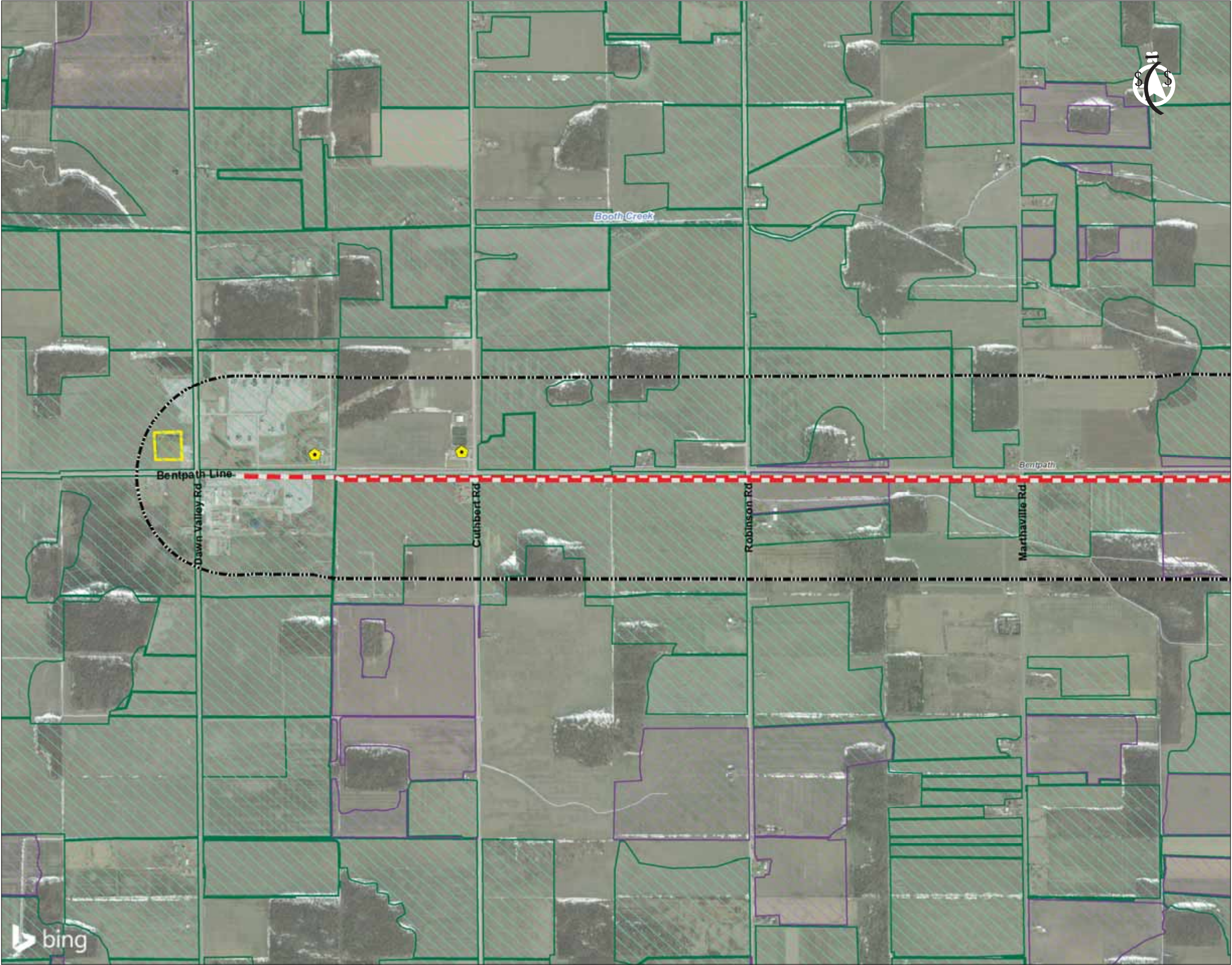













APPENDIX C

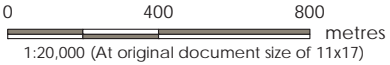
Existing Conditions Maps



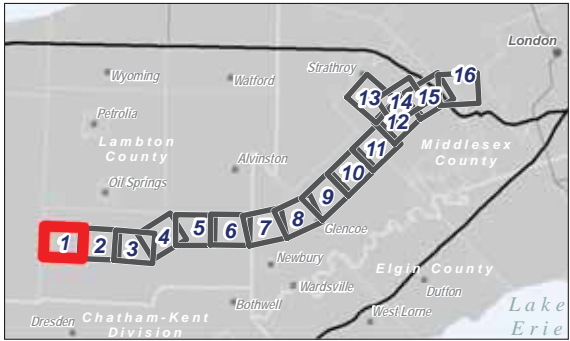
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-  Study Area
- Enbridge Gas Features**
-  Existing Route
 -  Alternative Segments
 -  Strathroy Alternate 1
 -  Strathroy Alternate 2
 -  Strathroy Alternate 3
 -  Strathroy Alternate 4
- Base / Environmental Features**
-  Watercourse
 -  Random Tile Drainage
 -  Systematic Tile Drainage
 -  Waterbody
- Socio-Economic Features**
-  Utility
 -  Park Sports Field (CanVec)



- Notes**
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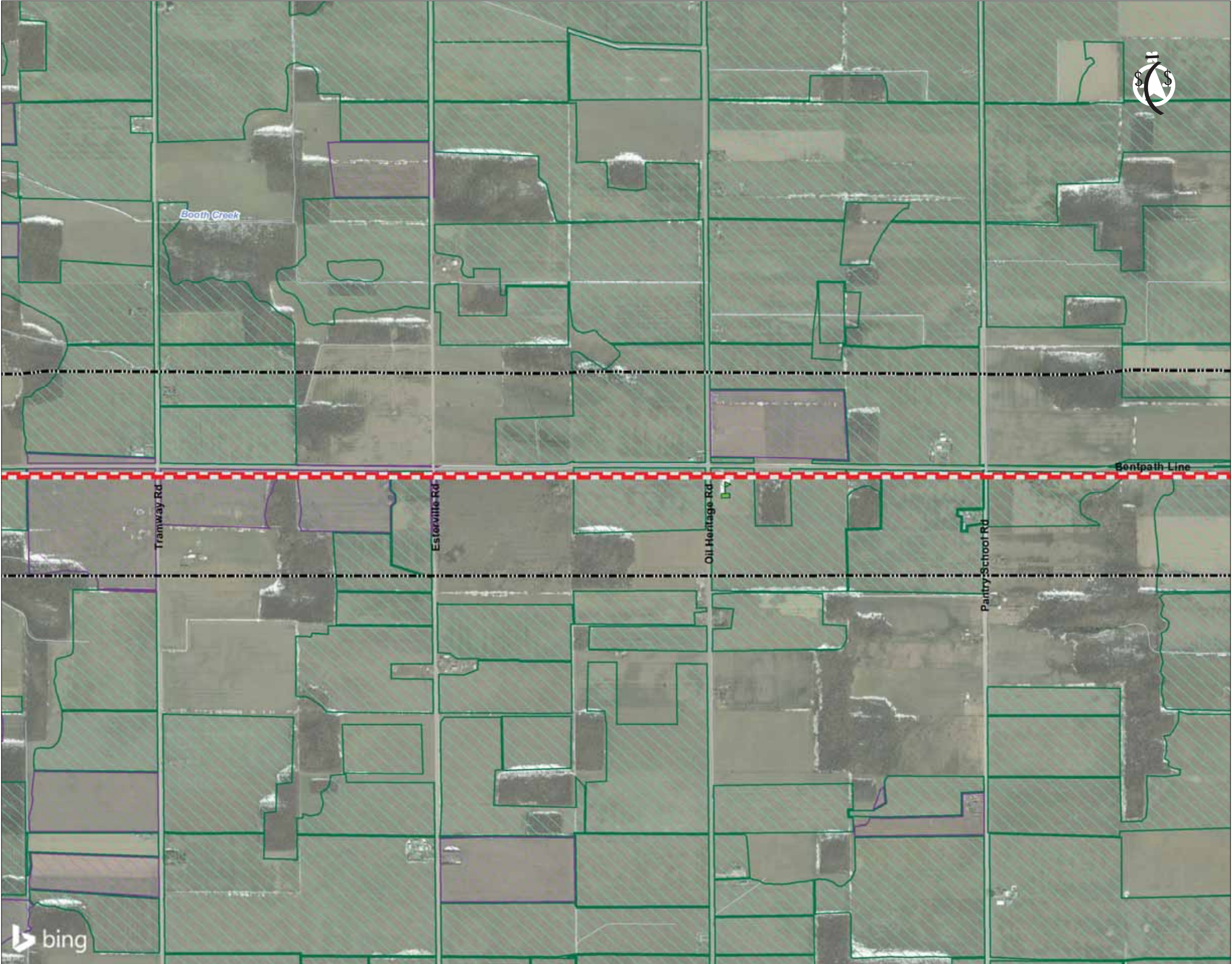


