# Appendix K

# Remnant Channel Alternative Assessment


LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- FURTHER ASSESSMENT REQUIRED

SCALE VALID ONLY FOR 24"x36" VERSION

# OAKVILLE STORM SEWER MASTER PLAN PHASE II
TOWN OF OAKVILLE

## 100 YEAR STORM EVENT REMNANT CHANNEL PROPERTIES FOR FURTHER ASSESSMENT
(EXISTING CONDITIONS)

wood.

Scale 1:750 (0, 7.5, 15, 30)

Consultant File No. TP115045

Figure No. RC-1

Plotted: 2019-09-05
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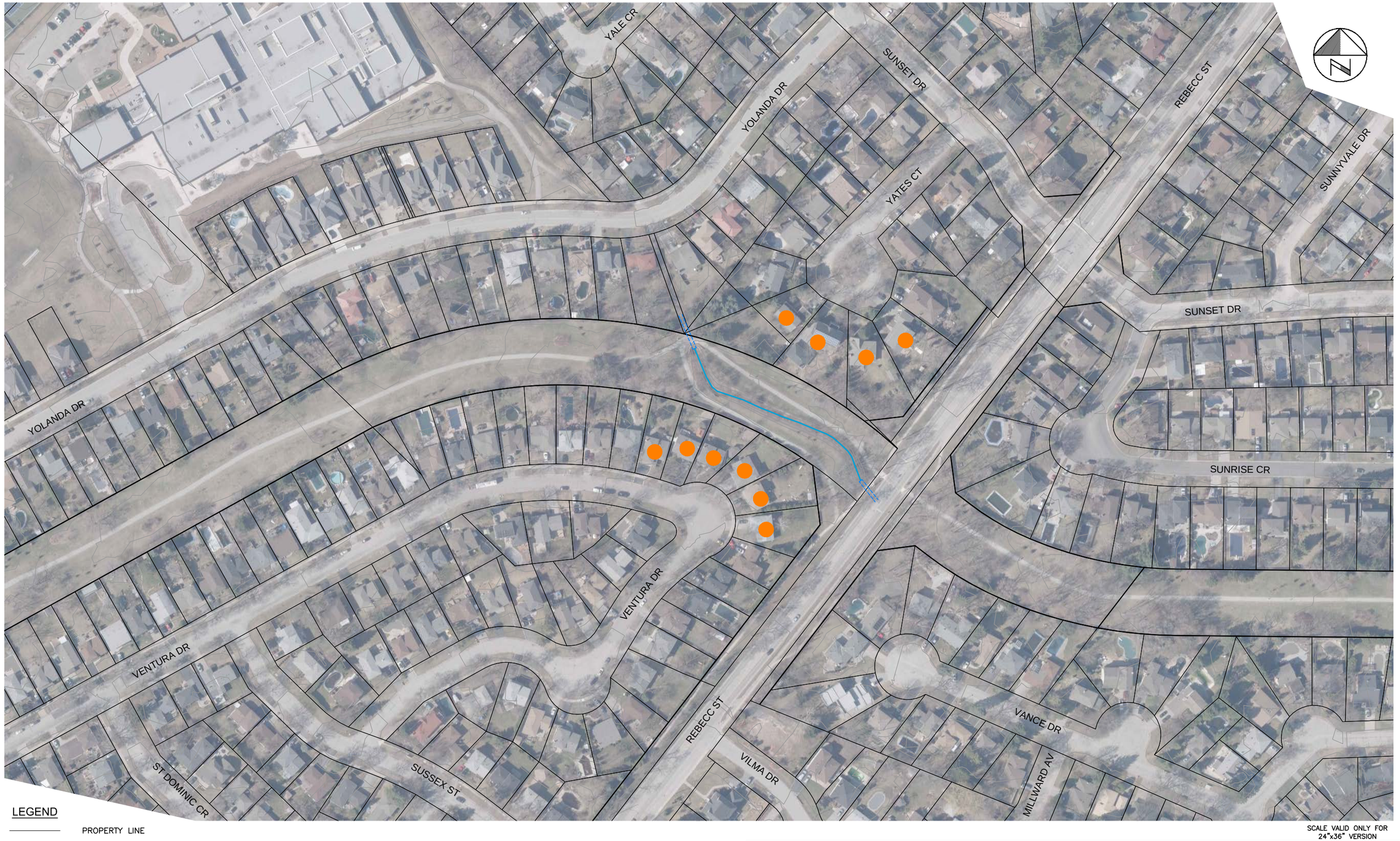


LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- FURTHER ASSESSMENT REQUIRED

SCALE VALID ONLY FOR 24"x36" VERSION

| | | | |
|---|---|---|---|
| OAKVILLE STORM SEWER MASTER PLAN PHASE II TOWN OF OAKVILLE | 100 YEAR STORM EVENT REMNANT CHANNEL PROPERTIES FOR FURTHER ASSESSMENT (EXISTING CONDITIONS) | wood. | Scale 1:1000 (0 10 20 40) Consultant File No. TP115045 Figure No. RC-2 |

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LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- FURTHER ASSESSMENT REQUIRED

SCALE VALID ONLY FOR 24"x36" VERSION

| | | | |
|---|---|---|---|
| OAKVILLE STORM SEWER MASTER PLAN PHASE II TOWN OF OAKVILLE | 100 YEAR STORM EVENT REMNANT CHANNEL PROPERTIES FOR FURTHER ASSESSMENT (EXISTING CONDITIONS) | wood. | Scale 1:1250 (0, 12.5, 25, 50) Consultant File No. TP115045 Figure No. RC-3 |

Path: P:\Work\TP115045\Water\Dwg\2019-09 (SWM)\FigRC-PropImpacts.dwg
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LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- FURTHER ASSESSMENT REQUIRED

SCALE VALID ONLY FOR 24"x36" VERSION

| | | | |
|---|---|---|---|
| OAKVILLE STORM SEWER MASTER PLAN PHASE II TOWN OF OAKVILLE | 100 YEAR STORM EVENT REMNANT CHANNEL PROPERTIES FOR FURTHER ASSESSMENT (EXISTING CONDITIONS) | wood. | Scale 1:1250 (0, 12.5, 25, 50)<br>Consultant File No. TP115045<br>Figure No. RC-4 |

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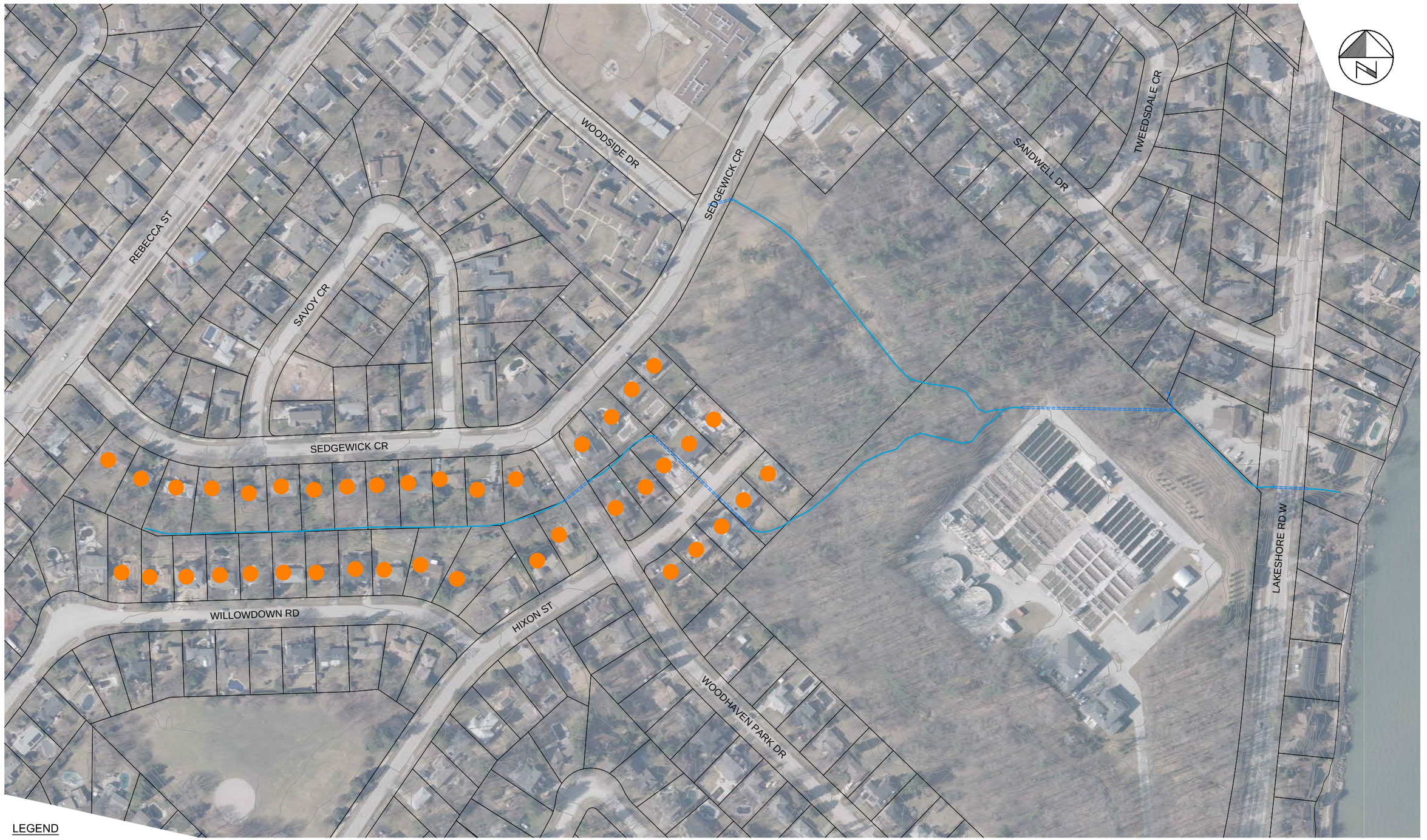


LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- FURTHER ASSESSMENT REQUIRED

SCALE VALID ONLY FOR 24"x36" VERSION

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|---|---|---|---|
| OAKVILLE STORM SEWER MASTER PLAN PHASE II TOWN OF OAKVILLE | 100 YEAR STORM EVENT REMNANT CHANNEL PROPERTIES FOR FURTHER ASSESSMENT (EXISTING CONDITIONS) | wood. | Scale 1:1250 (0, 12.5, 25, 50) |
| | | | Consultant File No. TP115045 |
| | | | Figure No. RC-5 |

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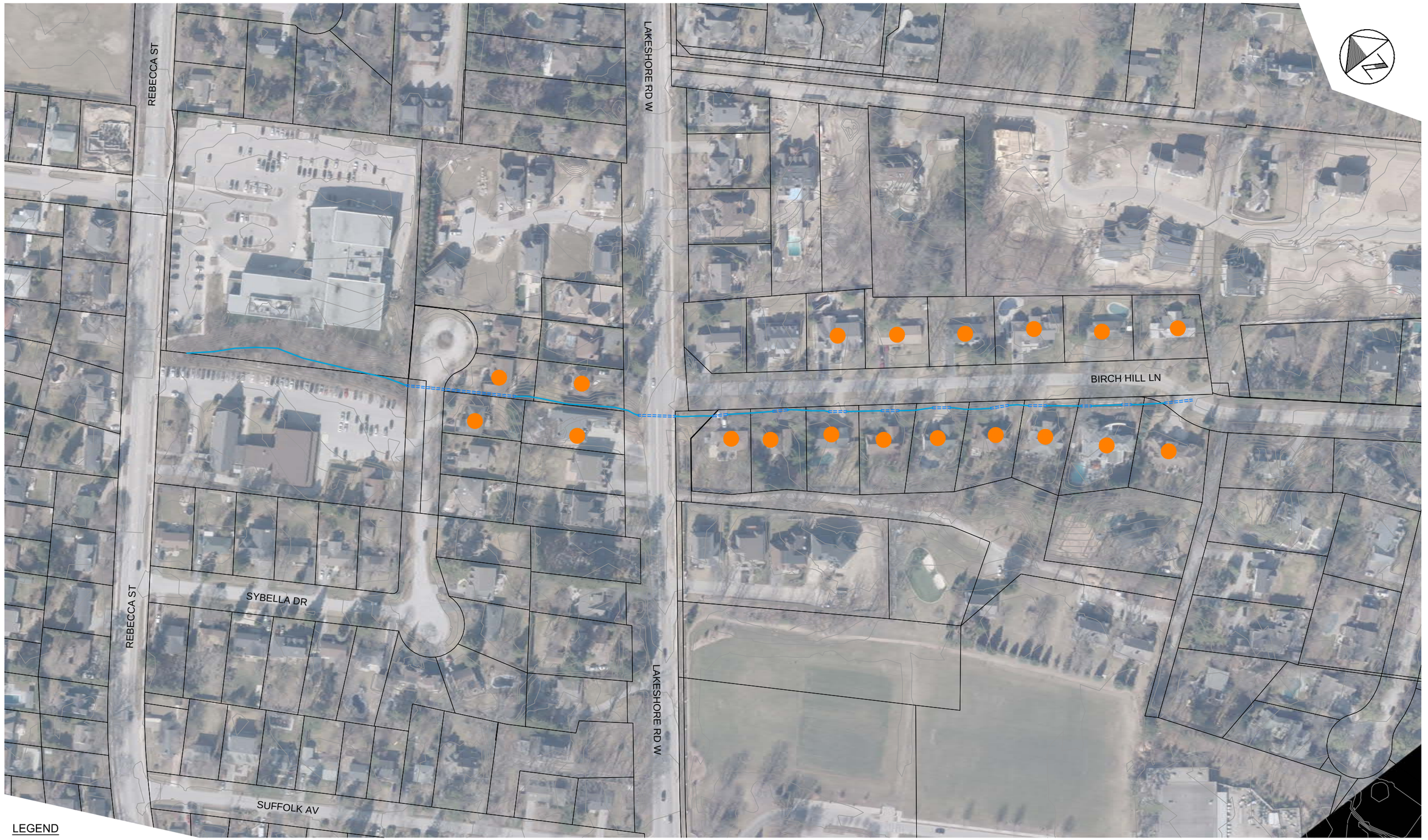


LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- FURTHER ASSESSMENT REQUIRED

SCALE VALID ONLY FOR 24"x36" VERSION

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|---|---|---|---|
| OAKVILLE STORM SEWER MASTER PLAN PHASE II TOWN OF OAKVILLE | 100 YEAR STORM EVENT REMNANT CHANNEL PROPERTIES FOR FURTHER ASSESSMENT (EXISTING CONDITIONS) | wood. | Scale 1:1000 (0 10 20 40)<br>Consultant File No. TP115045<br>Figure No. RC-6 |

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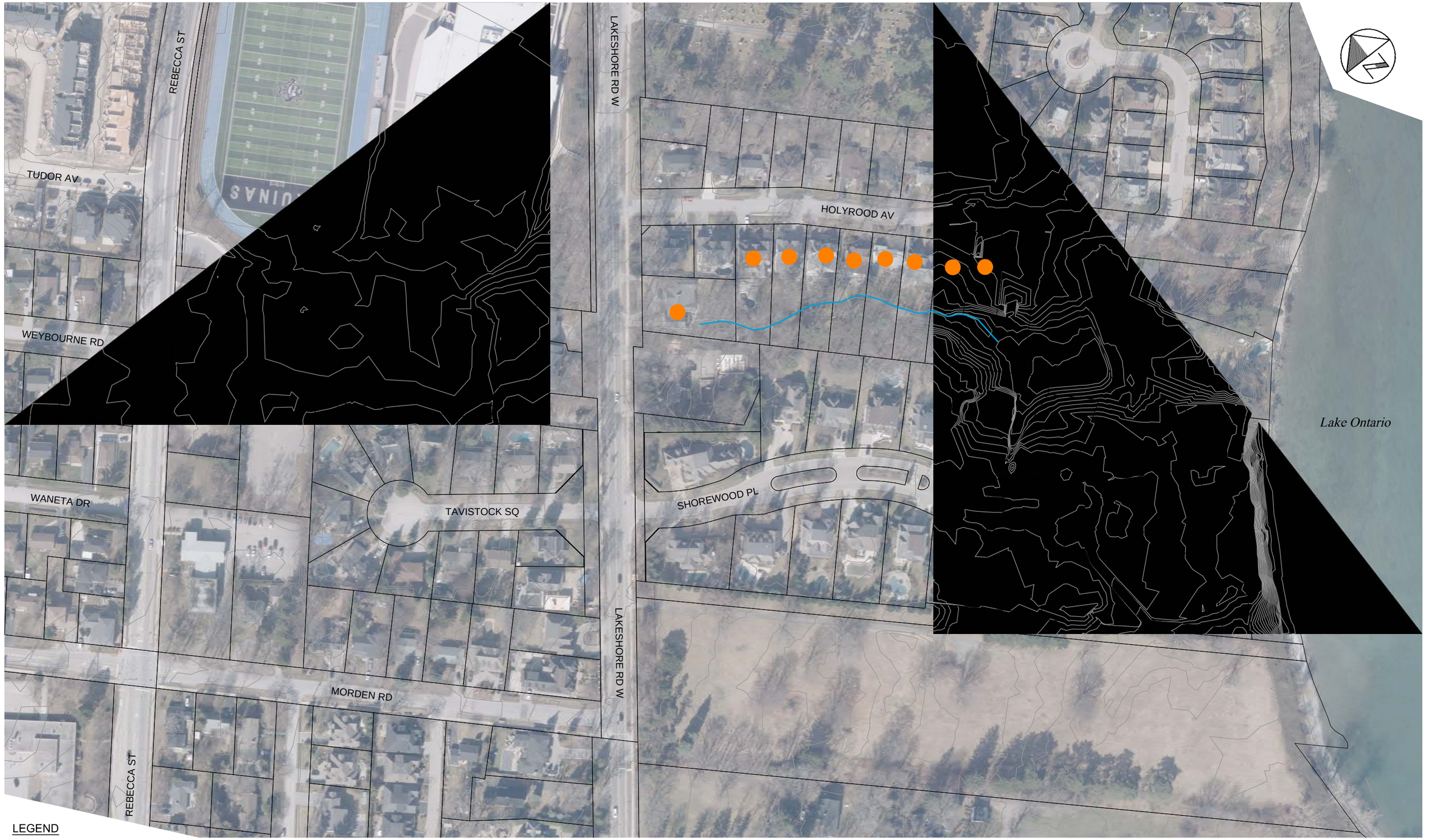


LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- FURTHER ASSESSMENT REQUIRED

SCALE VALID ONLY FOR 24"x36" VERSION

OAKVILLE STORM SEWER MASTER PLAN
PHASE II
TOWN OF OAKVILLE

100 YEAR STORM EVENT
REMNANT CHANNEL
PROPERTIES FOR FURTHER ASSESSMENT
(EXISTING CONDITIONS)

wood.

