Appendix B

Natural Heritage Report

DILLON CONSULTING

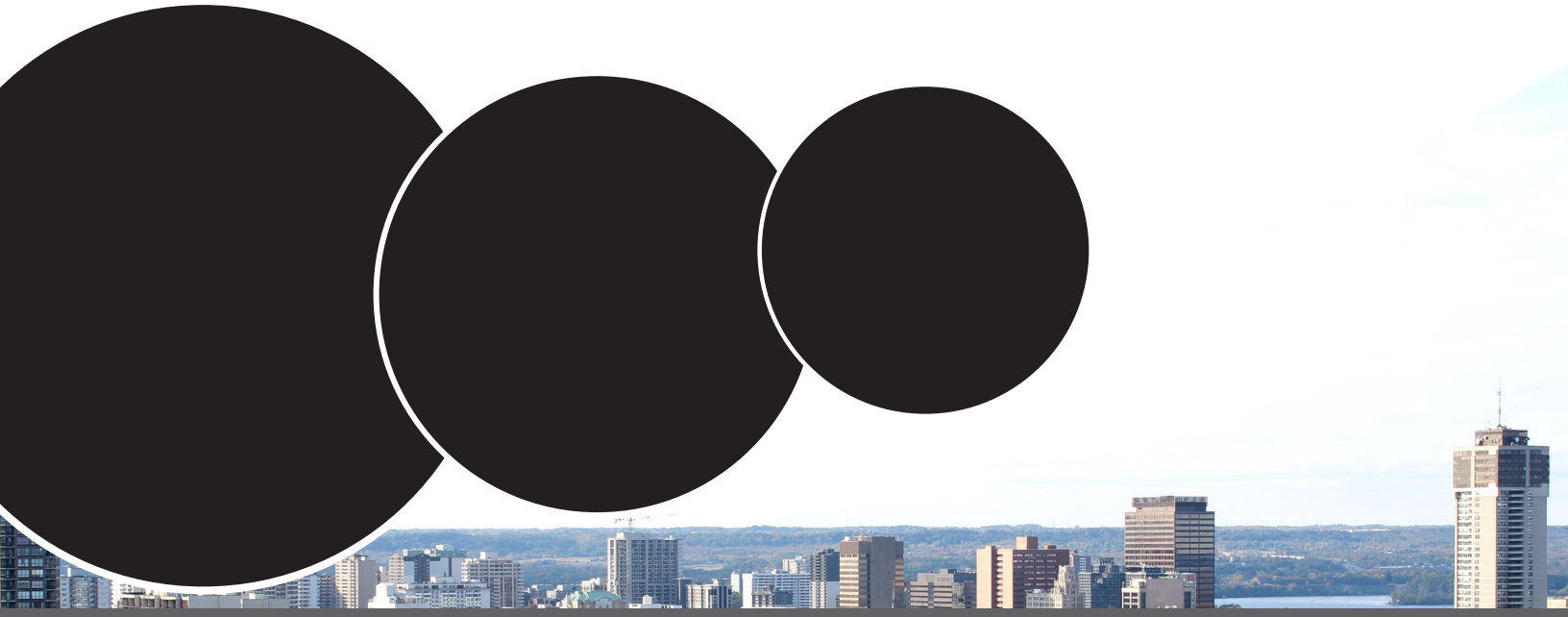
DILLON CONSULTING

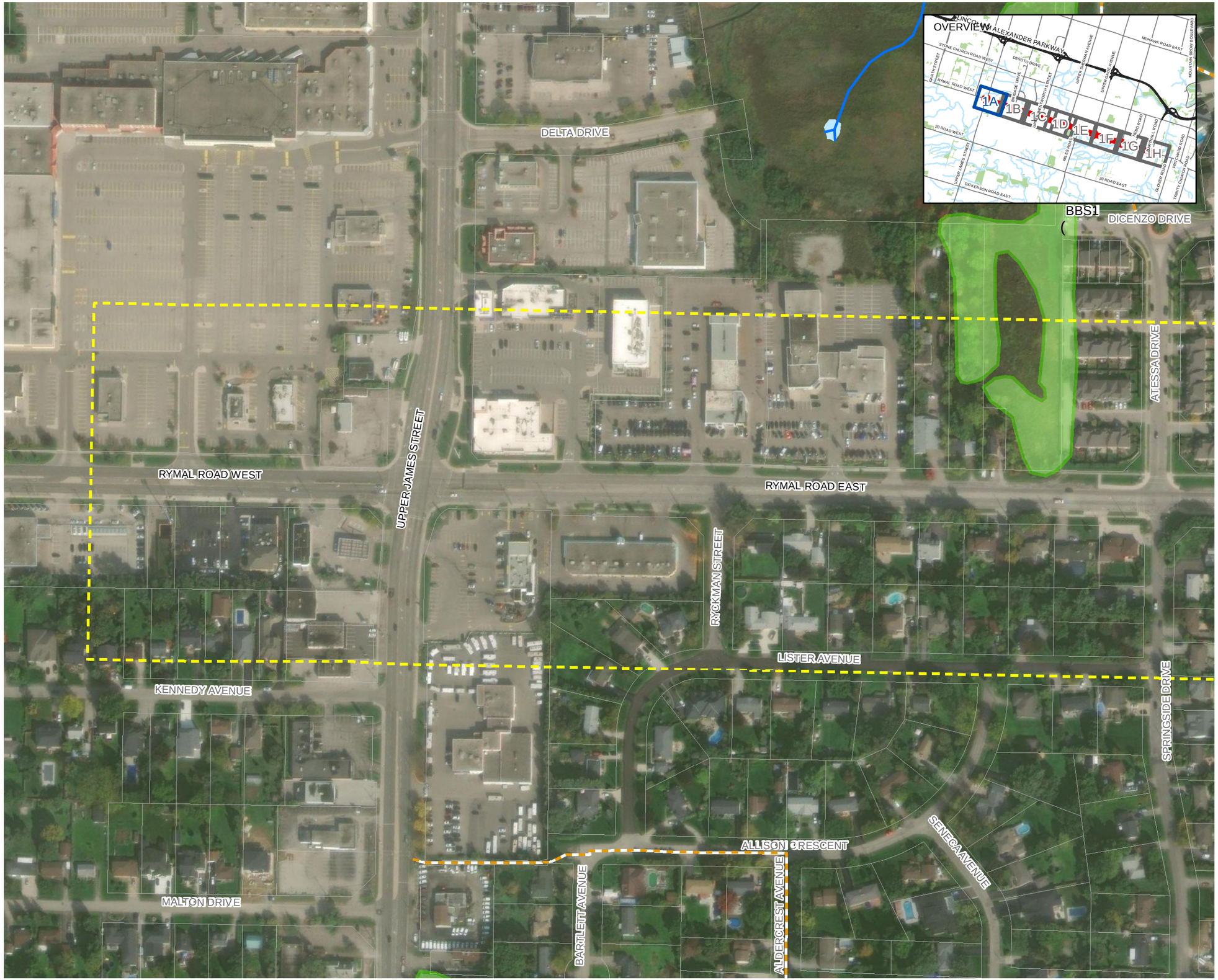
City of Hamilton

Rymal Road

(Upper James St to Dartnall Rd) Municipal Class Environmental Assessment Phases 1 to 4

November 202 4





RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

NATURAL HERITAGE FEATURES
PAGE 1A

- Project Boundary
- Natural Heritage Study Area (120m)
- Trail
- Utility Line
- Watercourse
- Water Body
- Wetland
- Woodland (Potential for Species At Risk)
- Hamilton Conservation Authority Regulated Area
- Property Parcel

Designated Natural Heritage Features (Urban Hamilton Official Plan)

- Key Hydrologic Feature Lakes and Littoral Zones
- Key Natural Heritage Feature Significant Woodlands
- Local Natural Area Environmentally Significant Area
- Niagara Escarpment Plan Designations
- Amphibian Breeding Survey (AMPH)
- Breeding Bird Survey (BBS)

SCALE 1:2,500

0 15 30 60 m

2

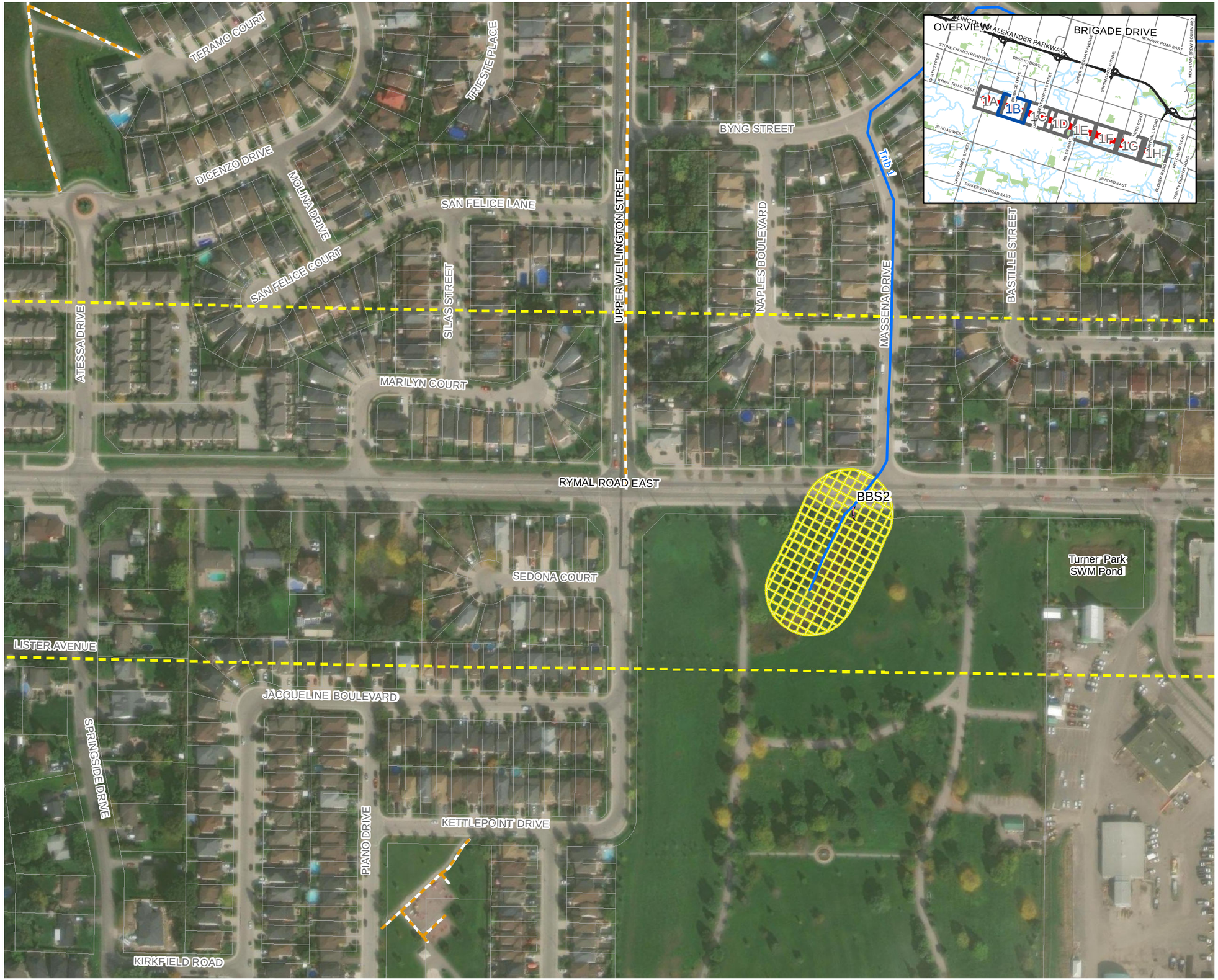
MAP DRAWING INFORMATION:
DATA PROVIDED BY LIO/MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority. ESRI Imagery Basemap

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-11

FILE LOCATION: K:\2020\203410\Product\Client\NaturalHeritageReport2024\203410_NH1b_NaturalHertiage_DDP.mxd



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SCALE 1:2,500

0 15 30 60 m

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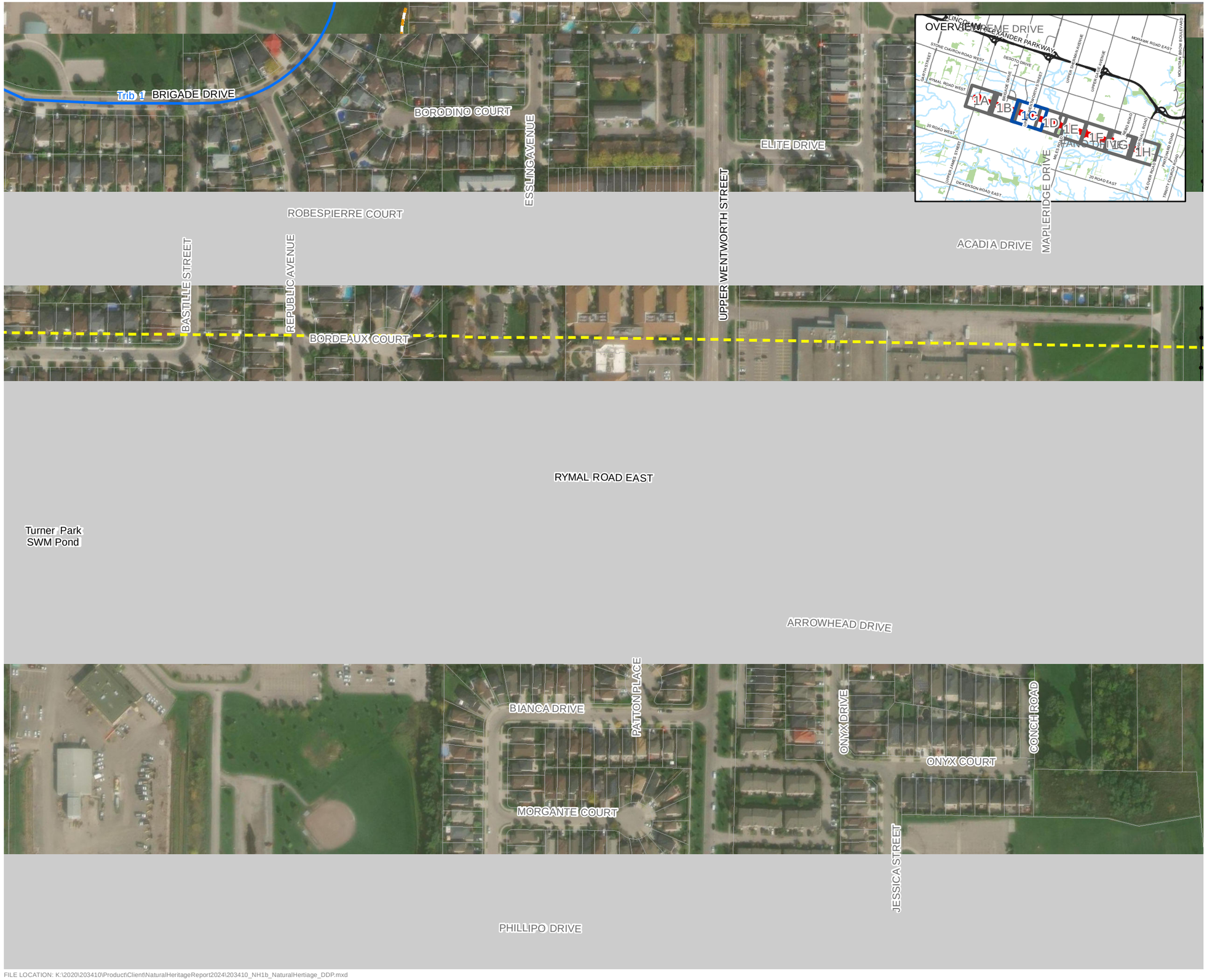

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SCALE 1:3,000

0 15 30 60 m

2

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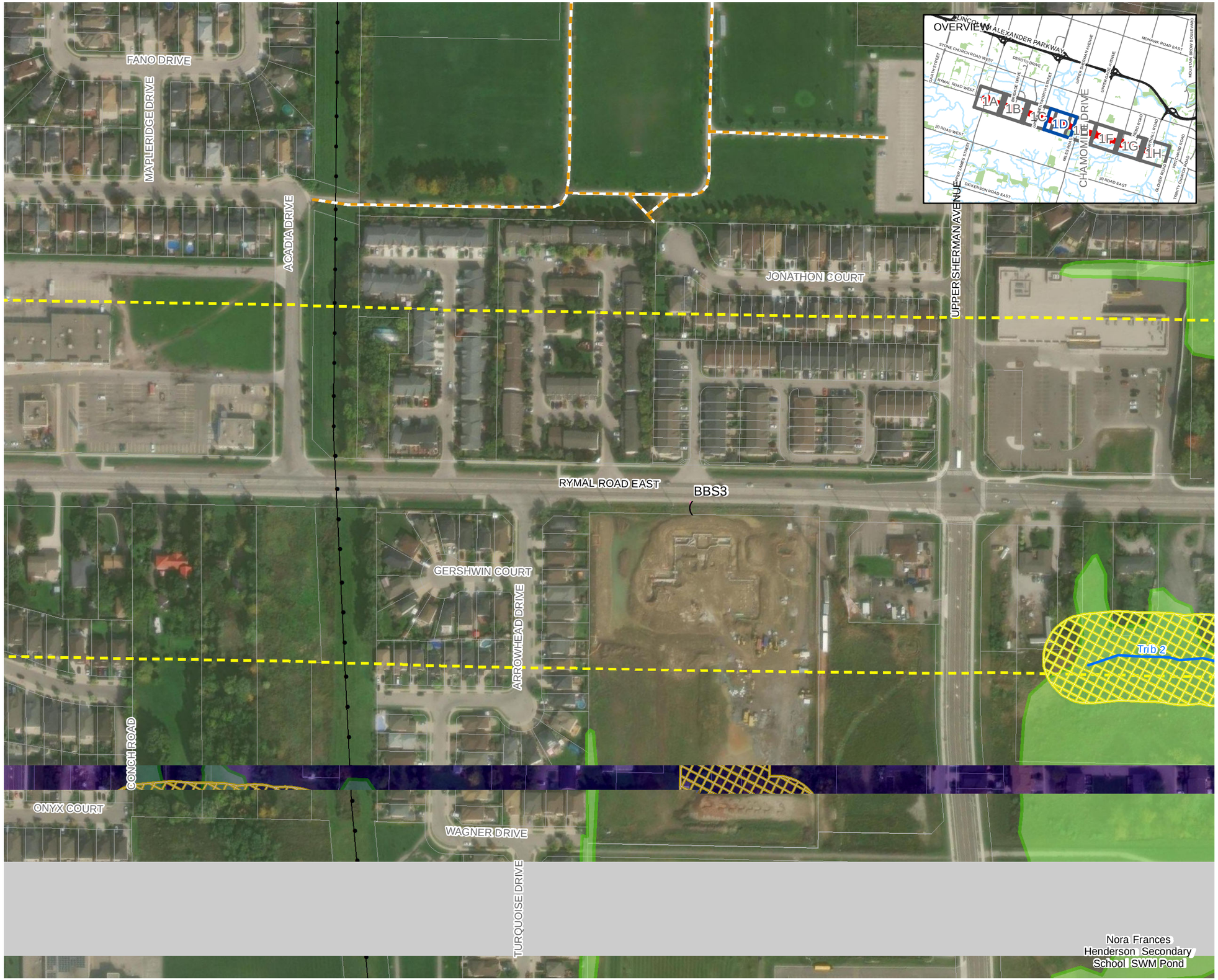

