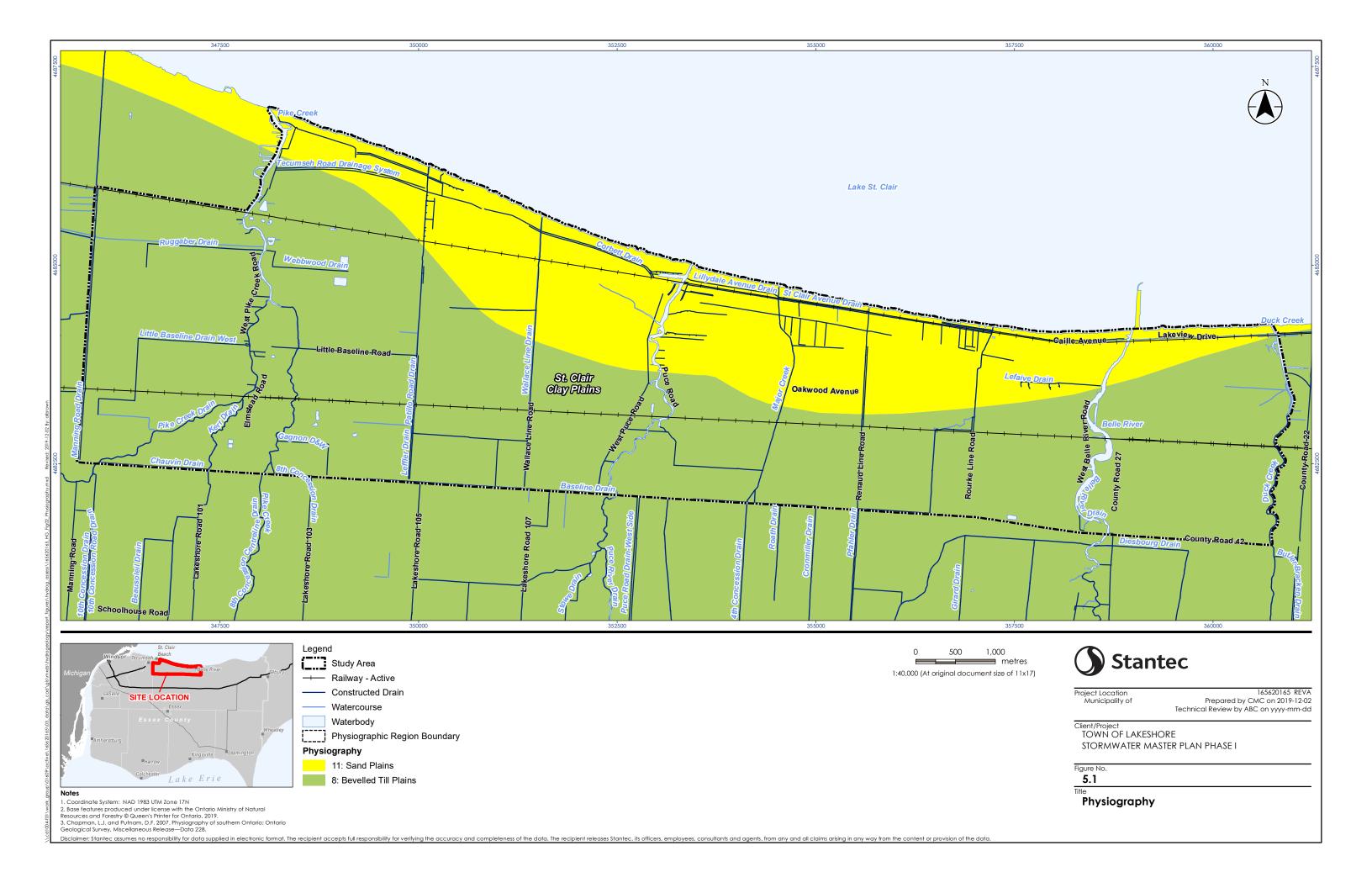
Figures

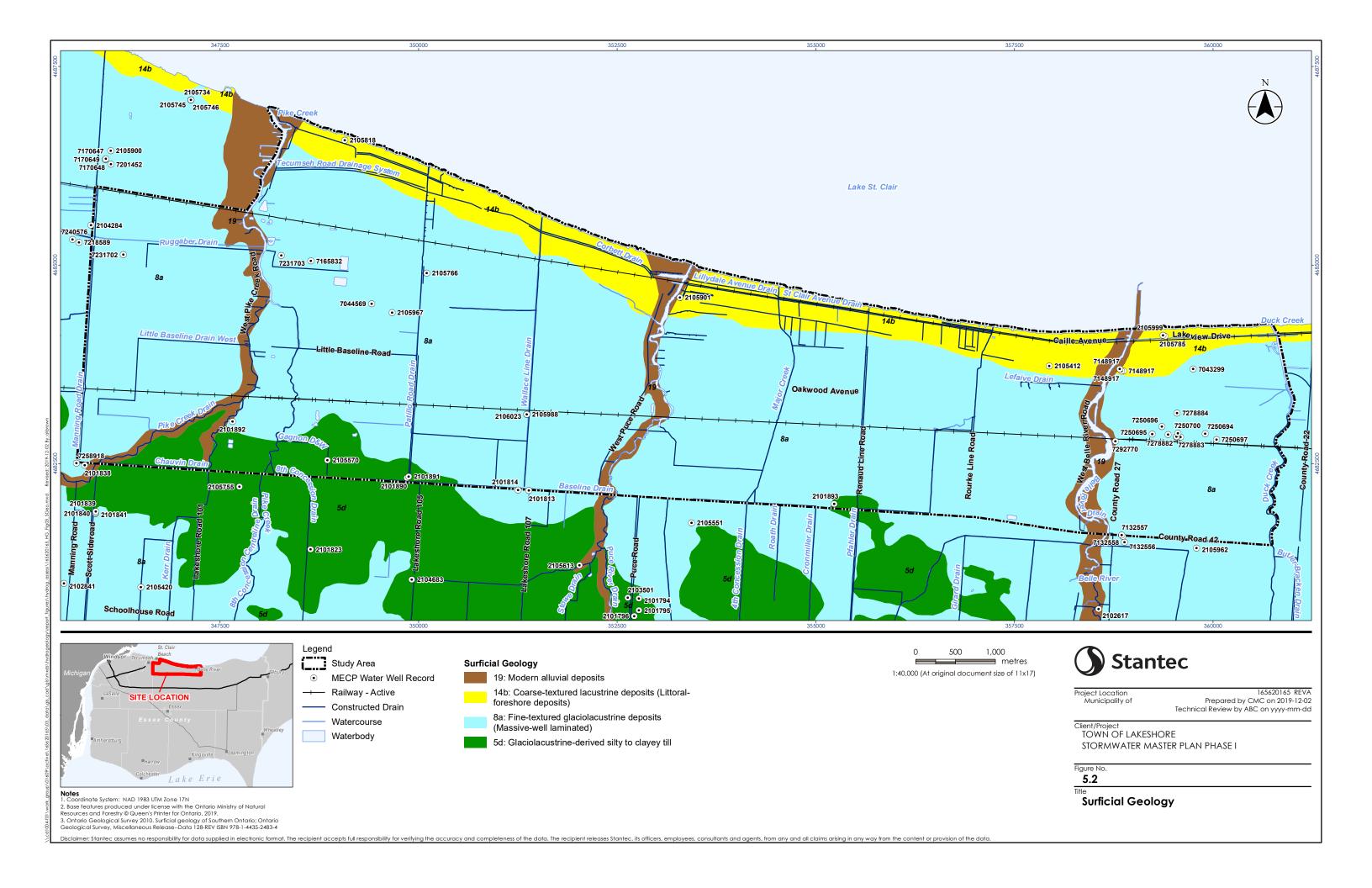
**FIGURES** 

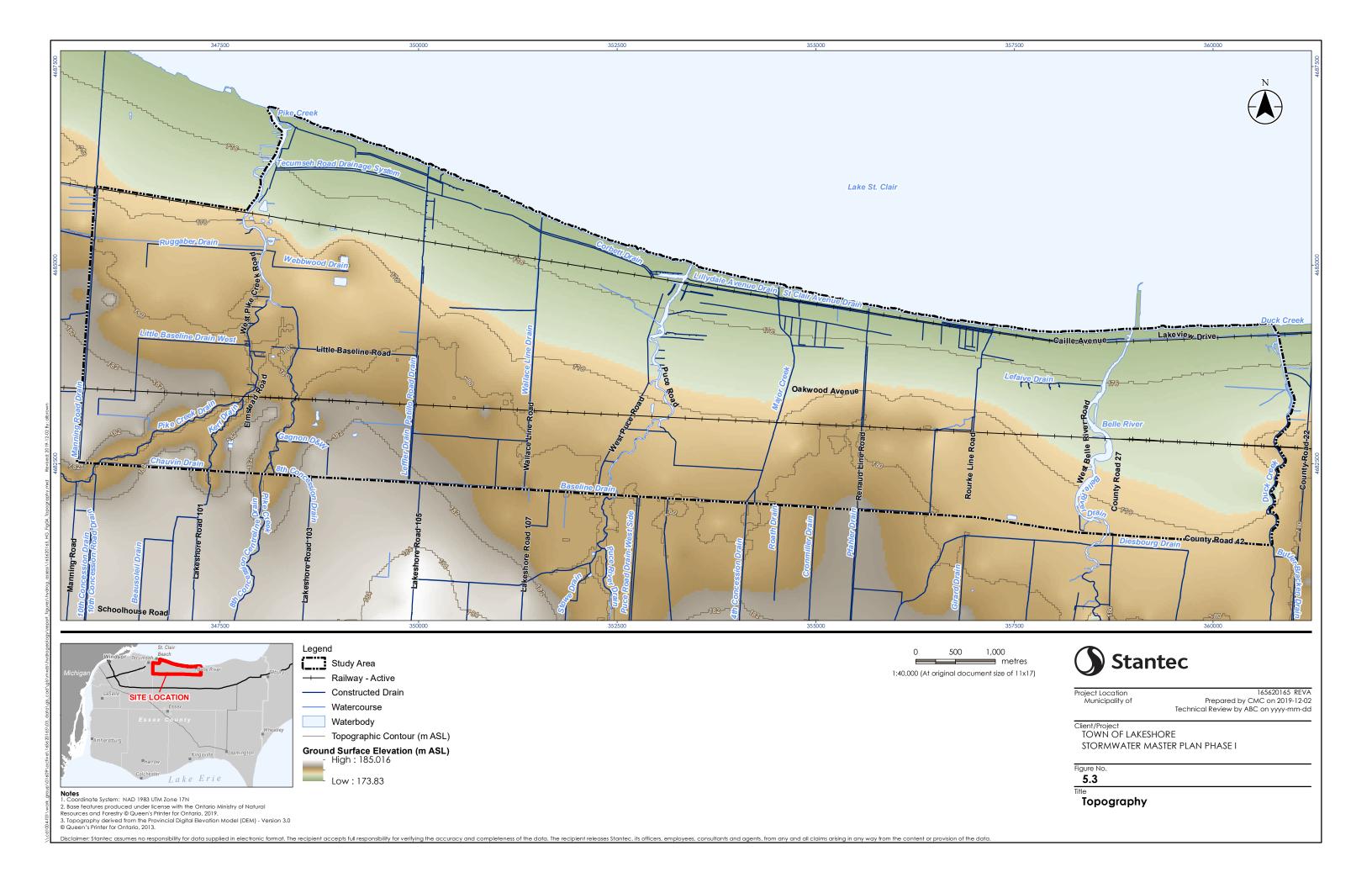


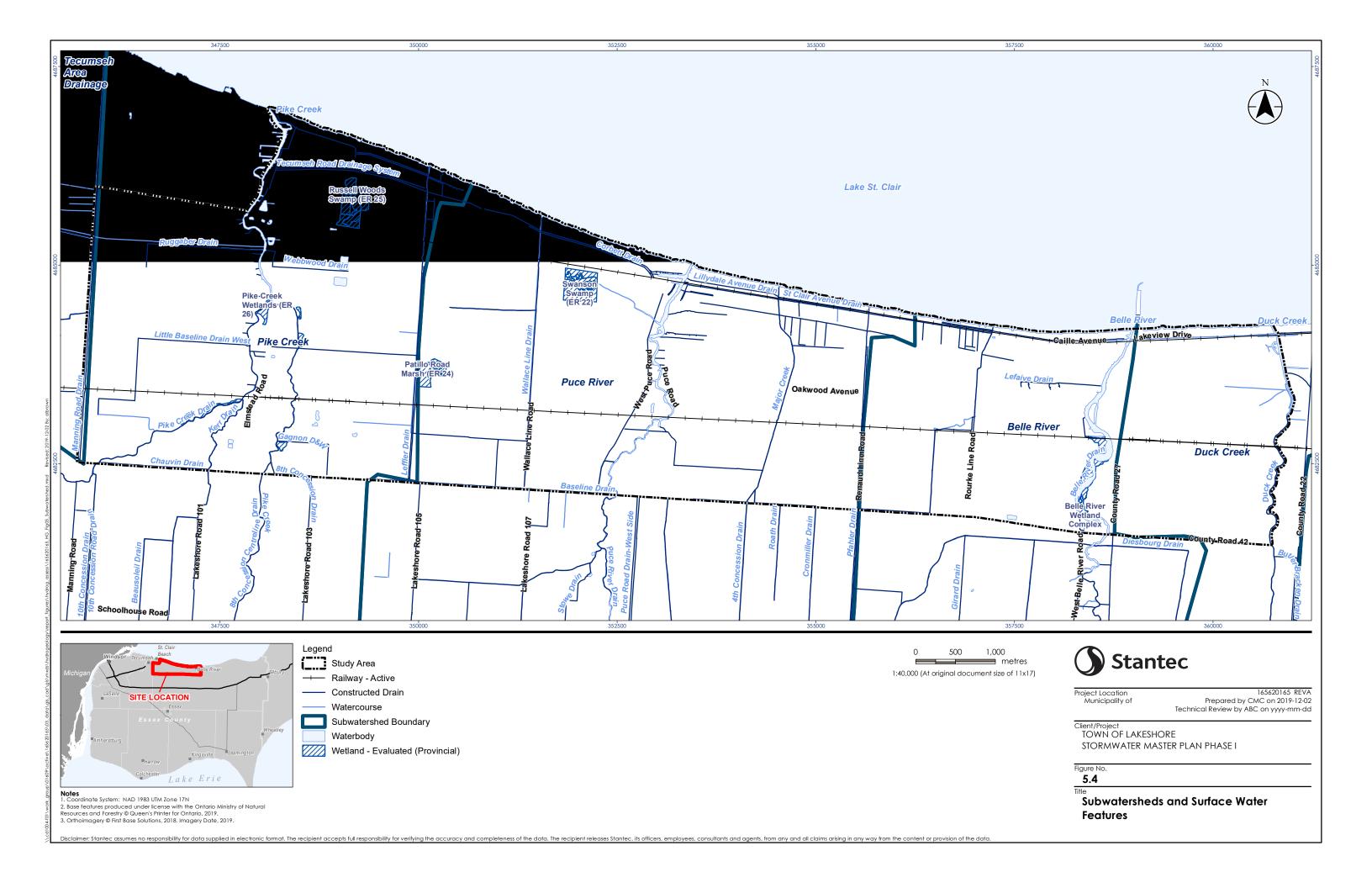
Figure 2.1 – Municipal Class Environmental Assessment Planning Process