Scale 1:1000 (0 10 20 40)
Consultant File No. TP115045
Figure No. RC-7

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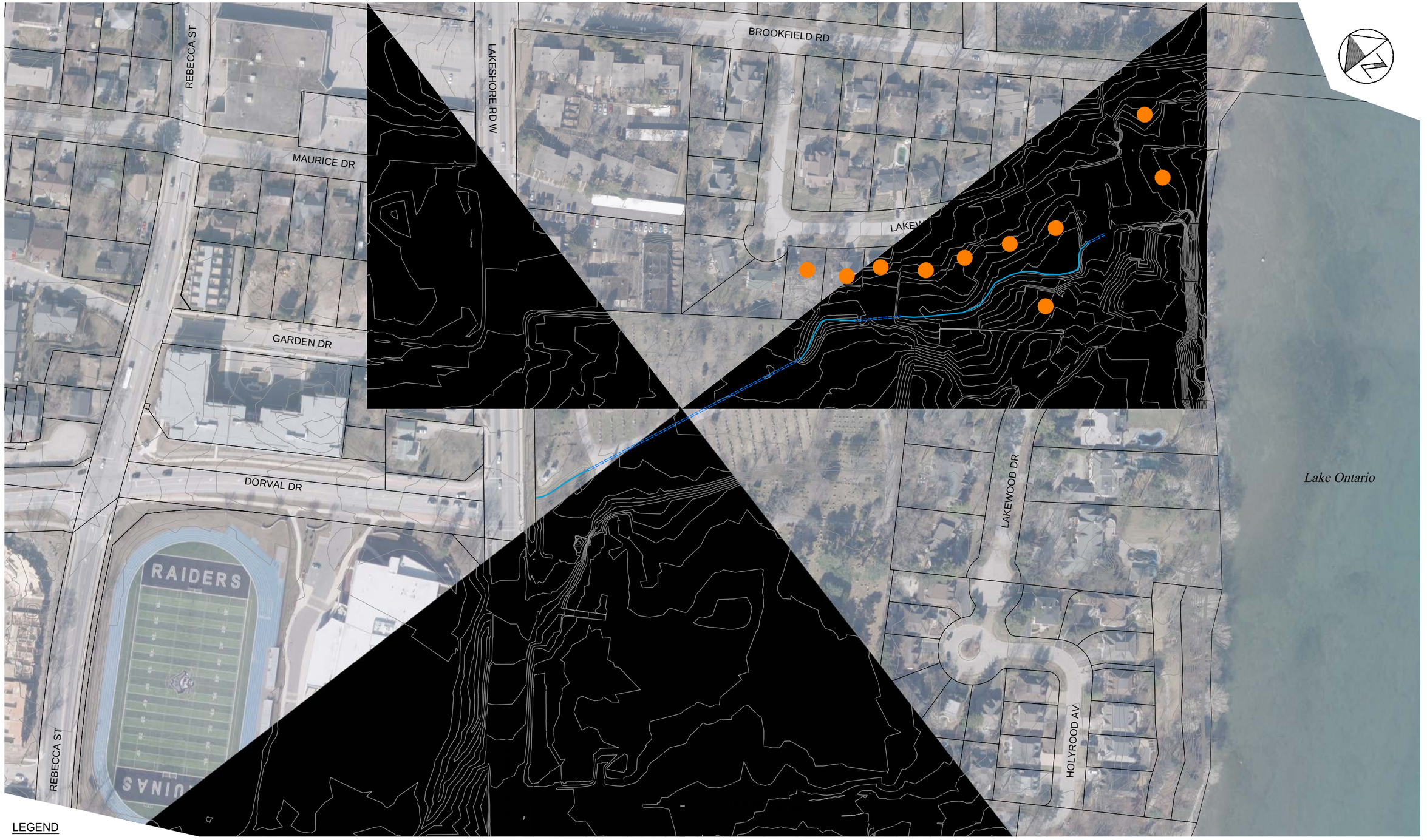


LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- FURTHER ASSESSMENT REQUIRED

SCALE VALID ONLY FOR 24"x36" VERSION

# OAKVILLE STORM SEWER MASTER PLAN PHASE II
TOWN OF OAKVILLE

## 100 YEAR STORM EVENT REMNANT CHANNEL PROPERTIES FOR FURTHER ASSESSMENT
(EXISTING CONDITIONS)

wood.

Scale 1:1000 (0 10 20 40)

Consultant File No. TP115045

Figure No. RC-8

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LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- FURTHER ASSESSMENT REQUIRED

SCALE VALID ONLY FOR 24"x36" VERSION

OAKVILLE STORM SEWER MASTER PLAN
PHASE II
TOWN OF OAKVILLE

100 YEAR STORM EVENT
REMNANT CHANNEL
PROPERTIES FOR FURTHER ASSESSMENT
(EXISTING CONDITIONS)

wood.

Scale 1:750
0 7.5 15 30

Consultant File No.
TP115045

Figure No.
RC-9

Path: P:\Work\TP115045\Water\Dwg\2019-09 (SWM)\FigRC-PropImpacts.dwg
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LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- REMNANT CHANNEL FLOW LIMIT

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Path: P:\Work\TP115045\Water\Dwg\2019-09 (SWM)\Fig RC-FlowLimits.dwg

SCALE VALID ONLY FOR 24"x36" VERSION

# OAKVILLE STORM SEWER MASTER PLAN PHASE II

TOWN OF OAKVILLE

## 100 YEAR STORM EVENT REMNANT CHANNEL FLOW LIMITS

(EXISTING CONDITIONS)

wood.

Scale 1:750
0 7.5 15 30

Consultant File No.
TP115045

Figure No.
RC-FL-1


LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- REMNANT CHANNEL FLOW LIMIT

SCALE VALID ONLY FOR 24"x36" VERSION

| | | | |
|---|---|---|---|
| OAKVILLE STORM SEWER MASTER PLAN PHASE II<br>TOWN OF OAKVILLE | 100 YEAR STORM EVENT REMNANT CHANNEL FLOW LIMITS<br>(EXISTING CONDITIONS) | wood. | Scale 1:1000 (0 10 20 40)<br>Consultant File No. TP115045<br>Figure No. RC-FL-2 |

Plotted: 2019-09-05
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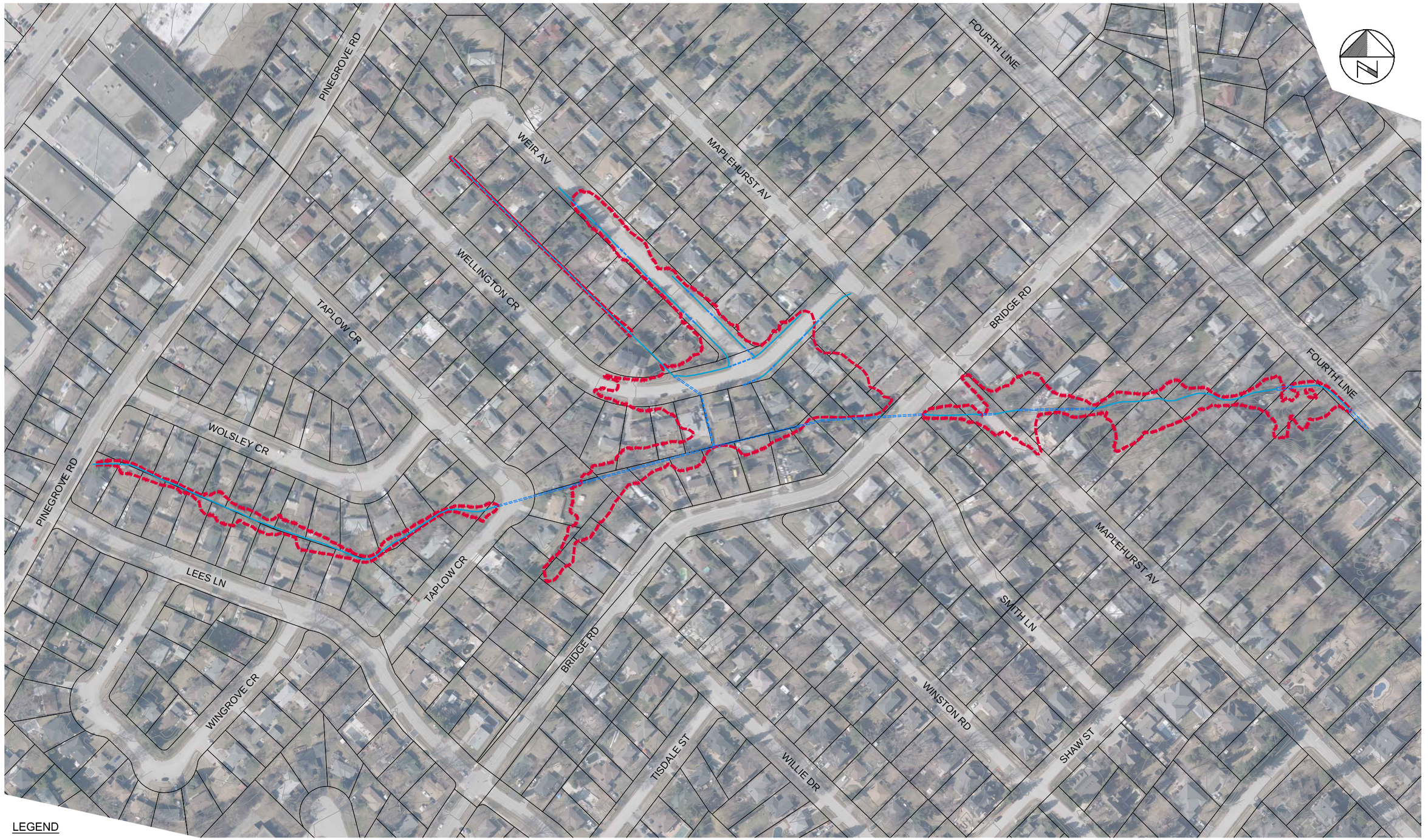


LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- REMNANT CHANNEL FLOW LIMIT

SCALE VALID ONLY FOR 24"x36" VERSION

| | | | |
|---|---|---|---|
| OAKVILLE STORM SEWER MASTER PLAN PHASE II TOWN OF OAKVILLE | 100 YEAR STORM EVENT REMNANT CHANNEL FLOW LIMITS (EXISTING CONDITIONS) | wood. | Scale 1:1250 (0, 12.5, 25, 50)<br>Consultant File No. TP115045<br>Figure No. RC-FL-3 |

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TRACINA DR
VENETIA DR
VENETIA DR
SPENCER RD
SALVADOR BD
THIRD LINE
LAKESHORE RD W
BELVEDERE DR
OLD LAKESHORE RD
THORNLEA DR
SALMON RD
LAKESHORE RD W
MARINE DR
Lake Ontario

LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- REMNANT CHANNEL FLOW LIMIT

SCALE VALID ONLY FOR 24"x36" VERSION

# OAKVILLE STORM SEWER MASTER PLAN PHASE II
TOWN OF OAKVILLE

## 100 YEAR STORM EVENT REMNANT CHANNEL FLOW LIMITS
(EXISTING CONDITIONS)

wood.