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SCALE 1:2,500

0 15 30 60 m

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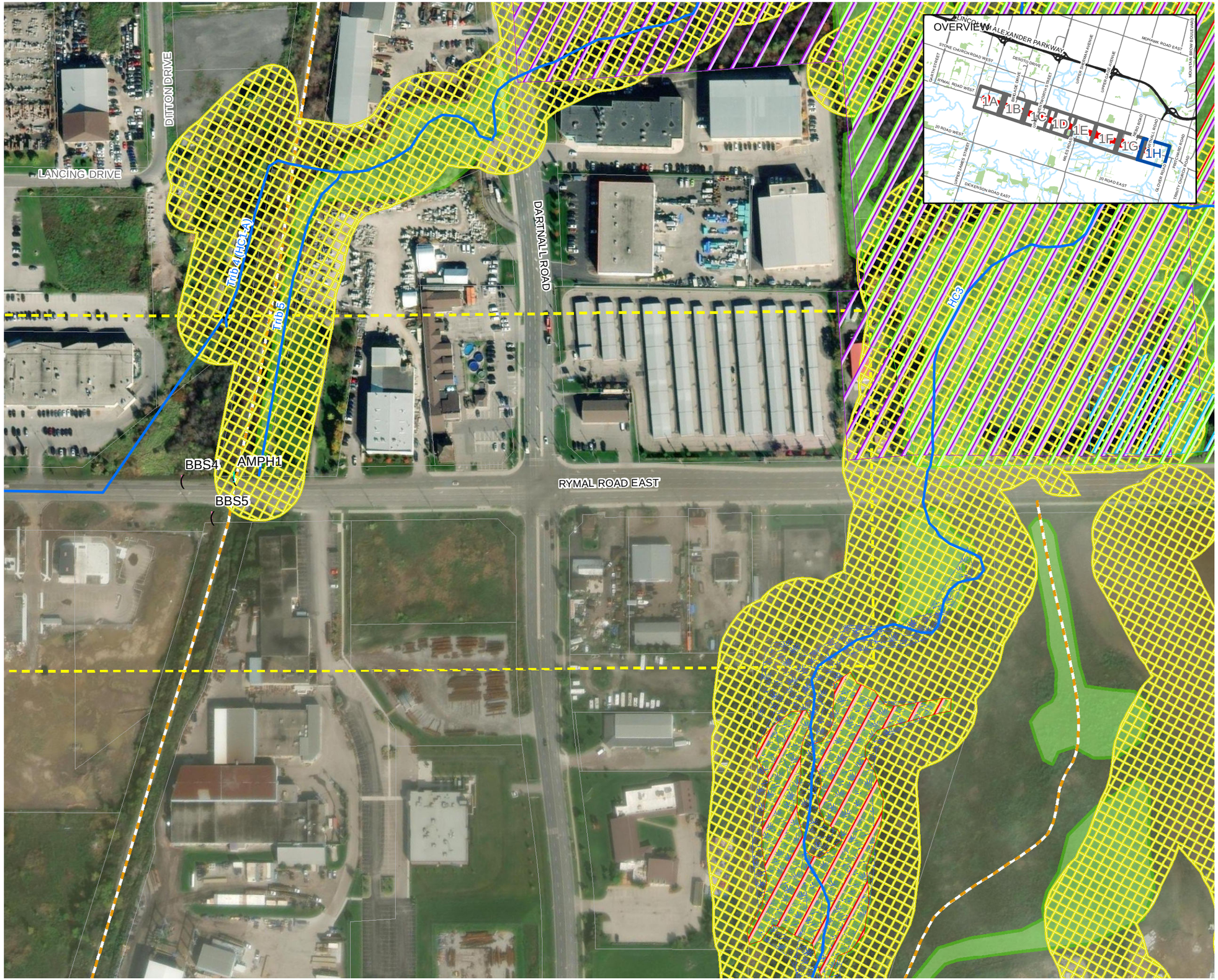

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SCALE 1:2,500

0 15 30 60 m

2

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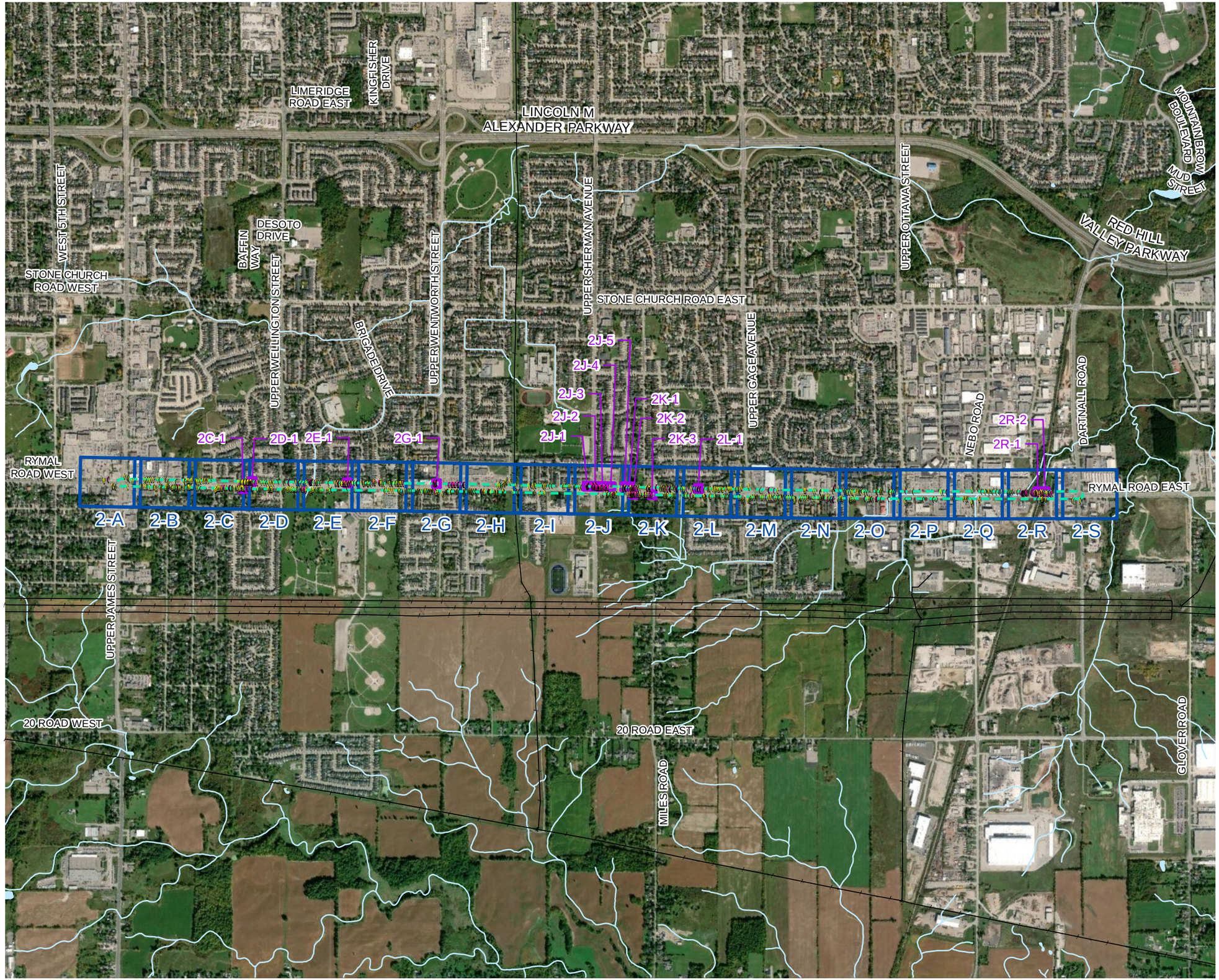
Figure 2

Tree Inventory



RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
FIGURE 2 OVERVIEW

- Tree
- Shrub
- Tree Inventory Study Area (20m)
- Page Extent
- Inset Page Exent
- Utility Line
- Watercourse
- Water Body

NOTES:
Karst is ubiquitous in the area and not considered a constraint

SCALE 1:20,000

0 125 250 500 m

2

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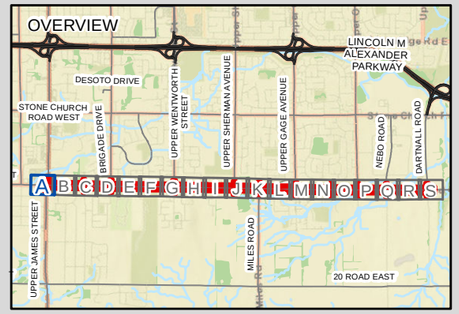
FILE LOCATION: K:\2020\203410\Product\Client\APU\203410_APU2a_TreeInventory_Overview.mxd



RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
FIGURE 2A

- Tree
- Shrub
- Tree Inventory Study Area (20m)
- Property Parcel



SCALE 1:1,000

0 5 10 20 m

2

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FILE LOCATION: K:\2020\203410\Product\Client\APU\203410_APU2b_TreeInventory_DDP.mxd



RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

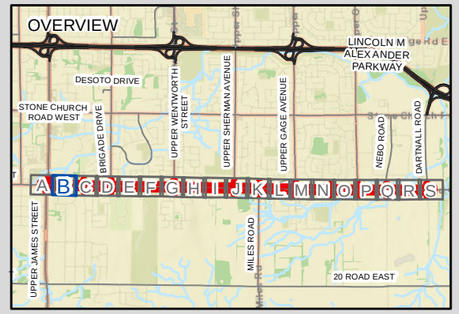
TREE INVENTORY
FIGURE 2B

(Tree

(Shrub

Tree Inventory Study Area (20m)

Property Parcel



SCALE 1:1,000

0 5 10 20 m

2

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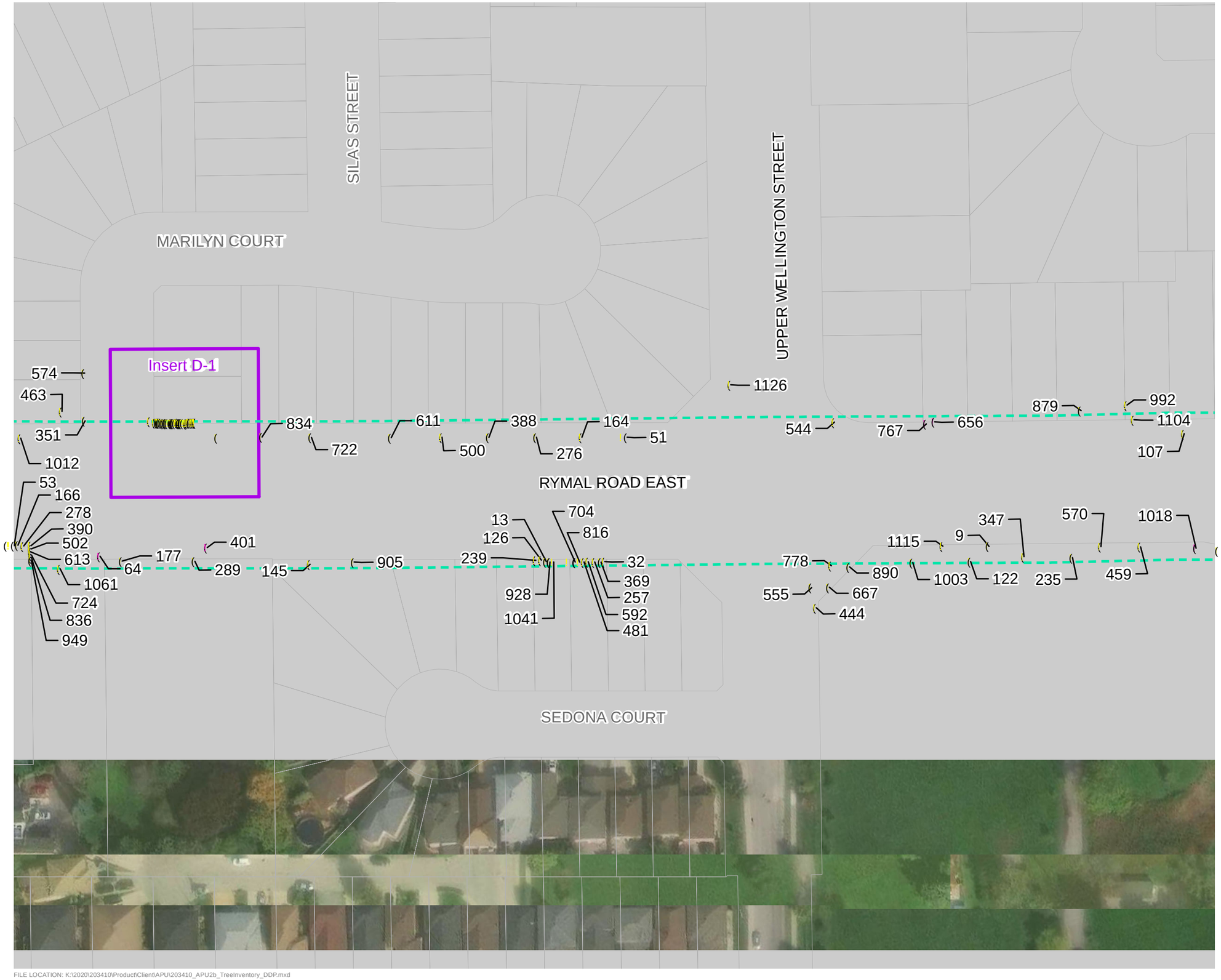
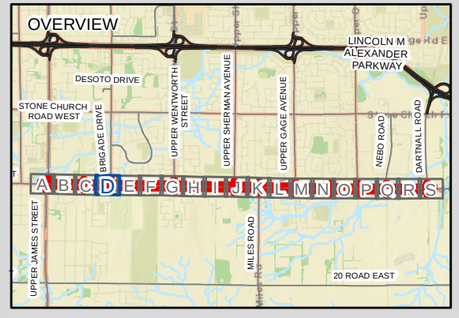


RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
FIGURE 2D

- Tree
- Shrub
- Tree Inventory Study Area (20m)
- Inset Page Exent
- Property Parcel



SCALE 1:1,000

0 5 10 20 m

2

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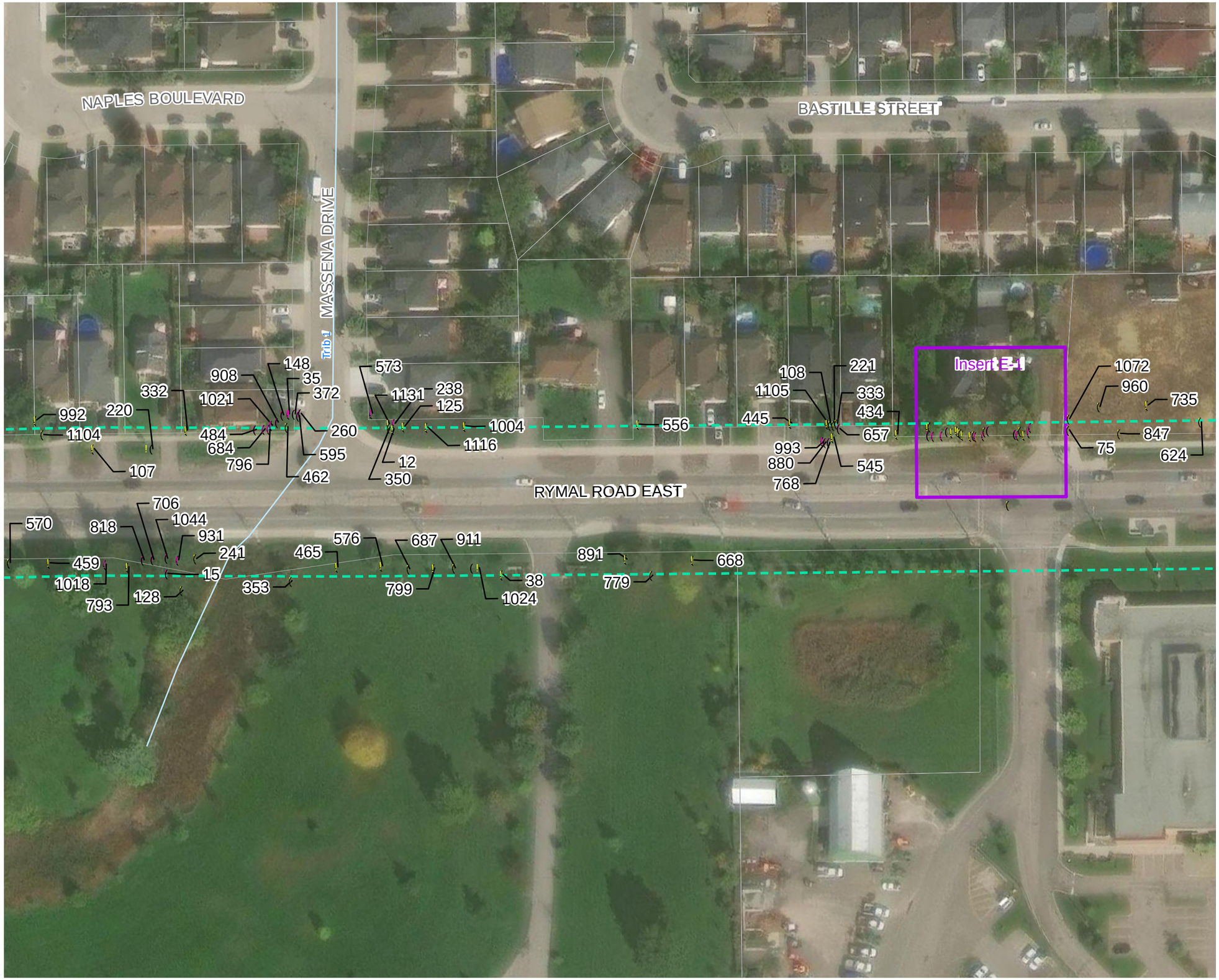
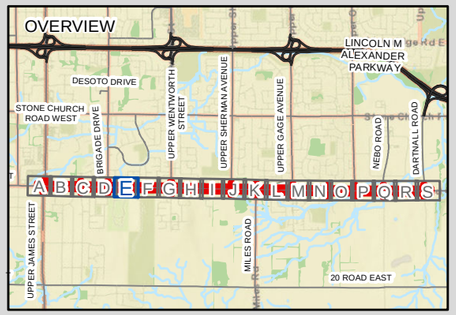


RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
FIGURE 2E

- Tree
- Shrub
- Tree Inventory Study Area (20m)
- Inset Page Exent
- Watercourse
- Property Parcel



SCALE 1:1,000

0 5 10 20 m

2

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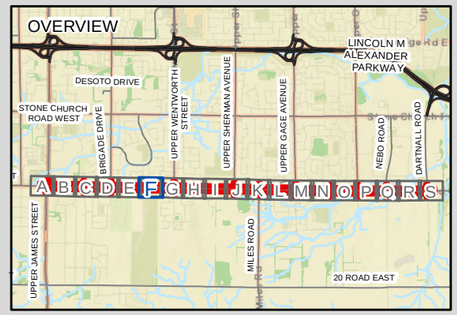
RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
FIGURE 2F

- Tree
- Shrub
- Tree Inventory Study Area (20m)
- Property Parcel



SCALE 1:1,000

0 5 10 20 m

2

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UPPER WENTWORTH STREET

RYMAL ROAD EAST

Insert G-1

ARROWHEAD DRIVE

98 211 435 1095 323 658 546 769 881 994 1106 109 222 334 446 557 669 780 892 1005 1117 127 14 352 575 240 464 1023 798 686 150 910 37 374 486 262 597 179 291 403 514 626 66 1063 951 168 280 392 504 615 726 838 55 823 711 936 1049 1026 40 153 265 377 600 489

RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
FIGURE 2G

- Tree
- Shrub
- Tree Inventory Study Area (20m)
- Inset Page Exent
- Property Parcel

OVERVIEW

DESOTO DRIVE
STONE CHURCH ROAD WEST
BRIGADE DRIVE
UPPER WENTWORTH STREET
UPPER SHERMAN AVENUE
UPPER GAGE AVENUE
NEBO ROAD
DARTMALL ROAD
LINCOLN M ALEXANDER PARKWAY
UPPER JAMES STREET
MILES ROAD
20 ROAD EAST

A B C D E F G H I J K L M N O P Q R S

SCALE 1:1,000

0 5 10 20 m

2

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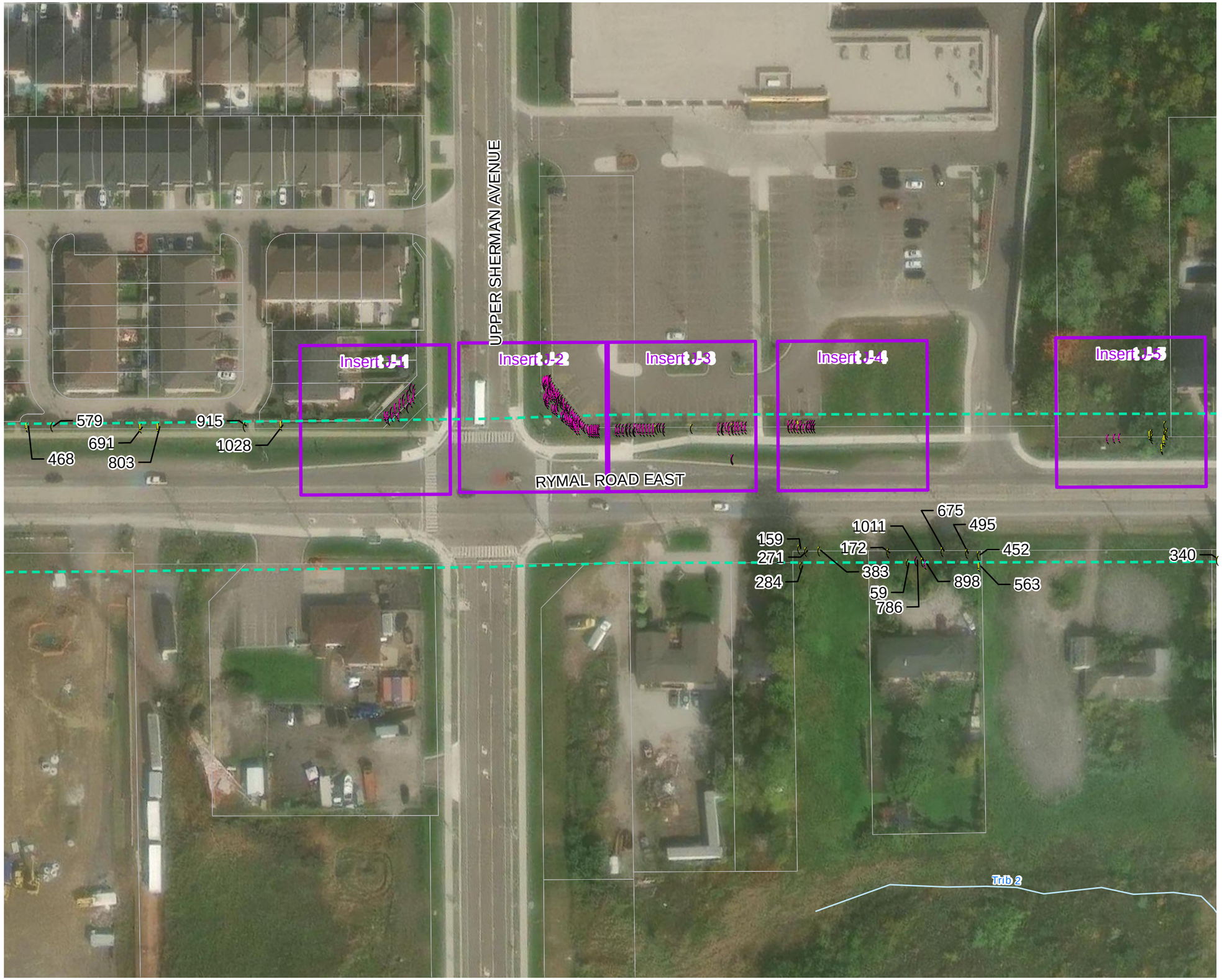

RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
FIGURE 2J

- Tree
- Shrub
- Tree Inventory Study Area (20m)
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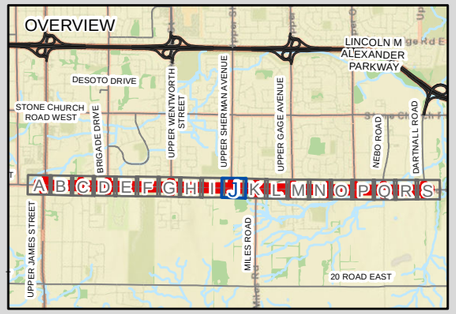
- Watercourse
- Property Parcel



SCALE 1:1,000

0 5 10 20 m

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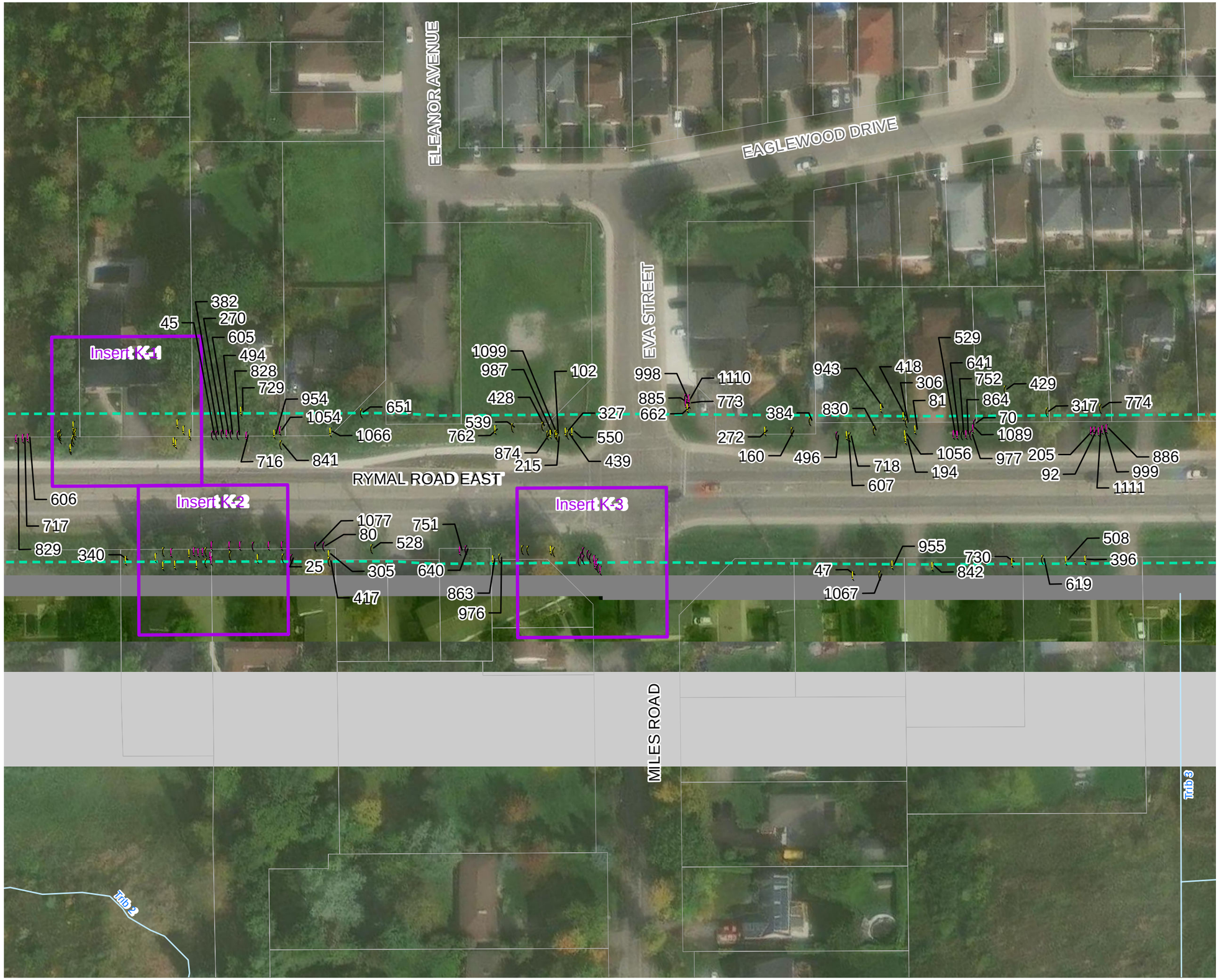

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FIGURE 2K

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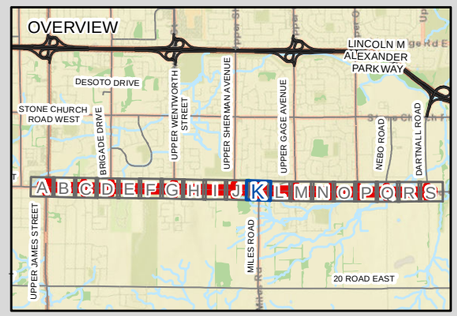

SCALE 1:1,000

0 5 10 20 m

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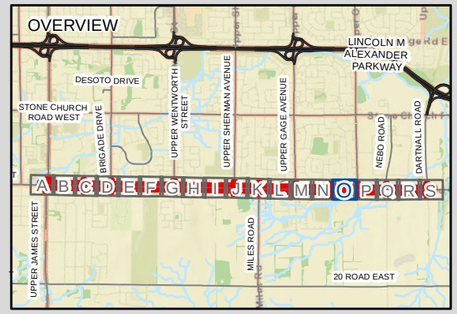
RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
FIGURE 2O

- Tree
- Shrub
- Tree Inventory Study Area (20m)
- Watercourse
- Property Parcel



SCALE 1:1,000

0 5 10 20 m

2

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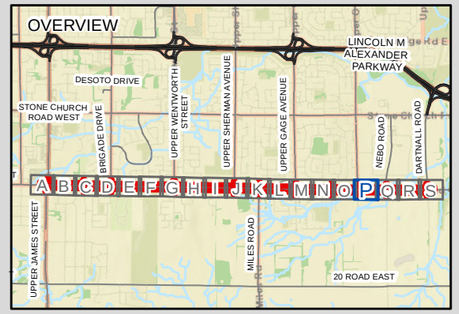
RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
FIGURE 2P

- Tree
- Shrub
- Tree Inventory Study Area (20m)
- Watercourse
- Property Parcel



SCALE 1:1,000

0 5 10 20 m

2

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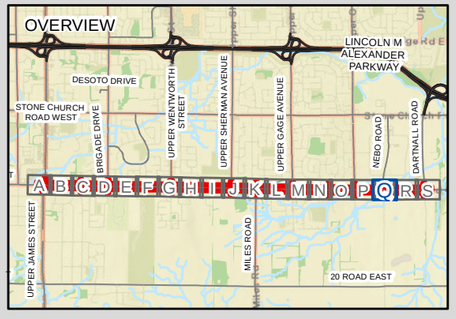
RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
FIGURE 2Q

- Tree
- Tree Inventory Study Area (20m)
- Watercourse
- Property Parcel



SCALE 1:1,000

0 5 10 20 m

2

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RYMAL ROAD
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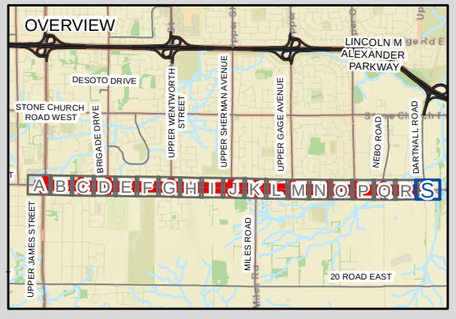
TREE INVENTORY
FIGURE 2S

- Tree
- Tree Inventory Study Area (20m)
- Watercourse
- Property Parcel



SCALE 1:1,000

0 5 10 20 m

2

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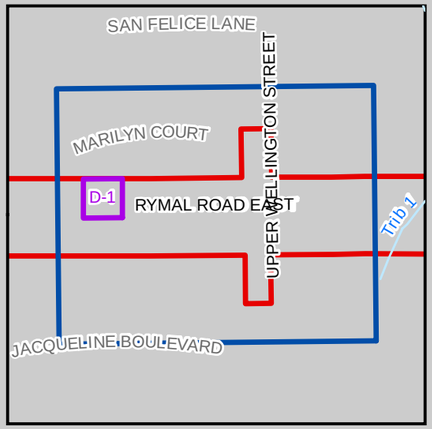
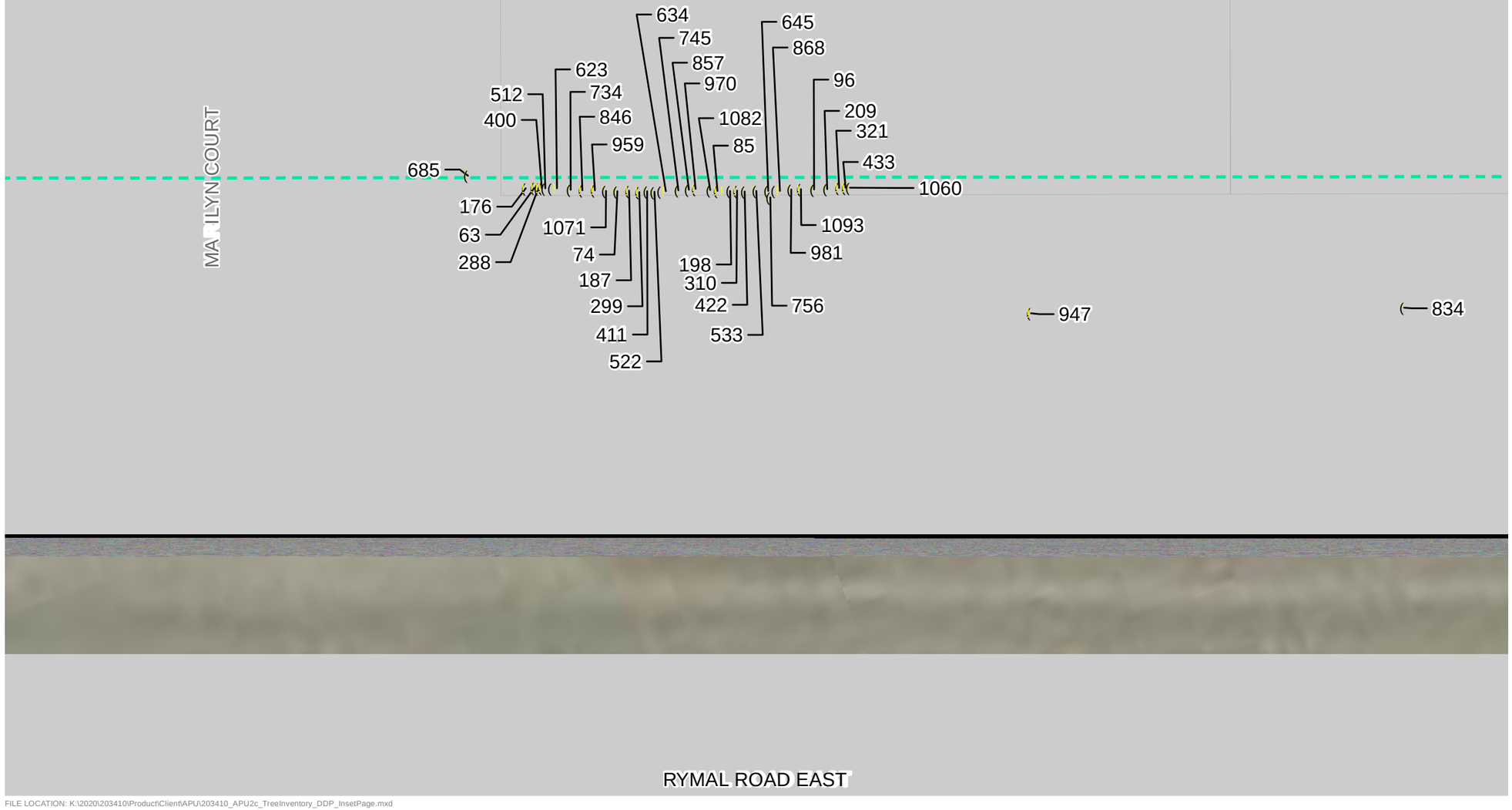




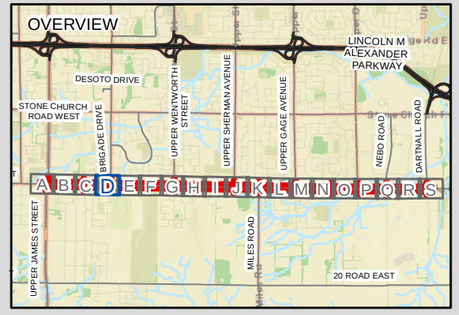
RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
INSET PAGE 2D-1

(Tree

Tree Inventory Study Area (20m)

Property Parcel



SCALE 1:150

0 1 2 4 m

2

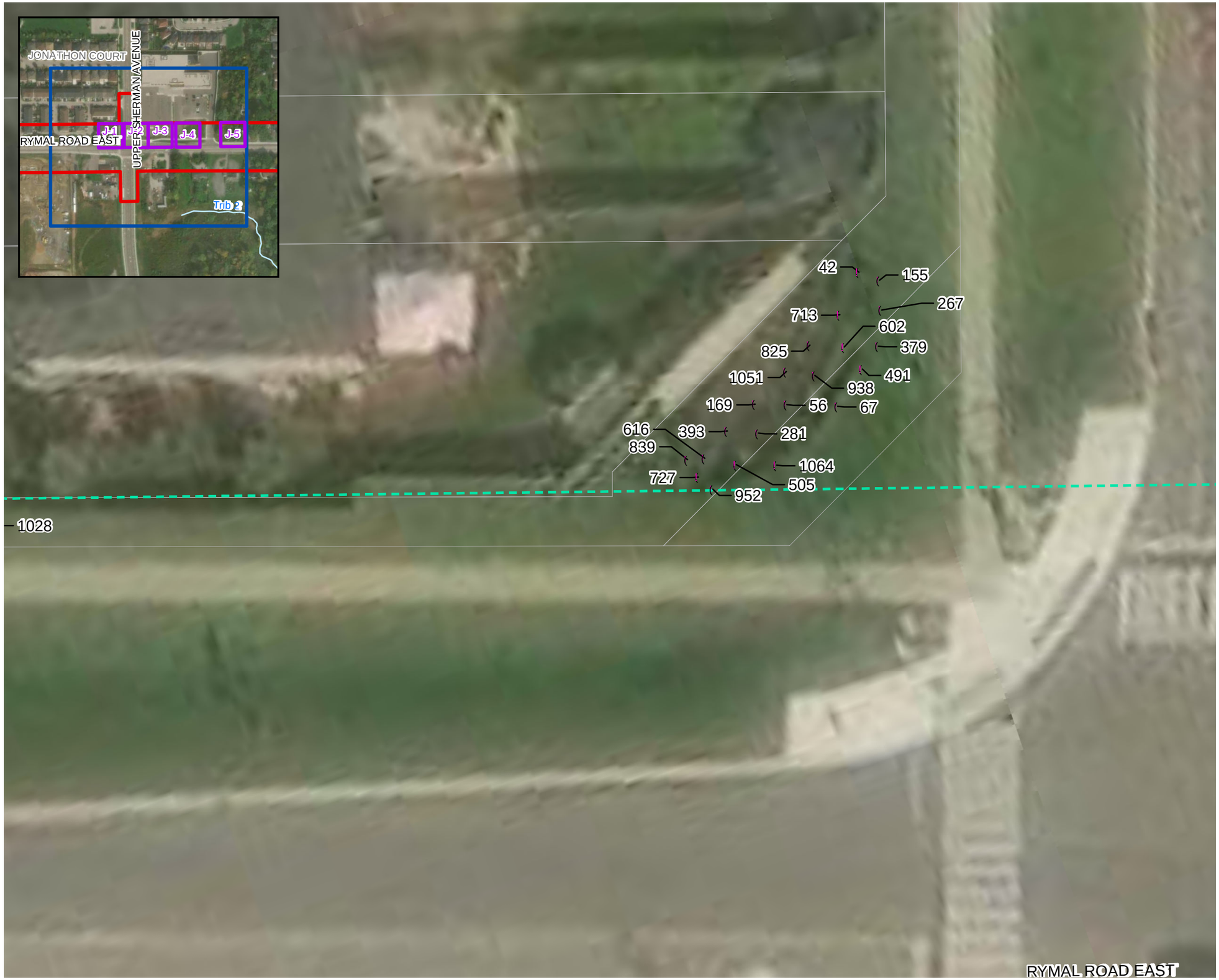
MAP DRAWING INFORMATION:
DATA PROVIDED BY MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-10

FILE LOCATION: K:\2020\203410\Product\Client\APU\203410_APU2c_TreeInventory_DDP_InsetPage.mxd



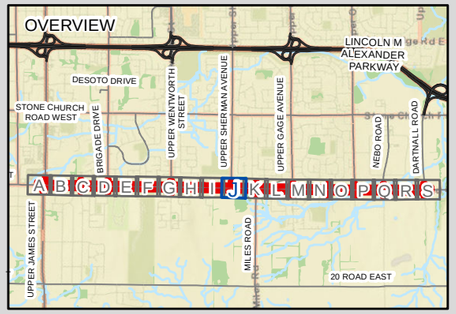
RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
INSET PAGE 2J-1

(Shrub

Tree Inventory Study Area (20m)

Property Parcel



SCALE 1:150

0 1 2 4 m

2

MAP DRAWING INFORMATION:
DATA PROVIDED BY MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-10

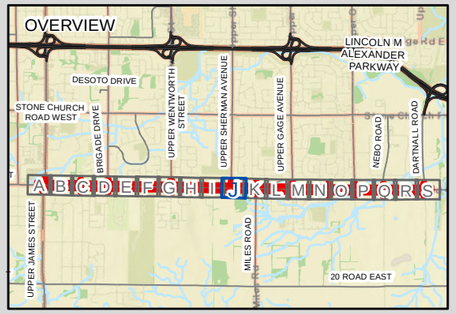
FILE LOCATION: K:\2020\203410\Product\Client\APU\203410_APU2c_TreeInventory_DDP_InsetPage.mxd



RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
INSET PAGE 2J-2

- Shrub
- Tree Inventory Study Area (20m)
- Property Parcel



SCALE 1:150

0 1 2 4 m

2

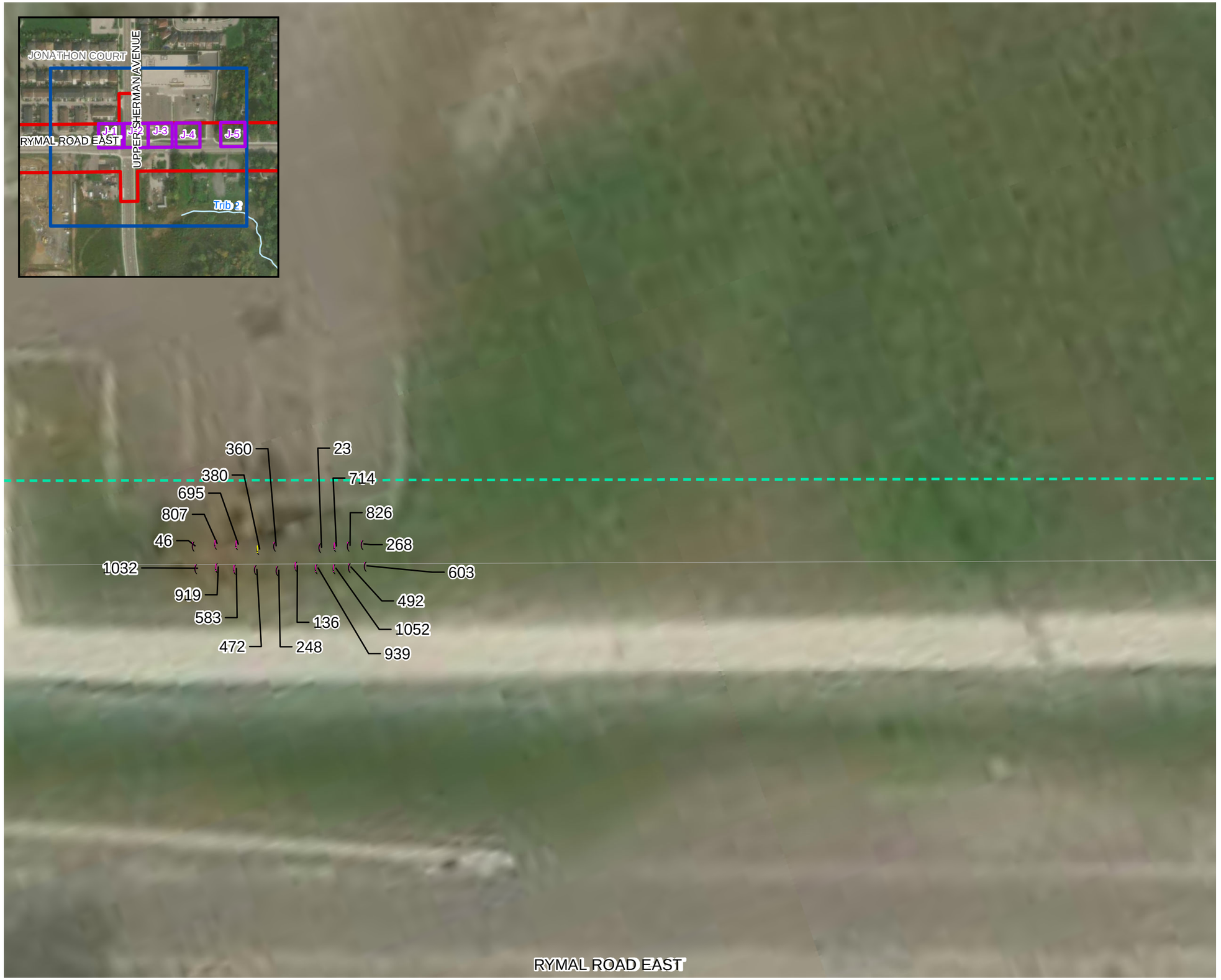
MAP DRAWING INFORMATION:
DATA PROVIDED BY MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-10

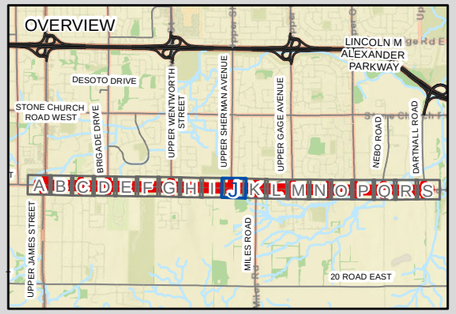
FILE LOCATION: K:\2020\203410\Product\Client\APU\203410_APU2c_TreeInventory_DDP_InsetPage.mxd



RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
INSET PAGE 2J-4

- Tree
- Shrub
- Tree Inventory Study Area (20m)
- Property Parcel



SCALE 1:150

0 1 2 4 m

2

MAP DRAWING INFORMATION:
DATA PROVIDED BY MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-10

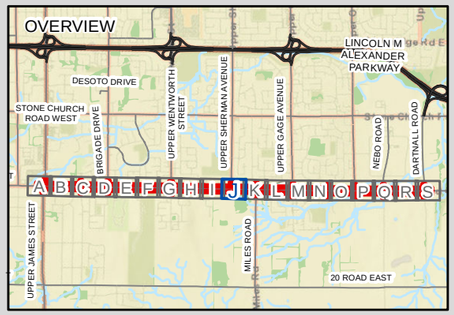
FILE LOCATION: K:\2020\203410\Product\Client\APU\203410_APU2c_TreeInventory_DDP_InsetPage.mxd



RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
INSET PAGE 2J-5

- Tree
- Shrub
- Tree Inventory Study Area (20m)
- Property Parcel



SCALE 1:150

0 1 2 4 m

2

MAP DRAWING INFORMATION:
DATA PROVIDED BY MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-10

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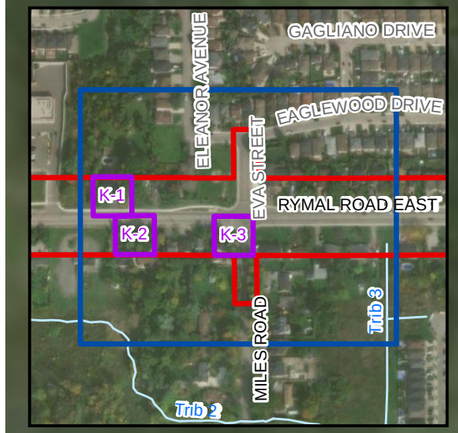

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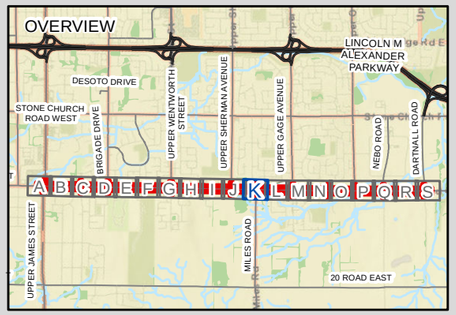
694
806
247
359
1055
58
942
582
471
283
395
618
507
45
171
158

RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
INSET PAGE 2K-1

(Tree
(Shrub
Tree Inventory Study Area (20m)
Property Parcel



SCALE 1:150

0 1 2 4 m

2

MAP DRAWING INFORMATION:
DATA PROVIDED BY MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority

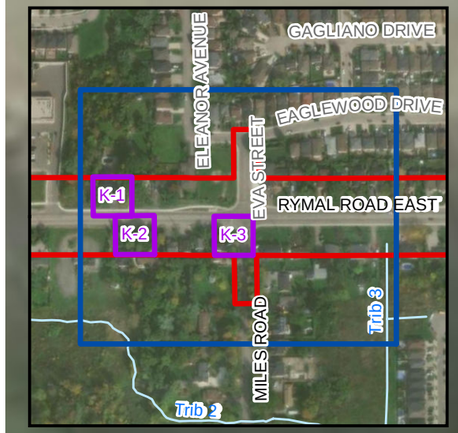
MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-10

FILE LOCATION: K:\2020\203410\Product\Client\APU\203410_APU2c_TreeInventory_DDP_InsetPage.mxd

RYMAL ROAD EAST

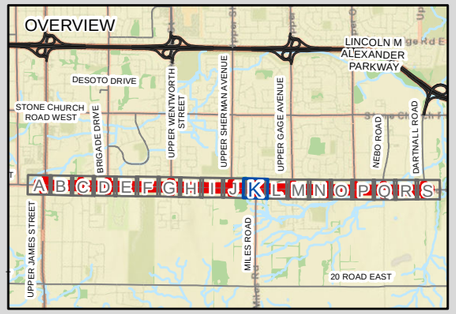


809 406 697 585 517 629 740 852 965 69 1034 182 921 294 228 138 193 941 25 340 250 362 115 2 474

RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
INSET PAGE 2K-2

- Tree
- Shrub
- Tree Inventory Study Area (20m)
- Property Parcel



SCALE 1:150

0 1 2 4 m

2

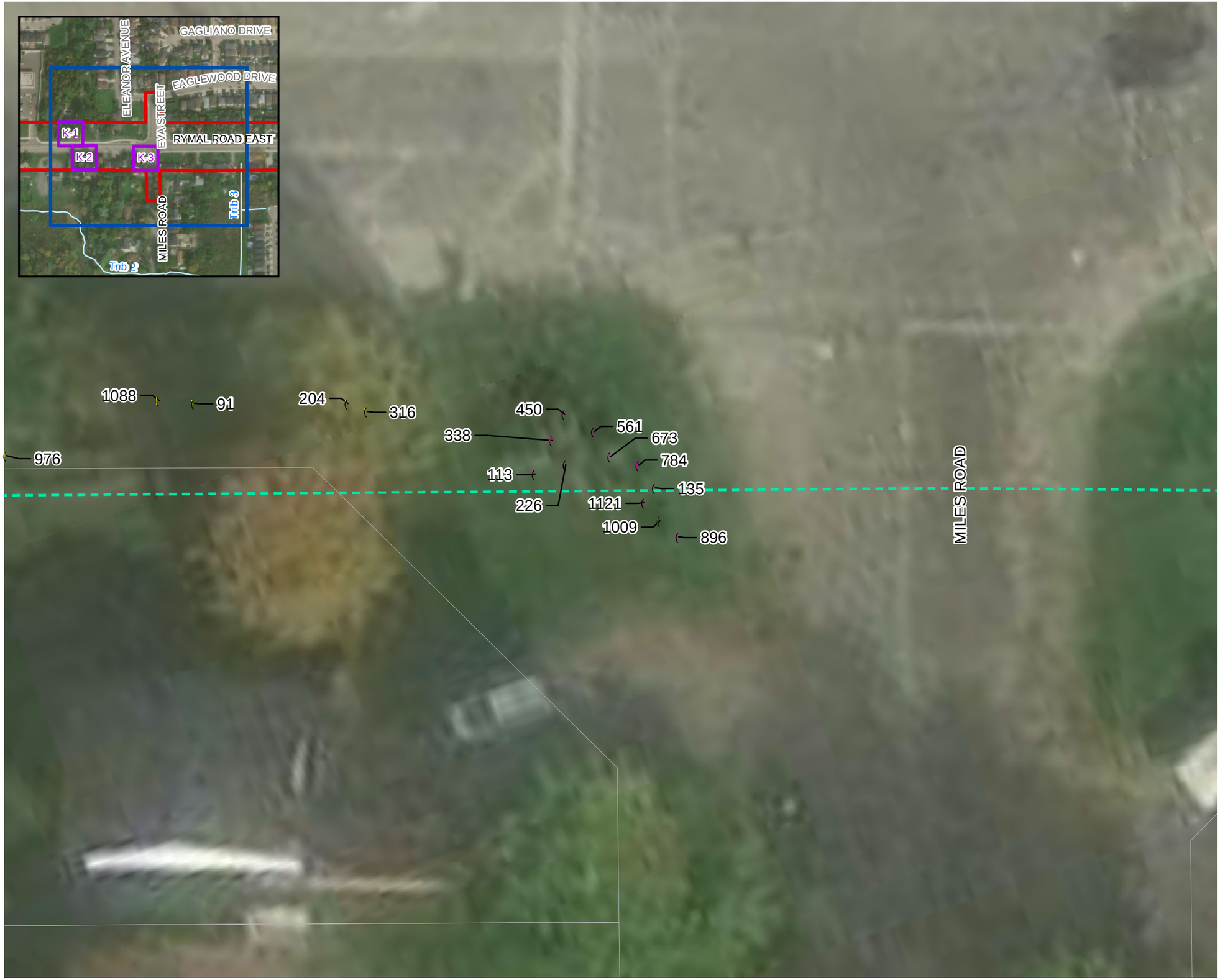
MAP DRAWING INFORMATION:
DATA PROVIDED BY MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-10

FILE LOCATION: K:\2020\203410\Product\Client\APU\203410_APU2c_TreeInventory_DDP_InsetPage.mxd



RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
INSET PAGE 2K-3

- Tree
- Shrub
- Tree Inventory Study Area (20m)
- Property Parcel



SCALE 1:150

0 1 2 4 m

2

MAP DRAWING INFORMATION:
DATA PROVIDED BY MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-10

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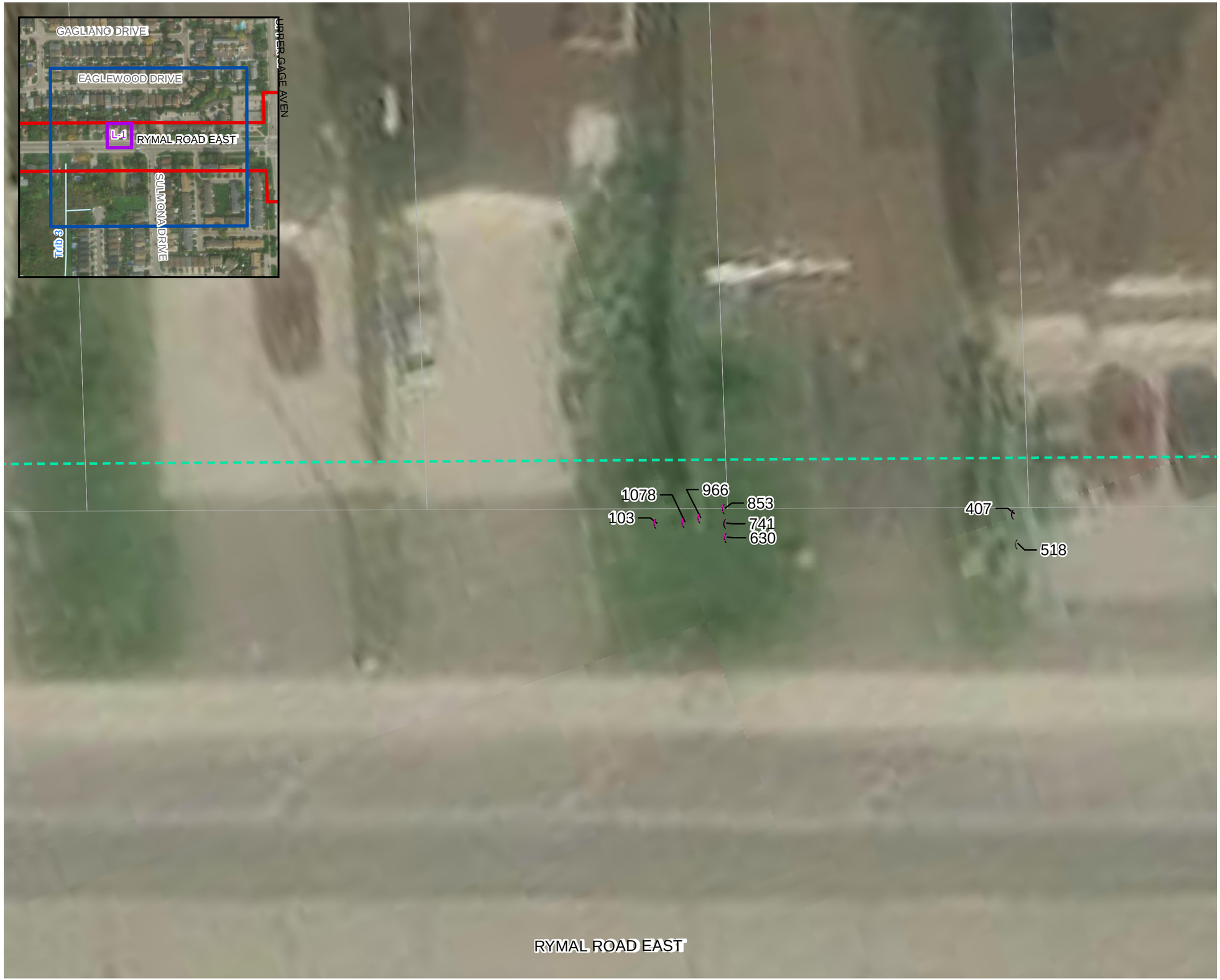
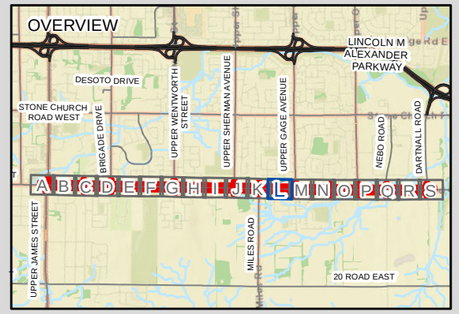


RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
INSET PAGE 2L-1

- Shrub
- Tree Inventory Study Area (20m)
- Property Parcel



SCALE 1:150

0 1 2 4 m

2

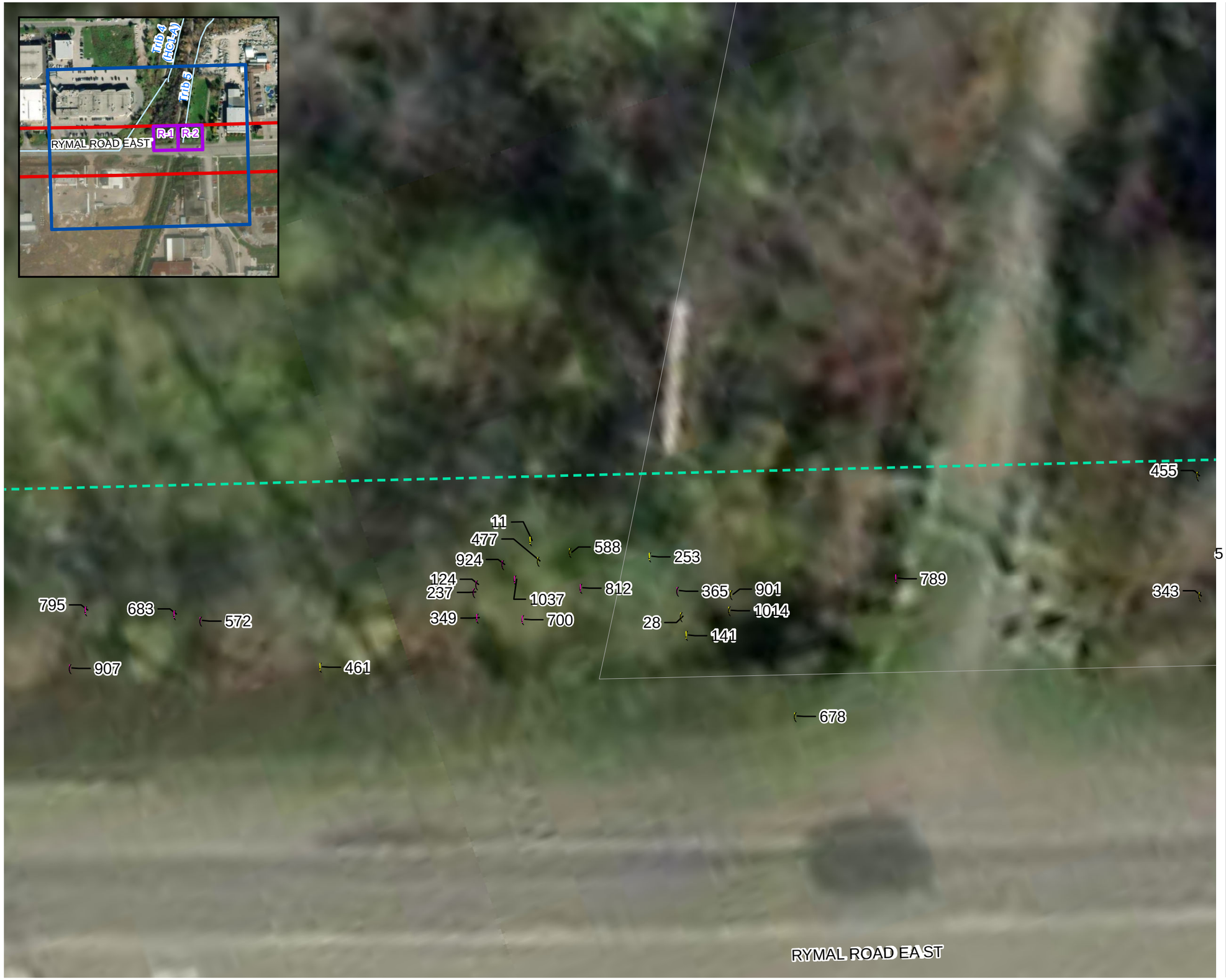
MAP DRAWING INFORMATION:
DATA PROVIDED BY MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-10

FILE LOCATION: K:\2020\203410\Product\Client\APU\203410_APU2c_TreeInventory_DDP_InsetPage.mxd



RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

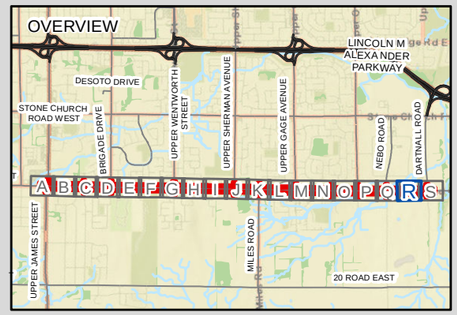
TREE INVENTORY
INSET PAGE 2R-1

(Tree

(Shrub

Tree Inventory Study Area (20m)

Property Parcel



SCALE 1:150

0 1 2 4 m

2

MAP DRAWING INFORMATION:
DATA PROVIDED BY MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-10

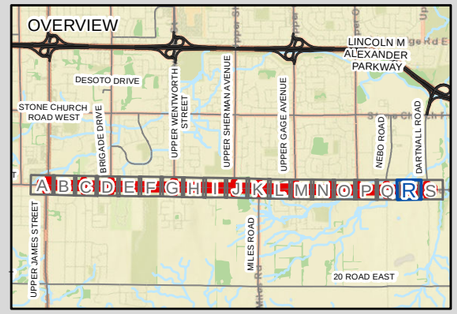
FILE LOCATION: K:\2020\203410\Product\Client\APU\203410_APU2c_TreeInventory_DDP_InsetPage.mxd



RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TREE INVENTORY
INSET PAGE 2R-2

- Tree
- Shrub
- Tree Inventory Study Area (20m)
- Watercourse
- Property Parcel



SCALE 1:150

0 1 2 4 m

2

MAP DRAWING INFORMATION:
DATA PROVIDED BY MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

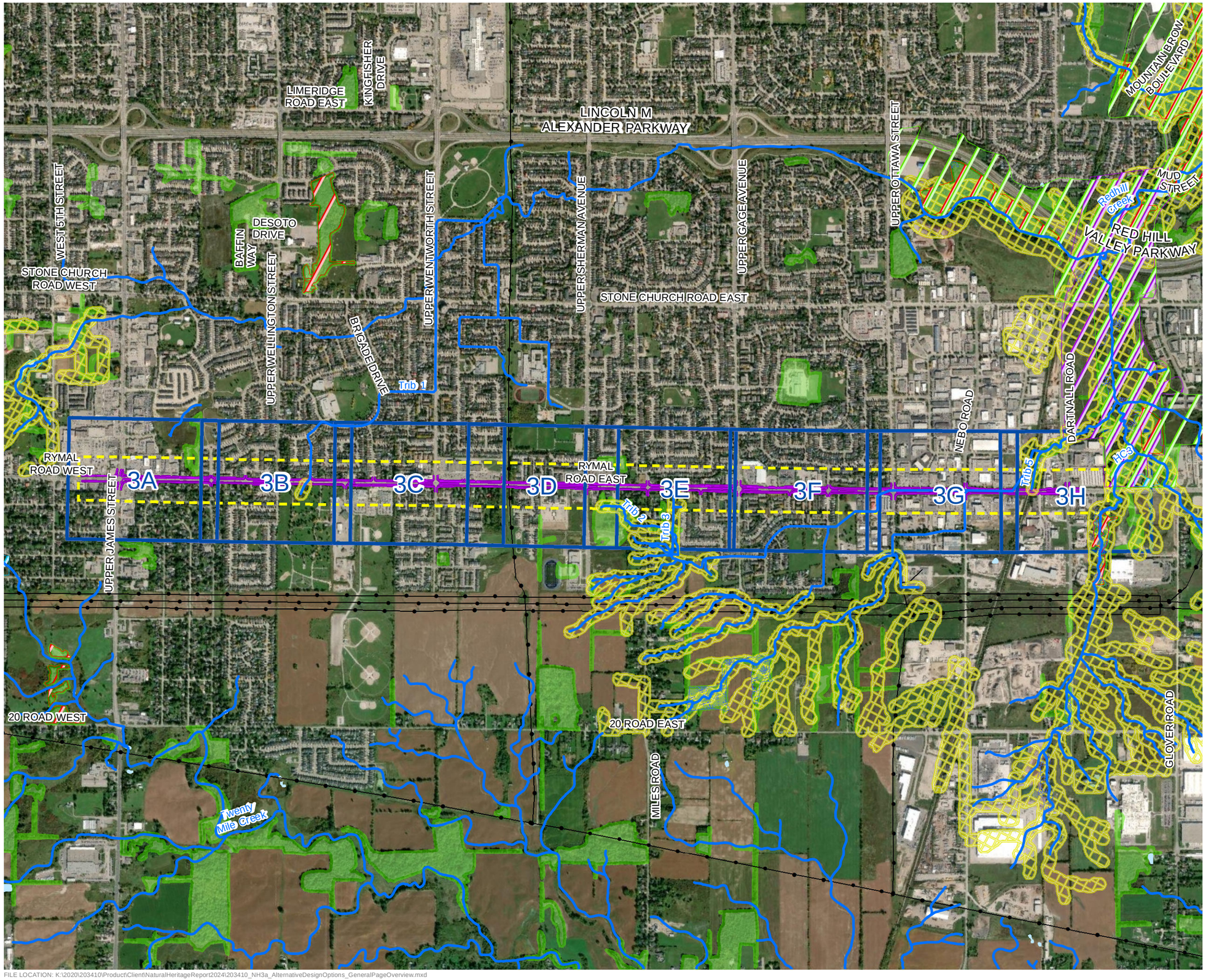
DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-10

FILE LOCATION: K:\2020\203410\Product\Client\APU\203410_APU2c_TreeInventory_DDP_InsetPage.mxd

Figure 3

Recommended Design and Environmental Constraints



RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

RECOMMENDED DESIGN
AND ENVIRONMENTAL CONSTRAINTS
FIGURE 3

- Natural Heritage Study Area (120m)
- Recommended Design
- Page
- Utility Line
- Watercourse
- Water Body
- Wetland
- Hamilton Conservation Authority Regulated Area
- Woodland (Potential for Species At Risk)

Designated Natural H eritage Features
(Urban Hamilton Official Plan)

- Key Hydrologic Feature Lakes and Littoral Zones
- Key Natural Heritage Feature Significant Woodlands
- Local Natural Area Environmentally Significant Area
- Niagara Escarpment Plan Designations

SCALE 1:20,000

0 130 260 520 m

2

MAP DRAWING INFORMATION:
DATA PROVIDED BY LIO/MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority, ESRI Imagery Basemap

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-11

FILE LOCATION: K:\2020\203410\Product\Client\NaturalHeritageReport2024\203410_NH3a_AlternativeDesignOptions_GeneralPageOverview.mxd



RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

RECOMMENDED DESIGN
AND ENVIRONMENTAL CONSTRAINTS
FIGURE 3A

Recommended Design
- Multi Use Path
- Sidewalk
- Project Buffer 0.5m
- Bus Pad
- Curb
- Median
- Natural Heritage Study Area (120m)
- Watercourse
- Water Body
- Hamilton Conservation Authority Regulated Area
- Woodland (Potential for Species At Risk)
- Property Parcel

Designated Natural Heritage Features
(Urban Hamilton Official Plan)
- Key Hydrologic Feature Lakes and Littoral Zones
- Key Natural Heritage Feature Significant Woodlands
- Local Natural Area Environmentally Significant Area
- Niagara Escarpment Plan Designations

SCALE 1:2,500

0 15 30 60 m

2

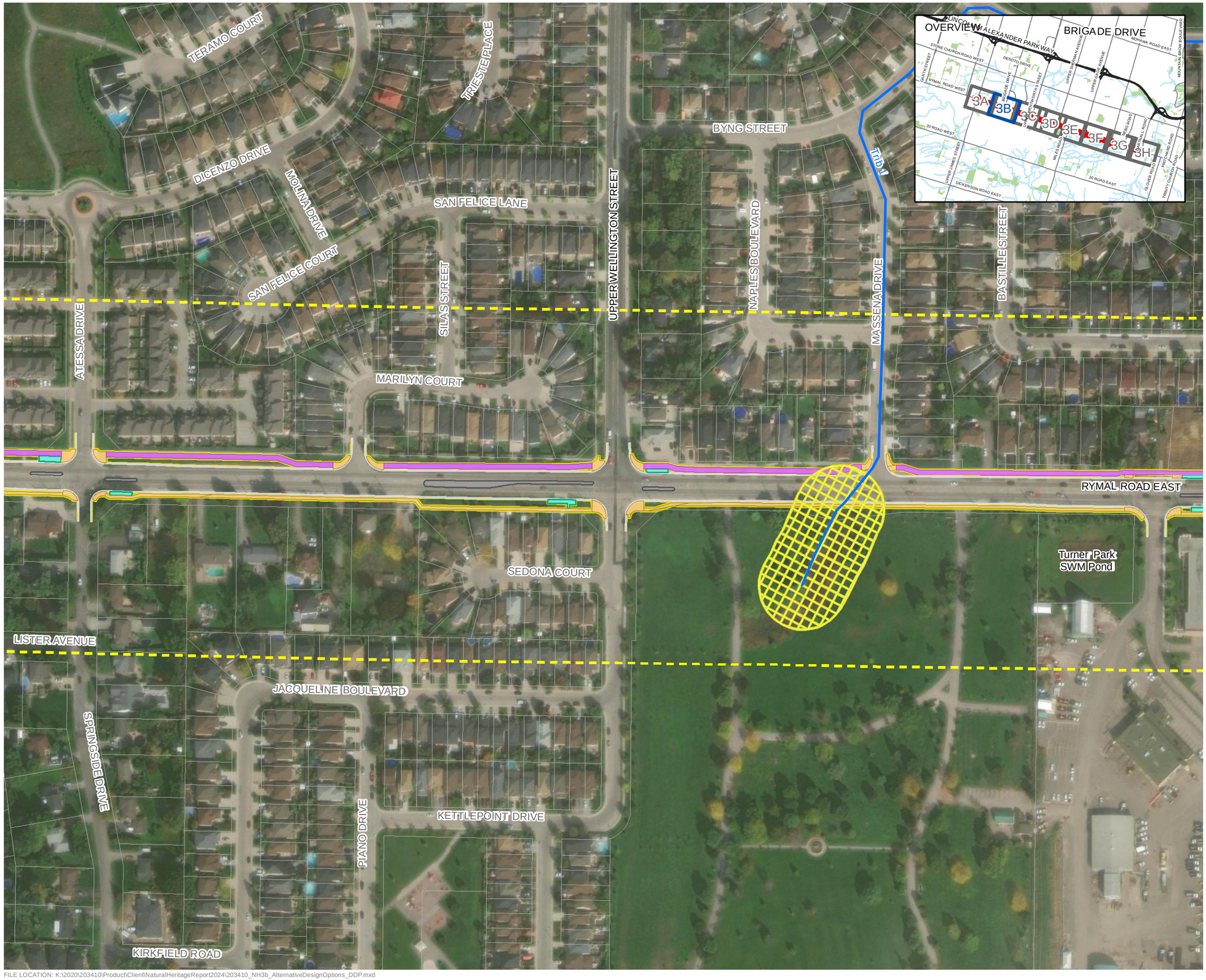
MAP DRAWING INFORMATION:
DATA PROVIDED BY LIO/MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority, ESRI Imagery Basemap

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-11

FILE LOCATION: K:\2020\203410\Product\Client\NaturalHeritageReport2024\203410_NH3b_AlternativeDesignOptions_DDP.mxd



RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

RECOMMENDED DESIGN
AND ENVIRONMENTAL CONSTRAINTS
FIGURE 3B

Recommended Design
- Multi Use Path
- Sidewalk
- Project Buffer 0.5m
- Bus Pad
- Curb
- Median
- Natural Heritage Study Area (120m)
- Watercourse
- Hamilton Conservation Authority Regulated Area
- Woodland (Potential for Species At Risk)
- Property Parcel

Designated Natural Heritage Features
(Urban Hamilton Official Plan)
- Key Hydrologic Feature Lakes and Littoral Zones
- Key Natural Heritage Feature Significant Woodlands
- Local Natural Area Environmentally Significant Area
- Niagara Escarpment Plan Designations

SCALE 1:2,500

0 15 30 60 m

2

MAP DRAWING INFORMATION:
DATA PROVIDED BY LIO/MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority, ESRI Imagery Basemap

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-11

FILE LOCATION: K:\2020\203410\Product\Client\NaturalHeritageReport2024\203410_NH3b_AlternativeDesignOptions_DDP.mxd



RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

RECOMMENDED DESIGN
AND ENVIRONMENTAL CONSTRAINTS
FIGURE 3C

Recommended Design
- Multi Use Path
- Sidewalk
- Project Buffer 0.5m
- Bus Pad
- Curb
- Median
- Natural Heritage Study Area (120m)
- Utility Line
- Watercourse
- Hamilton Conservation Authority Regulated Area
- Woodland (Potential for Species At Risk)
- Property Parcel

Designated Natural Heritage Features
(Urban Hamilton Official Plan)
- Key Hydrologic Feature Lakes and Littoral Zones
- Key Natural Heritage Feature Significant Woodlands
- Local Natural Area Environmentally Significant Area
- Niagara Escarpment Plan Designations

SCALE 1:3,000

0 20 40 80 m

2

MAP DRAWING INFORMATION:
DATA PROVIDED BY LIO/MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority, ESRI Imagery Basemap

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-11

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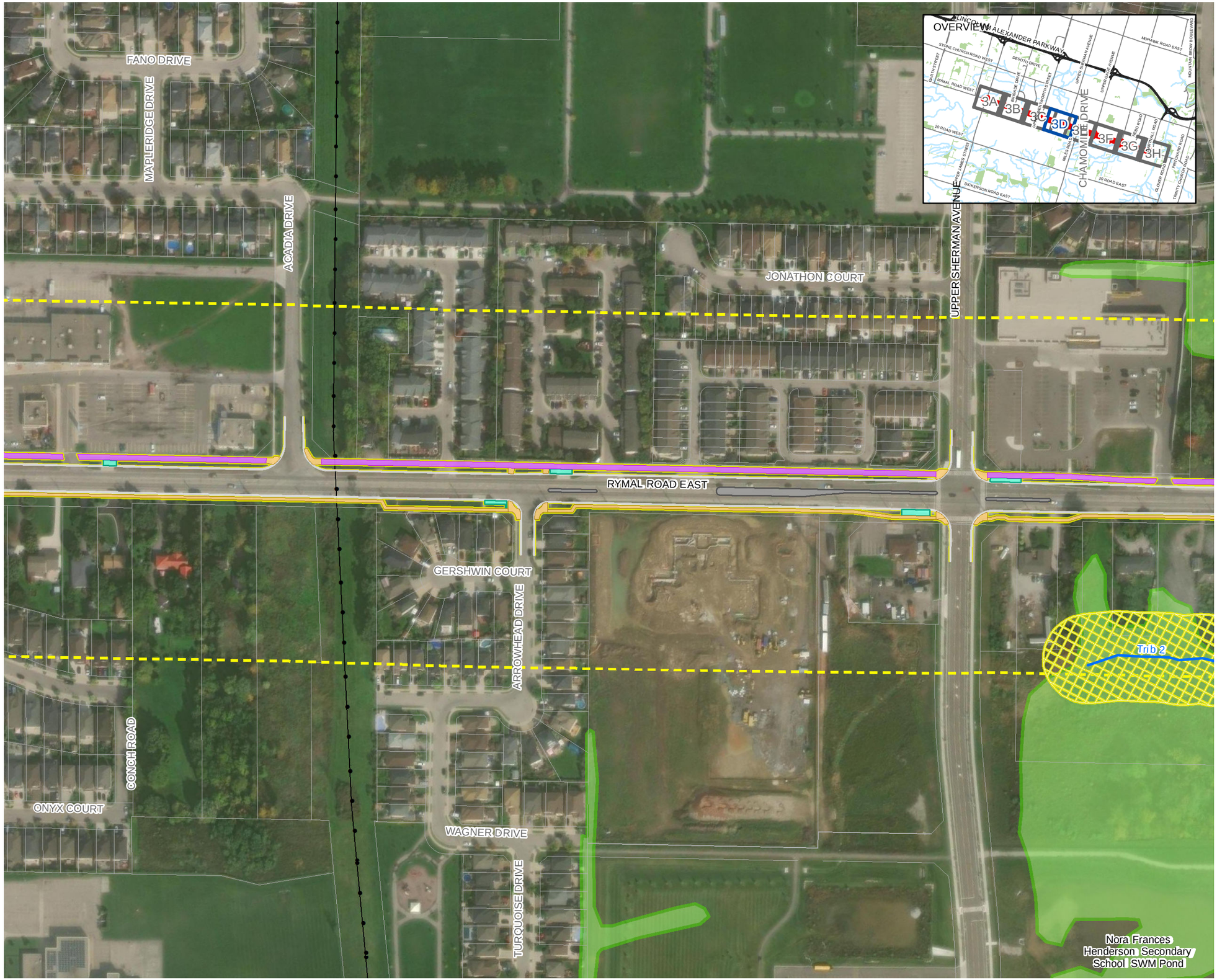

RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

RECOMMENDED DESIGN
AND ENVIRONMENTAL CONSTRAINTS
FIGURE 3D

Recommended Design
- Multi Use Path
- Sidewalk
- Project Buffer 0.5m
- Bus Pad
- Curb
- Median
- Natural Heritage Study Area (120m)
- Utility Line
- Watercourse
- Hamilton Conservation Authority Regulated Area
- Woodland (Potential for Species At Risk)
- Property Parcel

Designated Natural Heritage Features
(Urban Hamilton Official Plan)
- Key Hydrologic Feature Lakes and Littoral Zones
- Key Natural Heritage Feature Significant Woodlands
- Local Natural Area Environmentally Significant Area
- Niagara Escarpment Plan Designations

SCALE 1:2,500

0 15 30 60 m

2

MAP DRAWING INFORMATION:
DATA PROVIDED BY LIO/MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority, ESRI Imagery Basemap

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-11

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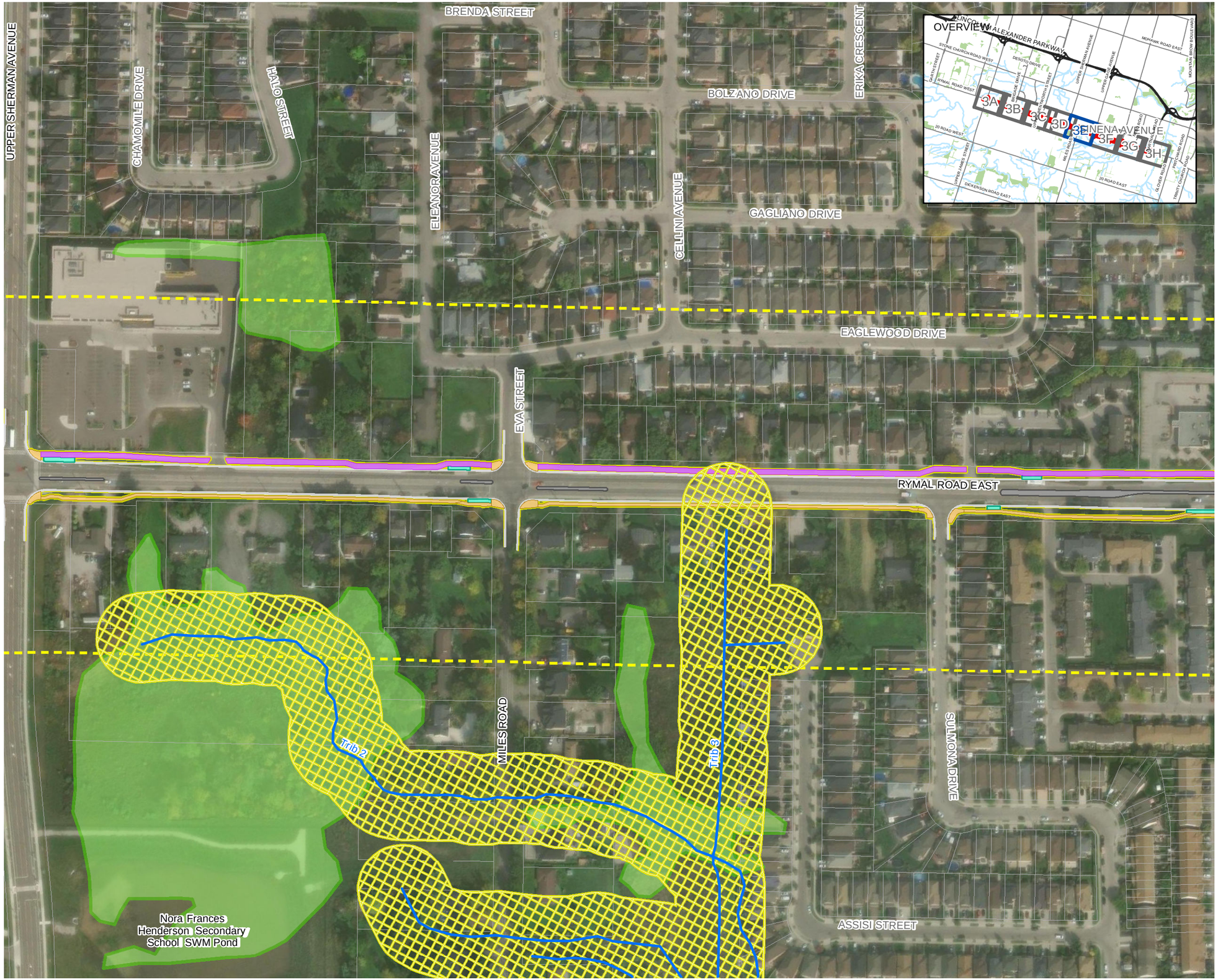


RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

RECOMMENDED DESIGN
AND ENVIRONMENTAL CONSTRAINTS
FIGURE 3E

Recommended Design
- Multi Use Path
- Sidewalk
- Project Buffer 0.5m
- Bus Pad
- Curb
- Median
- Natural Heritage Study Area (120m)
- Watercourse
- Hamilton Conservation Authority Regulated Area
- Woodland (Potential for Species At Risk)
- Property Parcel

Designated Natural Heritage Features
(Urban Hamilton Official Plan)
- Key Hydrologic Feature Lakes and Littoral Zones
- Key Natural Heritage Feature Significant Woodlands
- Local Natural Area Environmentally Significant Area
- Niagara Escarpment Plan Designations

SCALE 1:2,500

0 15 30 60 m

2

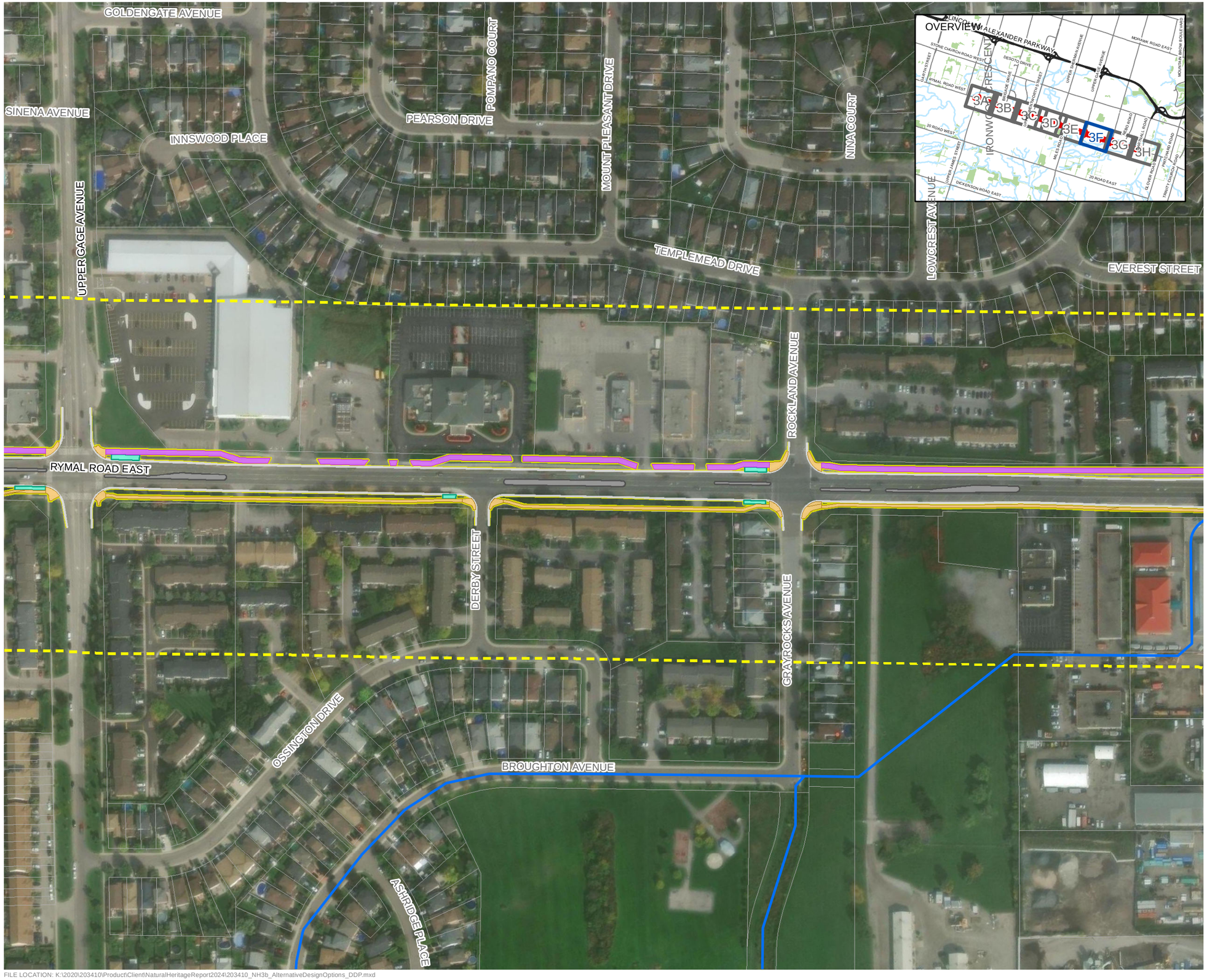
MAP DRAWING INFORMATION:
DATA PROVIDED BY LIO/MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority, ESRI Imagery Basemap

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-11

FILE LOCATION: K:\2020\203410\Product\Client\NaturalHeritageReport2024\203410_NH3b_AlternativeDesignOptions_DDP.mxd



RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

RECOMMENDED DESIGN
AND ENVIRONMENTAL CONSTRAINTS
FIGURE 3F

Recommended Design
- Multi Use Path
- Sidewalk
- Project Buffer 0.5m
- Bus Pad
- Curb
- Median
- Natural Heritage Study Area (120m)
- Watercourse
- Hamilton Conservation Authority Regulated Area
- Woodland (Potential for Species At Risk)
- Property Parcel

Designated Natural Heritage Features
(Urban Hamilton Official Plan)
- Key Hydrologic Feature Lakes and Littoral Zones
- Key Natural Heritage Feature Significant Woodlands
- Local Natural Area Environmentally Significant Area
- Niagara Escarpment Plan Designations

SCALE 1:2,500

0 15 30 60 m

2

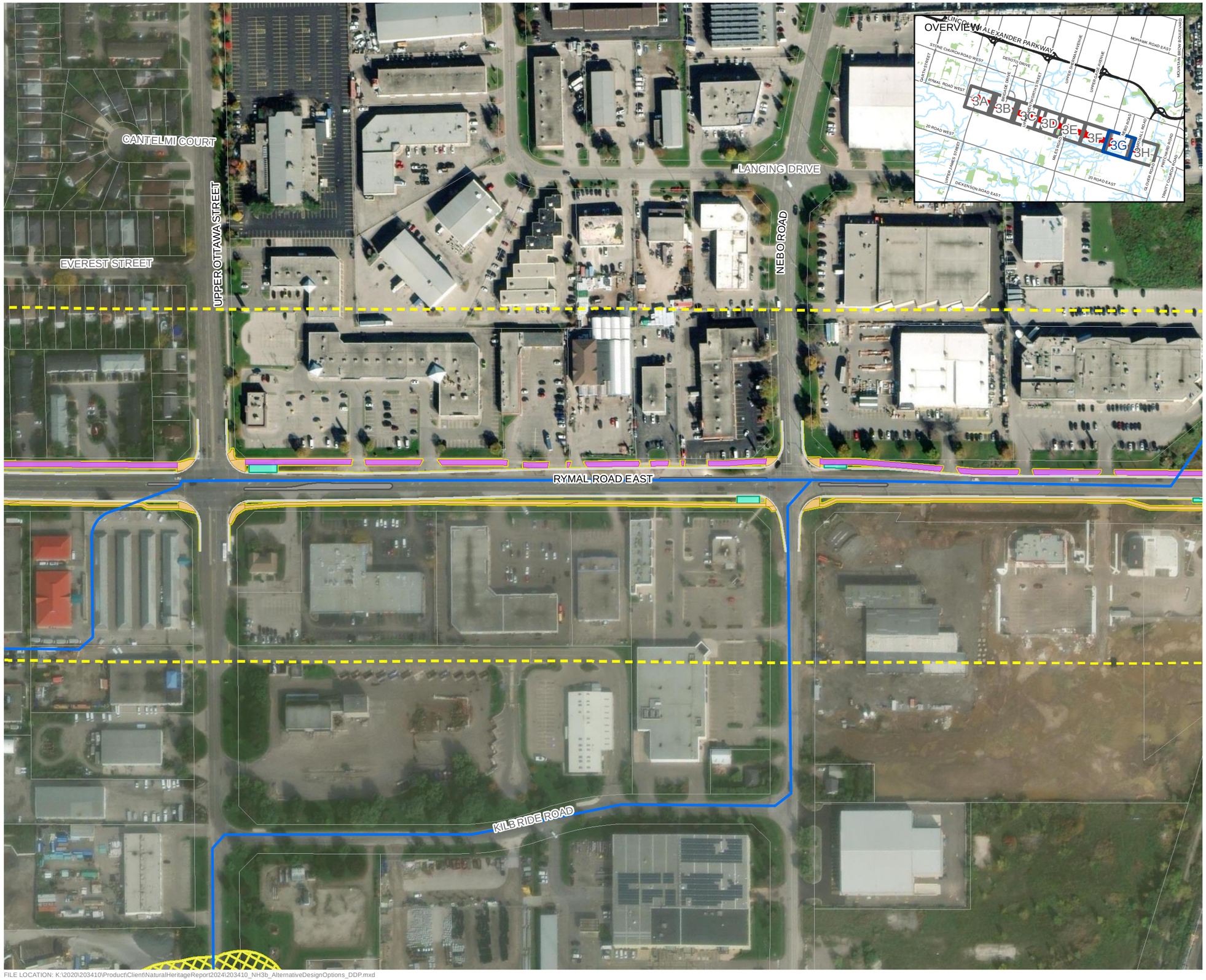
MAP DRAWING INFORMATION:
DATA PROVIDED BY LIO/MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority, ESRI Imagery Basemap

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-11

FILE LOCATION: K:\2020\203410\Product\Client\NaturalHeritageReport2024\203410_NH3b_AlternativeDesignOptions_DDP.mxd



RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

RECOMMENDED DESIGN
AND ENVIRONMENTAL CONSTRAINTS
FIGURE 3G

Recommended Design
- Multi Use Path
- Sidewalk
- Project Buffer 0.5m
- Bus Pad
- Curb
- Median
- Natural Heritage Study Area (120m)
- Watercourse
- Hamilton Conservation Authority Regulated Area
- Woodland (Potential for Species At Risk)
- Property Parcel

Designated Natural Heritage Features
(Urban Hamilton Official Plan)
- Key Hydrologic Feature Lakes and Littoral Zones
- Key Natural Heritage Feature Significant Woodlands
- Local Natural Area Environmentally Significant Area
- Niagara Escarpment Plan Designations

SCALE 1:2,500

0 15 30 60 m

2

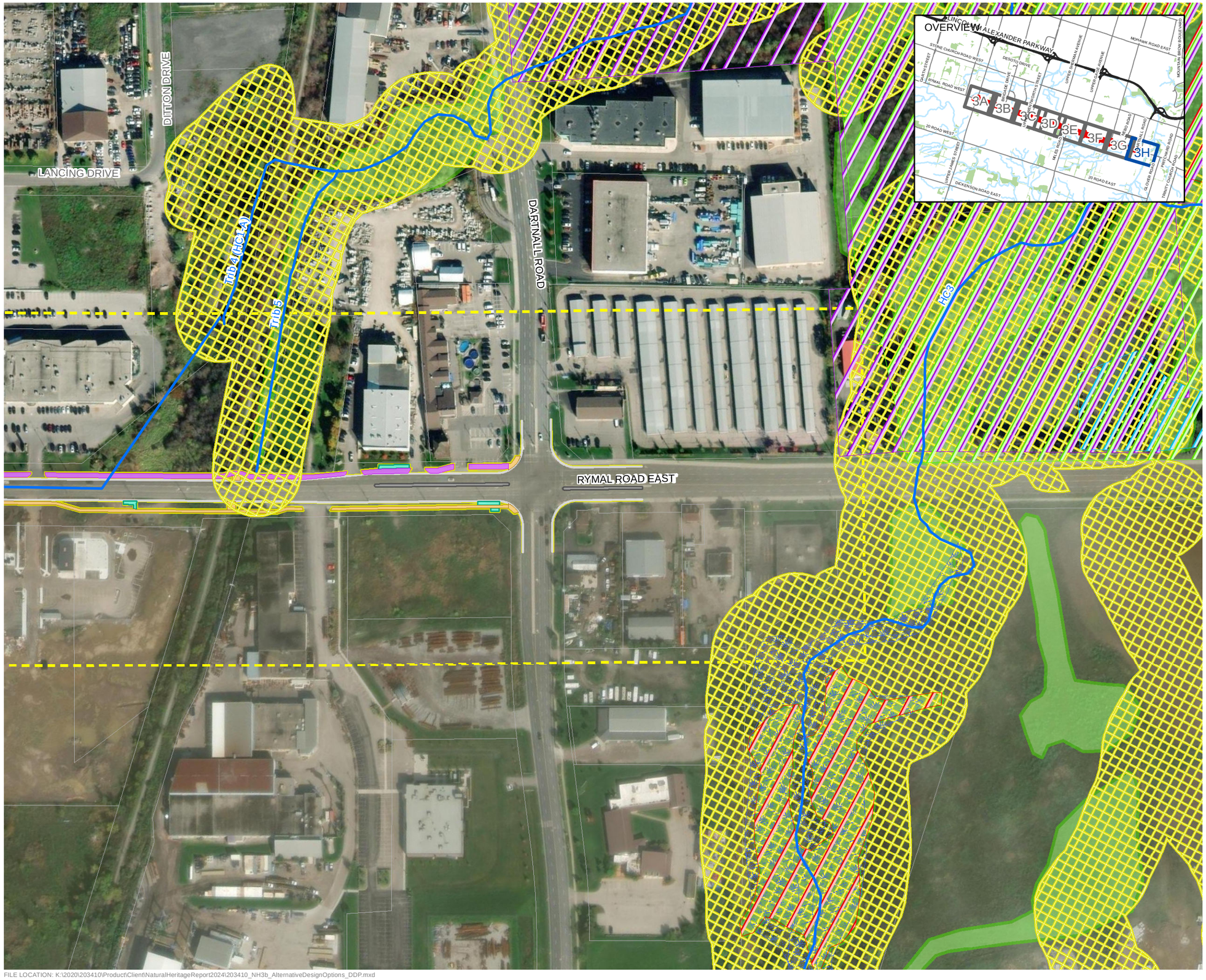
MAP DRAWING INFORMATION:
DATA PROVIDED BY LIO/MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority, ESRI Imagery Basemap

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-11

FILE LOCATION: K:\2020\203410\Product\Client\NaturalHeritageReport2024\203410_NH3b_AlternativeDesignOptions_DDP.mxd



RYMAL ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

RECOMMENDED DESIGN
AND ENVIRONMENTAL CONSTRAINTS
FIGURE 3H

Recommended Design
- Multi Use Path
- Sidewalk
- Project Buffer 0.5m
- Bus Pad
- Curb
- Median
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- Watercourse
- Wetland
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Designated Natural Heritage Features
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- Key Hydrologic Feature Lakes and Littoral Zones
- Key Natural Heritage Feature Significant Woodlands
- Local Natural Area Environmentally Significant Area
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SCALE 1:2,500

0 15 30 60 m

2

MAP DRAWING INFORMATION:
DATA PROVIDED BY LIO/MNRF, City of Hamilton Offical Plan Schedule, Hamilton Region Conservation Authority, ESRI Imagery Basemap

MAP CREATED BY: LMM/DU
MAP CHECKED BY: CC/JB
MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

DILLON CONSULTING

PROJECT: 20-3410
STATUS: DRAFT
DATE: 2024-09-11

FILE LOCATION: K:\2020\203410\Product\Client\NaturalHeritageReport2024\203410_NH3b_AlternativeDesignOptions_DDP.mxd

Appendix A

Policy Schedules

Key Map

N.T.S.

Rural

Urban

Note: For Rural Natural Heritage Features refer to Schedule B of the Rural Hamilton Official Plan.

APPEAL

The southern urban boundary that generally extends from Upper Centennial Parkway and Mud Street East in the east, following the hydro corridor and encompassing the Red Hill Business Park to Upper James Street remains under appeal - see illustration on Schedules E and E-1, Volume 1.

★ Lands Under Appeal

- 313 Stone Church Road East & lands bounded by Stone Church Road East, Upper Wellington Street, Lincoln M

Legend

- Core Areas
- Area Specific Policy - USC-1 and USC-2 in Volume 3
- Linkages
- Parks & General Open Space (Excluding Parkettes)

Other Features

- Rural Area
- Niagara Escarpment
- Urban Boundary
- Municipal Boundary

Effective Date: August 16, 2013

Urban Hamilton Official Plan Schedule B

Natural Heritage System

North

Scale

Date: February 2021

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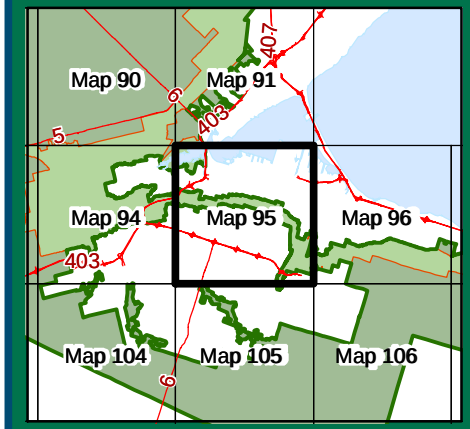
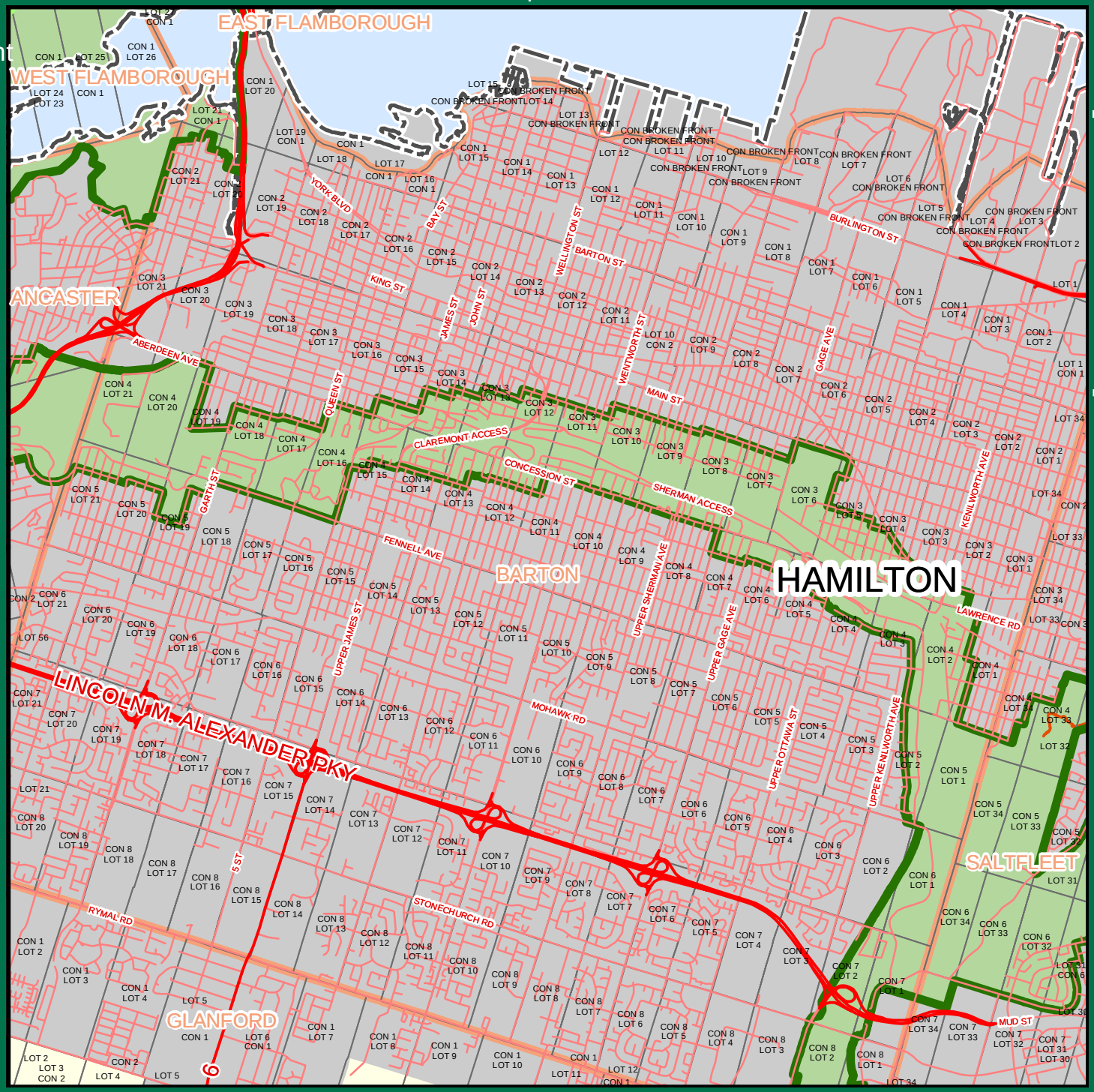
Map 95

Greenbelt Plan
Map division and enlargement





LEGEND

Ontario

- Greenbelt Area*
  - Protected Countryside
  - Towns and Villages
  - Niagara Escarpment Plan Area
  - Oak Ridges Moraine Area
- Settlement Areas Outside the Greenbelt
- Natural Hertiage System
- River Valley Connections
- Upper-tier Municipal Boundaries
- Single-tier Municipal Boundaries
- Lots and Concessions
- Major/Minor Roads
- Geographic Township
- Water

Projection: UTM zone 17 NAD83
copyright Queen's Printer for Ontario, February 28, 2005

Produced and data sources by the Ministry of Agriculture and Food, Ministry of Municipal Affairs and Housing and Ministry of Natural Resources

Additional Data Sources: DMTI Spatial Inc.