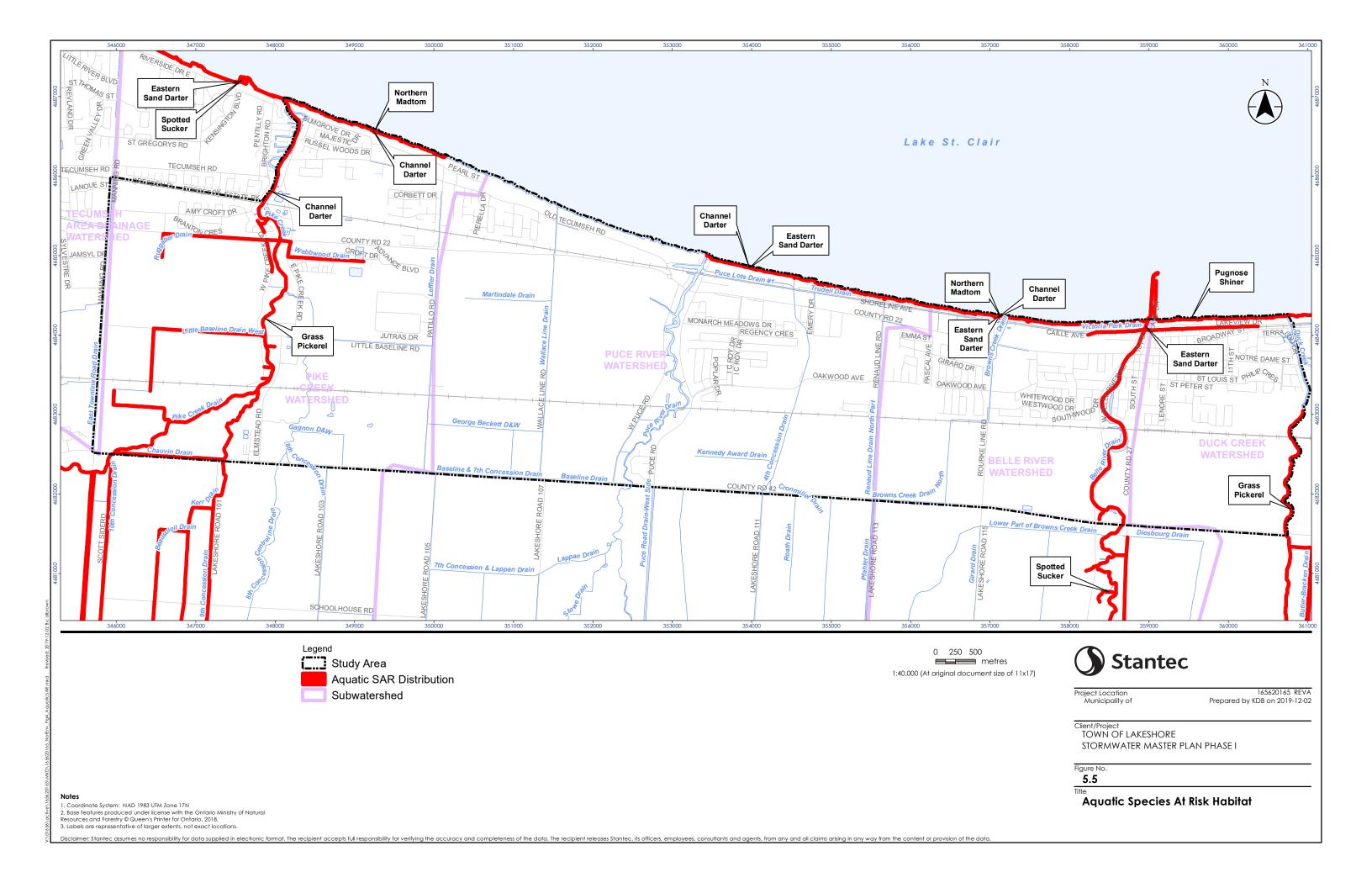


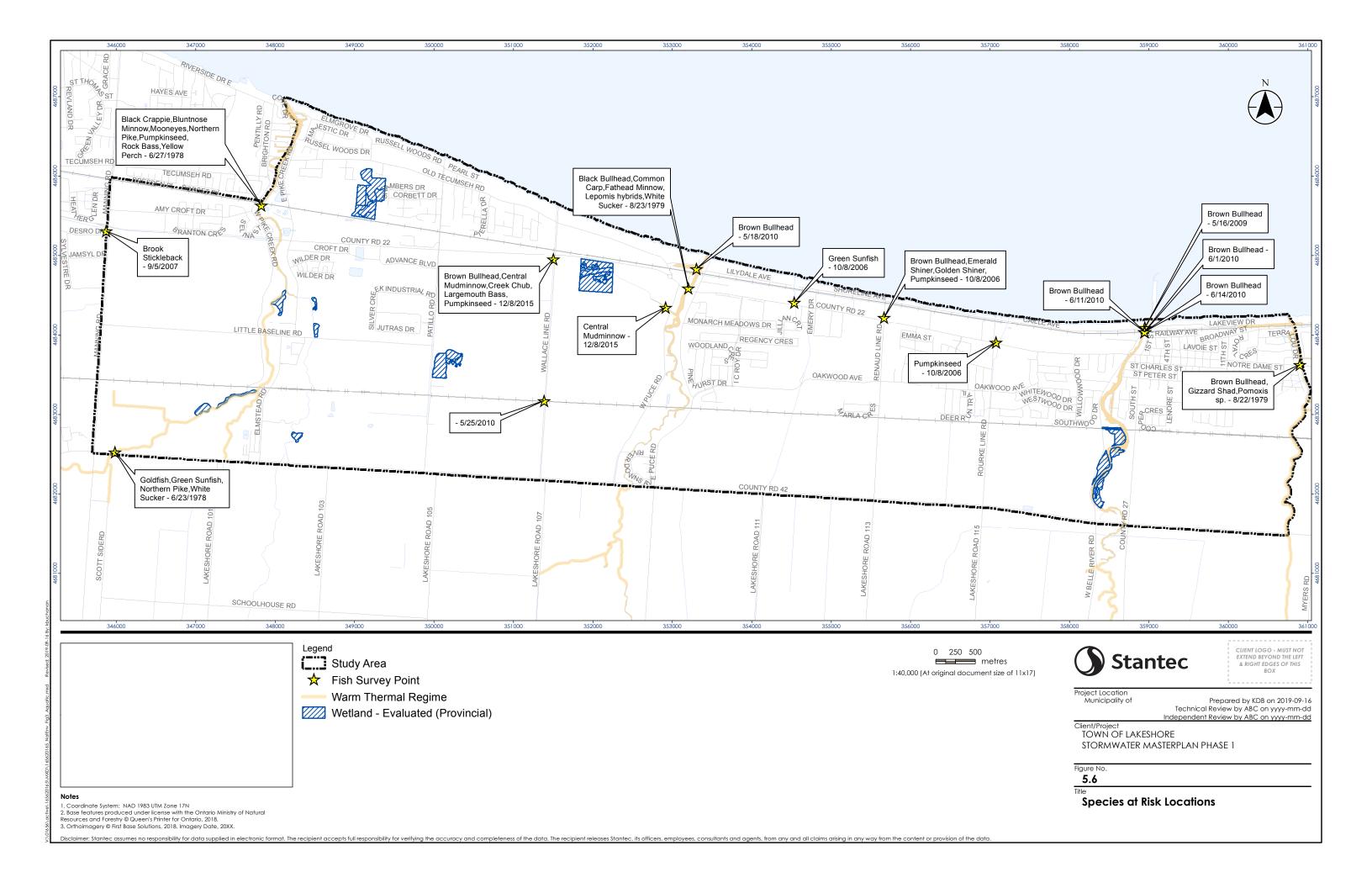


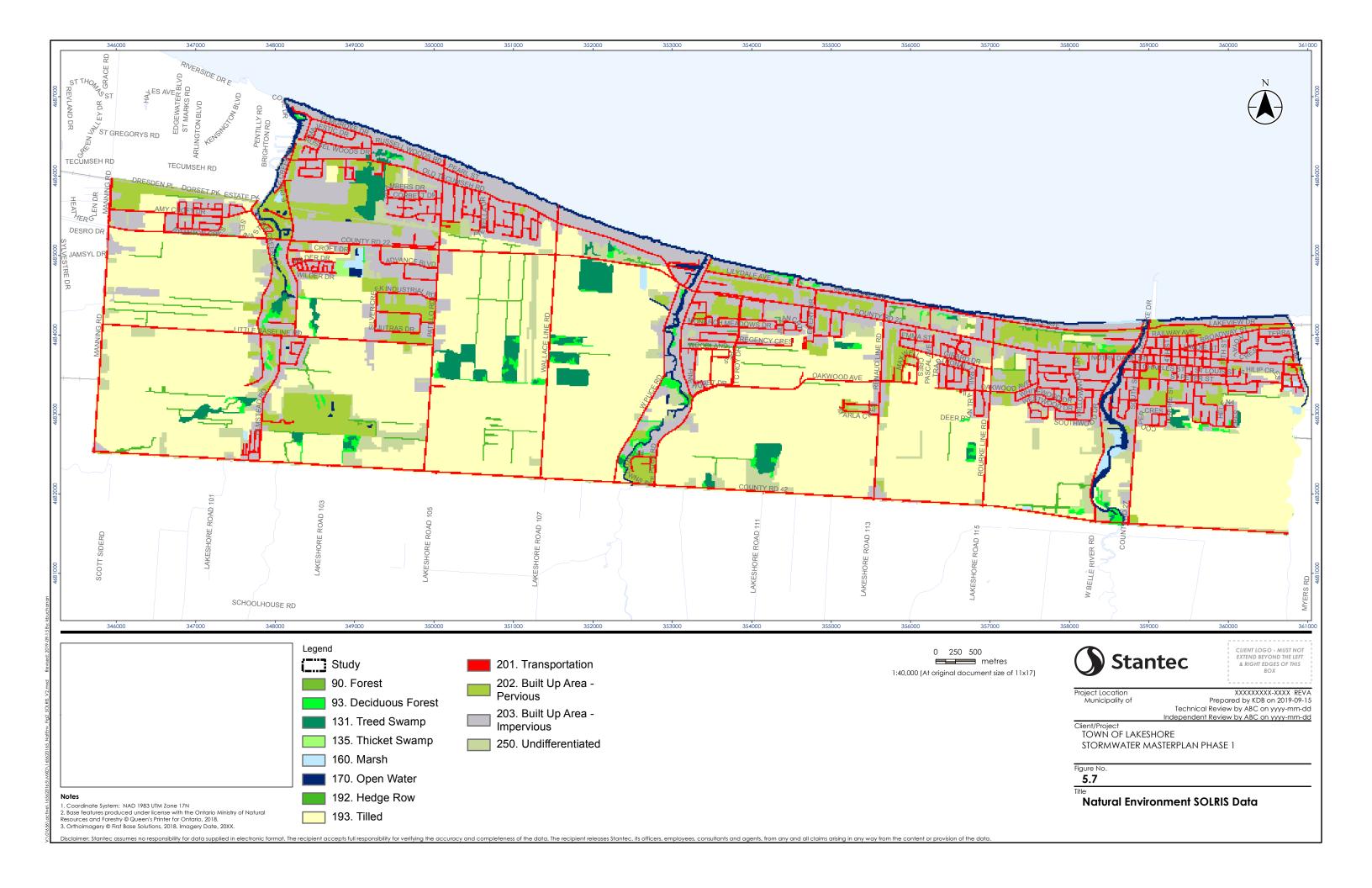


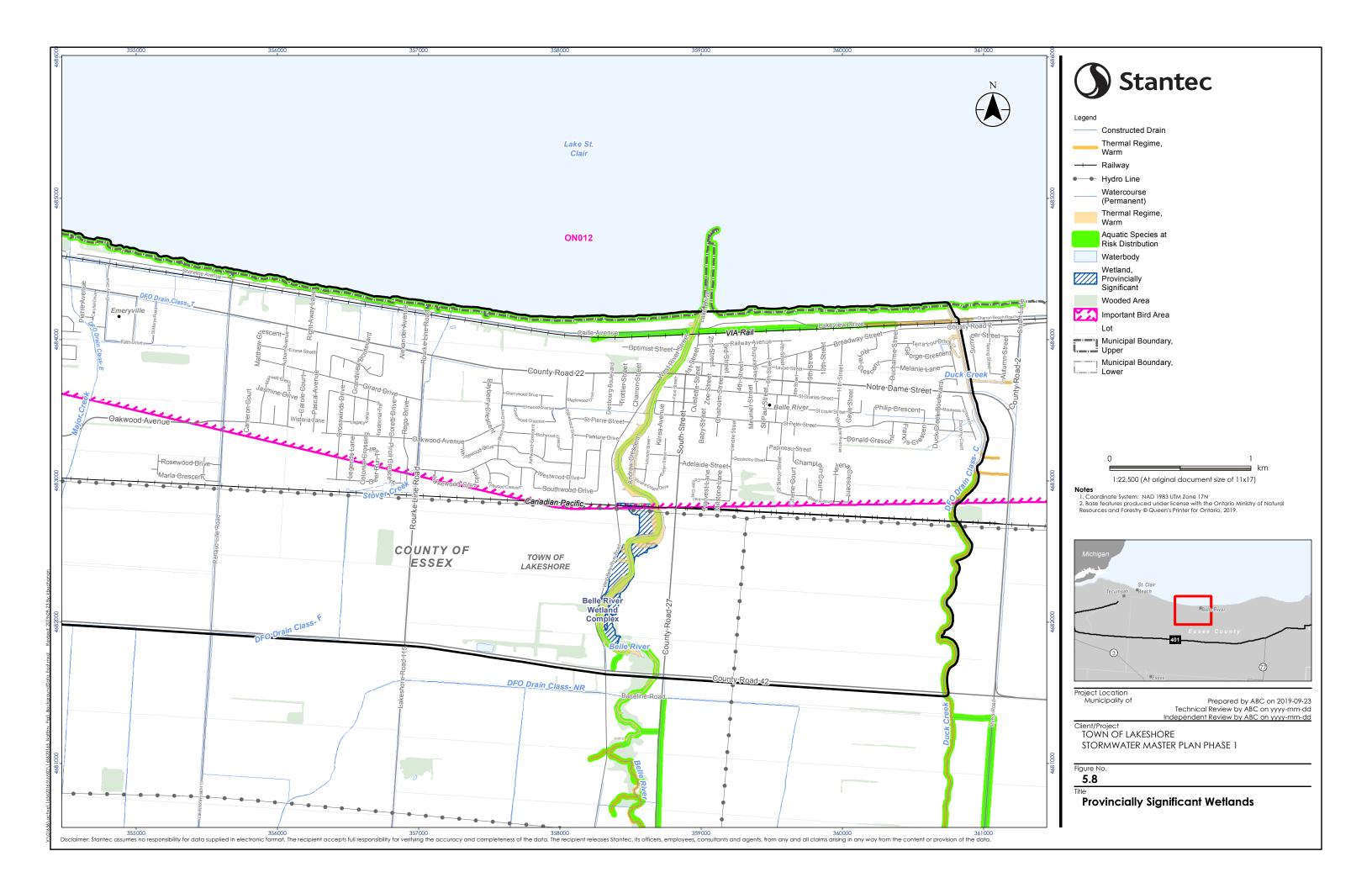


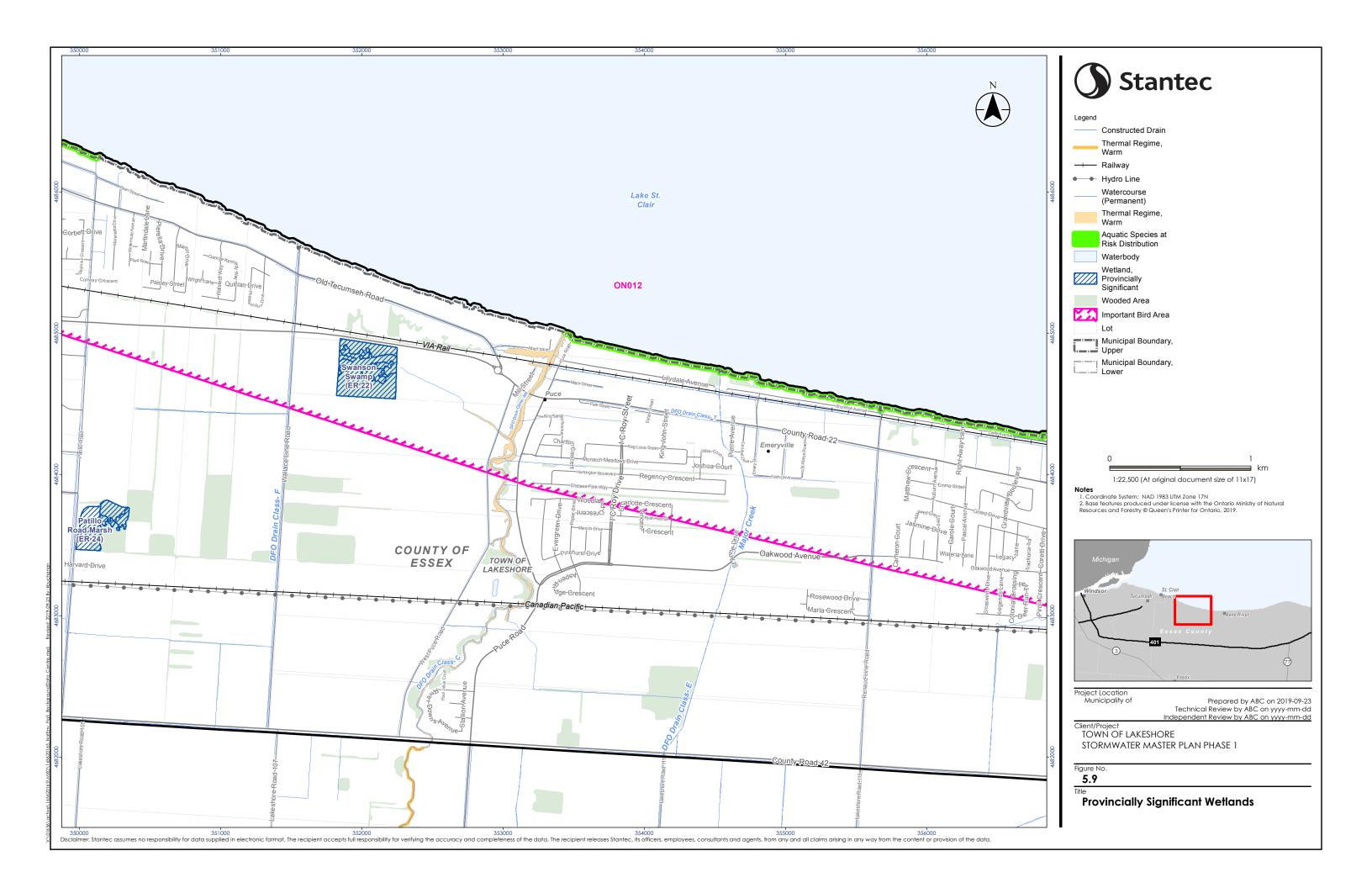


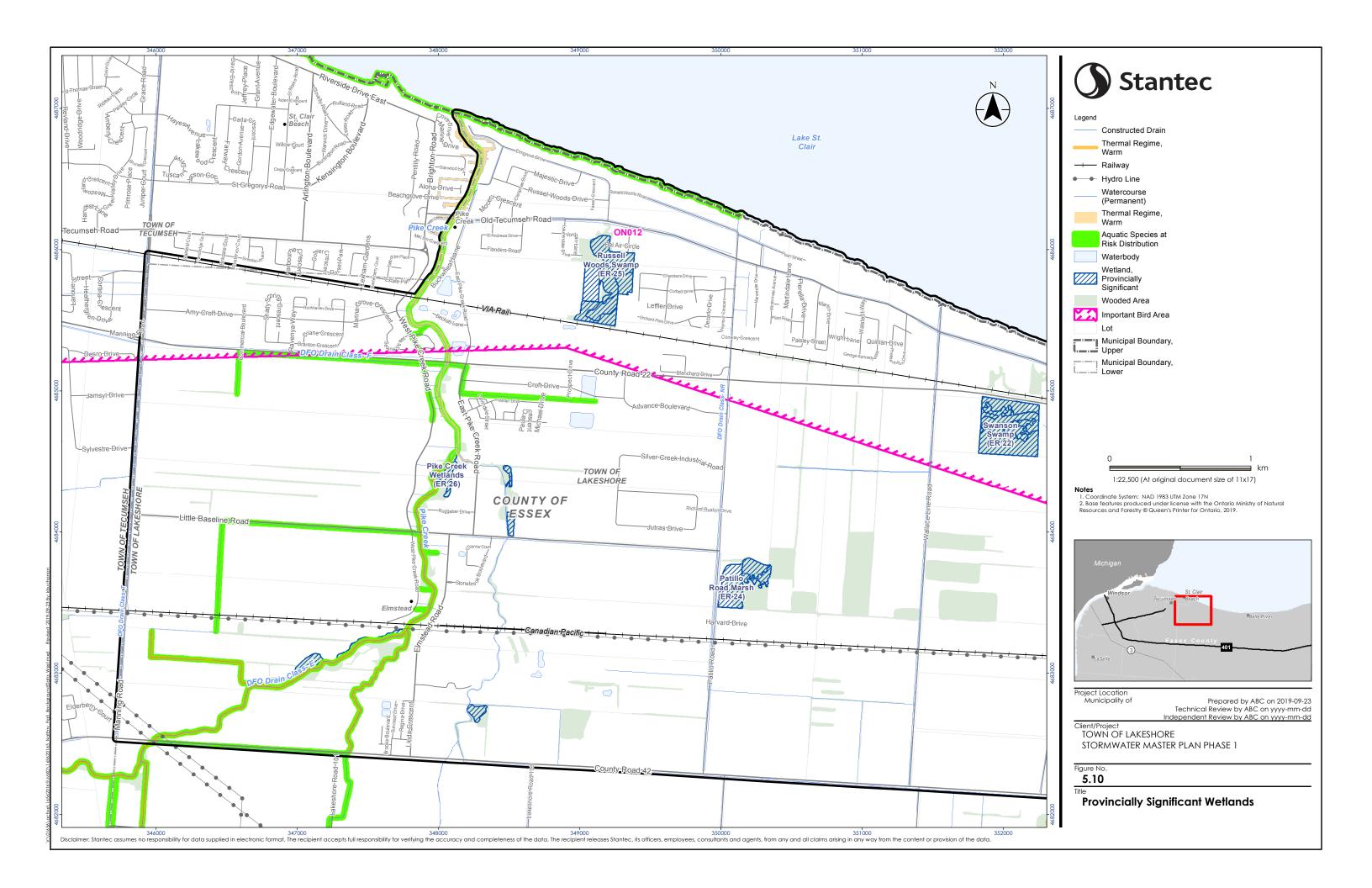


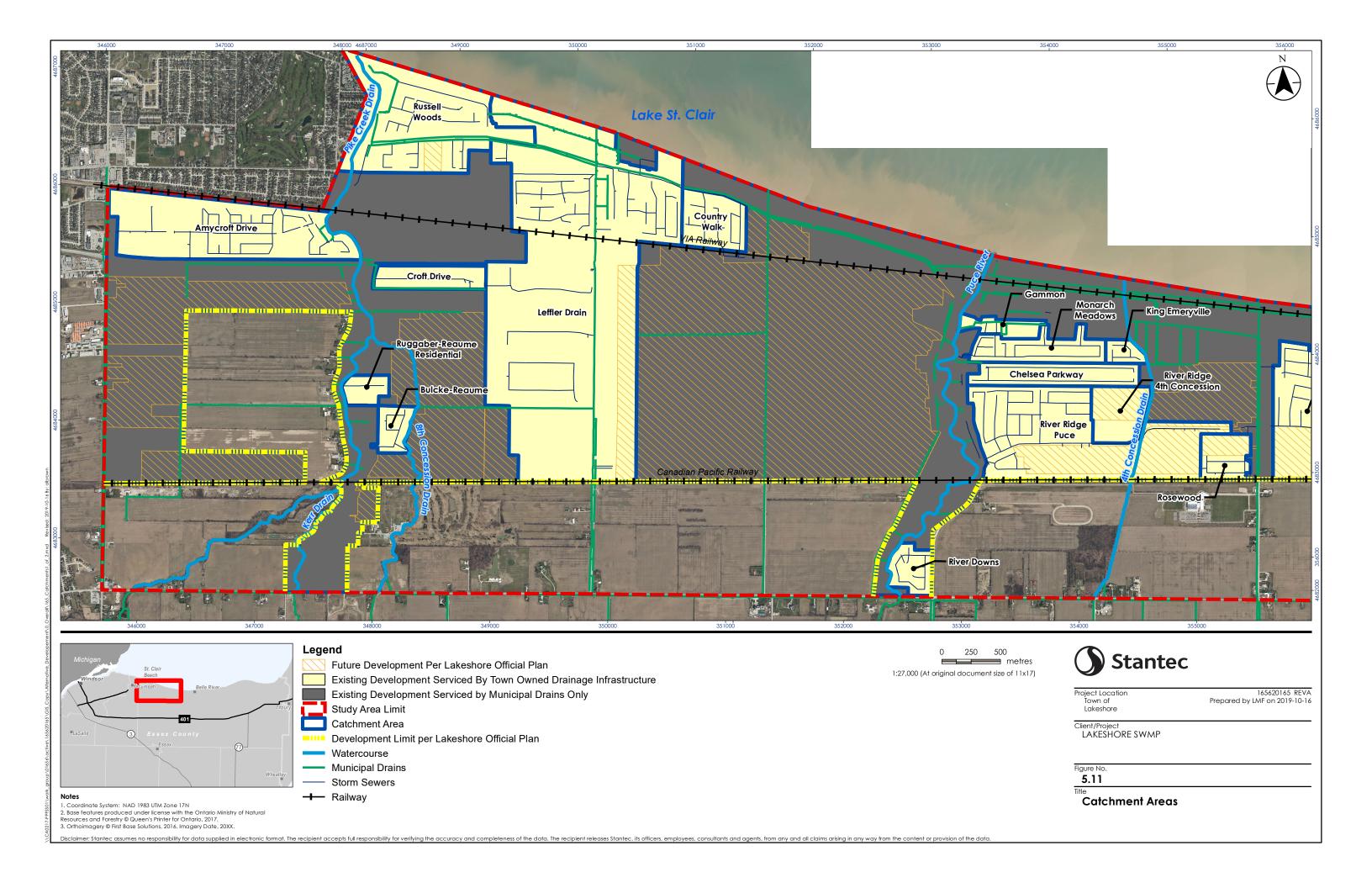


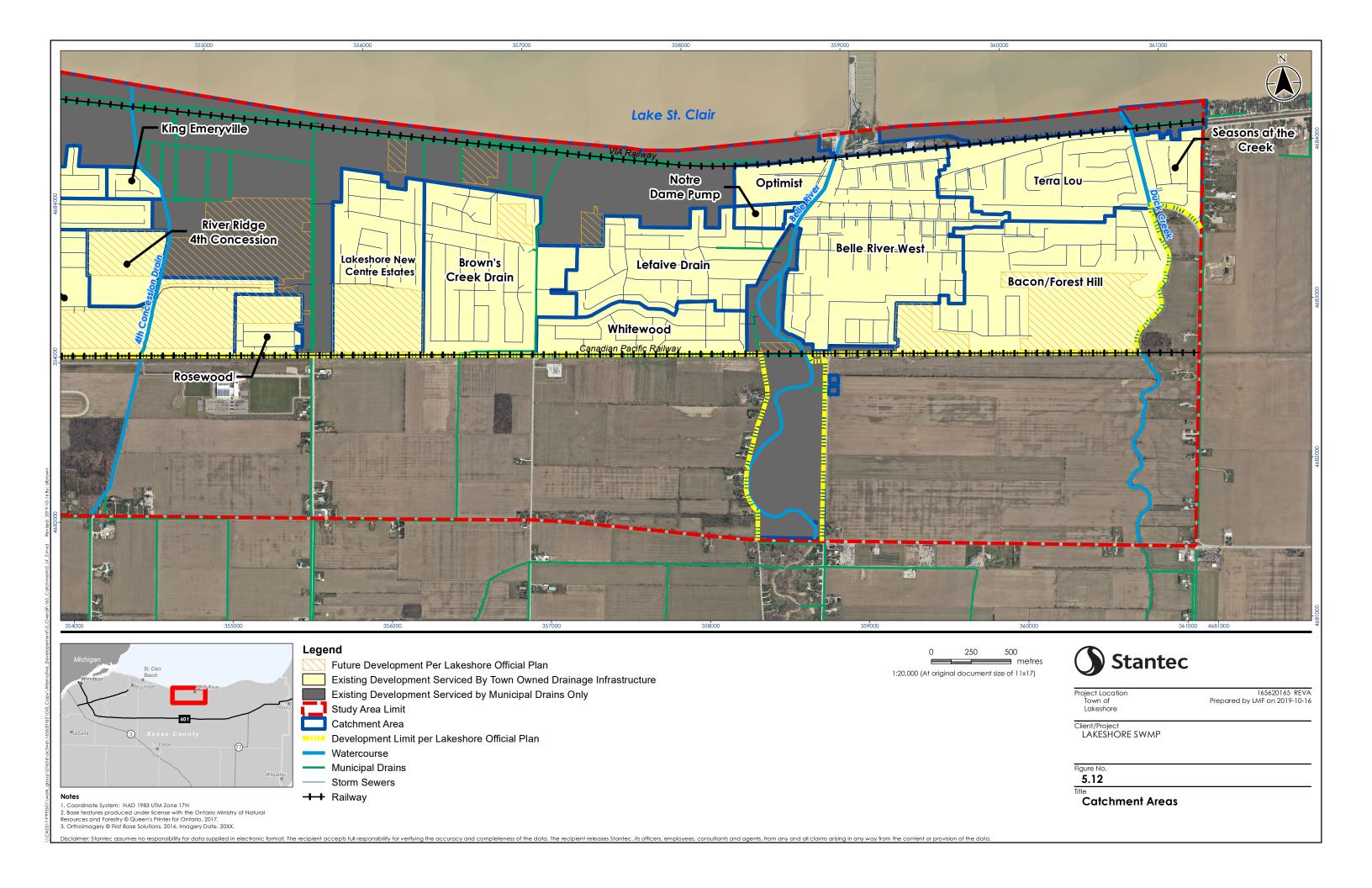














# **Stantec**

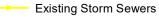
Catchment Boundary

**Future Development** 





→ Municipal Drains



Existing Ditch

- Overland Flow Direction
- Localized Ponding > 0.3 m and < 0.5m
- Localized Ponding > 0.5 m
- Outfalls



1:7,000 (At original document size of 11x17)

- NOTES

  1. Coordinate System: NAD 1983 UTM Zone 17N

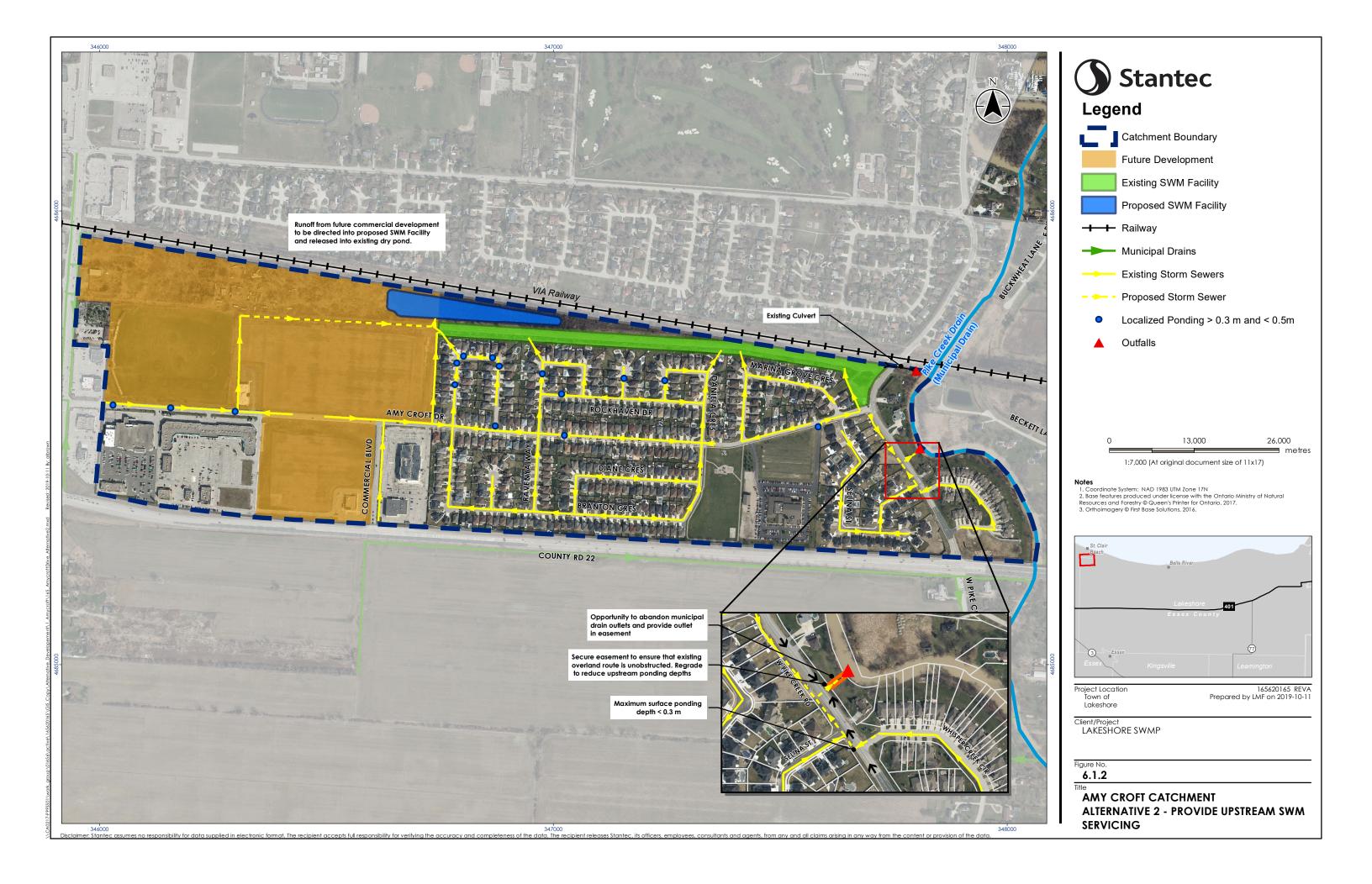
  2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

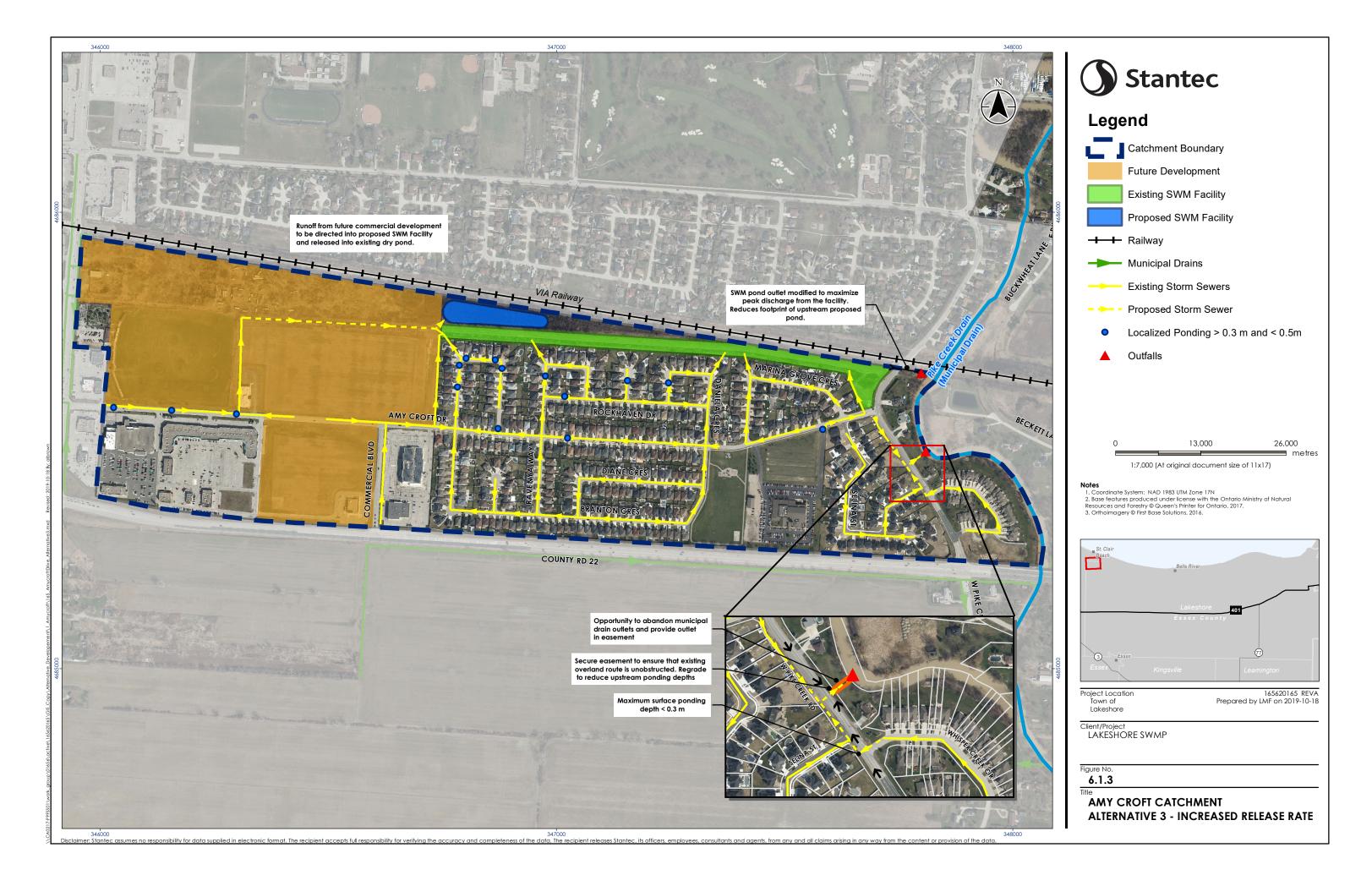
  3. Orthoimagery © First Base Solutions, 2016.



165620165 REVA Prepared by LMF on 2019-10-11