Scale 1:1250
0 12.5 25 50

Consultant File No.
TP115045

Figure No.
RC-FL-4

Path: P:\Work\TP115045\Water\Dwg\2019-09 (SWM)\Fig RC-FlowLimits.dwg
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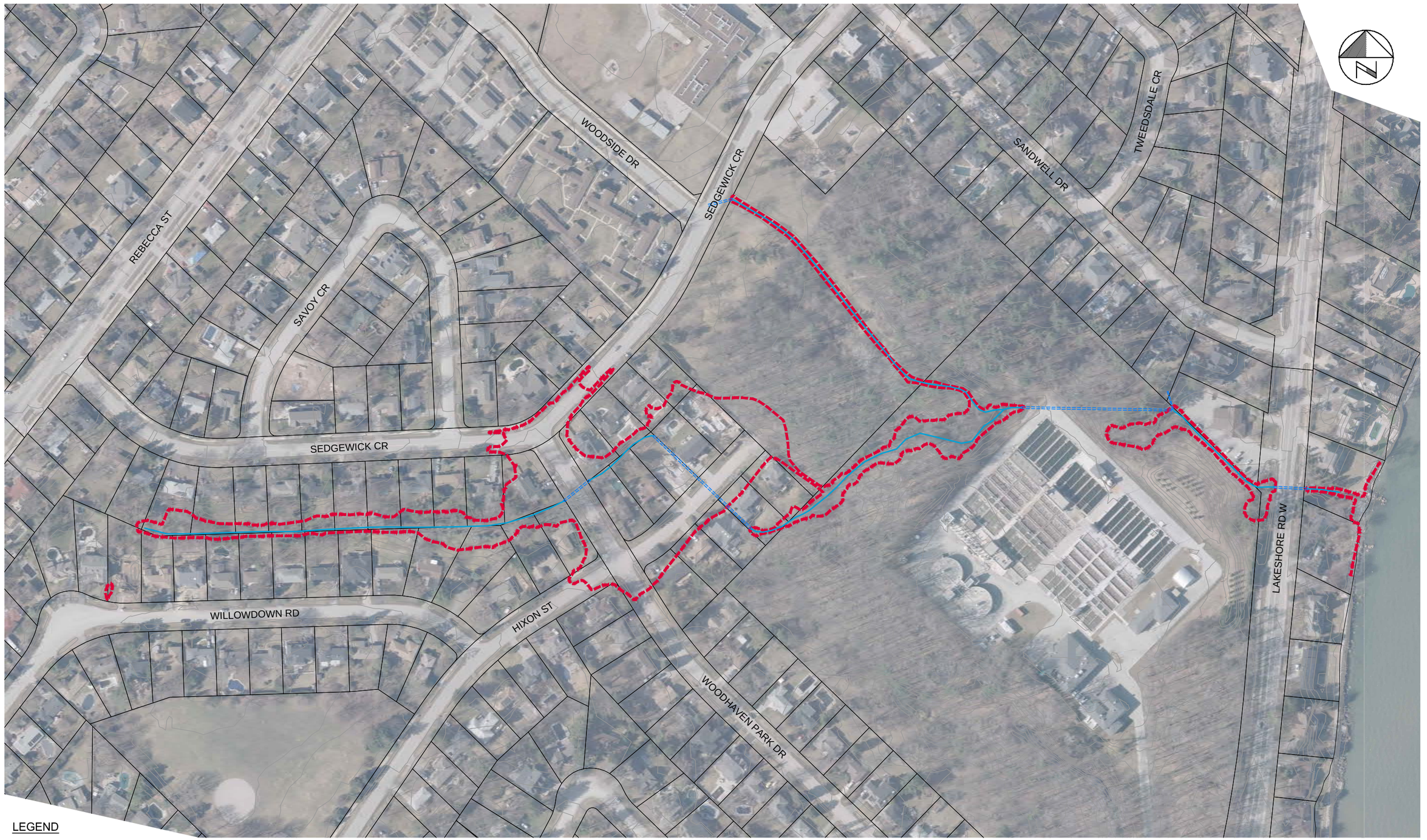


LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- REMNANT CHANNEL FLOW LIMIT

SCALE VALID ONLY FOR 24"x36" VERSION

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|---|---|---|---|
| OAKVILLE STORM SEWER MASTER PLAN PHASE II<br>TOWN OF OAKVILLE | 100 YEAR STORM EVENT REMNANT CHANNEL FLOW LIMITS<br>(EXISTING CONDITIONS) | wood. | Scale 1:1250 (0, 12.5, 25, 50)<br>Consultant File No. TP115045<br>Figure No. RC-FL-5 |

Plotted: 2019-09-05
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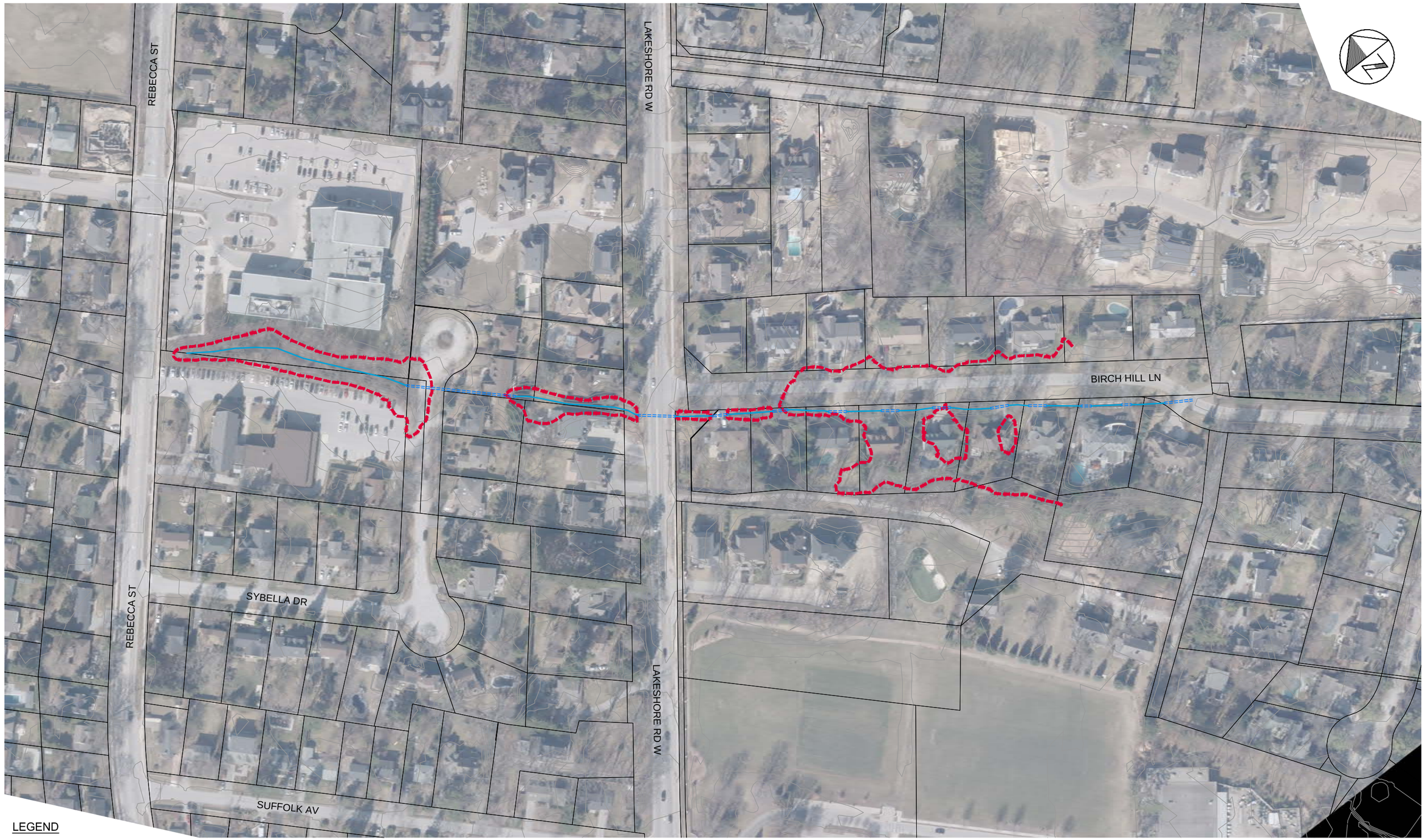


LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- REMNANT CHANNEL FLOW LIMIT

SCALE VALID ONLY FOR 24"x36" VERSION

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|---|---|---|---|
| OAKVILLE STORM SEWER MASTER PLAN PHASE II<br>TOWN OF OAKVILLE | 100 YEAR STORM EVENT REMNANT CHANNEL FLOW LIMITS<br>(EXISTING CONDITIONS) | wood. | Scale 1:1000 (0 10 20 40)<br>Consultant File No. TP115045<br>Figure No. RC-FL-6 |