Project Location: Counties of Lambton and Middlesex
160951170 REV1
Prepared by SPE on 2020-07-09
Technical Review by BCC on 2020-07-09

Client/Project:
ENBRIDGE GAS INC.
LONDON LINES PROJECT

Figure No.:
C-2.1
Title:
Socio - Economic Features

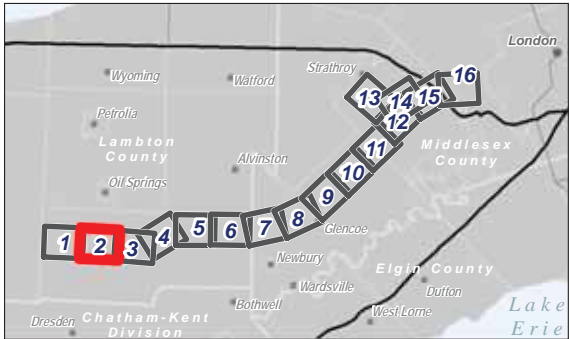
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- Study Area
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
- Base / Environmental Features**
- Watercourse
 - Random Tile Drainage
 - Systematic Tile Drainage
- Socio-Economic Features**
- School

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes**
1. Coordinate System: NAD 1983 UTM Zone 17N
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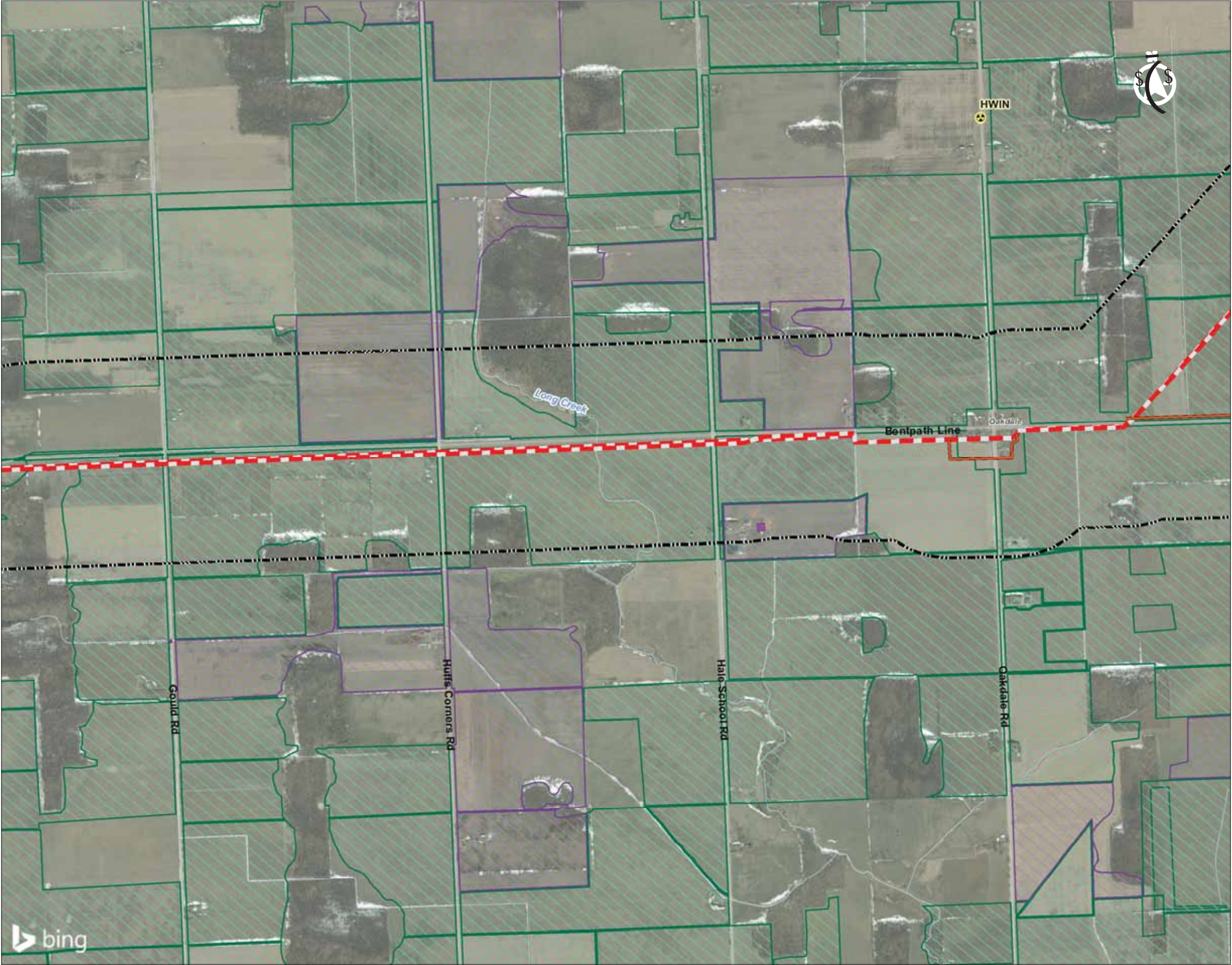


Project Location: Counties of Lambton and Middlesex
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Prepared by SPE on 2020-07-09
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Client/Project: ENBRIDGE GAS INC., LONDON LINES PROJECT

Figure No.: C-2.2
Title: Socio - Economic Features

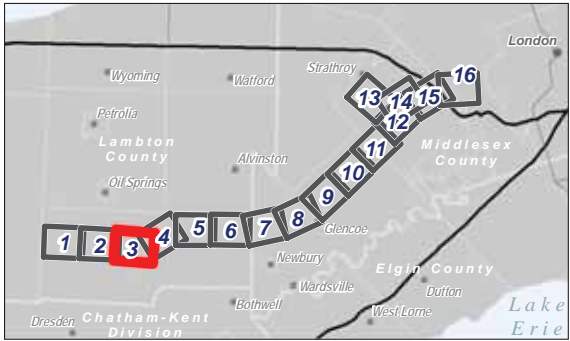
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- Study Area
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
- Base / Environmental Features**
- Watercourse
 - Random Tile Drainage
 - Systematic Tile Drainage
 - Potentially Contaminated Sites
- Socio-Economic Features**
- Business

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes**
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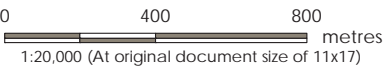
Client/Project:
ENBRIDGE GAS INC.
LONDON LINES PROJECT

Figure No.:
C-2.3
Title:
Socio - Economic Features

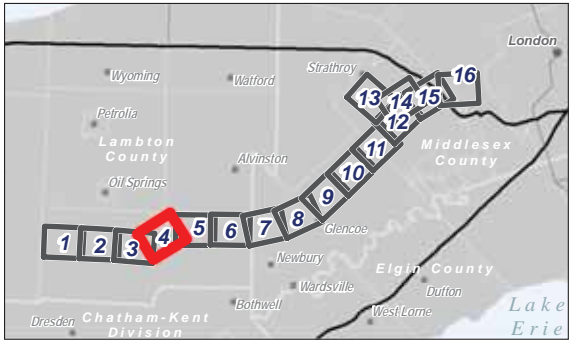
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- Study Area
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
- Base / Environmental Features**
- Watercourse
 - Random Tile Drainage
 - Systematic Tile Drainage
 - Waterbody
 - Potentially Contaminated Sites