**AMY CROFT CATCHMENT** ALTERNATIVE 1 - DO NOTHING

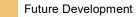


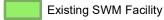












**→** Railway

→ Municipal Drains

**Existing Storm Sewers** 

► Overland Flow Direction

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5 m

Localized Ponding > 0.5 m

Outfalls



1:3,700 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Orthoimagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

165620165 REVA Prepared by LMF on 2019-10-11

Client/Project LAKESHORE SWMP

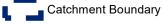
Figure No.

6.2.1

**CROFT DRIVE CATCHMENT** ALTERNATIVE 1 - DO NOTHING









**→** Railway

Municipal Drains

**Existing Storm Sewers** 

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5m

Localized Ponding > 0.5 m

Outfalls



1:3,700 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Orthoimagery © First Base Solutions, 2016.

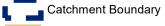


165620165 REVA Prepared by LMF on 2019-10-11

**CROFT DRIVE CATCHMENT ALTERNATIVE 2 - MAJOR NORTH** FLOW DIVERSION









Proposed Easement

**→** Railway

→ Municipal Drains

**Existing Storm Sewers** 

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5m

Localized Ponding > 0.5 m

Outfalls



1:3,700 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Orthoimagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

165620165 REVA Prepared by LMF on 2019-10-11

Client/Project LAKESHORE SWMP

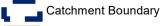
Figure No.

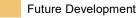
6.2.3

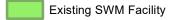
**CROFT DRIVE CATCHMENT ALTERNATIVE 3 - MAJOR SOUTH** FLOW DIVERSION











**→** Railway

→ Municipal Drains

**Existing Storm Sewers** 

- Overland Flow Direction

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5m

Localized Ponding > 0.5 m

Outfalls



1:5,500 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Orthoimagery © First Base Solutions, 2016.