Plotted: 2019-09-05
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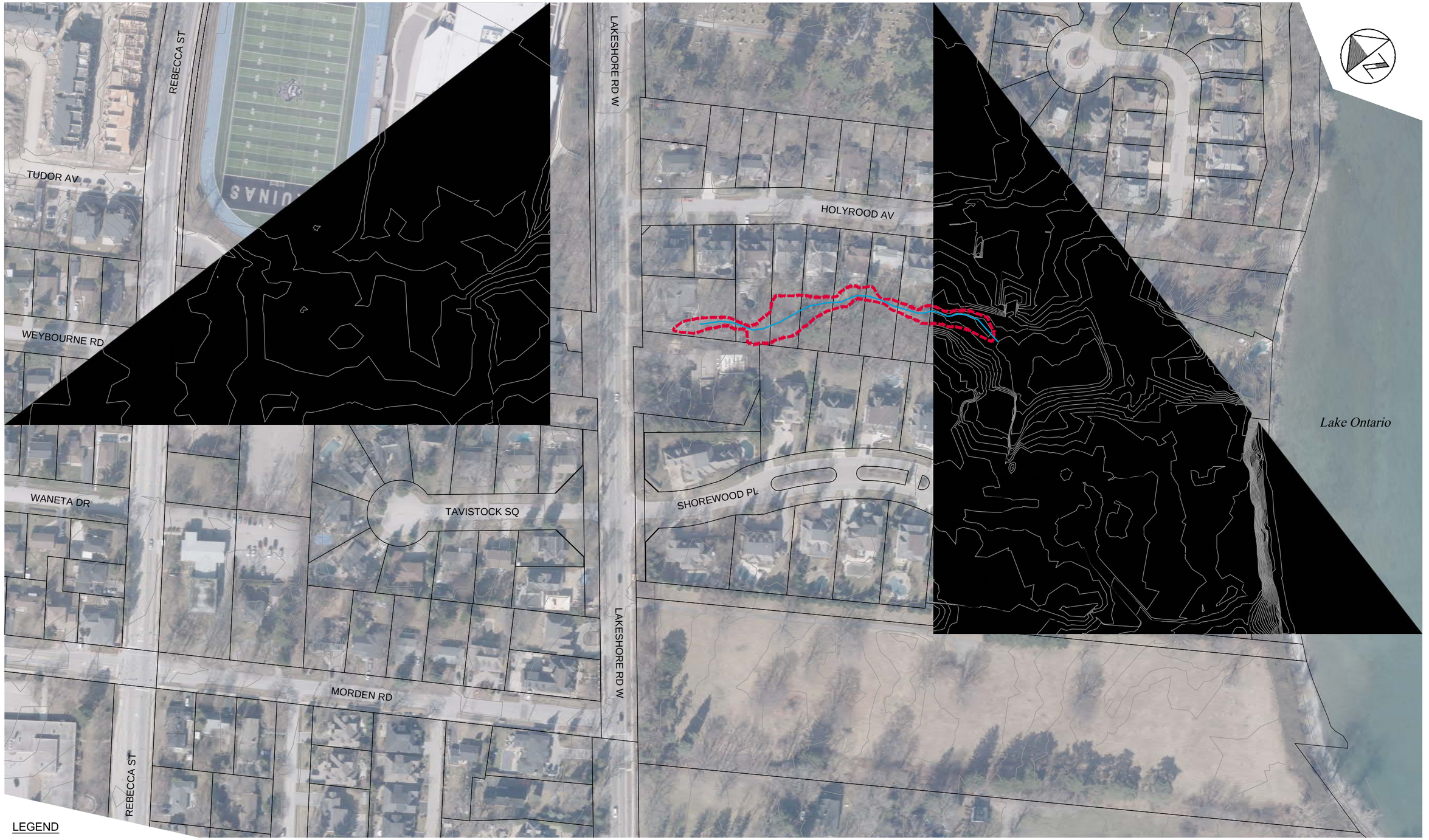


LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- REMNANT CHANNEL FLOW LIMIT

SCALE VALID ONLY FOR 24"x36" VERSION

| | | | |
|---|---|---|---|
| OAKVILLE STORM SEWER MASTER PLAN PHASE II TOWN OF OAKVILLE | 100 YEAR STORM EVENT REMNANT CHANNEL FLOW LIMITS (EXISTING CONDITIONS) | wood. | Scale 1:1000 (0 10 20 40) |
| | | | Consultant File No. TP115045 |
| | | | Figure No. RC-FL-7 |

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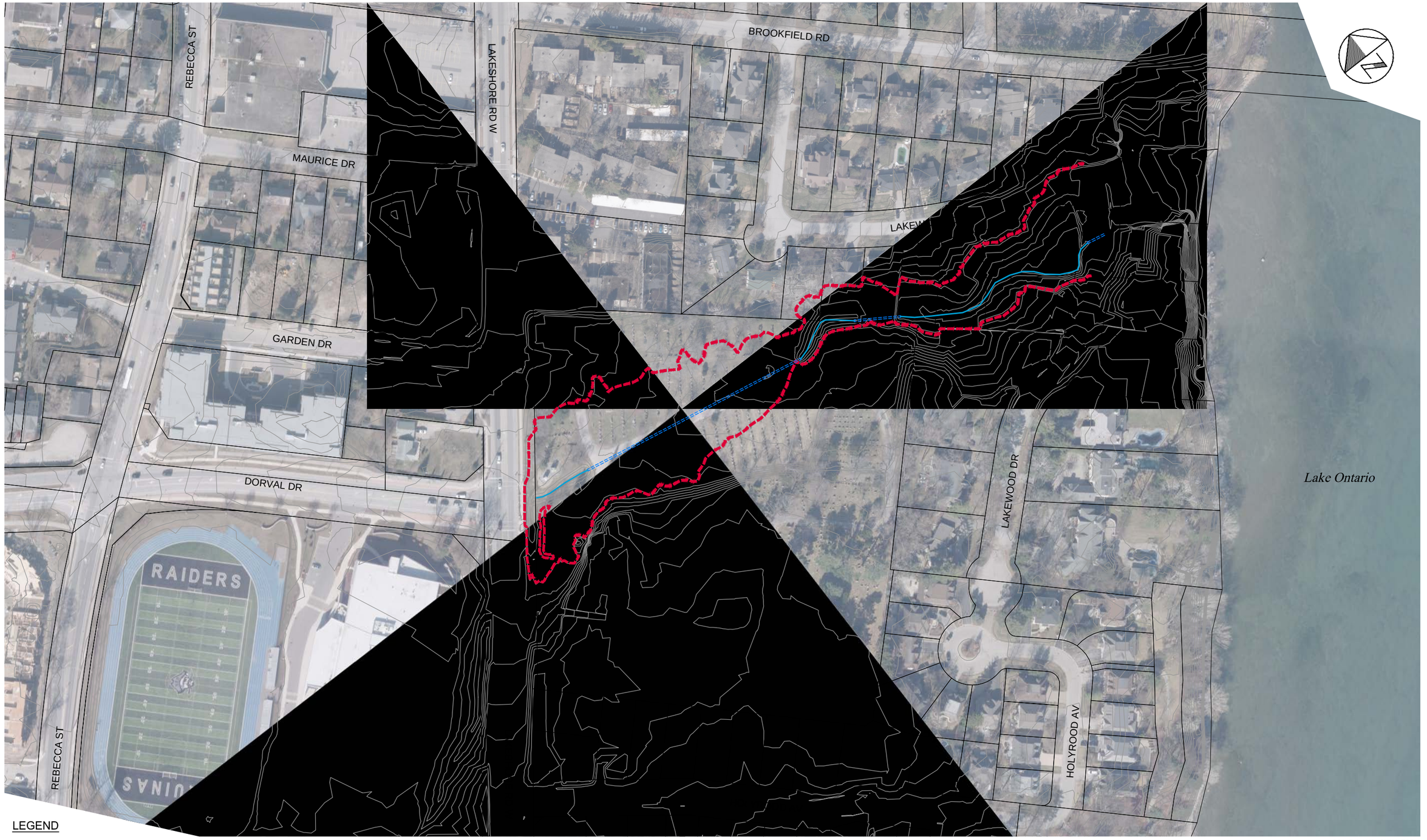


LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- REMNANT CHANNEL FLOW LIMIT

SCALE VALID ONLY FOR 24"x36" VERSION

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|---|---|---|---|
| OAKVILLE STORM SEWER MASTER PLAN PHASE II TOWN OF OAKVILLE | 100 YEAR STORM EVENT REMNANT CHANNEL FLOW LIMITS (EXISTING CONDITIONS) | wood. | Scale 1:1000 (0 10 20 40) |
| | | | Consultant File No. TP115045 |
| | | | Figure No. RC-FL-8 |