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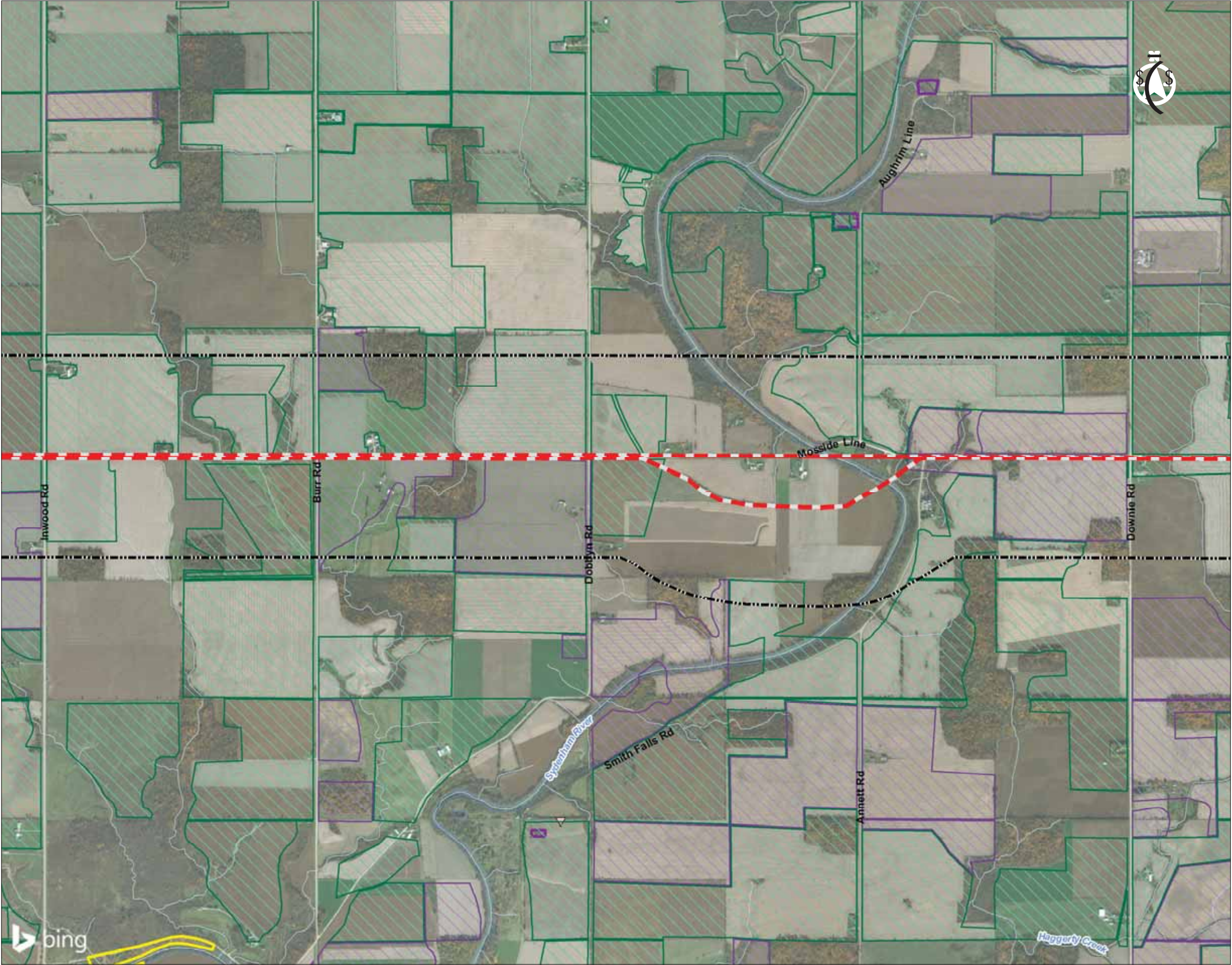


Project Location: Counties of Lambton and Middlesex
160951170 REV1
Prepared by SPE on 2020-07-09
Technical Review by BCC on 2020-07-09

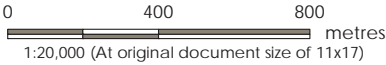
Client/Project:
ENBRIDGE GAS INC.
LONDON LINES PROJECT

Figure No.:
C-2.4
Title:
Socio - Economic Features

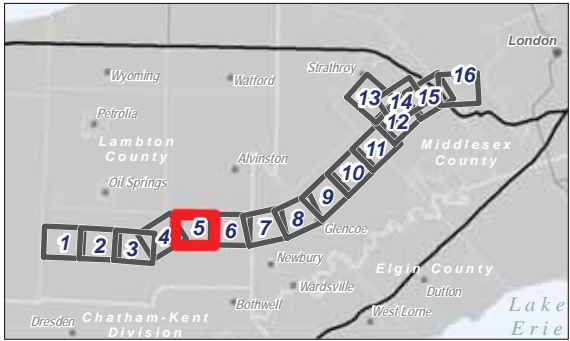
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- Study Area
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
- Base / Environmental Features**
- Watercourse
 - Random Tile Drainage
 - Systematic Tile Drainage
 - Waterbody
 - Landfill (Closed)
 - Park Sports Field (CanVec)



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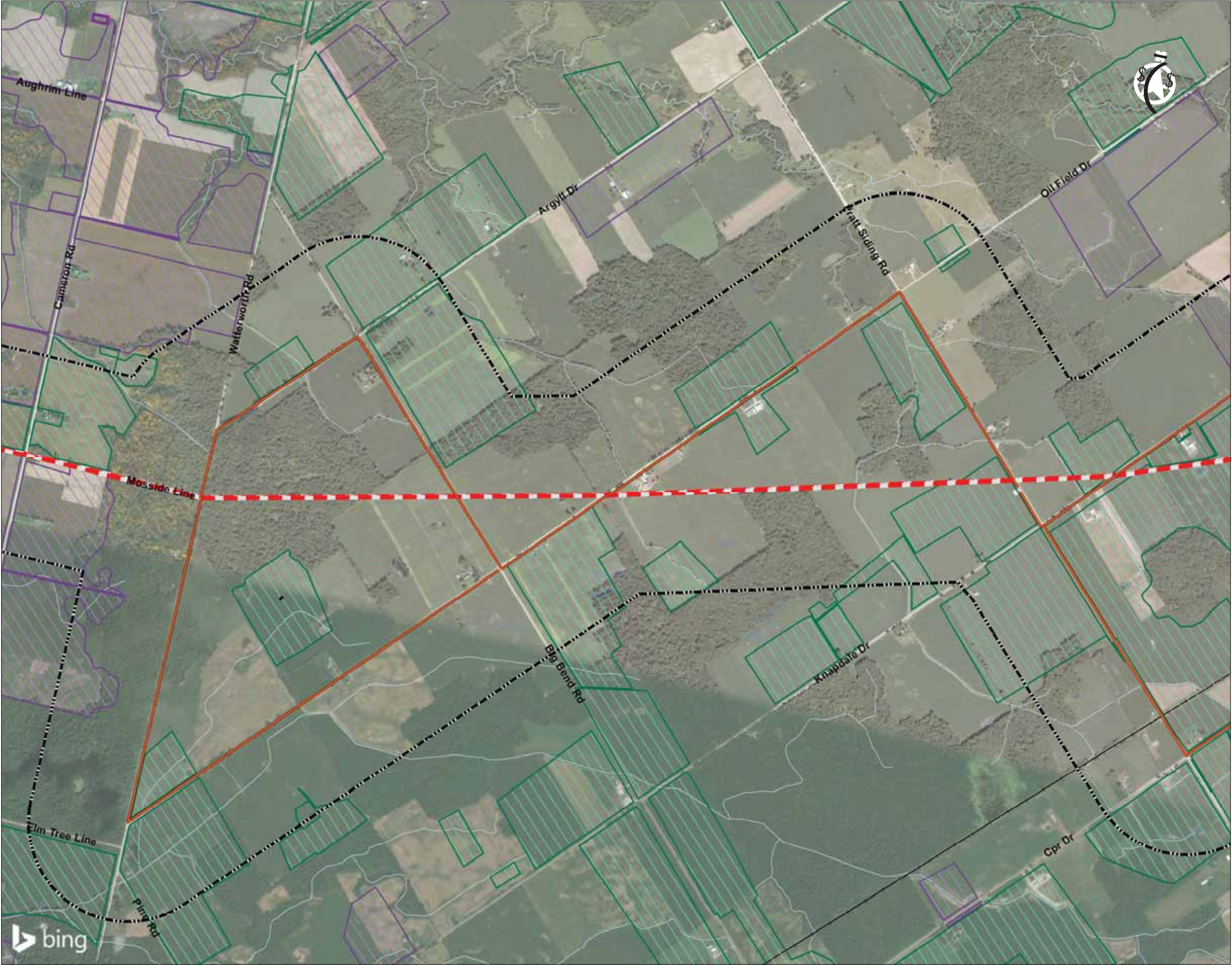


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Client/Project:
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Figure No.:
C-2.5
Title:
Socio - Economic Features

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Study Area

Enbridge Gas Features

Existing Route

Alternative Segments

Strathroy Alternate 1

Strathroy Alternate 2

Strathroy Alternate 3

Strathroy Alternate 4

Railway - Operational

Base / Environmental Features

Watercourse

Random Tile Drainage

Systematic Tile Drainage

Waterbody

0

400

800

metres

1:20,000 (At original document size of 11x17)