Project Location Town of Lakeshore

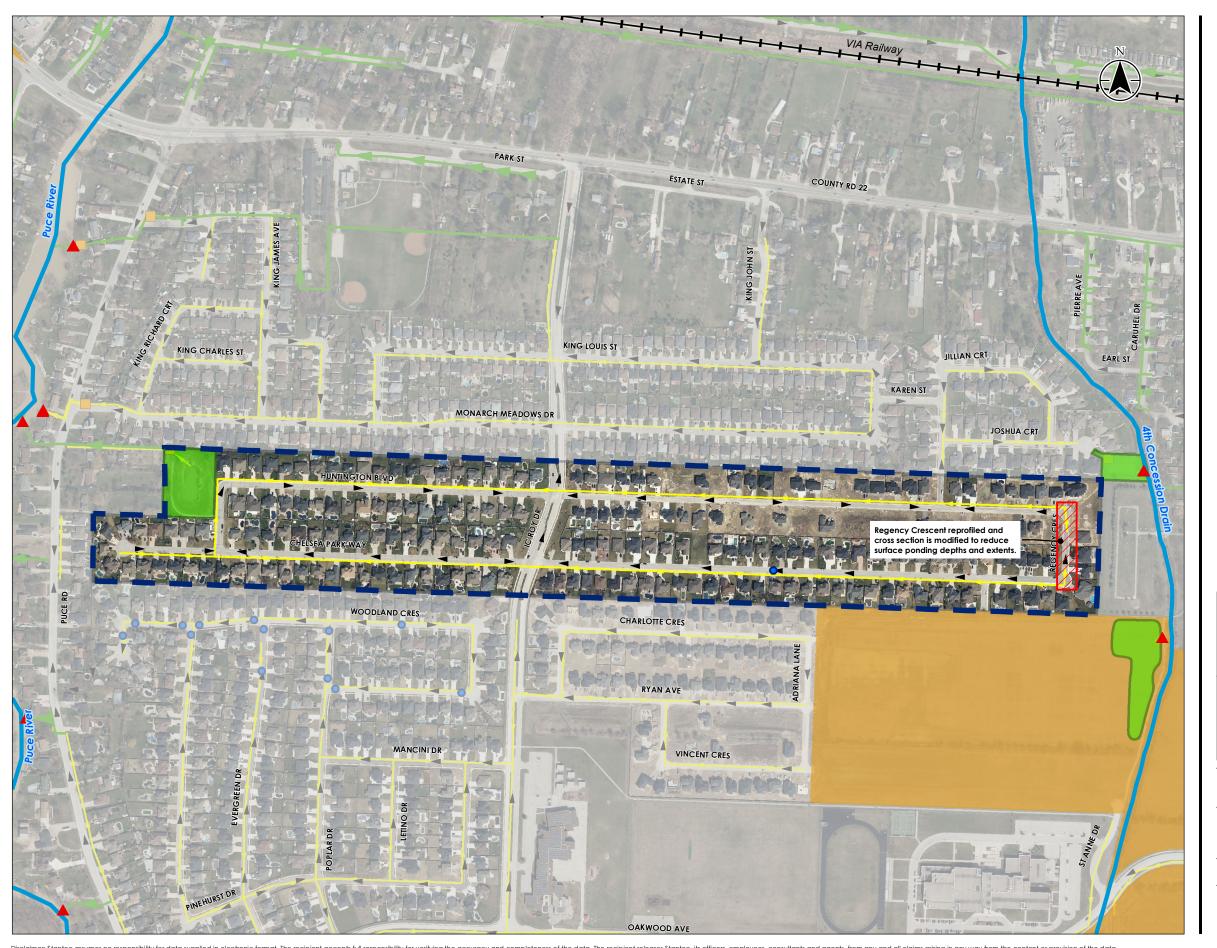
165620165 REVA Prepared by LMF on 2019-10-11

Client/Project LAKESHORE SWMP

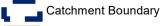
Figure No.

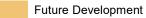
6.3.1

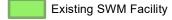
CHELSEA PARKWAY CATCHMENT **ALTERNATIVE 1 - DO NOTHING** 











**→** Railway

→ Municipal Drains

**Existing Storm Sewers** 

► -- Overland Flow Direction

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5m

Outfalls



1:5,500 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Orthoimagery © First Base Solutions, 2016.

Project Location Town of Lakeshore

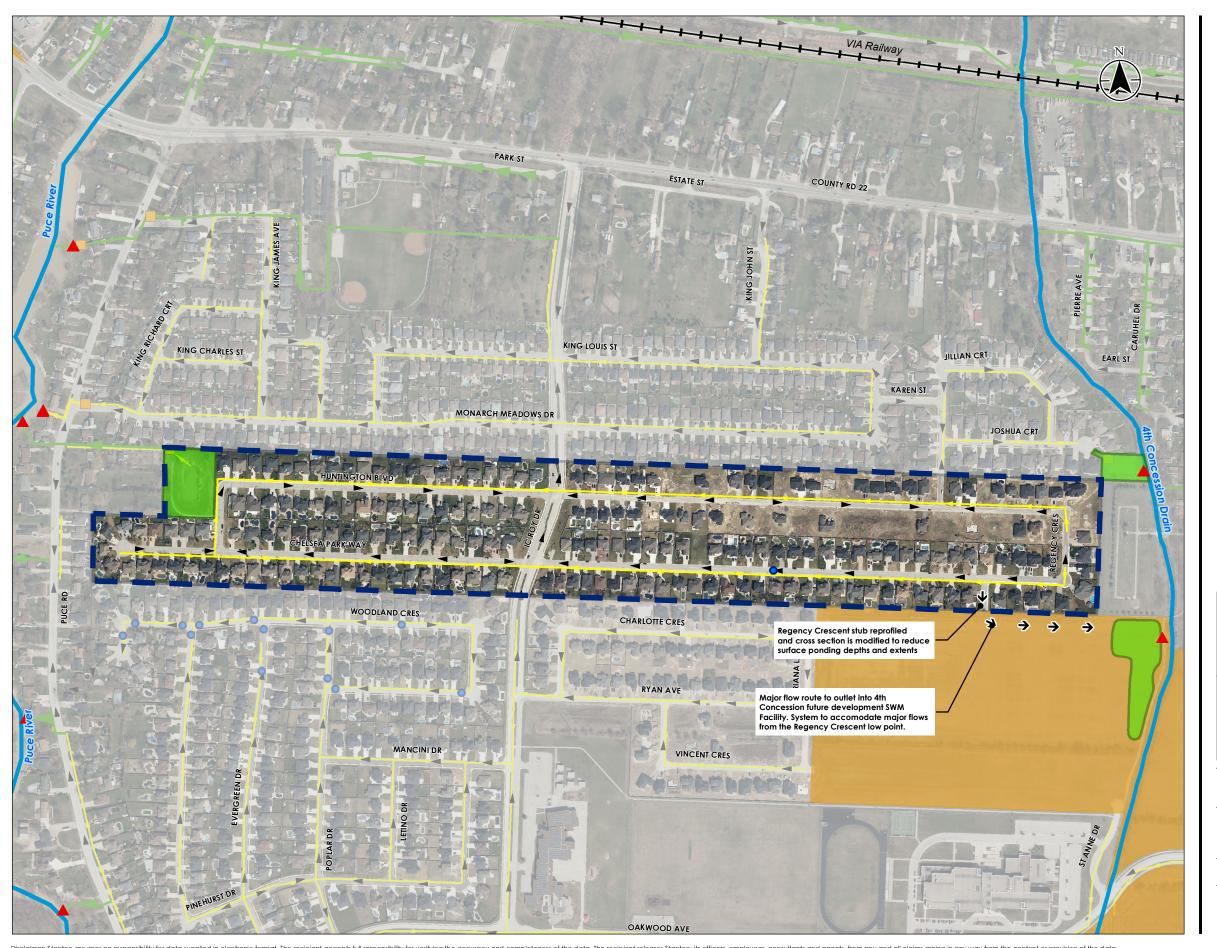
165620165 REVA Prepared by LMF on 2019-10-11

Client/Project LAKESHORE SWMP

Figure No.

6.3.2

CHELSEA PARKWAY CATCHMENT **ALTERNATIVE 2 - REPROFILE** REGENCY CRESCENT







Catchment Boundary



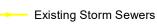
Future Development



**Existing SWM Facility** 



→ Municipal Drains



► -- Overland Flow Direction

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5m

Outfalls



1:5,500 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Orthoimagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

165620165 REVA Prepared by LMF on 2019-10-11

Client/Project LAKESHORE SWMP

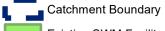
Figure No.

### 6.3.3

CHELSEA PARKWAY CATCHMENT **ALTERNATIVE 3 - RIVER RIDGE 4TH CONCESSION FUTURE DEVELOPMENT** 



# **Stantec**



Municipal Drains

**Existing Storm Sewers** 

Overland Flow Direction

Storm Pump Stations

Proposed Pump Station

Localized Ponding > 0.3 m and < 0.5m

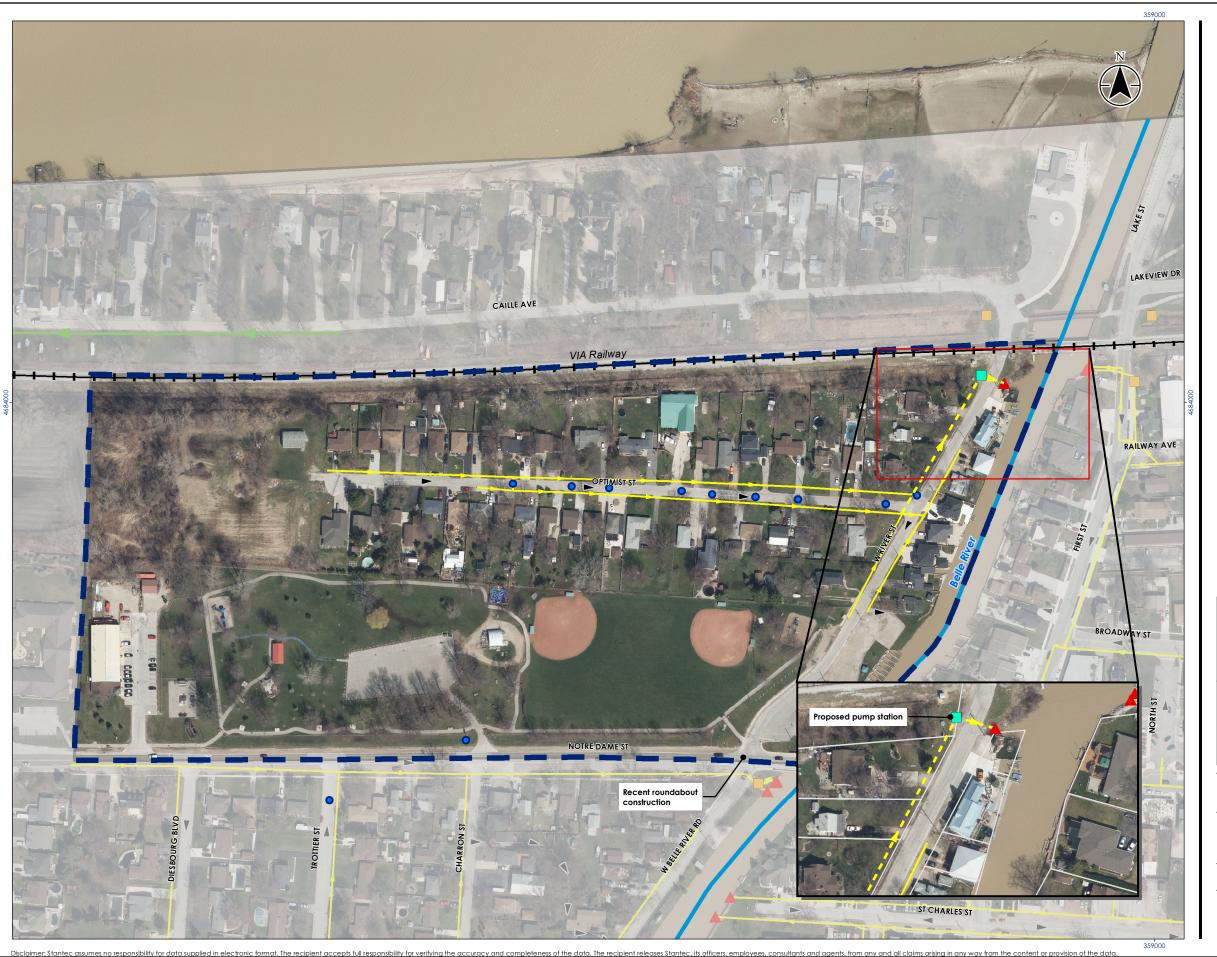


1:2,500 (At original document size of 11x17)

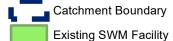


165620165 REVA Prepared by LMF on 2019-10-11

**OPTIMIST CATCHMENT** ALTERNATIVE 1 - DO NOTHING







**─** Railway

Municipal Drains

**Existing Storm Sewers** 

- ▶- Proposed Storm Sewer

Overland Flow Direction

Storm Pump Stations

Proposed Pump Station

Localized Ponding > 0.3 m and < 0.5m

Outfalls



1:2,500 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry @ Queen's Printer for Ontario, 2017.

3. Orthoimagery @ First Base Solutions, 2016.



Project Location Town of Lakeshore

165620165 REVA Prepared by LMF on 2019-10-11

Client/Project LAKESHORE SWMP

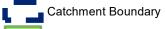
Figure No.