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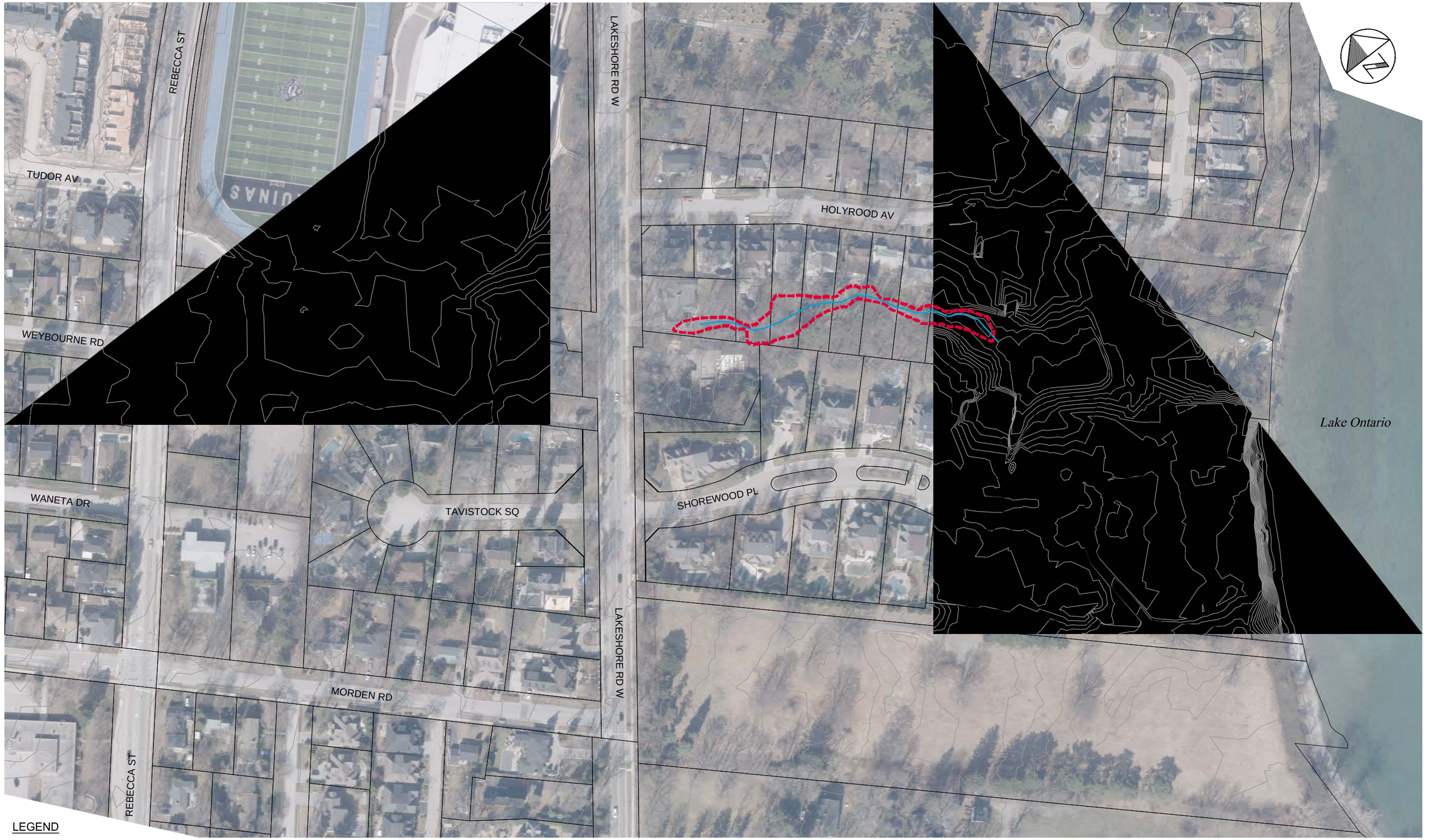


LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- REMNANT CHANNEL FLOW LIMIT

SCALE VALID ONLY FOR 24"x36" VERSION

| | | | |
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| OAKVILLE STORM SEWER MASTER PLAN PHASE II TOWN OF OAKVILLE | 100 YEAR STORM EVENT REMNANT CHANNEL FLOW LIMITS (EXISTING CONDITIONS) | wood. | Scale 1:1000 (0 10 20 40) |
| | | | Consultant File No. TP115045 |
| | | | Figure No. RC-FL-7 |

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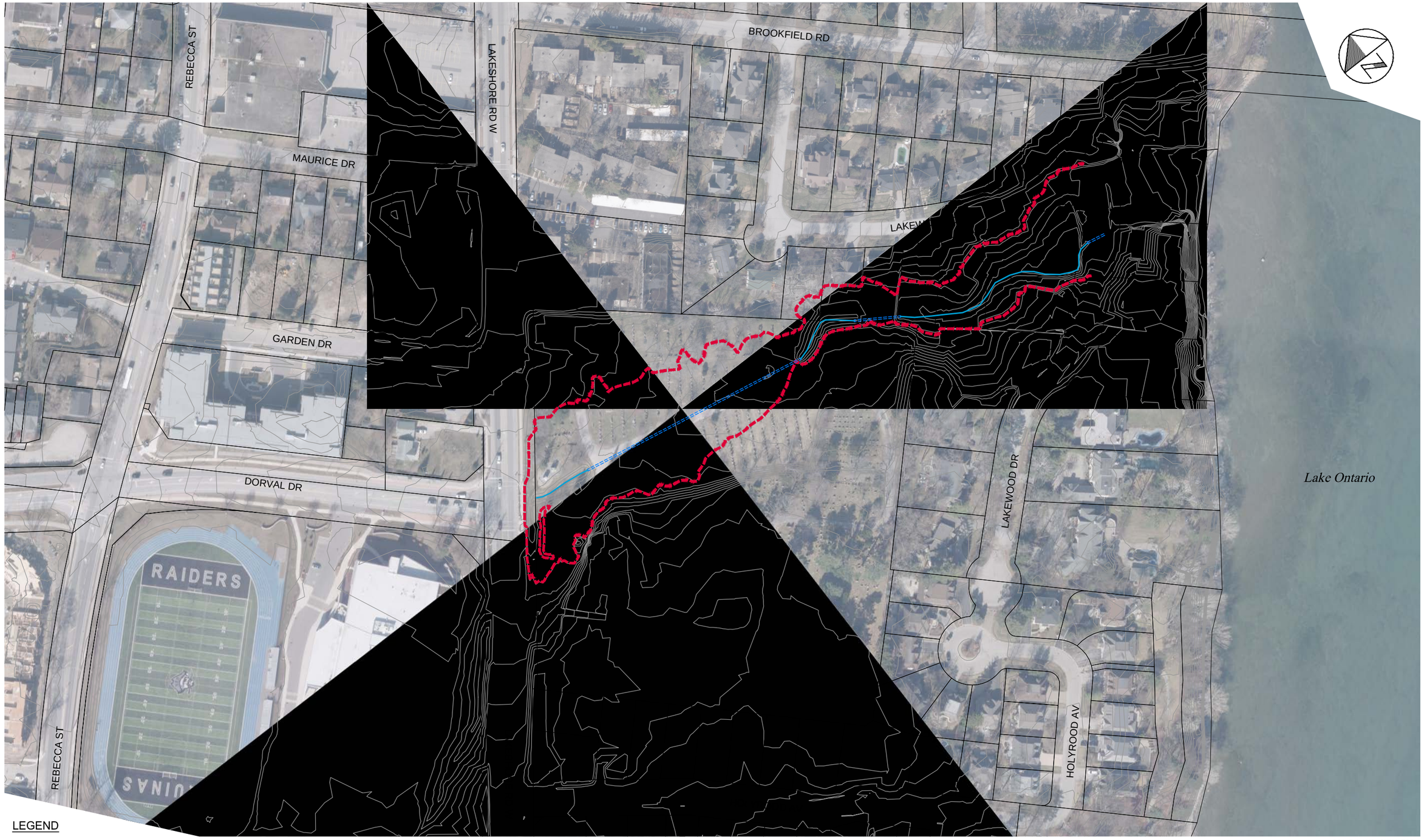


LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- REMNANT CHANNEL FLOW LIMIT

SCALE VALID ONLY FOR 24"x36" VERSION

| | | | |
|---|---|---|---|
| OAKVILLE STORM SEWER MASTER PLAN PHASE II TOWN OF OAKVILLE | 100 YEAR STORM EVENT REMNANT CHANNEL FLOW LIMITS (EXISTING CONDITIONS) | wood. | Scale 1:1000 (0 10 20 40) |
| | | | Consultant File No. TP115045 |
| | | | Figure No. RC-FL-8 |

Plotted: 2019-09-05
Last Saved: 2019-09-05
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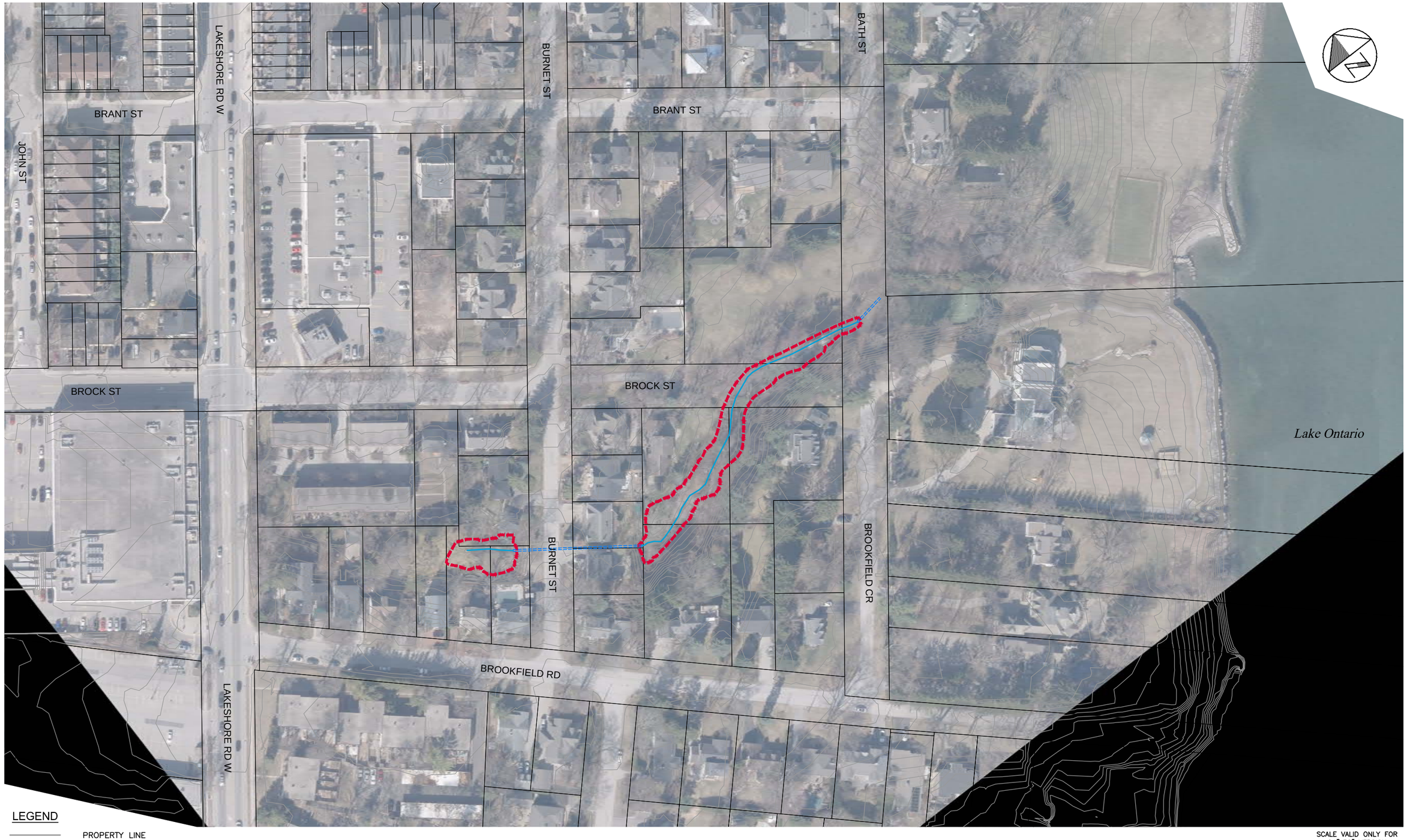


LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- REMNANT CHANNEL FLOW LIMIT

Plotted: 2019-09-05
Last Saved: 2019-09-05
Plotted By: richard.bartolo
Last Saved By: richard.bartolo
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SCALE VALID ONLY FOR 24"x36" VERSION

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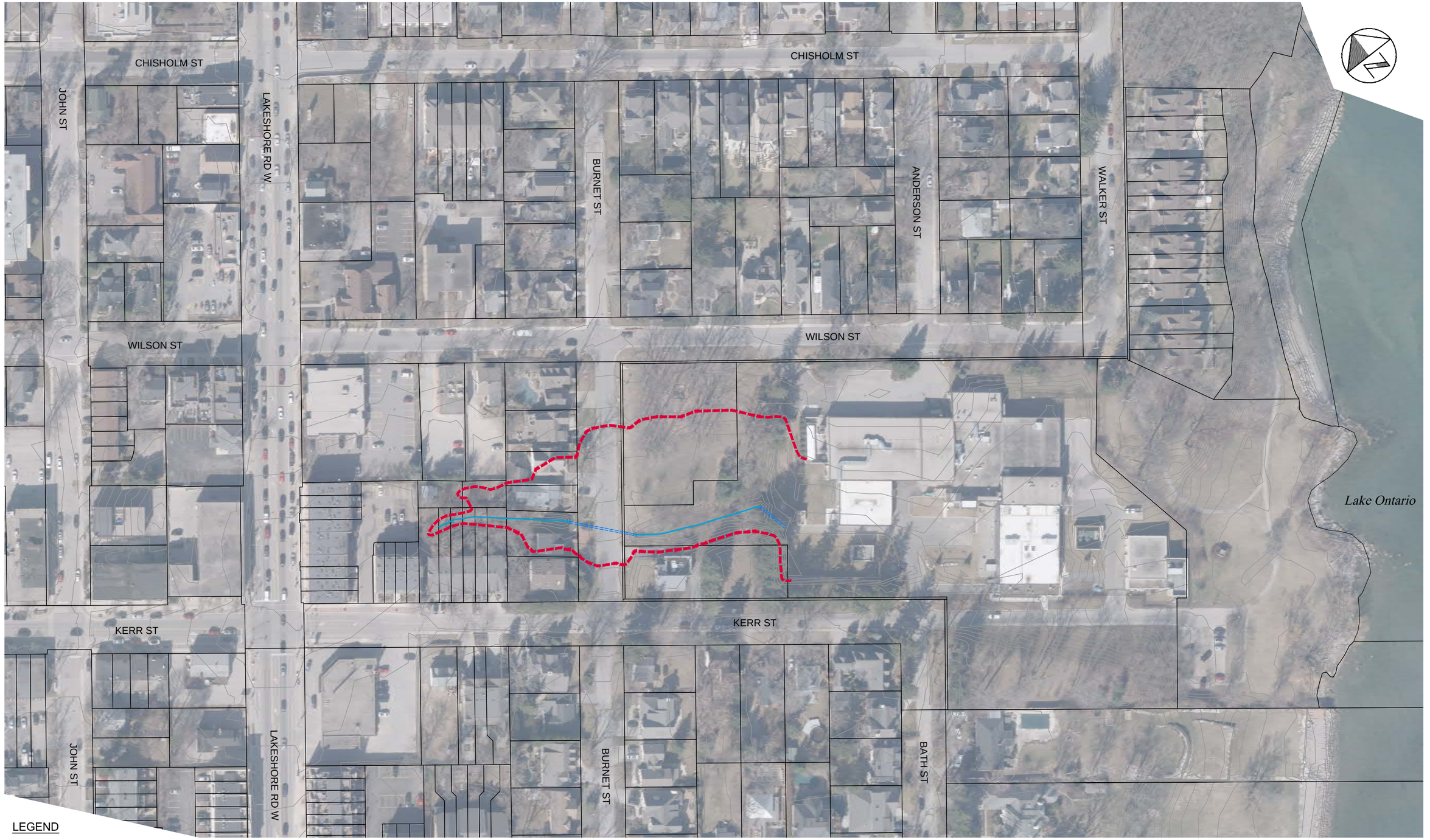
|---|---|---|---|
| OAKVILLE STORM SEWER MASTER PLAN PHASE II<br>TOWN OF OAKVILLE | 100 YEAR STORM EVENT REMNANT CHANNEL FLOW LIMITS<br>(EXISTING CONDITIONS) | wood. | Scale 1:750 (0, 7.5, 15, 30)<br>Consultant File No. TP115045<br>Figure No. RC-FL-9 |




LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- REMNANT CHANNEL FLOW LIMIT

SCALE VALID ONLY FOR 24"x36" VERSION

| | | | |
|---|---|---|---|
| OAKVILLE STORM SEWER MASTER PLAN PHASE II TOWN OF OAKVILLE | 100 YEAR STORM EVENT REMNANT CHANNEL FLOW LIMITS (EXISTING CONDITIONS) | wood. | Scale 1:750 (0, 7.5, 15, 30) |
| | | | Consultant File No. TP115045 |
| | | | Figure No. RC-FL-10 |

Plotted: 2019-09-05
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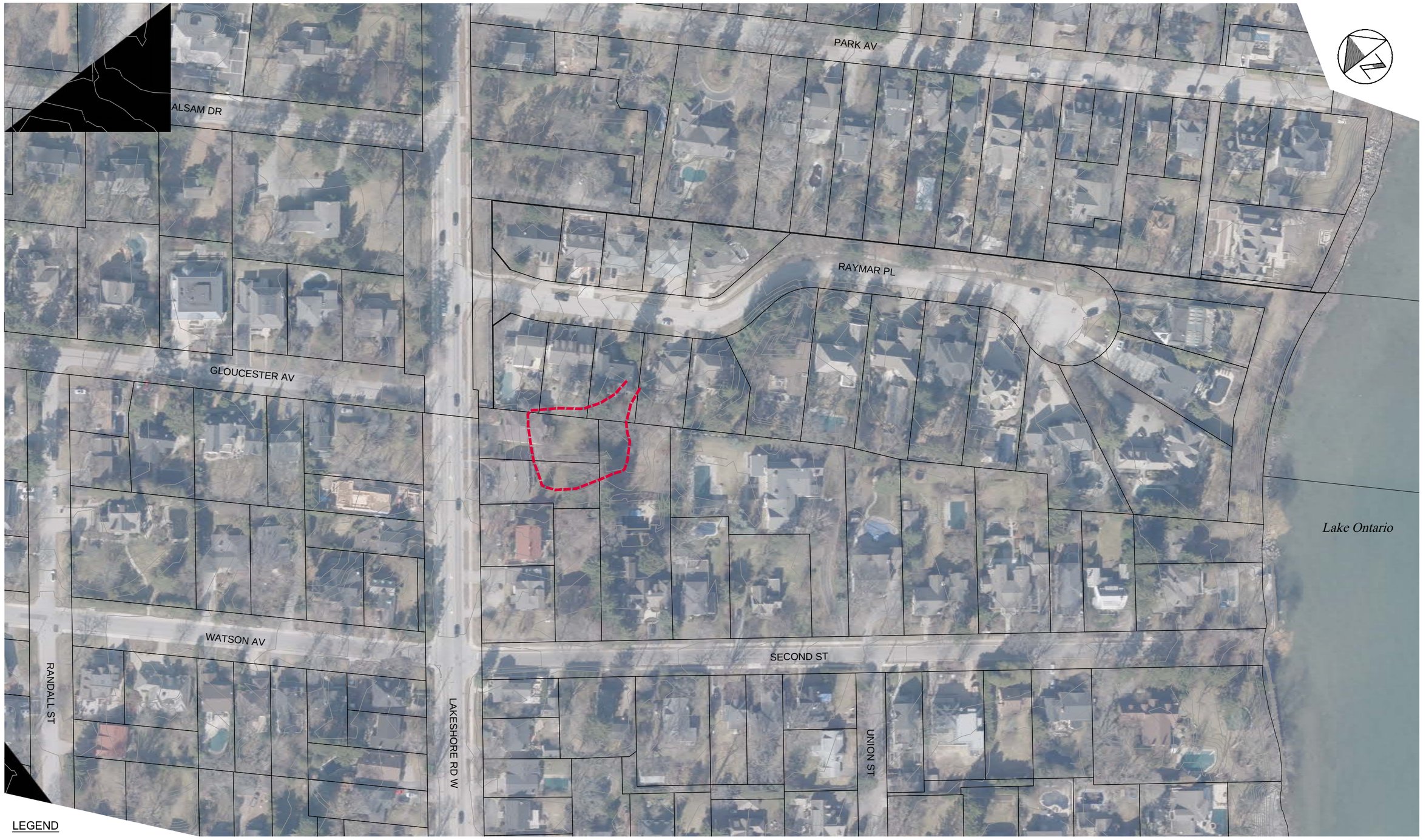


LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- REMNANT CHANNEL FLOW LIMIT

SCALE VALID ONLY FOR 24"x36" VERSION

| | | | |
|---|---|---|---|
| OAKVILLE STORM SEWER MASTER PLAN PHASE II TOWN OF OAKVILLE | 100 YEAR STORM EVENT REMNANT CHANNEL FLOW LIMITS (EXISTING CONDITIONS) | wood. | Scale 1:750 (0, 7.5, 15, 30)<br>Consultant File No. TP115045<br>Figure No. RC-FL-11 |

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Last Saved By: richard.bartolo
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LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- REMNANT CHANNEL FLOW LIMIT

SCALE VALID ONLY FOR 24"x36" VERSION

| | |
|---|---|
| OAKVILLE STORM SEWER MASTER PLAN PHASE II<br>TOWN OF OAKVILLE | 100 YEAR STORM EVENT REMNANT CHANNEL FLOW LIMITS<br>(EXISTING CONDITIONS) |

wood.