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Project Location

Counties of Lambton and Middlesex

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LONDON LINES PROJECT

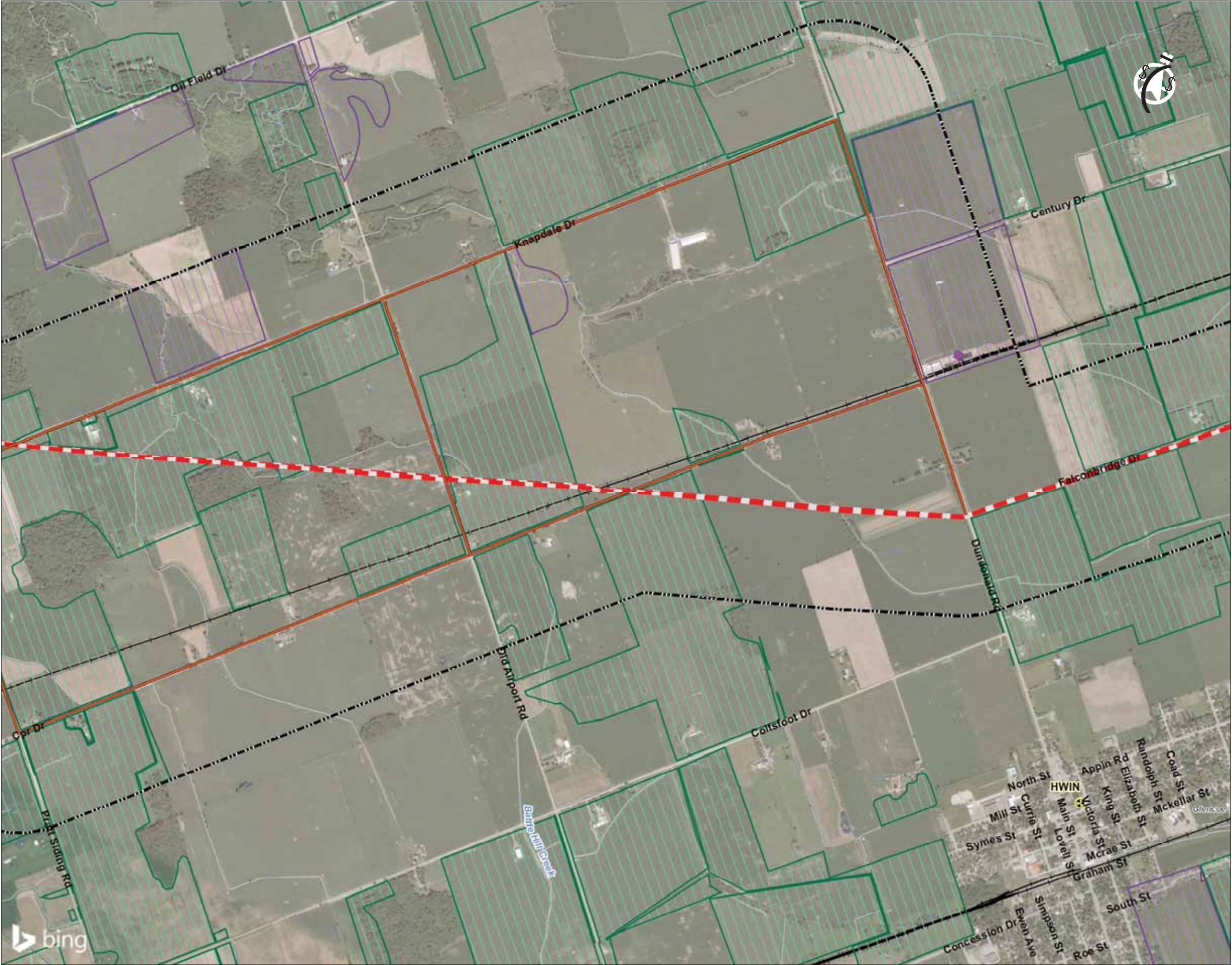
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C-2.7

Title

Socio - Economic Features

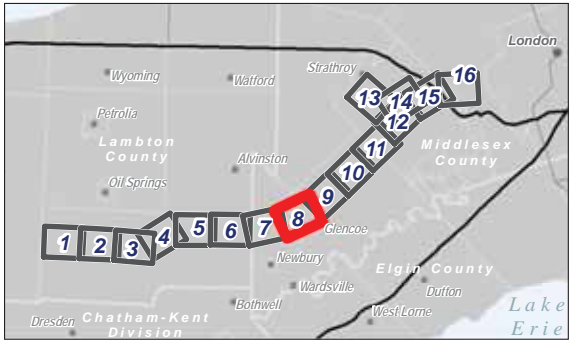
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- Study Area**
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
 - Railway - Operational
- Base / Environmental Features**
- Watercourse
 - Random Tile Drainage
 - Systematic Tile Drainage
 - Waterbody
 - Landfill (Closed)
 - Potentially Contaminated Sites
- Socio-Economic Features**
- Business

0 400 800 metres
1:20,000 (At original document size of 11x17)

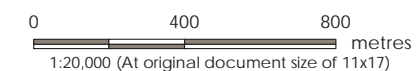
- Notes**
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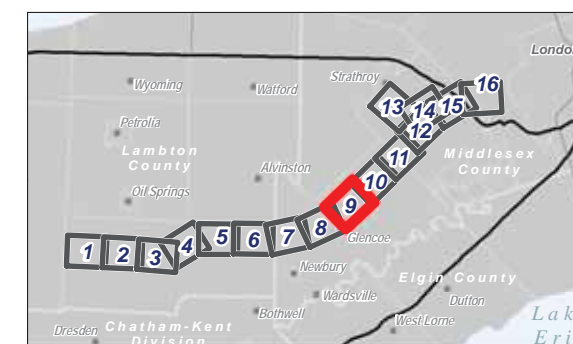
Client/Project:
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LONDON LINES PROJECT

Figure No.:
C-2.8
Title:
Socio - Economic Features



Notes

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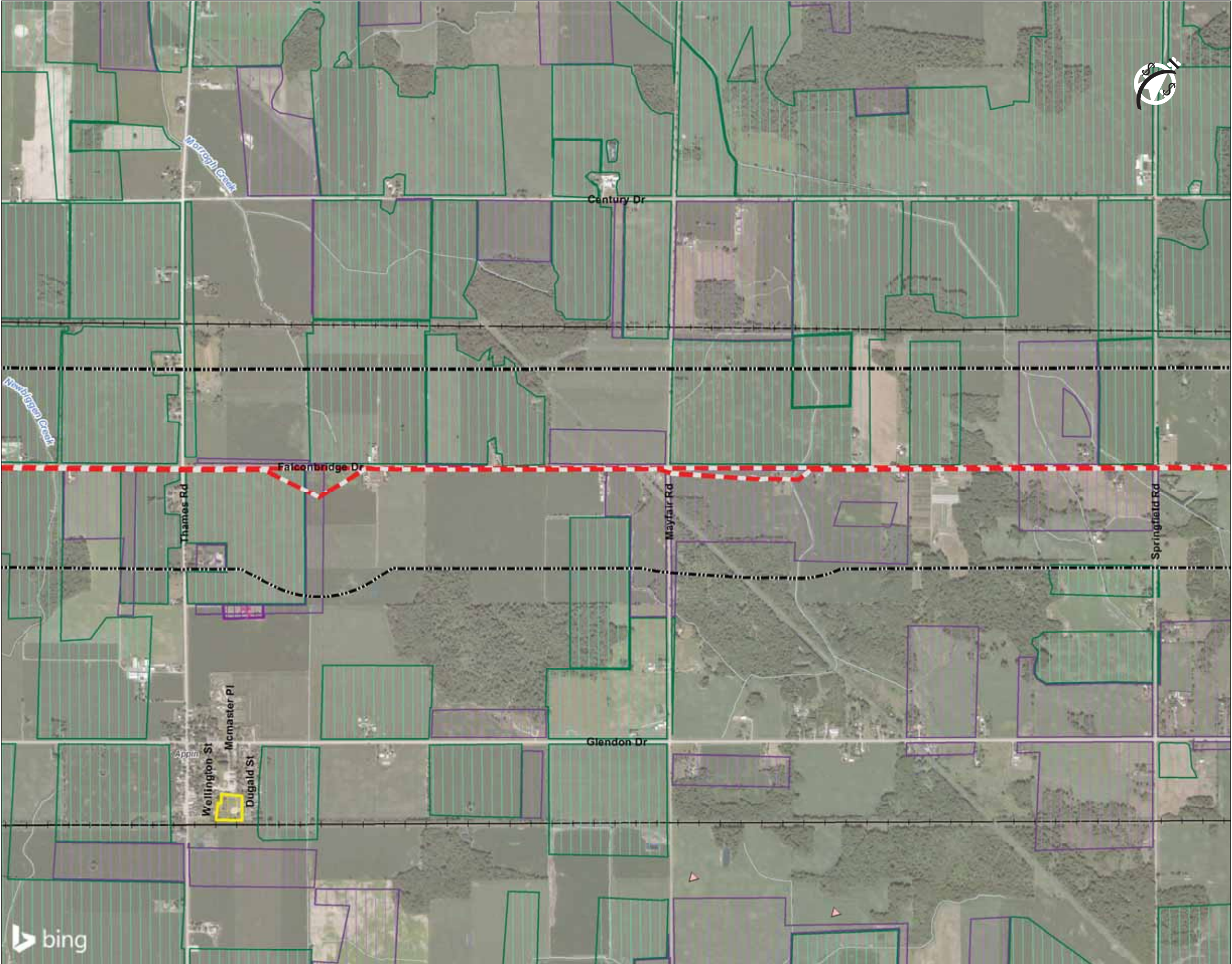
Project Location 160951170 REV1
Counties of Lambton Prepared by SPE on 2020-07-09
and Middlesex Technical Review by BCC on 2020-07-09