6.4.2

**OPTIMIST CATCHMENT ALTERNATIVE 2 - NEW PUMP STATION** 







Existing SWM Facility

Proposed Pond

**─** Railway

Municipal Drains

**Existing Storm Sewers** 

Proposed Storm Sewer

Overland Flow Direction

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5m

Outfalls



1:2,500 (At original document size of 11x17)

NOIES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Ortholmagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

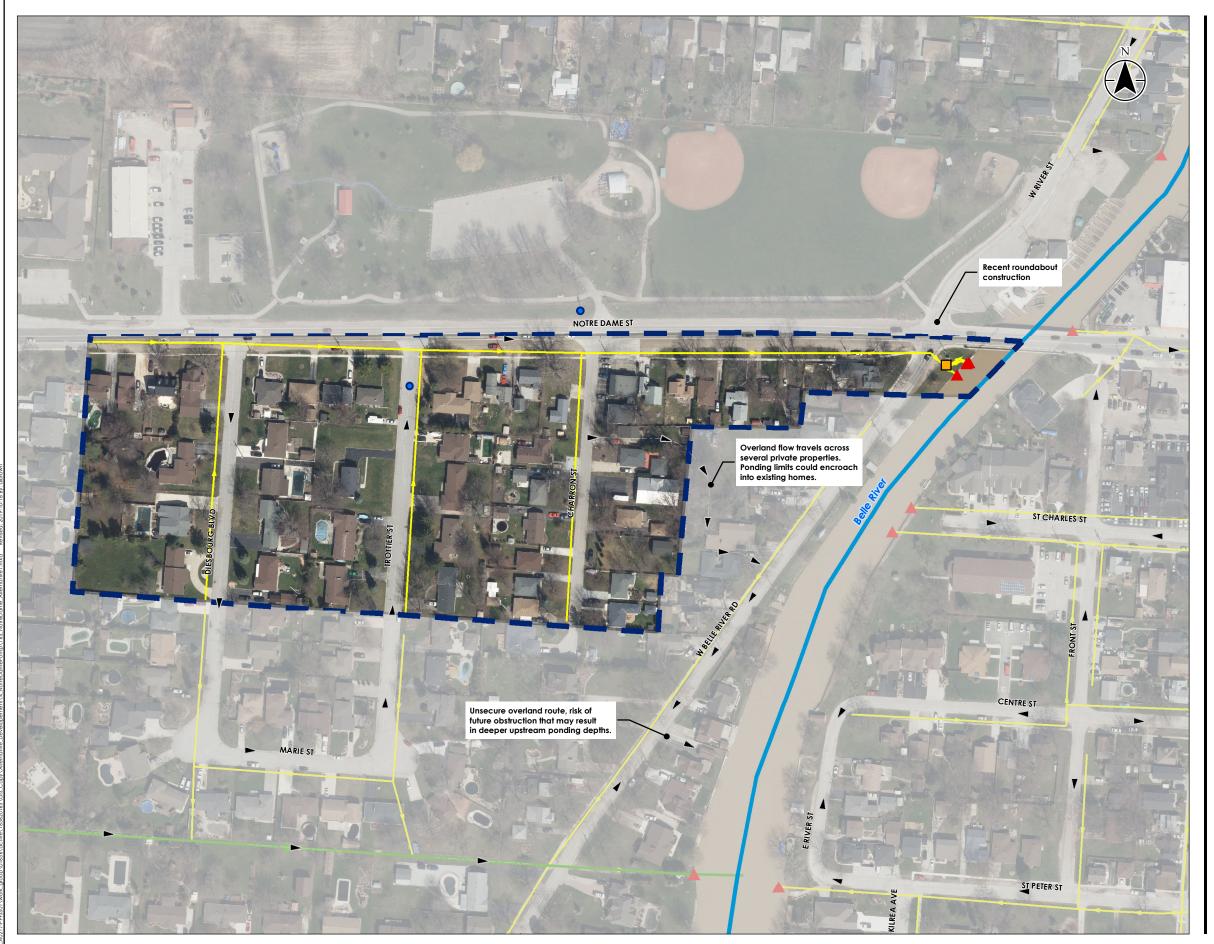
165620165 REVA Prepared by LMF on 2019-10-11

Client/Project LAKESHORE SWMP

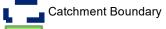
Figure No.

### 6.4.3

**OPIMIST CATCHMENT ALTERNATIVE 3 - NEW PUMP STATION** AND OFFLINE DRY SWM POND







Existing SWM Facility

**→** Railway

→ Municipal Drains

Existing Storm Sewers

Overland Flow Direction

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5 m

Outfalls



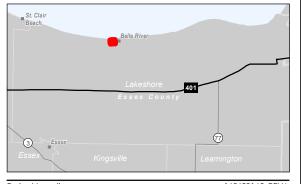
1:2,000 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry @ Queen's Printer for Ontario, 2017.

3. Orthoimagery @ First Base Solutions, 2016.



Project Location Town of Lakeshore

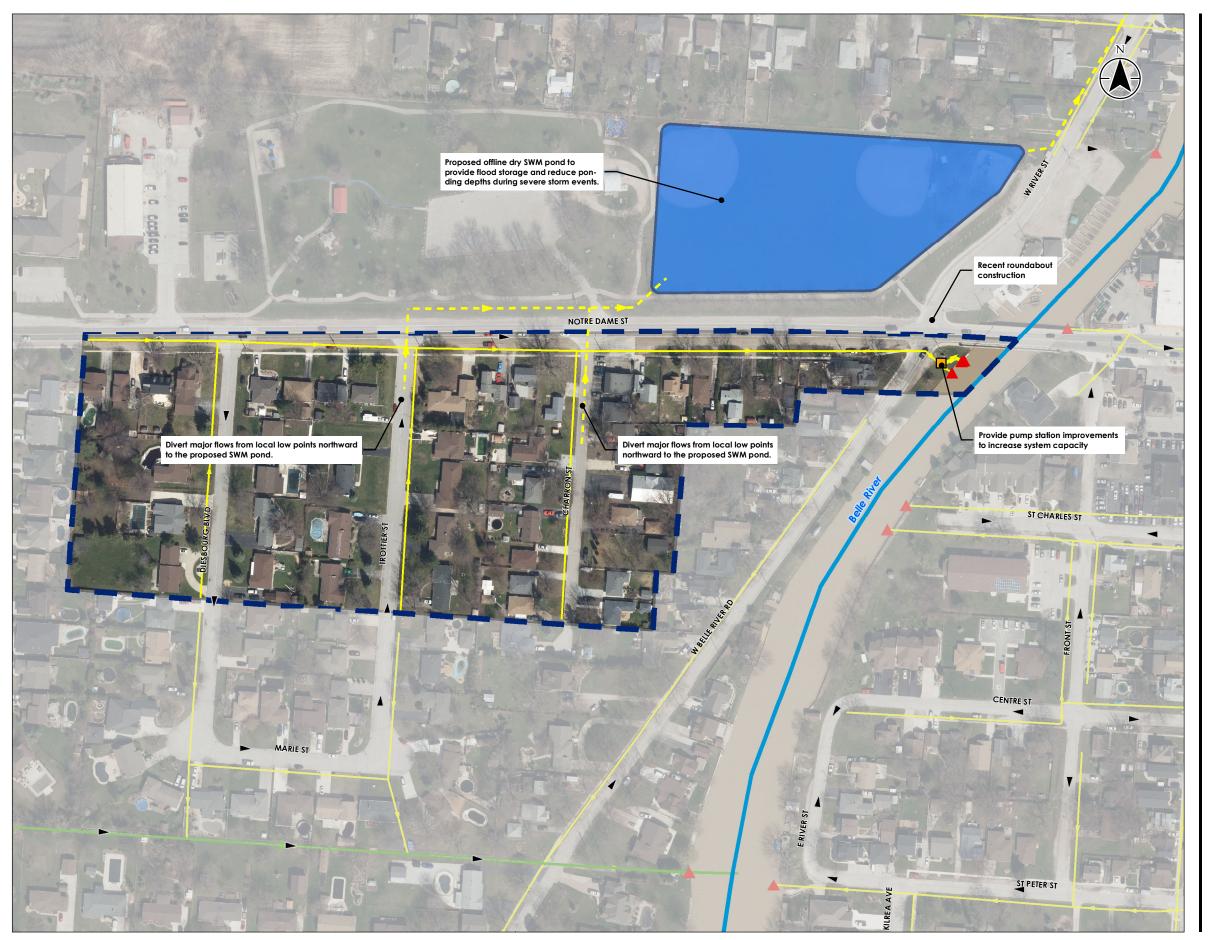
165620165 REVA Prepared by LMF on 2019-10-18

Client/Project LAKESHORE SWMP

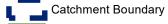
Figure No.

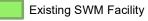
6.5.1

NOTRE DAME CATCHMENT ALTERNATIVE 1 - DO NOTHING











**→** Railway

→ Municipal Drains

**Existing Storm Sewers** 

- > Proposed Storm Sewer

Overland Flow Direction

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5 m

Outfalls



1:2,000 (At original document size of 11x17)

- NOTES

  1. Coordinate System: NAD 1983 UTM Zone 17N

  2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

  3. Orthoimagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

165620165 REVA Prepared by LMF on 2019-10-18

Client/Project LAKESHORE SWMP

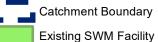
Figure No.

### 6.5.2

NOTRE DAME CATCHMENT **ALTERNATIVE 2 - DIVERT MAJOR FLOWS** TO PROPOSED OPTIMIST PARK DRY POND







**→** Railway

→ Municipal Drains

**Existing Storm Sewers** 

Overland Flow Direction

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5m

Outfalls



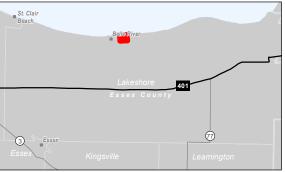
1:3,000 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry @ Queen's Printer for Ontario, 2017.

3. Orthoimagery @ First Base Solutions, 2016.



Project Location Town of Lakeshore

165620165 REVA Prepared by LMF on 2019-10-11

Client/Project LAKESHORE SWMP

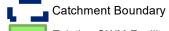
Figure No.

6.6.1

SEASONS AT THE CREEK CATCHMENT ALTERNATIVE 1 - DO NOTHING







Existing SWM Facility

**→** Railway

→ Municipal Drains

**Existing Storm Sewers** 

- >- Proposed Storm Sewer

Overland Flow Direction

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5m

Outfalls



1:3,000 (At original document size of 11x17)

NOIES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Ortholmagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

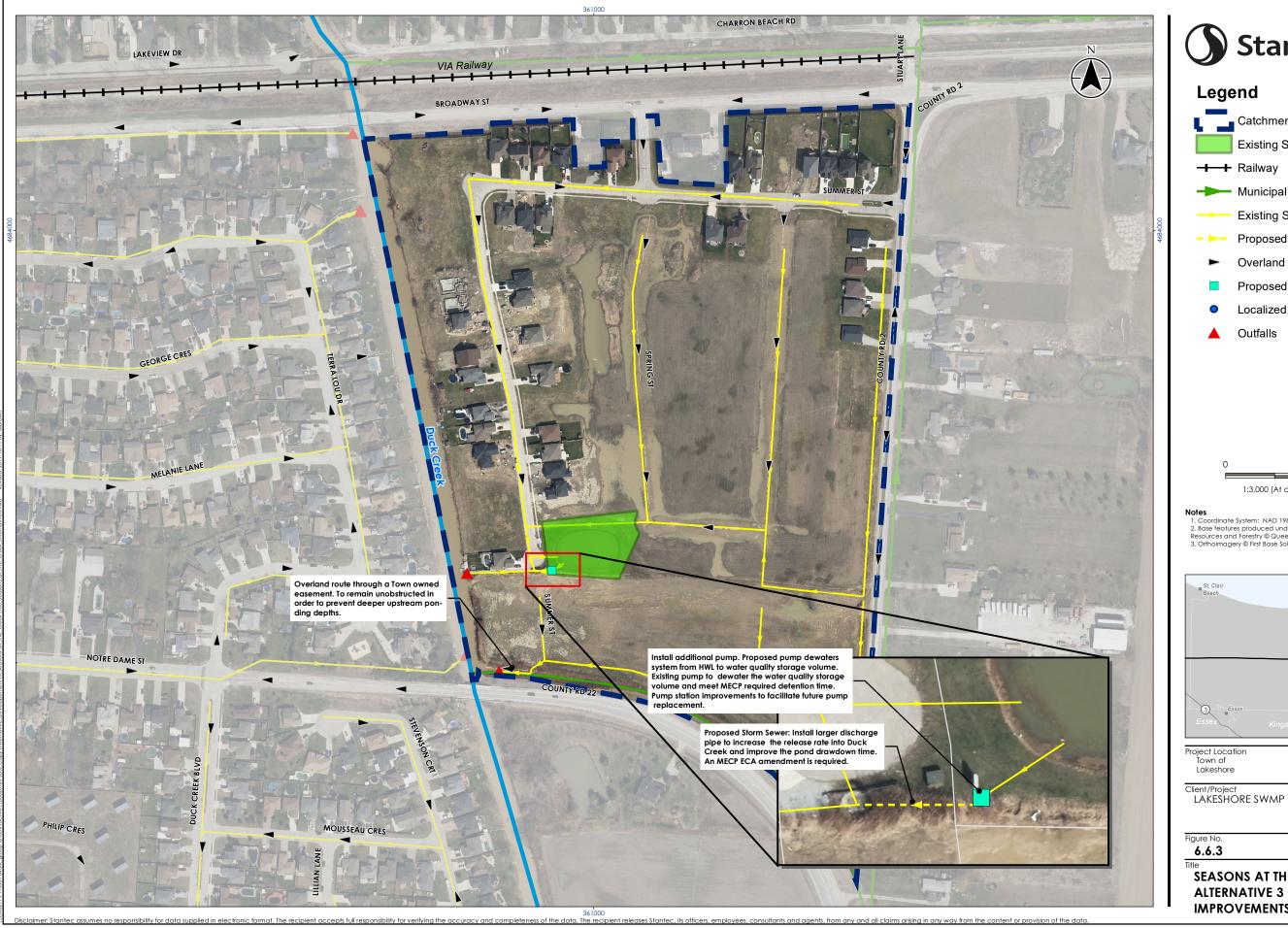
165620165 REVA Prepared by LMF on 2019-10-11

Client/Project LAKESHORE SWMP

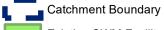
Figure No.