Notes:
Settlement boundaries reflect current municipal Official Plans. For precise boundaries and locations of Settlement Areas (Towns/Villages and Hamlets) the appropriate municipalities should be consulted.

The information displayed on this map has been compiled from various sources. While every effort has been made to accurately depict the information, this map should not be relied on as being a precise indicator of locations of features or roads nor as a guide to navigation.

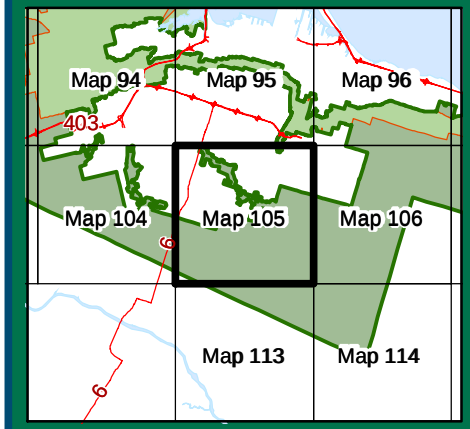
* Ontario Regulation 59/05

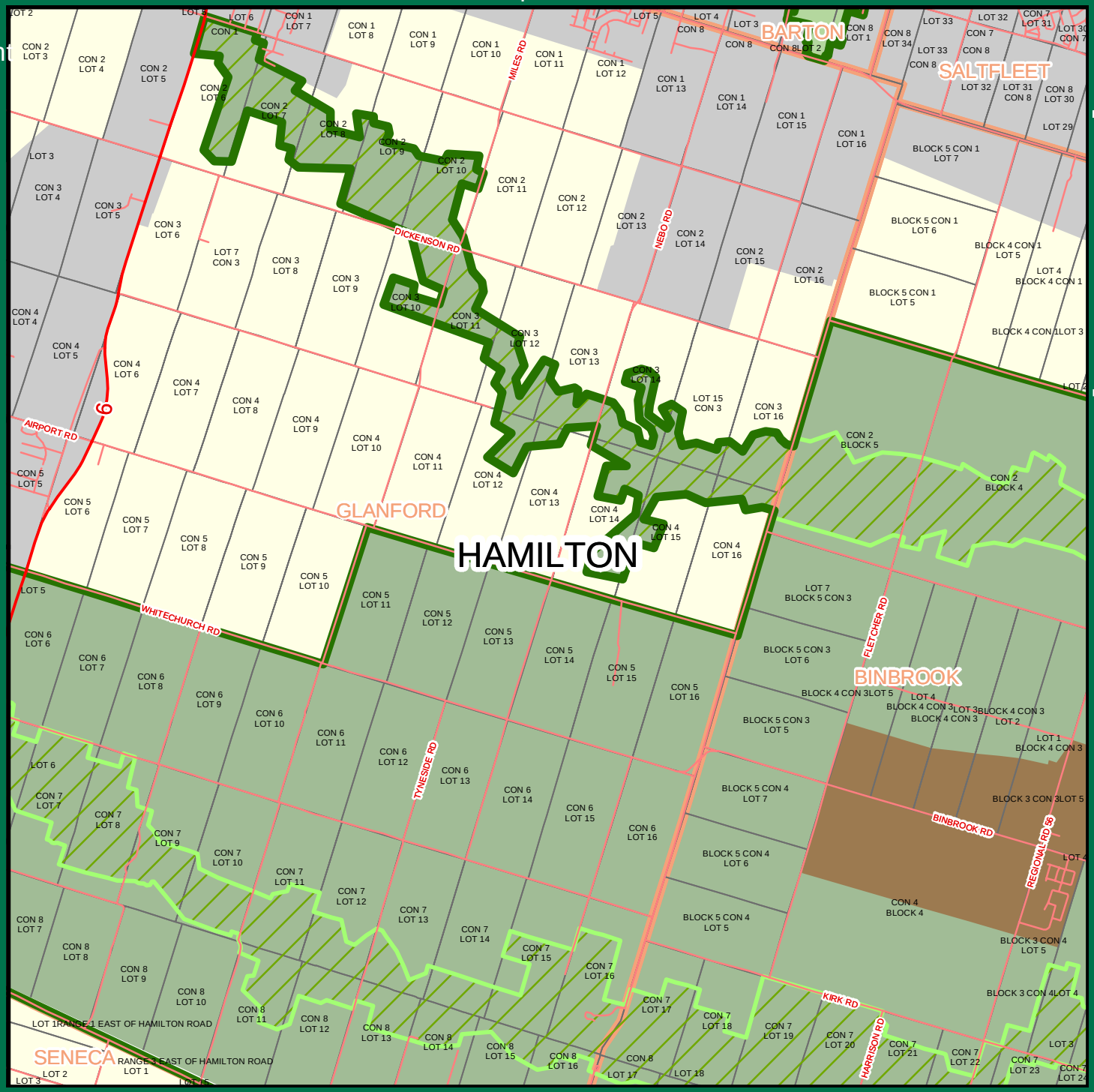
0.5 0.25 0 0.5 1 1.5
Kilometres

g r e e n b e l t

Map 105

Greenbelt Plan
Map division and enlargement





LEGEND

Ontario

- Greenbelt Area*
  - Protected Countryside
  - Towns and Villages
  - Niagara Escarpment Plan Area
  - Oak Ridges Moraine Area
- Settlement Areas Outside the Greenbelt
- Natural Hertiage System
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- Upper-tier Municipal Boundaries
- Single-tier Municipal Boundaries
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- Major/Minor Roads
- Geographic Township
- Water

Projection: UTM zone 17 NAD83
copyright Queen's Printer for Ontario, February 28, 2005

Produced and data sources by the Ministry of Agriculture and Food, Ministry of Municipal Affairs and Housing and Ministry of Natural Resources

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Notes:
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The information displayed on this map has been compiled from various sources. While every effort has been made to accurately depict the information, this map should not be relied on as being a precise indicator of locations of features or roads nor as a guide to navigation.

* Ontario Regulation 59/05

0.5 0.25 0 0.5 1 1.5
Kilometres

g r e e n b e l t

Town of Milton

5HJLRQDO
0XQLFLSDOLW\
RI+DOWRQ

City of Burlington

: HOOQJWRQ
&RXQW\

Township of Puslinch

Town of Grimsby

5HJLRQDO
0XQLFLSDOLW\
RI:DWHUORR

Township of North Dumfries

5HJLRQDO
0XQLFLSDOLW\
RI1LDJDUD

Township of West Lincoln

%UDQW
&RXQW\

.H\0DS

1RWH: For Rural Detailed Natural Heritage Features refer to Schedule B-4 of the Rural Hamilton Official Plan.

$33(/

7KH WRXWKHUQ RXQGDU\ RI WKH JHRJUDSKLF DUHD FRYHUHG E\ WKLV SODQ LV FRLQFLGHQW ZLWK WKH 8SSHU &DQDGD 0XG 6(DVWHUQ WLPH]RQH DQG FRUUHVSRQGV WR WKH 5HG %XLOG -DPHV WR WKH 8SSHU -DPHV XQGDU\ RI WKH 5HJLRQDO 0XQLFLSDOLW\ RI 1LDJDUD

/HJHQG

.H\1DWXUDO +HULWDJH)HDWXUH

.H\+\GURORJLF)HDWXUH

:HWODQGV

2WKHU)HDWXUHV

5XUDO $UHD

-RKQ & 0XQUR +DPLOWRQ ,QWHUQDWLRQDO $LUSRUW

1LDJDUD 3HQLQVXOD 6WXG\

8UEDQ %RXQGDU\

0XQLFLSDO %RXQGDU\

Council Adopted: July 9, 2009
Ministerial Approval: March 16, 2011
Effective Date: August 16, 2013

Urban Hamilton Official Plan
Schedule B-4

'HWDLOHG 1DWXUDO +HULWDJH)HDWXUHV
.H\ 1DWXUDO +HULWDJH)HDWXUH
+\GURORJLF)HDWXUH :HWODQGV

1RW 7R 6FDOH

'DWH:

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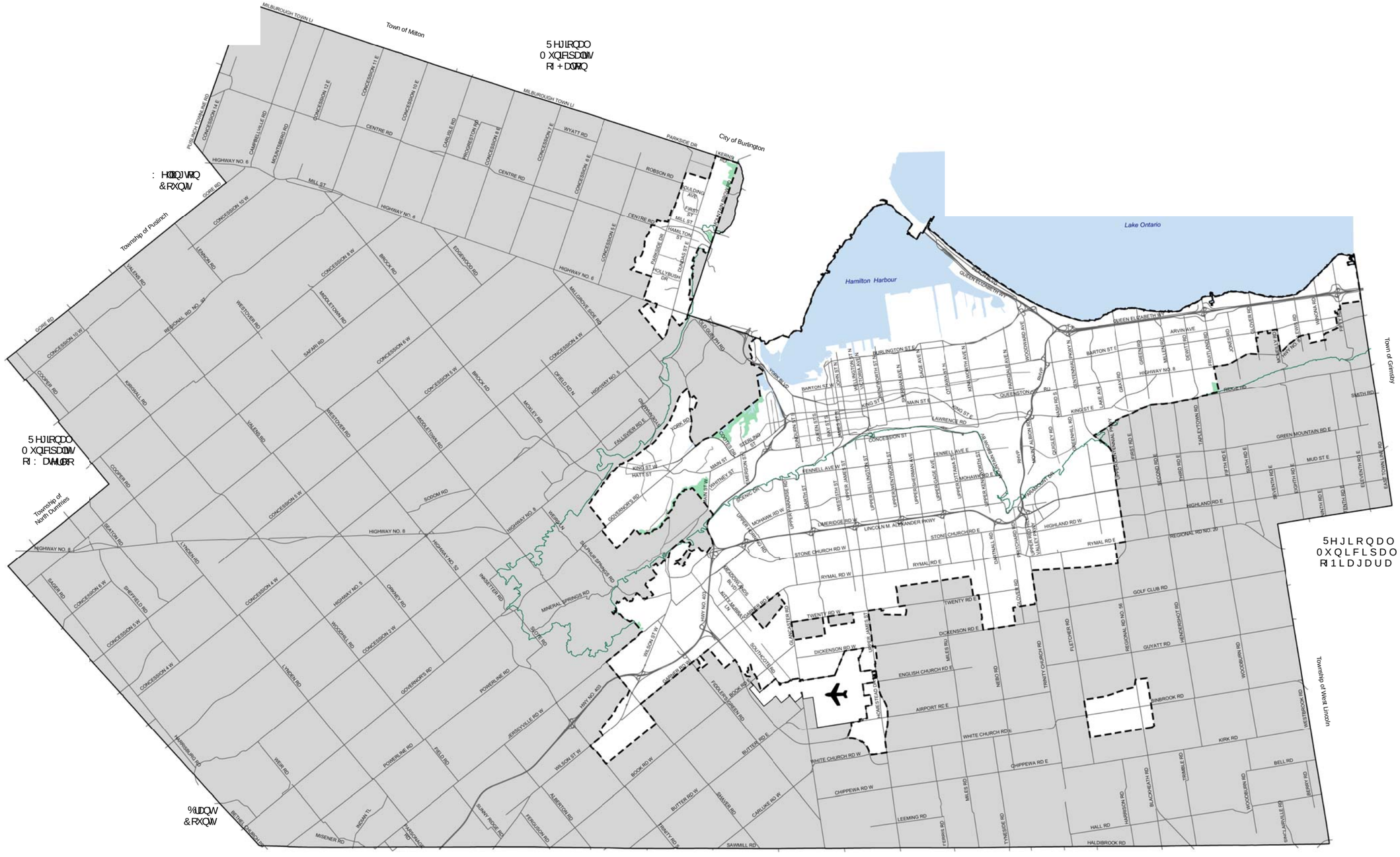

1 R W Fer Rural Detailed Natural Heritage Features refer to Schedule B-1 of the Rural Hamilton Official Plan.

$33(/

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8SSHUHQWHQ3QLDQG\
DQG 0XXWUHDWWWLKH
HDVWRROORZLKJ K\G
FRUULDQRHQFRPSDVV
WKH 5HG%X+LOOHDVWR
8SSHUPHPV 6WUHHWWQ
XQGHUSDVVHDFHOOXVU
RQ6FKHGXOHDQG
9ROXPH

/HJHQG

.H\1DWXUDO +HULW
)HDWXUH /LH 6FH
2WKHU+HULWDJH
5XUDO $UHD
-RKQ & 0XUU +DP
,QWHUQDWLRQDO $
1LDJDUD (VFDUSH
8UEDQ %RXQGDU\
0XQLFLSDO%RXQGDU

Council Adopted: July 9, 2009
Ministerial Approval: March 16, 2011
Effective Date: August 16, 2013

Urban Hamilton Official Plan
Schedule B-1
'HWDLOHG +HULWDJH)HDWXUH
.H\ 1DWXUDO +HULW
/LH 6FHQLF $16,

1RW 7R 6FDOH

'DWH

PLANNING & ECONOMIC DEVELOPMENT DEPARTMEN

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1 R WFor Rural Detailed Natural Heritage Features refer to Schedule B-7 of the Rural Hamilton Official Plan.

$33(/

7KHVH URXWKHUQ RXQGDULHV WKDW JHRJUDSKLFDOO\ 8SSHU &HQWUDO DQG 0XG 6WUHHWV HDVWZDUGV FRUUHVSRQG WKH%ULOO %RXQGDU\ 8SSHU-RKQ 6WUHHWV HDVWZDUGV RQ6FKHGXOHV

/HJHQG

/RFDO 1DWXUDO $UHD (DUWK 6FLHQFH $16
$UHD 6SHFLILF 3RO 86& DQG 86& LQ 9ROXPH
2WKHU)HDWXUHV
5XUDO $UHD
-RKQ & 0XUU ~DP ,QWHUQDWLRQDO $
1LDJDUD (VFDUSPH
8UEDQ %RXQGDU\
0XQLFLSDO %RXQGDU\

Council Adopted: July 9, 2009
Ministerial Approval: March 16, 2011
Effective Date: August 16, 2013

Urban Hamilton Official Plan
Schedule B-7
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/RFDO DQG 6LJQLILFDQW (DUWK 6FLHQFH $UHDV

1RW 7R 6FDOH

'DWH

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Appendix B

SCC and SAR Screening Tables

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, •‰ Œ]]	µšš Œ(vo] D}šZ•	• Œ Çvuv]Œš] o]•	D}šš o µ•lÇÁ]vP	rrr	E	^î	K	& >^	dZu}šš o µ•lÇÁ šv P š}o]À]v ŒZÇ]šÁš]•šZ •‰ ŒÀ•P š šd]Zv X]v o µ‰ v ŒŒ•vv•UÇ ‰ š Zu•}vPÁ}} o v •vU oÀ ÙŒ•X šŒš Z}U u}šš o µ•lÇÁ Á•v]Ì}vo Ç‰}•š]Zš]ŒEP}•vš Á} o}• oÇ rŒ‰o šŒš•ÁW Œ•dÇ v W Œ]Œ] Z Œ}}šX	E}	^µ]š Zo]šŒš ‹µ]Œ u̇ÙÜš• v}š v} • Œ À}všZ^šµ Ç Œ X
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Ç‰Œ]v]	&]•Z•v o•	o]v}•š}uµ• o}vP šµ•	Z •]	E	E	^î	&K	dZh	&}µv]v‰}}ov• •o}Áru}ÀŒ•vP}(•u o•šŒ u• v Z Á šÁŒEšZP Œ À}šš}ud•Z ÇŒEP v Œ ooÇ (}µv]v Œ Á•]šZÀ Œ Z vPPŒEvP•v••Z Œ µv•U vo ‰‰‰}íì u}µš(šZÁ š šŒE š ZÞv• š•X µŒ]•v•P Á vš•vZP•Ç v (}µv]v•Z oo‰ÁŒE(š• •šŒ Á•ZÙ ZŒ o•‰}‰µ‰ŒÁv]ŒEP (}ŒEšZ Œ u]vv}Á‰] •X	E}	^µ]š Zo]šŒš ‹µ]Œ u̇ÙÜš• v}š v} • Œ À}všZ^šµ Ç Œ X
•}]	&]•Z•v o•	•}ÆuŒ] vµ• À Œu] µo šµ•	'Œ •W] l ŒE o ^	^	^ï	&K	& >^	'Œ •W] l ŒE(o}µv]vÁ šo v‰•}Ù•••ÙÁru}À]vP •šŒ uv••Z oo}Á(o ŒEP lŒÁ]šZ ŒuU •Z oo}ÁÙÁŒš Œ v µv v}(‹µ š‰o vš•X	E}	^µ]š Zo]šŒš ‹µ]Œ u̇ÙÜš• v}š v} • Œ À}všZ^šµ Ç Œ X
, Œ‰š]o •											