Client/Project
ENBRIDGE GAS INC.
LONDON LINES PROJECT

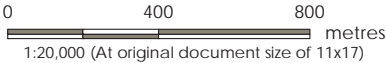
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Title **Socio - Economic Features**

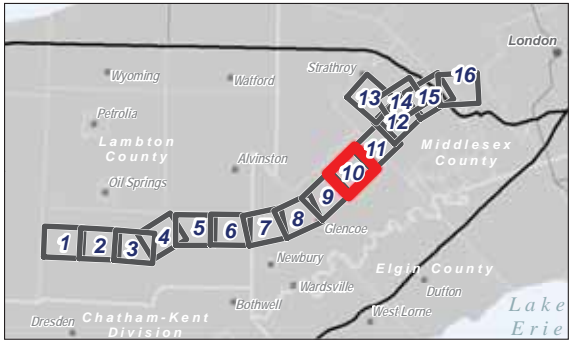
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- Study Area
- Enbridge Gas Features
- Existing Route
- Alternative Segments
- Strathroy Alternate 1
- Strathroy Alternate 2
- Strathroy Alternate 3
- Strathroy Alternate 4
- Hydro Line
- Railway - Operational
- Base / Environmental Features
- Watercourse
- Random Tile Drainage
- Systematic Tile Drainage
- Waterbody
- Landfill (Closed)
- Socio-Economic Features
- Cemetery
- Park Sports Field (CanVec)



- Notes
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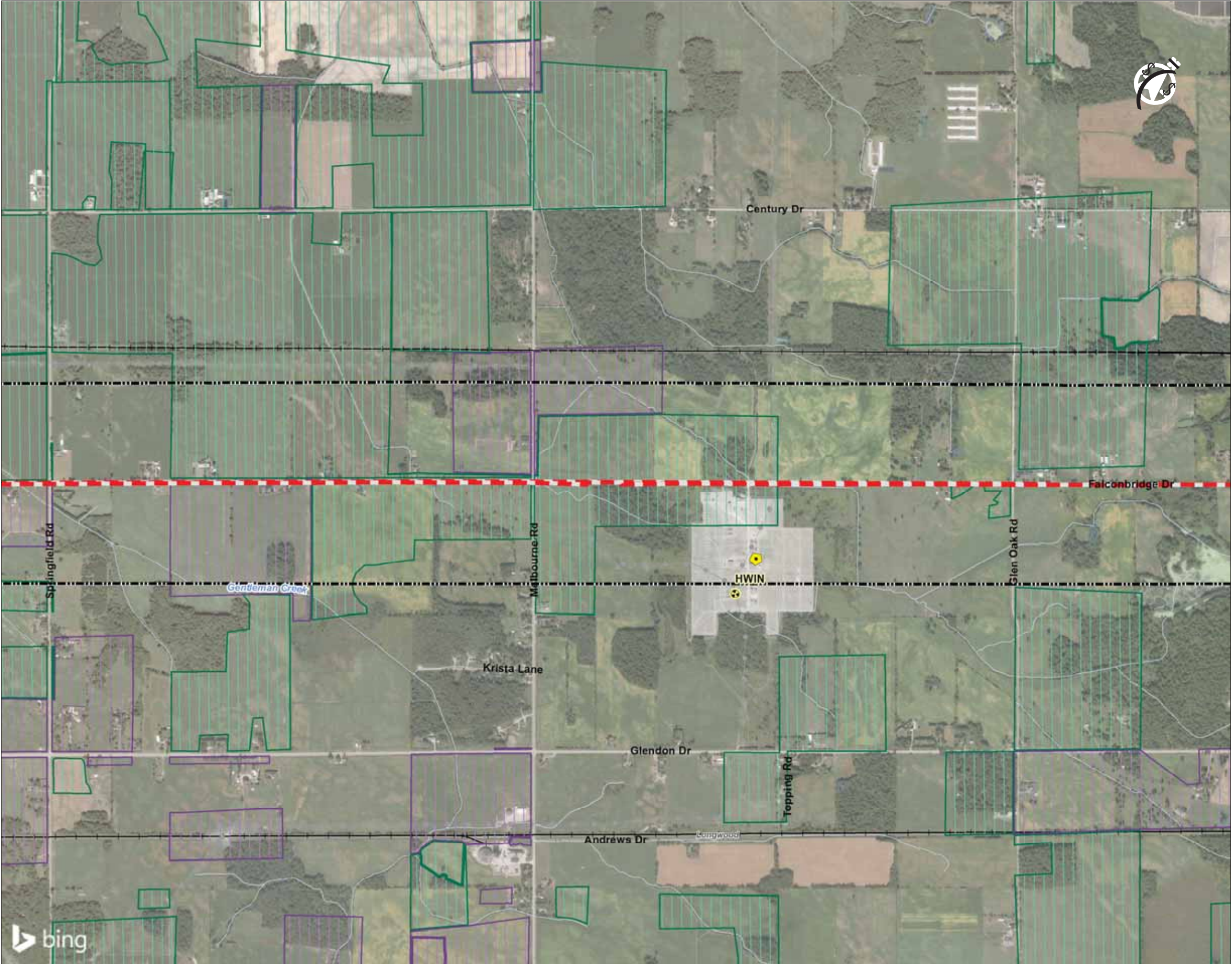
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Prepared by SPE on 2020-07-09
Technical Review by BCC on 2020-07-09

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LONDON LINES PROJECT

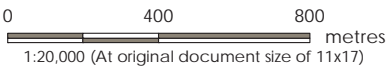
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C-2.10

Title
Socio - Economic Features

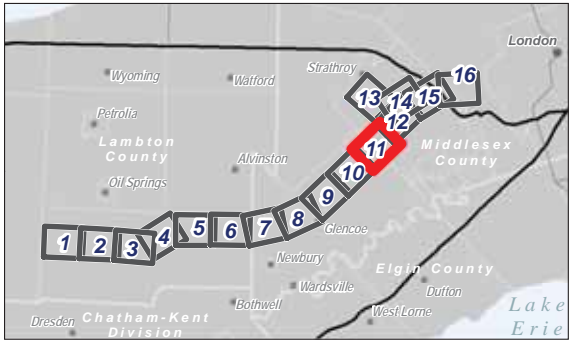
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- Study Area
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
 - Hydro Line
 - Railway - Operational
- Base / Environmental Features**
- Watercourse
 - Random Tile Drainage
 - Systematic Tile Drainage
 - Waterbody
 - Potentially Contaminated Sites
- Socio-Economic Features**
- Utility