### 6.6.2

SEASONS AT THE CREEK CATCHMENT **ALTERNATIVE 2 - POND OUTLET IMPROVEMENTS** 







**Existing SWM Facility** 

**→** Railway

→ Municipal Drains

**Existing Storm Sewers** 

Proposed Storm Sewer

Overland Flow Direction

Proposed Pump Station

Localized Ponding > 0.3 m and < 0.5m

Outfalls

13,000 26,000 ■ metres

1:3,000 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Orthoimagery © First Base Solutions, 2016.

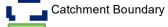


165620165 REVA Prepared by LMF on 2019-10-11

**SEASONS AT THE CREEK CATCHMENT ALTERNATIVE 3 - PUMP AND OUTLET IMPROVEMENTS** 







**Existing SWM Facility** 

**→** Railway

→ Municipal Drains

**Existing Storm Sewers** 

Overland Flow Direction

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5 m

Outfalls



1:5,500 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Orthoimagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

165620165 REVA Prepared by LMF on 2019-10-16

Client/Project LAKESHORE SWMP

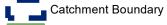
Figure No.

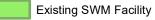
6.7.1

**BELLE RIVER WEST ALTERNATIVE 1 - DO NOTHING** 









Proposed SWM Facility

**→** Railway

→ Municipal Drains

**Existing Storm Sewers** 

Proposed Storm Sewer

Overland Flow Direction

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5 m

Outfalls



1:6,000 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Orthoimagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

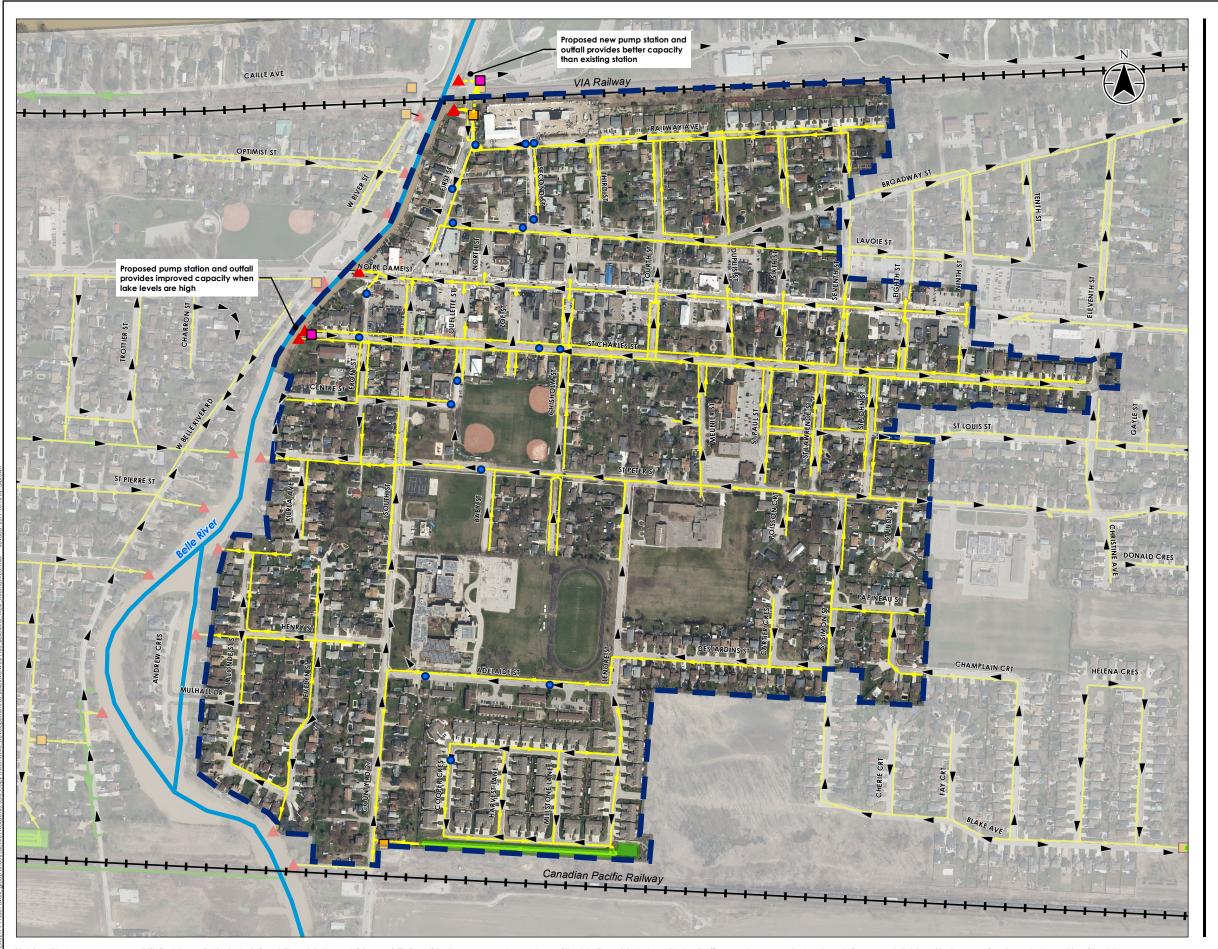
165620165 REVA Prepared by LMF on 2019-10-16

Client/Project LAKESHORE SWMP

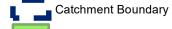
Figure No.

### 6.7.2

**BELLE RIVER WEST ALTERNATIVE 2 - STORMWATER STORAGE** 







Existing SWM Facility

**→** Railway

→ Municipal Drains

**Existing Storm Sewers** 

Proposed Storm Sewer

Overland Flow Direction

Storm Pump Stations

Proposed Pump Station

Localized Ponding > 0.3 m and < 0.5 m

Outfalls



1:6,000 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry @ Queen's Printer for Ontario, 2017.

3. Orthoimagery @ First Base Solutions, 2016.



Project Location Town of Lakeshore

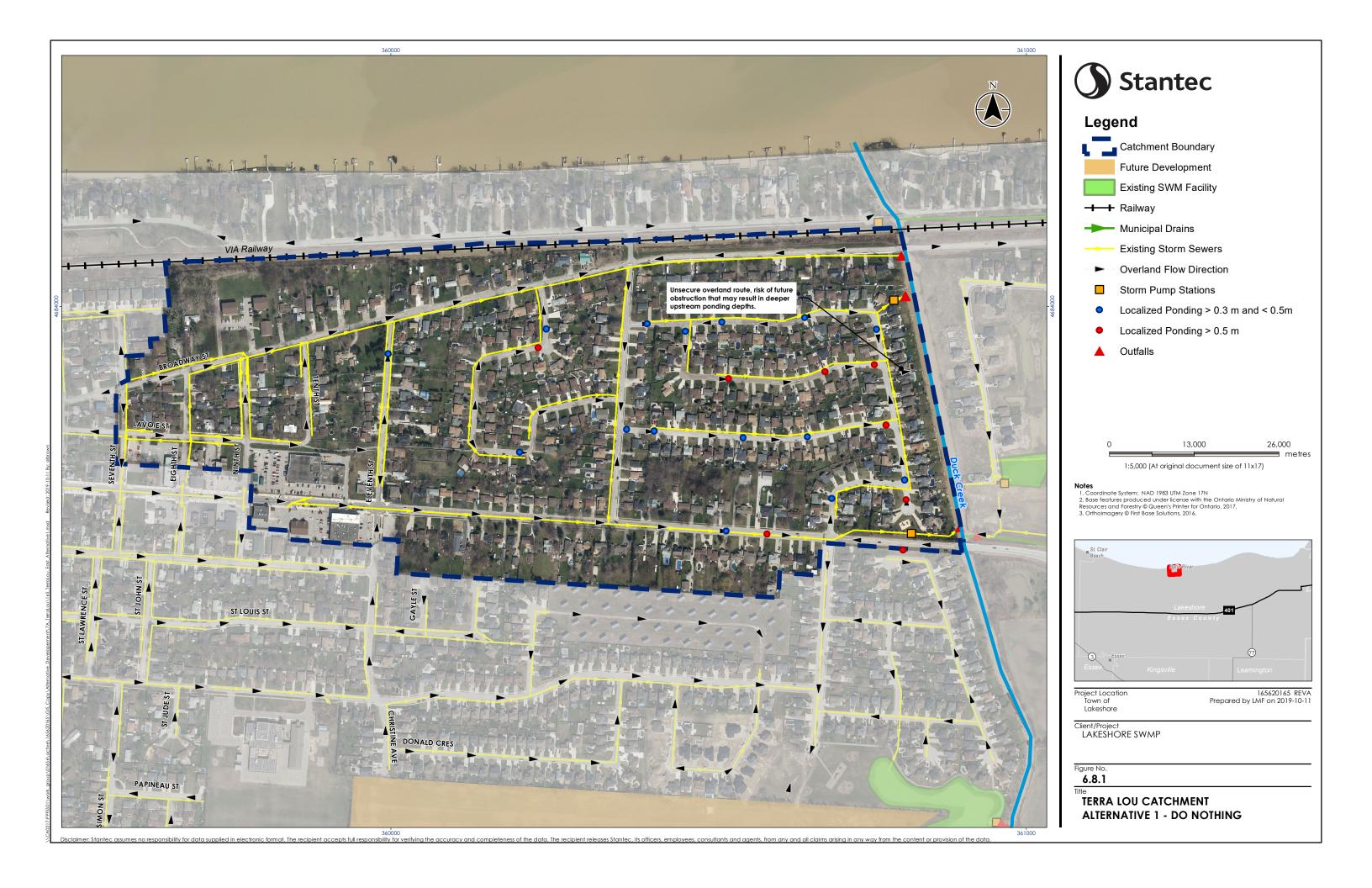
165620165 REVA Prepared by LMF on 2019-10-16

Client/Project LAKESHORE SWMP

Figure No.

6.7.3

**BELLE RIVER WEST ALTERNATIVE 3 - NEW PUMP STATION** 









Catchment Boundary

Future Development

Existing SWM Facility

**→** Railway

Municipal Drains

Existing Storm Sewers

► Overland Flow Direction

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5m

Localized Ponding > 0.5 m

Outfalls

13,000 26,000 ■ metres

1:6,000 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Ortholmagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

165620165 REVA Prepared by LMF on 2019-10-11

Client/Project LAKESHORE SWMP

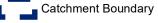
Figure No.

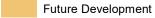
6.9.1

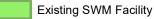
BACON/FOREST HILL CATCHMENT **ALTERNATIVE 1 - DO NOTHING** 



# **Stantec**







Existing Storm Sewers

► Overland Flow Direction

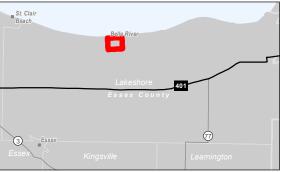
Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5m

Localized Ponding > 0.5 m



1:6,000 (At original document size of 11x17)



165620165 REVA Prepared by LMF on 2019-10-11

BACON/FOREST HILL CATCHMENT **ALTERNATIVE 2 - POND EXPANSION** 





Catchment Boundary

Future Development

**Existing SWM Facility** 

**→** Railway

Municipal Drains

Existing Storm Sewers

Proposed Storm Sewers

Overland Flow Direction

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5m

Localized Ponding > 0.5 m

Outfalls

26,000 ■ metres

1:6,000 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry @ Queen's Printer for Ontario, 2017.

3. Orthoimagery @ First Base Solutions, 2016.

Belle I

165620165 REVA Prepared by LMF on 2019-10-11

BACON/FOREST HILL CATCHMENT **ALTERNATIVE 3 - INCREASE SWM** POND RELEASE RATE





Catchment Boundary

Future Development

**Existing SWM Facility** 

**─** Railway

→ Municipal Drains

**Existing Storm Sewers** 

- Overland Flow Direction

Municipal Pump Stations

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5 m

Localized Ponding > 0.5 m

Outfalls

26,000 metres

1:5,770 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Orthoimagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

165620165 REVA Prepared by LMF on 2022-03-24

Client/Project LAKESHORE SWMP

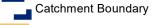
Figure No.

### 6.10.1

**RUSSELL WOODS CATCHMENT ALTERNATIVE 1 - DO NOTHING** 









**→** Railway

Municipal Drains

**Existing Storm Sewers** 

Overland Flow Direction

Municipal Pump Stations

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5 m

Localized Ponding > 0.5 m

Outfalls



1:6,000 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Orthoimagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

165620165 REVA Prepared by LMF on 2022-03-24

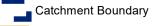
Client/Project LAKESHORE SWMP

### 6.10.2

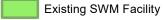
**RUSSELL WOODS CATCHMENT ALTERNATIVE 2 - PUMP STATION IMPROVEMENTS** 







Future Development



Proposed Easement

**→** Railway

Municipal Drains

Existing Storm Sewers

Overland Flow Direction

Municipal Pump Stations

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5 m

Localized Ponding > 0.5 m

Outfalls



1:6,000 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Orthoimagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

165620165 REVA Prepared by LMF on 2022-03-24

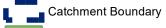
Client/Project LAKESHORE SWMP

### 6.10.3

**RUSSELL WOODS CATCHMENT ALTERNATIVE 3 - NEW PUMP STATION** 







Existing SWM Facility

**→** Railway

→ Municipal Drains

**Existing Storm Sewers** 

Overland Flow Direction

Storm Pump Stations

Municipal Pump Stations

Localized Ponding > 0.3 m and < 0.5 m

Localized Ponding > 0.5 m

Outfalls



1:5,500 (At original document size of 11x17)