Scale 1:1000 (0 10 20 40)

Consultant File No. TP115045

Figure No. RC-FL-12

Path: P:\Work\TP115045\Water\Dwg\2019-09 (SWM)\Fig RC-FlowLimits.dwg
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Plotted: 2019-09-05
Last Saved: 2019-09-05


LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- REMNANT CHANNEL FLOW LIMIT

SCALE VALID ONLY FOR 24"x36" VERSION

| | | | |
|---|---|---|---|
| OAKVILLE STORM SEWER MASTER PLAN PHASE II TOWN OF OAKVILLE | 100 YEAR STORM EVENT REMNANT CHANNEL FLOW LIMITS (EXISTING CONDITIONS) | wood. | Scale 1:750 (0, 7.5, 15, 30) Consultant File No. TP115045 Figure No. RC-FL-13/14 |

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Plotted By: richard.bartolo
Last Saved By: richard.bartolo
Path: P:\Work\TP115045\Water\Dwg\2019-09 (SWM)\Fig RC-FlowLimits.dwg


LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- REMNANT CHANNEL FLOW LIMIT

SCALE VALID ONLY FOR 24"x36" VERSION

# OAKVILLE STORM SEWER MASTER PLAN PHASE II

TOWN OF OAKVILLE

## 100 YEAR STORM EVENT REMNANT CHANNEL FLOW LIMITS

(EXISTING CONDITIONS)

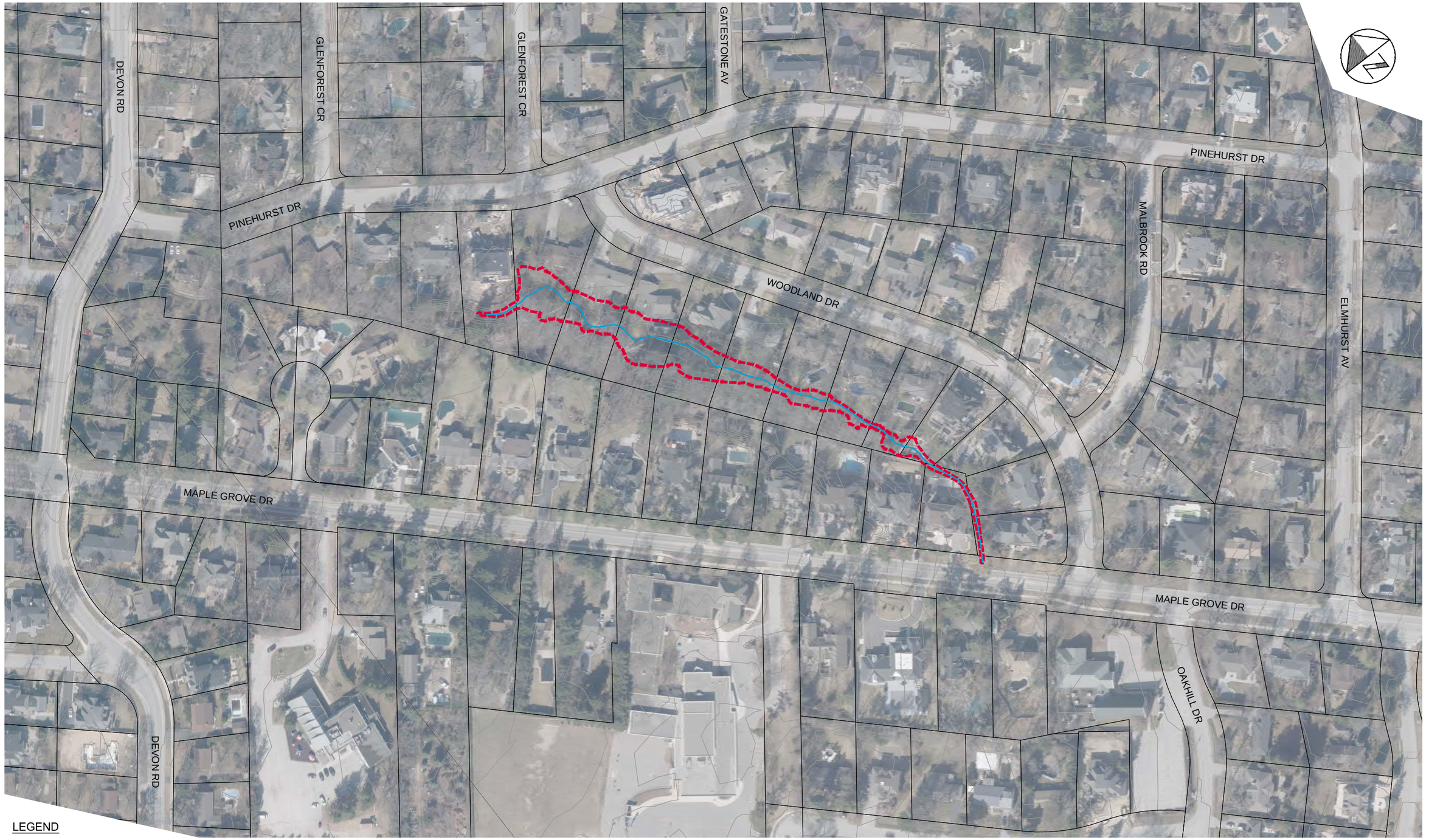
wood.

Scale 1:750 (0, 7.5, 15, 30)

Consultant File No. TP115045

Figure No. RC-FL-15

Plotted: 2019-09-05
Last Saved: 2019-09-05
Plotted By: richard.bartolo
Last Saved By: richard.bartolo
Path: P:\Work\TP115045\Water\Dwg\2019-09 (SWM)\Fig RC-FlowLimits.dwg




LEGEND

- PROPERTY LINE
- CONTOUR (0.5m)
- REMNANT CHANNEL
- UNDERGROUND CONVEYANCE
- REMNANT CHANNEL FLOW LIMIT

SCALE VALID ONLY FOR 24"x36" VERSION

| | | | |
|---|---|---|---|
| OAKVILLE STORM SEWER MASTER PLAN PHASE II TOWN OF OAKVILLE | 100 YEAR STORM EVENT REMNANT CHANNEL FLOW LIMITS (EXISTING CONDITIONS) | wood. | Scale 1:1000 (0 10 20 40) |
| | | | Consultant File No. TP115045 |
| | | | Figure No. RC-FL-16 |

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| Table K1 - Remnant Channel Alternative Assessment | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Network** | **Remnant Channel ID** | **Capture in Adjacent Network** | **Offline Storage/Optimize Outlet** | **Increase Pipe Size (Online)** | **Reprofiling/ Regrading** | **Future Study** | **Comments** |
| 10 | 1 | | | X | X | X | Increase size of West Street culverts; increase size of downstream sewer; regrade channel cross section through cemetery to contain 100 year flow |
| 14 | 2 | | X | X | X | X | Online storage/increase pipes recommended to mitigate major/minor system flooding; increase size of pipe at outlet of remnant channel to be considered; regrade channel cross section through trail systen |
| 24 | 3 | X | | X | X | X | Majority of remedial works would be located on private properties. The Maplehust Avenue storm sewer has been assessed to capture (divert) a portion of the flow to the Rebecca Street storm sewe |
| 17 | 4 | X | | | | | Mitigation plan specified in Coronation Park Class EA and Lakeshore Road EA; a diversion has been proposed on Lakeshore Road to outlet at the remnant channel at the intersection of Westminster Drive and Lakeshore Roa |
| 19 | 5 | X | | X | X | X | Possible to capture in proposed diversion storm sewer on Woodhaven Park Dr (minor system to be installed); increase size of online pipes, although all are on private property; limiited opportunity for regrading cross sectio |
| 28 | 6 | | | X | X | X | Increase size of Sybella Drive culverts; remedial regrading/reprofiling primarily on private properties; future study required to determine impact of driveway culvert |
| 29 | 7 | | | | X | X | Majority of remedial works would be located on private properties |
| 29 | 8 | | X | X | X | | Mitigation plan specified in Lakeshore Road EA. |
| 30 | 9 | | | X | X | X | Increase culvert size at Burnet Street; remedial works would be located on private properties |
| 33 | 10 | | X | X | X | X | Offline storage recommended in Burnet Park to mitigate flooding to Water Purification Plant; increase storm sewers sizes through Water Treatment Plant; reprofile channel through parl |
| 39 | 11 | X | | X | X | X | Increase storm sewer sizes on Raymar Place and divert flow to Raymar Place; remedial works would be located on private properties, verify outlet of existing storm sewer |
| 39 | 12 | | | X | X | X | No available capacity in receiving storm sewer network; remedial works would be located on private properties |
| LMC | 13 | | X | | X | X | Potential for storage in adjacent parks; downstream end of channel is a regulated water course |
| LMC | 14 | | | X | X | X | Increase receiving pipe size; remedial works would be located on private properties |
| 45 | 15 | | | X | X | X | Increase size of receiving storm sewer network; remedial works primarily on Regional property |
| 46 | 16 | | | X | X | X | Increase size of receiving storm sewer network; remedial works primarily on private property |