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and Middlesex

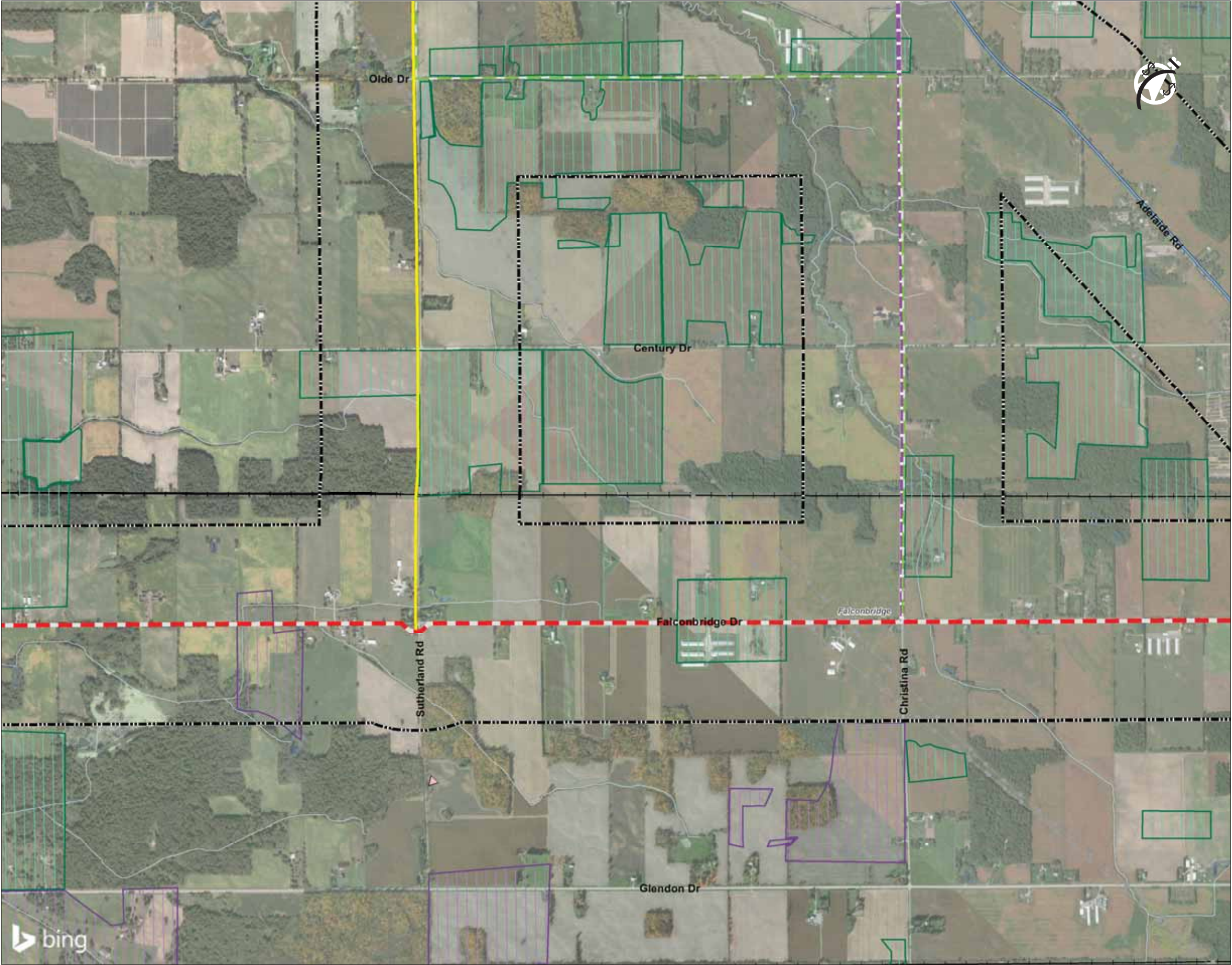
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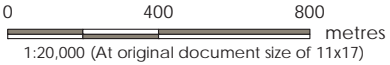
Figure No.
C-2.11

Title
Socio - Economic Features

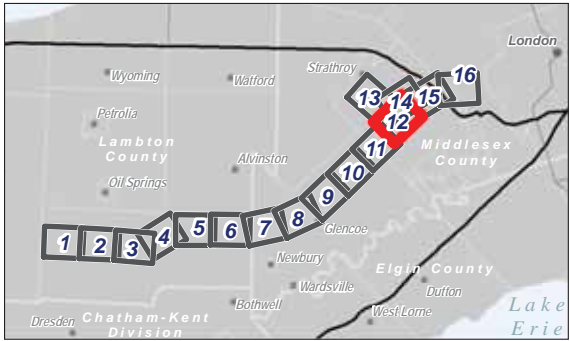
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- Study Area
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
 - Hydro Line
 - Railway - Operational
- Base / Environmental Features**
- Watercourse
 - Random Tile Drainage
 - Systematic Tile Drainage
 - Waterbody
 - Landfill (Closed)



- Notes**
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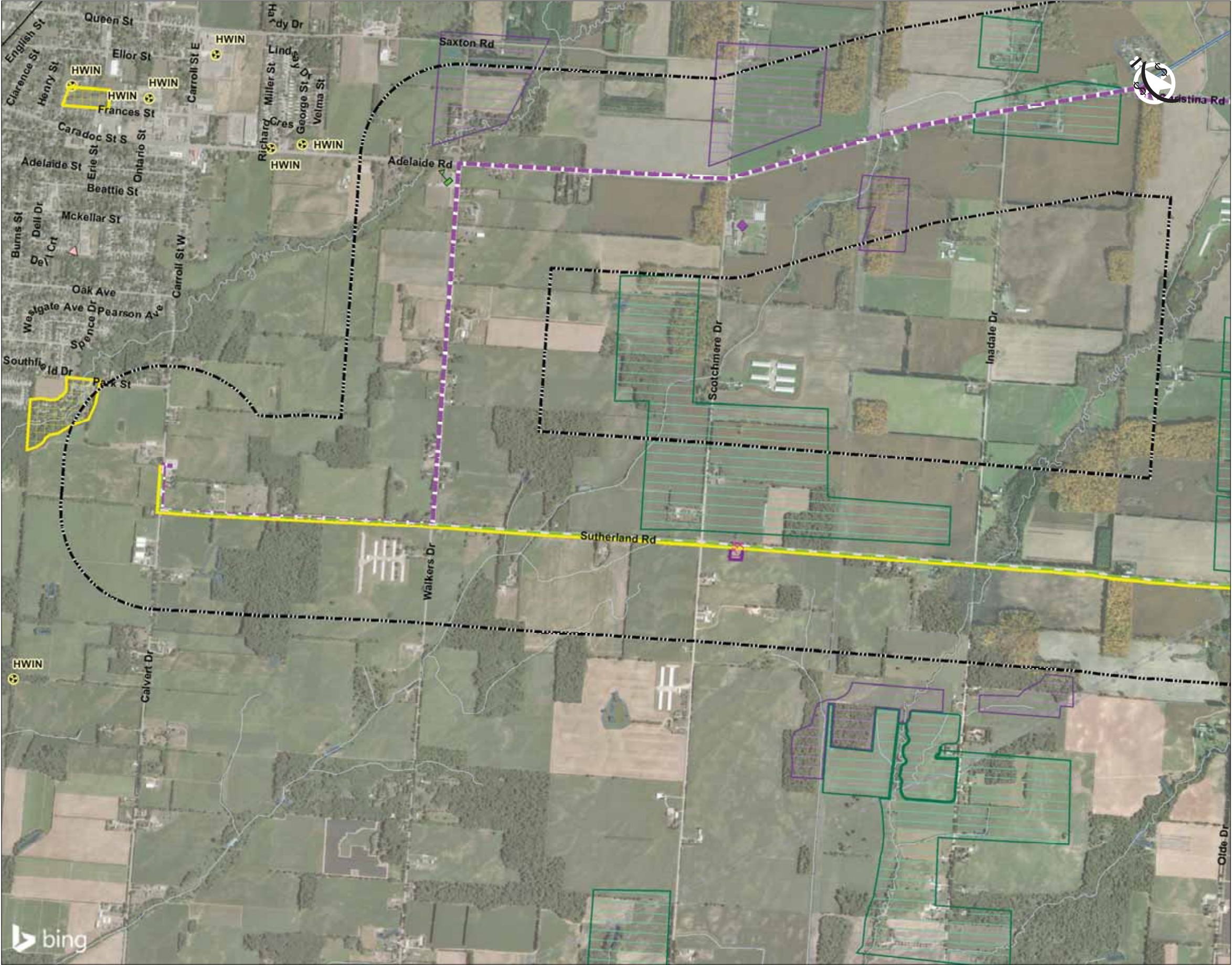


Project Location: Counties of Lambton and Middlesex
160951170 REV1
Prepared by SPE on 2020-07-09
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Client/Project:
ENBRIDGE GAS INC.
LONDON LINES PROJECT

Figure No.
C-2.12
Title
Socio - Economic Features

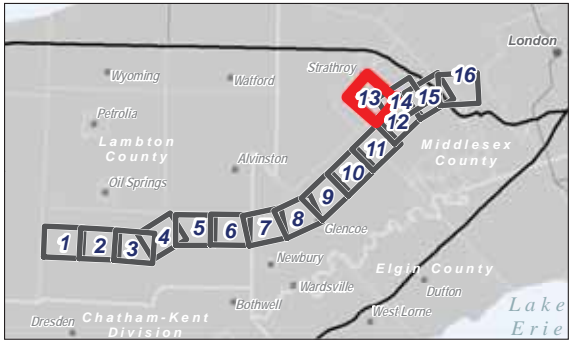
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- Study Area**
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
 - Hydro Line
 - Railway - Operational
- Base / Environmental Features**
- Watercourse
 - Random Tile Drainage
 - Systematic Tile Drainage
 - Waterbody
 - Landfill (Closed)
 - Potentially Contaminated Sites
- Socio-Economic Features**
- Business
 - Cemetery
 - School
 - Park Sports Field (CanVec)

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes**
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Figure No.
C-2.13

Title
Socio - Economic Features

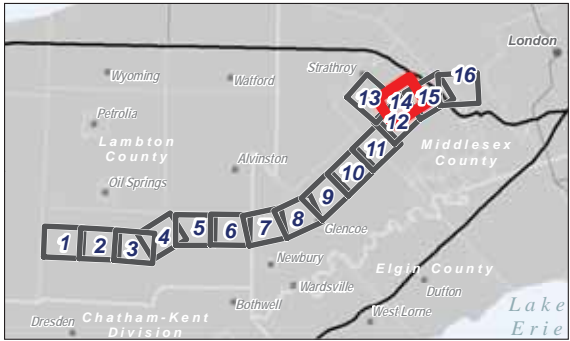
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- Study Area
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
 - Hydro Line
 - Railway - Operational
- Base / Environmental Features**
- Watercourse
 - Random Tile Drainage
 - Systematic Tile Drainage
 - Waterbody
- Socio-Economic Features**
- Business
 - Cemetery