- NOTES

  1. Coordinate System: NAD 1983 UTM Zone 17N

  2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

  3. Orthoimagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

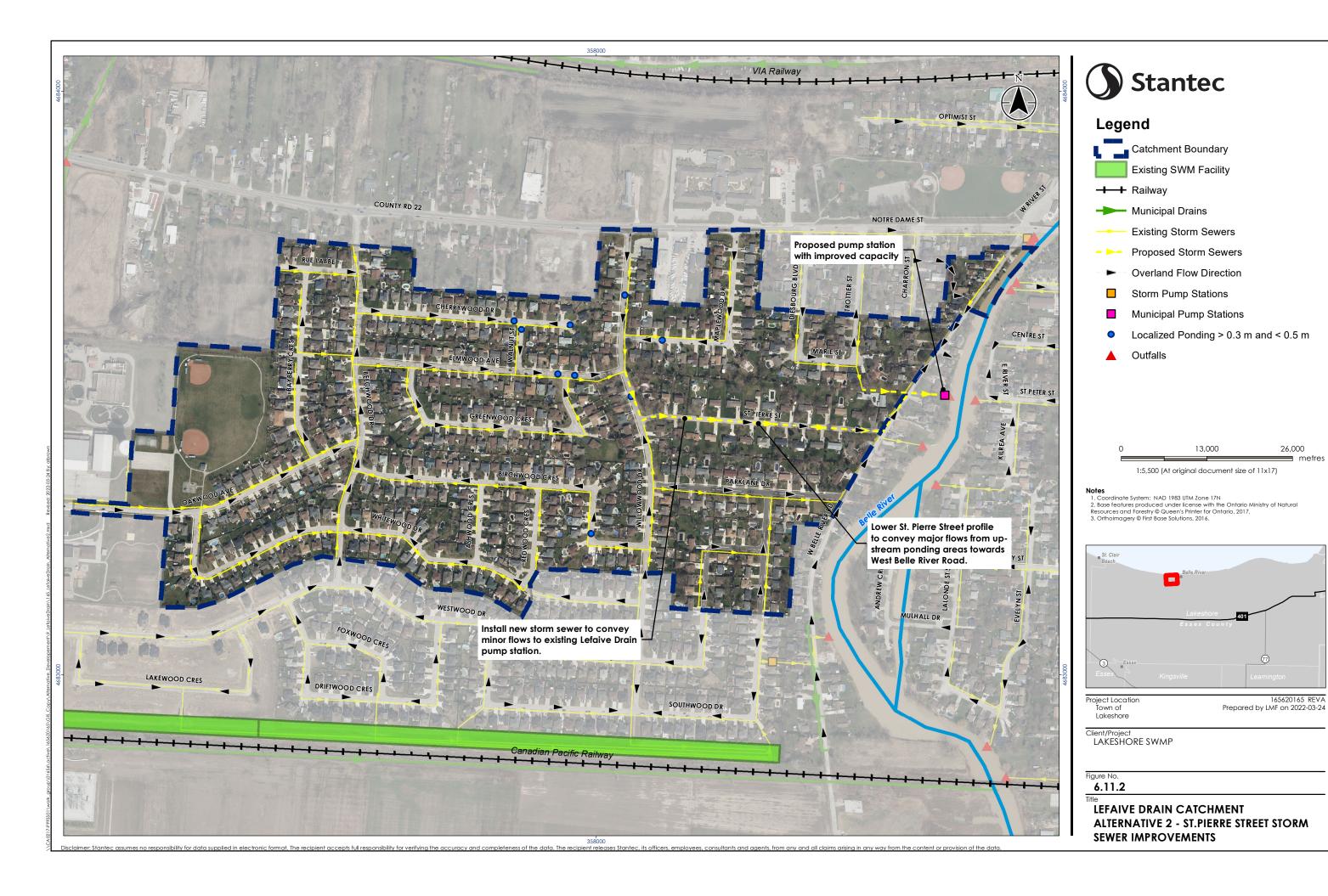
165620165 REVA Prepared by LMF on 2022-03-24

Client/Project LAKESHORE SWMP

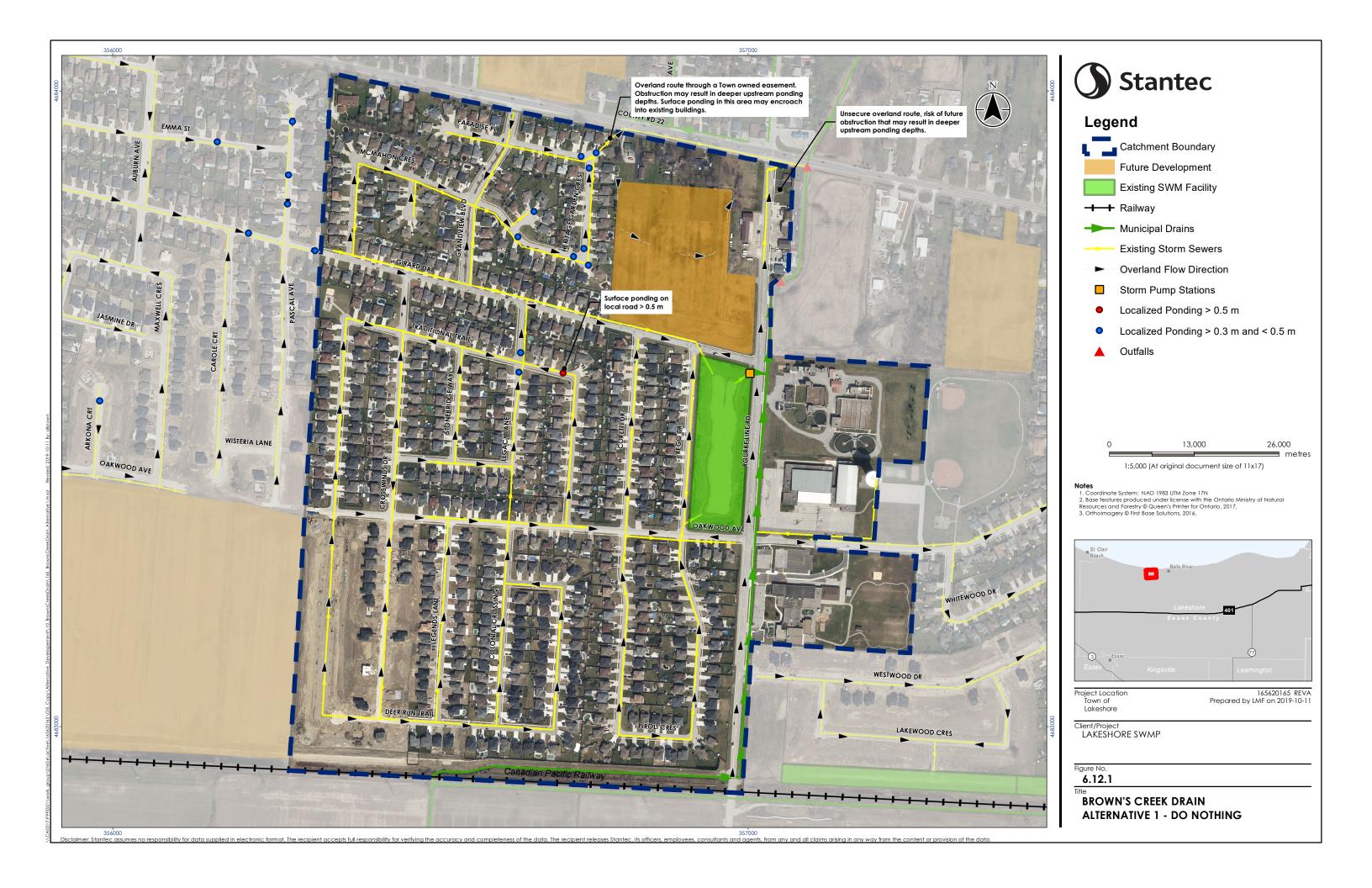
Figure No.

6.11.1

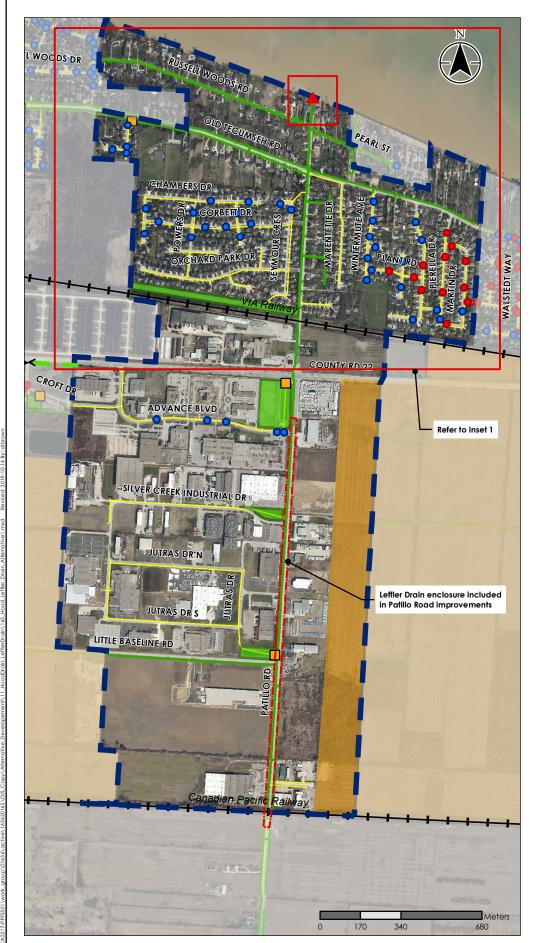
LEFAIVE DRAIN CATCHMENT **ALTERNATIVE 1 - DO NOTHING** 



26,000













Catchment Boundary

**Future Development** 

**Existing SWM Facility** 

**→** Railway

Municipal Drains

**Existing Storm Sewers** 

Road Improvements and Drain Enclosure Limit

Storm Pump Stations

Localized ponding > 0.3 m and < 0.5 m

Localized ponding > 0.5 m

Outfalls

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Orthoimagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

165620165 REVA Prepared by LMF on 2019-10-16

Client/Project LAKESHORE SWMP

Figure No.

### 6.13.1

LEFFLER/HOOD DRAIN CATCHMENT **ALTERNATIVE 1 - DO NOTHING** 





Catchment Boundary

Future Development

Solution 1: Regional Pond **Existing SWM Facility** 

**→** Railway

**Existing Storm Sewers** 

Overland Flow Direction

Municipal Pump Stations

Regional Pump Station

Localized ponding > 0.3 m and < 0.5 m

Localized Ponding > 0.5 m

Outfalls



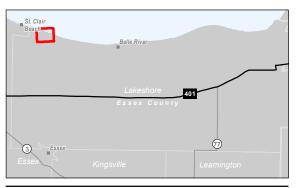
1:7,000 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Orthoirnagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

165620165 REVA Prepared by LMF on 2019-10-16

Client/Project LAKESHORE SWMP

### 6.13.2

LEFFLER/HOOD DRAIN CATCHMENT **ALTERNATIVE 2 - REGIONAL POND AT COUNTY ROAD 22** 





Catchment Boundary

Future Development

**Existing SWM Facility** 

**→** Railway

Storm Sewers

- Overland Flow Direction
- Municipal Pump Stations
- Regional Pump Station
- Localized ponding > 0.3 m and < 0.5 m
- Localized Ponding > 0.5 m
- Outfalls



1:7,000 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Orthoirnagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

165620165 REVA Prepared by LMF on 2019-10-16

Client/Project LAKESHORE SWMP

Figure No.

### 6.13.3

LEFFLER/HOOD DRAIN CATCHMENT **ALTERNATIVE 3 - LEFFLER DRAIN PUMP** STATION: PUMP REPLACEMENT





Catchment Boundary

Future Development

**Existing SWM Facility** 

**→** Railway

Storm Sewers

- Overland Flow Direction
- Municipal Pump Stations
- Regional Pump Station
- Localized ponding > 0.3 m and < 0.5 m
- Localized Ponding > 0.5 m
- Outfalls



1:7,000 (At original document size of 11x17)

- NOTES

  1. Coordinate System: NAD 1983 UTM Zone 17N

  2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

  3. Orthoirnagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

165620165 REVA Prepared by LMF on 2019-10-16

Client/Project LAKESHORE SWMP

Figure No.

### 6.13.4

LEFFLER/HOOD DRAIN CATCHMENT **ALTERNATIVE 4 - LEFFLER DRAIN PUMP** STATION: PTO UPGRADE





Catchment Boundary

Future Development

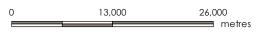
**Existing SWM Facility** 

Magna SWM Pond

**─** Railway

Storm Sewers

- Overland Flow Direction
- Municipal Pump Stations
- Regional Pump Station
- Localized ponding > 0.3 m and < 0.5 m
- Localized Ponding > 0.5 m
- Outfalls



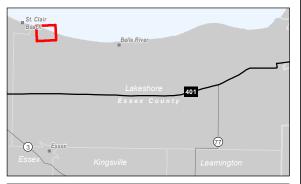
1:8,000 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Orthoimagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

165620165 REVA Prepared by LMF on 2019-10-16

Client/Project LAKESHORE SWMP

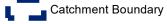
Figure No.

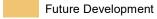
### 6.13.5

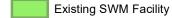
LEFFLER/HOOD DRAIN CATCHMENT **ALTERNATIVE 5 - MAGNA SWM POND IMPROVEMENTS** 











**→** Railway

→ Municipal Drains

**Existing Storm Sewers** 

► Overland Flow Direction

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5 m

Localized Ponding > 0.5 m

Outfalls



1:3,500 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Orthoimagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

165620165 REVA Prepared by LMF on 2019-10-18

Client/Project LAKESHORE SWMP

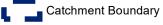
Figure No.

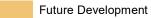
6.14.1

**COUNTRY WALK CATCHMENT ALTERNATIVE 1 - DO NOTHING** 









**→** Railway

Municipal Drains

**Existing Storm Sewers** 

Overland Flow Direction

Storm Pump Stations

Localized Ponding > 0.3 m and < 0.5 m

Localized Ponding > 0.5 m

Outfalls



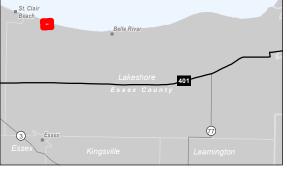
1:3,500 (At original document size of 11x17)

NOTES

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.

3. Orthoirnagery © First Base Solutions, 2016.



Project Location Town of Lakeshore

165620165 REVA Prepared by LMF on 2019-10-11

Client/Project LAKESHORE SWMP

Figure No.

### 6.14.2

**COUNTRY WALK CATCHMENT ALTERNATIVE 2 - POND IMPROVEMENTS**