& u]oÇ	'Œ}µ‰	^] vš]Ê(]u	}uu}vE u	^ Z ^š šíµ•^š šíµ•	^Z v̈l	/v(}Œu š]ÞZv Pµo š ^}µŒ	,]š š	,]š Zš ‹µ]Œ u̇ÙÜš•	W}š vš] o ^šµ ŒÇ	Z š]}v(þ}WŸ}š vš]Ko µŒ
µ š	E Áš•v ^ o u v Œ•i ((Œ•}v]	u Ç•š}u vµu^	: ((Œ•}v o u v Œ	E	E	^î	K, U	dZh	E}	^µ]š Zo]šŒŠ ‹µ]Œ u̇ vÀš• v}š v} • ŒÁ]všZ^šµ Ç Œ X
Z oÇ Œ]	dµŒšo	Z oÇ Œ • Œ‰ vš]v	^v ‰‰d]uvŒ šo ^	^	^ï	K,	& >^	W Œu v• vušµ‰ Œu(Œ vÁšZš ŒvŒ•Z • U •Á u%þ}P•ŒZ]À vŒ••šŒ Á]•š•Z}(šµ Ç v l•}Œ}šš}u)•(Ušµ• •}(š}]]oŒo vŒ•Çv}v •}µšZr(•ŷ¥%(}ŒE •š]š u VÇv •šš•]u]•š v(Œ}Áu š ŒÞ¥V Z] ŒvššP šZvPŒŒE}µ‰•]vuµ µv ÁE š ŒE}Vu ŒE vP]Ì•îôZ X	E}	^µ]š Zo]šŒŠ ‹µ]Œ u̇ vÀš• v}š v} • ŒÁ]všZ^šµ Ç Œ X
}oµ Œ]	^v l •	•š Œv dZ uv}‰Z]• Z] }v•v l • µŒ]šµ• ~'Œ >šl • ‰}‰µo š]}v•	^	^	^ï	K,	& >^	^µvvPÇŒE •ŒÇ Á•]šoZ}Á v•À P š šv]}vŒ}] •}(•Z o o%ÁŒu v‹µvjšÁš š ÁE Vu }Á•PUŒ ••Ç u Œ•Z}Œ‰Z P vµPu•V¥Œ }Œ{‰}v o•U }•Œ •šŒ Ż}V Œv]šP Œ}µ‰•X	E}	^µ]š Zo]šŒŠ ‹µ]Œ u̇ vÀš• v}š v} • ŒÁ]všZ^šµ Ç Œ X
uÇ]	dµŒšo	uÇ }] o v]vP]]	o v]vPµ-Œšo d,Z	d,Z	^ï	K,	& >^	^Z ooÁ}Áš uŒŒ•Z }•PU•‰u}v}‹ŒÁ u%}‹Œ}À •]vo Œ•P lŒÁ]š•Z}(šµ Ç}šš}uv ‹µ š] À P š š]]•vV¥vo}P••šµu‰ŒUvl••µŒŒ}µv]vP v šµŒ d]š]•š‰u‰}Œ]šv•µšu ŒšZ (ŒŒ ‹µ všoÇ u}À(Œ}u•µ šZ]šš¥š ŒŒ Ż šŒ¥š]šŒ•V Z] Œv]š}•P•v¥šE }o•ÇŒÀ X	E}	^µ]š Zo]šŒŠ ‹µ]Œ u̇ vÀš• v}š v} • ŒÁ]všZ^šµ Ç Œ X
uÇ]	dµŒšo	'Œ ‰š uÇ• E}ŒšZD Œ‰v P }PŒ ‰Z] dµŒšo	^	^	^ï	K,	& >^	/vZ]Œ•]À vŒo• l •Z}ÁEZ•Œš •l•}v u ŒP vš Œ} lv (ooš Œ šZŒ}µPšZZ}•]‰šŒ]vvPµuu ŒX /vÁ]vššŒšµŒZ}) •Œv}vššZ }šš}µ(‰U •o}Áru}À]vš¥P]}}v(•Œ]ÀdZE Œ ‹µ¥Œ¥PZr‹µ o]šÇ Á š šŒZ •šµ‰ ‰š¥ZE(šu o u¦}ooµ‰ŒdZ,X]Œ Z]šuš¥•š}vš }v]µ]š o•l]v•P¦š ••µU Z•Œ} l• v Z •ÁU¦šZv]µv} •šŒµÀ]š Á(Œ}ÁuZ] Z šµŒšv Œ}]‰u] š]v¥š¥ZÁ š]Œš Œšo X	E}	^µ]š Zo]šŒŠ ‹µ]Œ u̇ vÀš• v}š v} • ŒÁ]všZ^šµ Ç Œ X
<]v}•š Œv]	dµŒšo	^š Œv}šZ Œµ••š Œv Dµ•l } }Œ šµ•	^	^	^ï	K,	& >^	‹µ š] Æ ‰Žš v Ç]vPP•Z/ oo•}oÁ}Á}À]vP Á š }Œo l •šUŒ **u** •Œ•Zv•‰}v Z•]V Œv]vš µv ŒÁušµ Œ v vl•}Œ¦vuµ•l Œo}š P •PvP•Œ o]]v Œ]¦Œ¦v Œ•‰µ•u(Œo oo}vP• šÁ š Œ• P ¥M(š •vZ Œ •š]š ••¥u š]u }•vPŒ Pš š Z] Œv •š]¥š}w}¥šE }o•ÇŒÀ X	E}	^µ]š Zo]šŒŠ ‹µ]Œ u̇ vÀš• v}š v} • ŒÁ]všZ^šµ Ç Œ X
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Œ] š]	s}o •Uuu]vP• v E Át}Œo D]	D] Œ}šµ• ‰]v š}Œµu	t}} o vs}o	^	^	^ïM	Dt,	& >^	D šµŒ] µ}µ(}Œ]•vš Z Œ}o](v(]Œ¥Ì•¦šv U Á]šŻ}}•• v ç}]ov ‰Zµuµ¥PVŒ ••o v •U	z •	W}š vš]}o µ]Œu }Á Z]š ši vš}šZ^šµ Ç Œ X

& u]oÇ	'Œ}µ‰	^] vš]E(]u	}uu}vE u	^ Z ^š šíµ•	^ ^š šíµ•	^Z v̈l	/v(}Œu š]ZvPµo š ^}µŒ	,]š š	,]š Zš ‹µ]Œ uÙÜš•	W}š vš] o ,]š]švšZ ^šµ Œ	Z š]}v(}Œ}š vš]Ko µŒ
									u }Á•v }Œ Z Á]šWZŒ}µv }(ÀµŒ(Œ P Œ ••X		
s •‰ Œš]o]}Wo]vrv}•š•	DÇ}šq µ](µPµ•	>]šš Œ}Áv DÇ}š]•	E	E	^ð	Dt,	& >^	h• • À ‹µ Œ Œš]µ•v Uo}Uo}o Á Œ}Œ]o]vP• (}Œ}}•š Á]P š]Œ Z•µu] À ‹uVš Œv•]]šÇ‹v Œ Á Œu Œ •µ Z• šš] v Œv(•V • ‰Œ]u]Œ Á]šÇ v(}Œ •P •X	z •	t}} o v i vš}^šµ Œ u Ç‰Œ}À µ]š Œ}}•š]vP Z]š(}Œ Z•‰] •X
s •‰ Œš]o]}Wo]vrv}•š•	DÇ}šq•]]]	•š Œ v oor (}}š DÇ}š]•	rrr	E	^î^ï	Dt,	& >^	Z}}•š v À ‹uv•Z (š Œ U À]]Œ•µ]o]š Z•š Œ]v}Œ Á}} o vZ Y Œv]š}•o ŒÇÀ }Œ u]v •uVš Œv]šÇv]] v À }Œµ]o]vZP•W v (}Œ •š•X	z •	t}} o v i vš}^šµ Œ u Ç‰Œ}À µ]š Œ}}•š]vP Z]š(}Œ Z•‰] •X
s •‰ Œš]o]}Wo]vrv}•š•	DÇ}š]• • ‰š vš Œ]}v o]•	E}Œ šZ D Œ}vš]•	E	E	^ï	Dt,	& >^	,] Œv šµ Œ]Á]Pvš]Œ]v }Œ À •µ Œ]vP •µuu Œo Œ}}•š}v v (u o(}Œu š Œv]šÇ }o}v]}(µ‰ò ì µo šŒ Y}•]švZ}µ• u Uvu •š Œµ šµ Œ‰ Œ (Z)Œo}Á }Œµv Œ}• Œ l V Zµv•]šZ(]vŒ •šo Á v}‰ÇX	z •	t}} o v i vš}^šµ Œ u Ç‰Œ}À µ]š Œ}}•š]vP Z]š(}Œ Z•‰] •X
s •‰ Œš]o]}Wo]vrv}•š•	W]‰]•š Œ oo u• •µ (o Àµ•	d Œ]r }o}Œ	E	E	^ïM	Dt,	& >^	v (}µv]v À Œ]}š(Ç Œ •z]š ŒZX(Ç Œu ÇŒ}}•š•u š Œv]šÇv]v}o Œ Œ •vš } •]]v]ovo Œ Y Œ šZ •Œ Œµ šµ Œ Á•U Á v š Œz •]v À ‹dXZ(Ç Œ }P Á Œš Œz o}v•P Œ]uv•šZ(}Œ •šX	z •	t}} o v i vš}^šµ Œ u Ç‰Œ}À µ]š Œ}}•š]vP Z]š(}Œ Z•‰] •X
Wo vš•											
}Œv	}P Á}} •	}Œv(µo•]Œ]	•š Œ v}Á Œ]vP }P Á}}	E	E	^îM	DEZ& PX ,]š š	dZh	}uu}vo(Ç µv}v(o}} ‰ o•d Y‰Uo•µU((•]v Œ À]P Œ}Á]vP š Eo šŒ]vu] r P}u šµ Œ] µ}µŒ Æ(}Œ •šZ•X•o•} v} • Œ À o}vŒ} •] v•(v Œ}Á•X	E}	^µ]š Zo]šŒš ‹µ]Œ Ù vš• v}š v} • Œ Á]vš Z^šµ Ç Œ X
Ç‰ Œ	^ P •	dŒ] Z}‰ Z}Œ µu %o v](}o]µu	&Ár(o}Á Œ oµ rŒµ•Zl •Z Eµo µoo Œµ•Z	E	E	^í	DEZ& PX ,]š š	dZh	dÇ‰](}µo Ç v•š ‰o}‰(} l(}Œ •š•X	E}	^µ]š Zo]šŒš ‹µ]Œ Ù vš• v}š v} • Œ Á]vš Z^šµ Ç Œ X
:µPo v	t ovµš•	:µPo Y v Œ	µšš Œvµš E	E	^ïM	]šÇ	& >^	µšš Œ Áv•µš oPo Œ Ç}Áo•]v}Œ Ev•u oPo Œ}µ‰•] µ}µ(}Œ •Vš Œ (u)Œ••šÁUoor Œ•}Yov]• }(š (v}µv o}v•Pš Œ u•X	z •	µšš Œ Áv µ]š vš](]ÇšZ]šÇ(, u]oš Á]vš Zš]Z^šµ Ç Œ X
WÇ Œ}o	, šZ•	Z]u ‰Z]o u µo š	^‰}šš t]vš Œ P Œ v	E	d,Z	^í	E,/	& >^	^‰}šš]vš Œ P Œ}Á•šv• u]r}‰Z v]š š•X ' v Œ Þo Œ Œ•Œ Çlr‰ Á v}} o vZ]š Áš]•šZ • v €}]o•Xu]v vššŒ•‰]]v• o µtZ Vš W]v U Z K lUo K lUv u Œ] v Z	E}	^µ]š Zo]šŒš ‹µ]Œ Ù vš• v}š v} • Œ Á]vš Z^šµ Ç Œ X

í t^š šµ•vš](]ÇšZ }uu]šš}vš Z^š šµ(•v vP Œ]o o](v v µv šEZ(Œ^ oZ ÙìîV

î t^ Z]vK vš Œ]•µšv šEZ‰ Œ}À]v•]Ùìòó V

ï t K vš Œ Z}v^VA• µ Œ ðVA‰‰ Œ• v šµ Œ Ç ïA Àµ o v Œ^ îA o]uV‰ Œ]oyA ÆVš]Œ‰, Á W}•] ÆŒÇ]Œ‰ E šAv}Wr v š]]Œ Æ}•]‰]š}K vš Œ]}V

ðt E, / AD E Z& šµ Œ Œ]š/P(}Œ u š]v šv Œ EU Z& P,X]š Á D E Z& Pµo ,š]š ~šK Z X Pí Ø îlìôKV AK vš Œ Œ}]v]Œ šo D U, A]P]š]•o š Œ] µD š‰]•v(šZ D uu o}•(šZ t •š Œ vu]•‰ Z À Œ Œ U•i]X v K U, AK vš Œ]}
, Œ‰ š}(šµ o K V AK vš Œ µ]šš Œ Š(oo Ç V A Z Œ]•š]Œ}µv š]Á Ç }Œ Œ •‰}Á]šv Z]šÇ(, u]oš}v X

ñt D E Z&]P v](]t]o/šo](Z v]'µ r ‰‰ v Æ ì ì•X

Appendix C

Botanical Species List

Table C-1: Botanical Inventory Results

Scientific Name	Common Name	SARA[1]	ESA[2]	S-Rank[3]	Local Rank[4]	CC[5]
Abies alba	Silver Fir	---	---	SNA	N/A	---
Acer campestre	Hedge Maple	---	---	SNA	N/A	---
Acer ginnala	Amur Maple	---	---	SE1	N/A	---
Acer griseum	Paperbark Maple	---	---	SNA	N/A	---
Acer negundo	Manitoba Maple	---	---	S5	---	0
Acer platanoides	Norway Maple	---	---	SNA	I	---
Acer pseudoplatanus	Sycamore Maple	---	---	SNA	I	---
Acer rubrum	Red Maple	---	---	S5	---	4
Acer saccharinum	Silver Maple	---	---	S5	---	5
Acer saccharum	Sugar Maple	---	---	S5	---	4
Acer tataricum	Tartarian Maple	---	---	SNA	N/A	---
Acer x freemanii	Freeman's Maple	---	---	SNA	---	---
Achillea sp.	Yarrow sp.					
Aesculus hippocastanum	Horse Chestnut	---	---	SNA	I	---
Ailanthus altissima	Tree-of-heaven	---	---	SNA	I	---
Alliaria petiolata	Garlic Mustard	---	---	SNA	I	---
Ambrosia artemisiifolia	Annual Ragweed	---	---	S5	---	0
Amelanchier amabilis	Beautiful Serviceberry	---	---	S2S3	N/A	---
Amelanchier laevis	Smooth Serviceberry	---	---	S5		5
Avens sp.	Avens sp.					
Barbarea vulgaris	Bitter Wintercress	---	---	SNA	I	---
Betula papyrifera	Paper Birch	---	---	S5	---	2
Bidens frondosa	Devil's Beggarticks	---	---	S5	---	3
Bromus inermis	Awnless Brome	---	---	SNA	I	---
Carya ovata	Shagbark Hickory	---	---	S5	---	6
Catalpa speciosa	Northern Catalpa	---	---	SNA	I	---
Celtis occidentalis	Common Hackberry	---	---	S4	Uncommon, 9 sites	8
Centaurea sp.	Knapweed sp.					
Cercis canadensis	Eastern Redbud	---	---	SX	N/A	8
Cirsium arvense	Canada Thistle	---	---	SNA	I	---

Scientific Name	Common Name	SARA[3]	ESA[3]	S-Rank[2]	Local Rank[4]	CC[5]
Cornus racemosa	Gray Dogwood	---	---	S5	---	2
Cornus sericea ssp sericea	Red-osier Dogwood	---	---	S5	---	2
Cotinus coggygria	European Smoketree	---	---	SNA	I	---
Crataegus crus-galli	Cockspur Hawthorn	---	---	S5	---	4
Crataegus monogyna	English Hawthorn	---	---	SNA	I	---
Crataegus punctata	Dotted Hawthorn	---	---	S5	---	4
Crataegus sp.	Hawthorn sp.					
Daucus carota	Wild Carrot	---	---	SNA	I	---
Dipsacus fullonum	Fuller's Teasel	---	---	SE5	I	---
Elaeagnus angustifolia	Russian Olive	---	---	SNA	I	---
Elaeagnus umbellata	Autumn Olive	---	---	SNA	I	---
Equisetum arvense	Field Horsetail	---	---	S5	---	0
Euonymus alatus	Winged Euonymus	---	---	SNA	I	---
Fagus sylvatica	European Beech	---	---	SNA	N/A	---
Fragaria virginiana	Wild Strawberry	---	---	S5	---	2
Fraxinus americana	White Ash	---	---	S4	---	4
Fraxinus excelsior	European Ash	---	---	SNA	I	---
Fraxinus pennsylvanica	Green Ash	---	---	S4	---	3
Ginkgo biloba	Ginkgo	---	---	SNA	N/A	---
Gleditsia triacanthos inermis	Thornless Honey-locust	---	---	SNA	I	3
Gymnocladus dioicus	Kentucky Coffee-tree	THR	THR	S2	I	6
Juglans cinerea	Butternut	END	END	S3?	END	6
Juglans nigra	Black Walnut	---	---	S4	---	5
Juniperus virginiana	Eastern Red Cedar	---	---	S5	---	4
Juniperus x media	Pfitzer/Ornamental Juniper	---	---		N/A	---
Larix decidua	European Larch	---	---	SNA	I	---
Liquidambar styraciflua	Sweetgum	---	---	SNA	N/A	---
Liriodendron tulipifera	Tulip Tree	---	---	S4	Rare, 3 native stations, occasionally planted	8

Scientific Name	Common Name	SARA[3]	ESA[3]	S-Rank[2]	Local Rank[4]	CC[5]
Lonicera tatarica	Tartarian Honeysuckle	---	---	SNA	I	---
Lotus corniculatus	Garden Bird's-foot Trefoil	---	---	SNA	I	---
Malus baccata	Siberian Crabapple	---	---	SNA	I	---
Malus coronaria	Sweet Crabapple	---	---	S4		5
Malus pumila	Common Apple	---	---	SNA	I	---
Medicago lupulina	Black Medic	---	---	SNA	I	---
Melilotus albus	White Sweet-clover	---	---	SNA	I	---
Morus alba	White Mulberry	---	---	SNA	I	---
Ostrya virginiana	Eastern Hop-hornbeam	---	---	S5	---	4
Parrotia persica	Persian Ironwood	---	---	SNA	N/A	---
Phalaris arundinacea	Reed Canary Grass	---	---	S5	---	0
Picea abies	Norway Spruce	---	---	SNA	I	---
Picea glauca	White Spruce	---	---	S5	I/N: Most records appear to be introductions. Native in mixed and conifer swamps in Flamborough	6
Picea pungens	Blue Spruce	---	---	SNA	I	---
Pinus nigra	Black Pine	---	---	SNA	I	---
Pinus strobus	Eastern White Pine	---	---	S5	---	4
Pinus sylvestris	Scotch Pine	---	---	SNA	I	---
Platanus occidentalis	Sycamore	---	---	S4	Rare, 4 sites	8
Poaspp.	Grass spp.					
Prunus avium	Sweet Cherry	---	---	SNA	I	---
Prunus domestica	European Plum	---	---	SNA	I	---
Prunus serrulata	'Kwanzan' (Kwanzan Flowering Cherry)	---	---	SNA	N/A	---
Prunussp.	Cherry cultivar sp					
Prunus virginiana	Choke Cherry	---	---	S5	---	2
Pyrus calleryana	Callery Pear	---	---	SNA	N/A	---
Quercus macrocarpa	Bur Oak	---	---	S5	---	5

Scientific Name[a]	Common Name	SARA[1]	ESA[2]	S-Rank[3]	Local Rank[4]	CC[5]
Quercus robur	English Oak	---	---	SNA	---	---
Quercus rubra	Northern Red Oak	---	---	S5	---	6
Rhamnus cathartica	Common Buckthorn	---	---	SNA	I	---
Rhus hirta	Staghorn Sumac	---	---	S5	---	1
Robinia pseudoacacia	Black Locust	---	---	SNA	I	---
Rosa multiflora	Multiflora Rose	---	---	SNA	I	---
Setaria pumila	Yellow Foxtail	---	---	SNA	I	---
Solanum dulcamara	Climbing Nightshade or Bittersweet Nightshade	---	---	SNA	I	---
Solidago altissima ssp. altissima	Eastern Late Goldenrod	---	---	S5	---	1
Sonchus sp.	Sow-thistle					
Sorbus aucuparia	European Mountai-ash	---	---	SNA	I	---
Spiraea prunifolia	Bridal-wreath	---	---	SNA	N/A	---
Symphyotrichum lanceolatum ssp. lanceolatum	Panicled Aster	---	---	S5	---	3
Symphyotrichum novae-angliae	New England Aster	---	---	S5	---	2
Syringa reticulata ssp. reticulata	Japanese Tree Lilac	---	---	SNA	N/A	---
Syringa vulgaris	Common Lilac	---	---	SNA	I	---
Taraxacum officinale	Common Dandelion	---	---	SNA	I	---
Thuja occidentalis	Eastern White Cedar	---	---	S5	---	4
Tilia americana	American Basswood	---	---	S5	---	4
Tilia cordata	Little-leaf Linden	---	---	SNA	I	---
Trifolium pratense	Red Clover	---	---	SNA	I	---
Tussilago farfara	Colt's-foot	---	---	SNA	I	---
Ulmus americana	American Elm	---	---	S5	---	3
Ulmus glabra	Wych Elm	---	---	SNA	I	---

Scientific Name	Common Name	SARA[1]	ESA[2]	S-Rank[3]	Local Rank[4]	CC[5]
Ulmus pumila	Siberian Elm	---	---	SNA	I	---
Vicia cracca	Tufted Vetch	---	---	SNA	I	---
Vitis riparia	Riverbank Grape	---	---	S5	---	0

[1]Federal Species at Risk Act (Source: SARA Public Registry, 2007); [2]Provincial Endangered Species Act (Source: MNRF website, 2007); [3]Subnational (Provincial) Rank (Source: MNRF National Heritage Information Centre website, 2007); [4]Local (Hamilton) Rank (Source: Hamilton Natural Areas Inventory Project, 2014 – I = introduced, --- = unranked (common, native), N/A = no available data); [5]Co-efficient of Conservatism

Appendix D

Photographs



Photo 1

Watercourse 1

Photo 2

Watercourse 1



Photo 3

Watercourse 1





Photo 4

Watercourse 1



Photo 5

Watercourse 2



Photo 6

Watercourse 2



Photo 7

Watercourse 2







Photo 8

Watercourse 2

Photo 9

Watercourse 2



Photo 10

Watercourse 3



Photo 11

Watercourse 3



Photo 12

Watercourse 4



Photo 13

Watercourse 4



Photo 14

Watercourse 4



Photo 15

Watercourse 5



Photo 16

Watercourse 5



Photo 17

Watercourse 5



Photo 18

SWM pond above watercourse 5



Photo 19

SWM pond above watercourse 5



Photo 20

SWM pond above watercourse 5



Photo 21

SWM pond above watercourse 5