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes**
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Technical Review by BCC on 2020-07-09

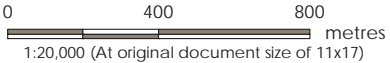
Client/Project: ENBRIDGE GAS INC., LONDON LINES PROJECT

Figure No.: C-2.14
Title: Socio - Economic Features

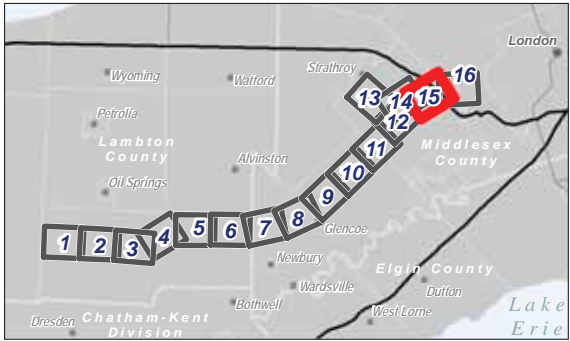
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- Study Area**
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
 - Hydro Line
 - Railway - Operational
- Base / Environmental Features**
- Watercourse
 - Random Tile Drainage
 - Systematic Tile Drainage
 - Waterbody
 - Potentially Contaminated Sites
- Socio-Economic Features**
- Business
 - Cemetery
 - Park Sports Field (CanVec)
 - Campground



- Notes**
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 - Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2020, CanVec, 2020.
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160951170 REV1
Prepared by SPE on 2020-07-09
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Client/Project:
ENBRIDGE GAS INC.
LONDON LINES PROJECT

Figure No.:
C-2.15
Title:
Socio - Economic Features

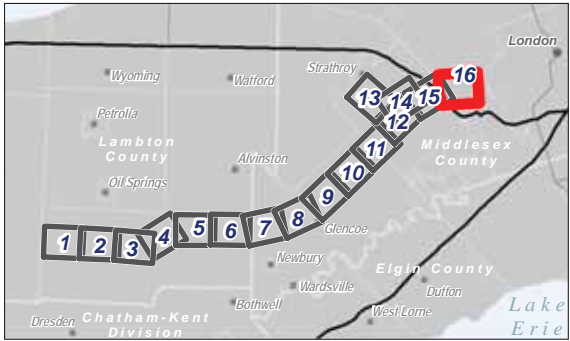
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- Study Area**
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
 - Trail
 - Railway - Operational
- Base / Environmental Features**
- Watercourse
 - Random Tile Drainage
 - Systematic Tile Drainage
 - Waterbody
 - Landfill (Active)
 - Landfill (Closed)
 - Potentially Contaminated Sites
- Socio-Economic Features**
- Business
 - Golf Course (CanVec)
 - Park Sports Field (CanVec)
 - Campground

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes**
- Coordinate System: NAD 1983 UTM Zone 17N
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Project Location: Counties of Lambton and Middlesex
160951170 REV1
Prepared by SPE on 2020-07-09
Technical Review by BCC on 2020-07-09

Client/Project:
ENBRIDGE GAS INC.
LONDON LINES PROJECT

Figure No.
C-2.16
Title
Socio - Economic Features

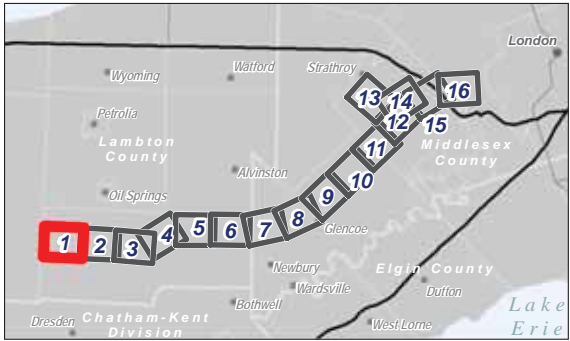
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- Study Area
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
- Base / Environmental Features**
- Constructed Drain
 - Watercourse
 - Municipal Boundary - Lower Tier
 - Waterbody

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes**
1. Coordinate System: NAD 1983 UTM Zone 17N
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Counties of Lambton and Middlesex Prepared by SPE on 2020-07-09
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LONDON LINES PROJECT

Figure No.
C-3.1
Title
Natural Environment Features

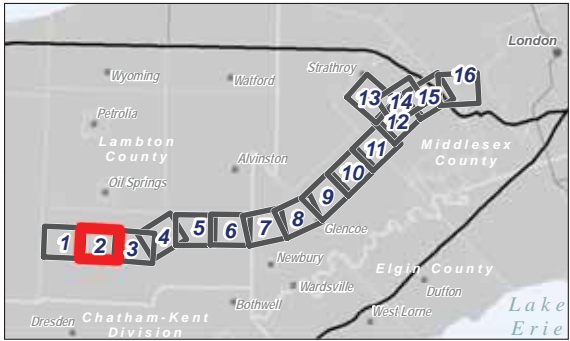
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- Study Area
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
- Base / Environmental Features**
- Constructed Drain
 - Watercourse
 - Municipal Boundary - Lower Tier

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes**
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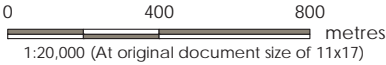
Project Location 160951170 REV1
Counties of Lambton and Prepared by SPE on 2020-07-09
Middlesex Technical Review by BCC on 2020-07-09

Client/Project
ENBRIDGE GAS INC.
LONDON LINES PROJECT

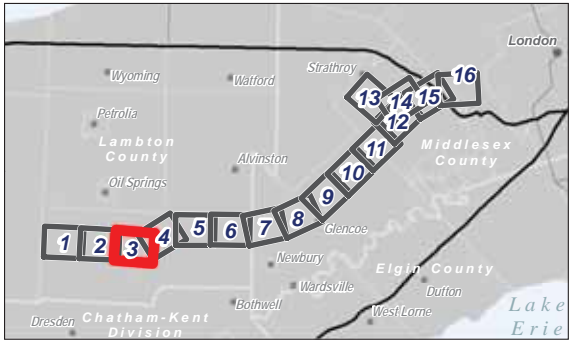
Figure No.
C-3.2
Title
Natural Environment Features



- Study Area
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
- Base / Environmental Features**
- Constructed Drain
 - Watercourse
 - Municipal Boundary - Lower Tier



- Notes**
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Project Location: Counties of Lambton and Middlesex
160951170 REV1
Prepared by SPE on 2020-07-09
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Client/Project:
ENBRIDGE GAS INC.
LONDON LINES PROJECT

Figure No.:
C-3.3
Title:
Natural Environment Features

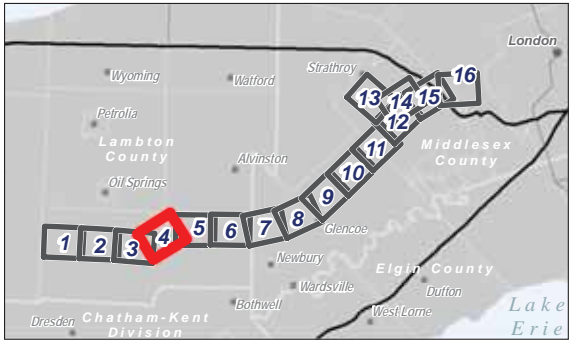
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-  Study Area
- Enbridge Gas Features**
-  Existing Route
 -  Alternative Segments
 -  Strathroy Alternate 1
 -  Strathroy Alternate 2
 -  Strathroy Alternate 3
 -  Strathroy Alternate 4
- Base / Environmental Features**
-  Constructed Drain
 -  Watercourse
 -  ANSI, Life Science;Regional
 -  Municipal Boundary - Lower Tier
 -  Waterbody

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes**
1. Coordinate System: NAD 1983 UTM Zone 17N
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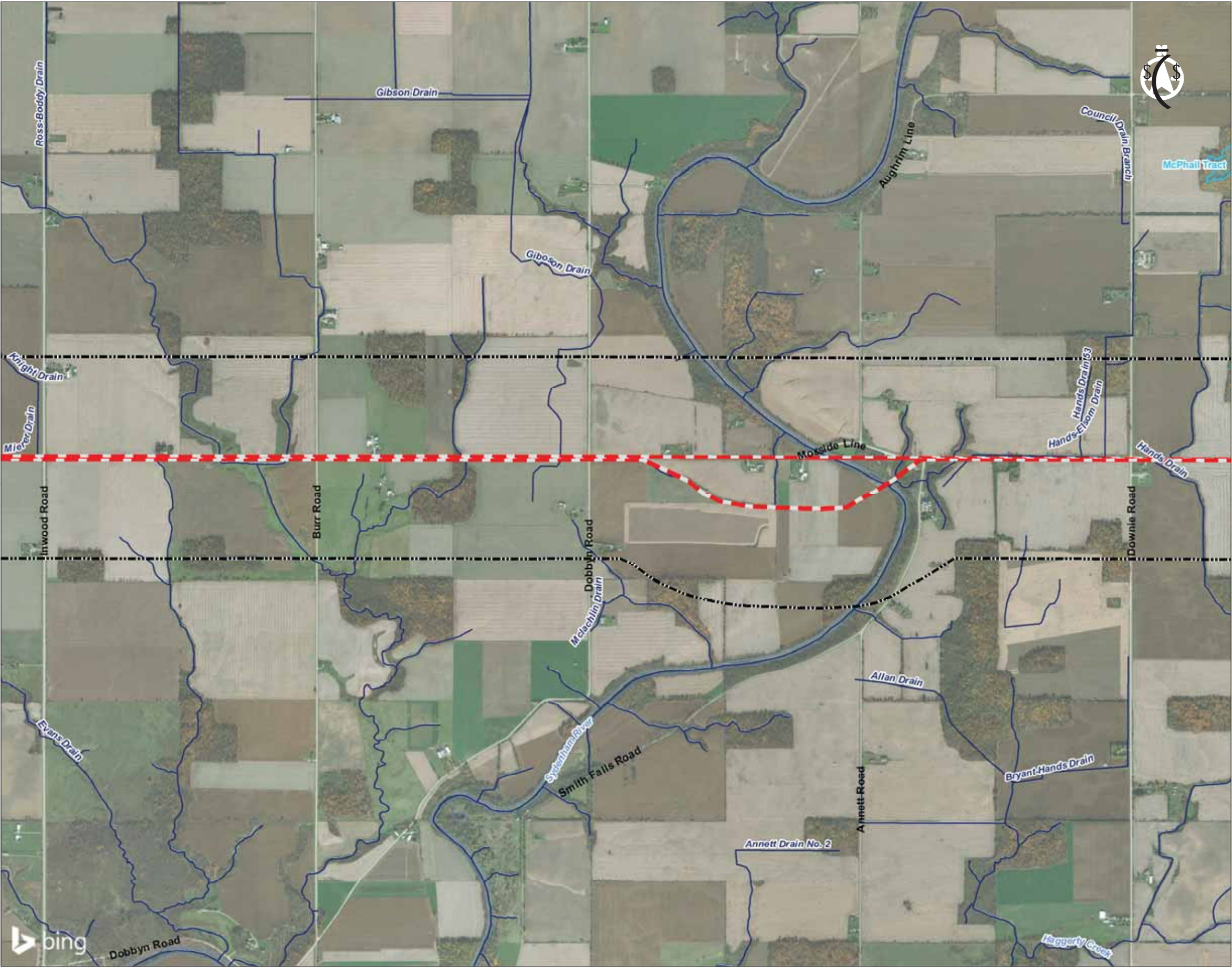


Project Location: Counties of Lambton and Middlesex
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Figure No.:
C-3.4
Title:
Natural Environment Features

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Study Area

Enbridge Gas Features

- Existing Route
- Alternative Segments
- Strathroy Alternate 1
- Strathroy Alternate 2
- Strathroy Alternate 3
- Strathroy Alternate 4

Base / Environmental Features

- Constructed Drain
- Watercourse
- Municipal Boundary - Lower Tier
- Other/Locally Significant Wetland
- Waterbody

1:20,000 (At original document size of 11x17)

Notes

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Project Location
Counties of Lambton and Middlesex

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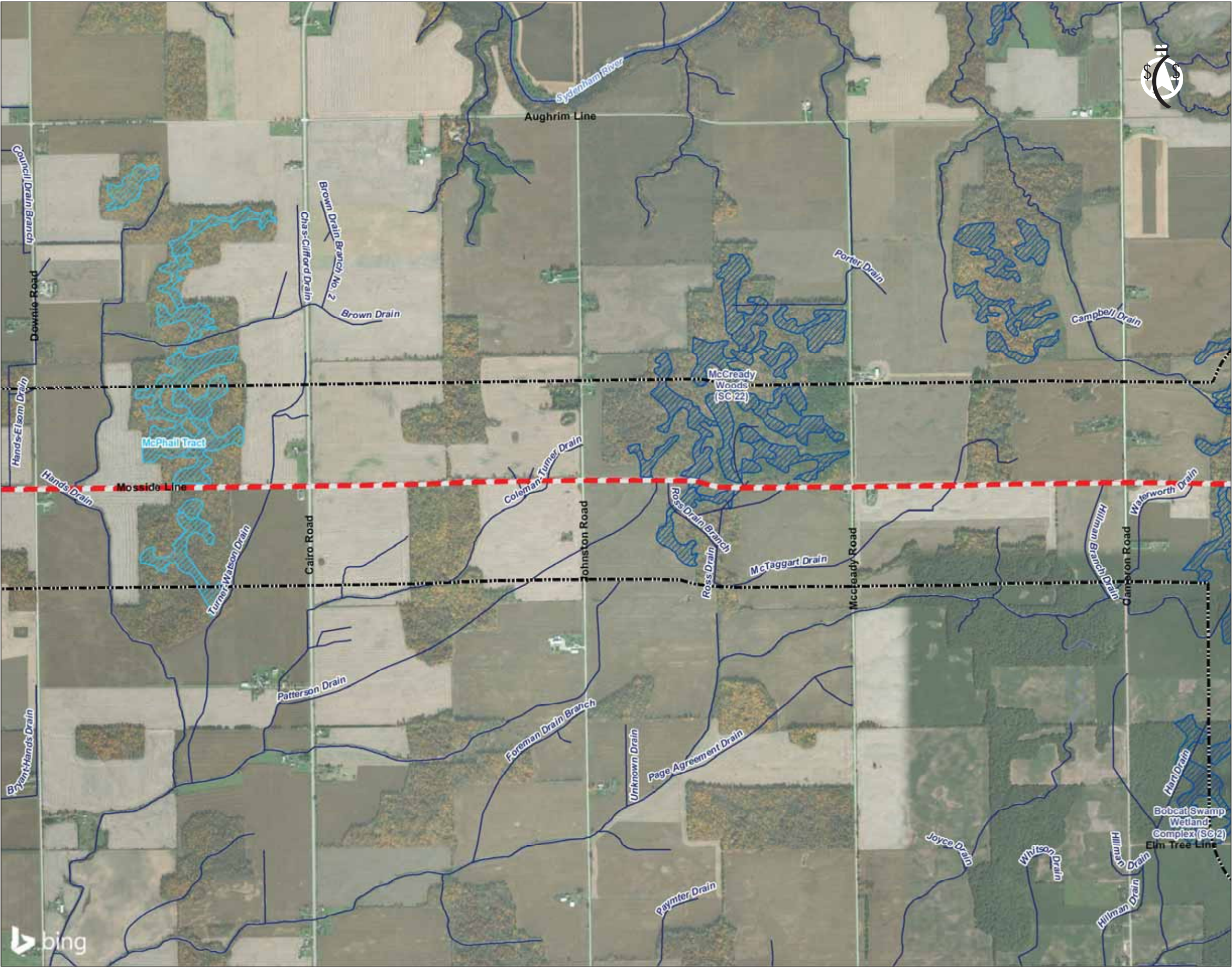
Client/Project
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Figure No.
C-3.5

Title
Natural Environment Features

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Study Area

Enbridge Gas Features

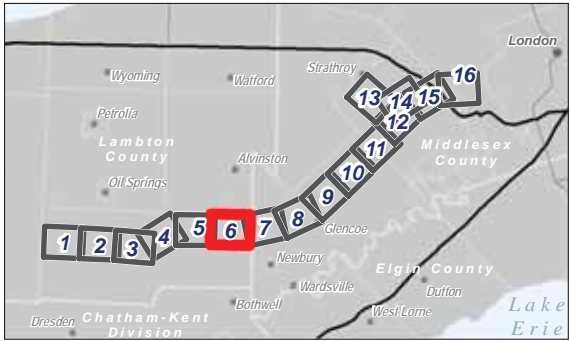
- Existing Route
- Alternative Segments
- Strathroy Alternate 1
- Strathroy Alternate 2
- Strathroy Alternate 3
- Strathroy Alternate 4

Base / Environmental Features

- Constructed Drain
- Watercourse
- Municipal Boundary - Lower Tier
- Provincially Significant Wetland
- Other/Locally Significant Wetland
- Waterbody

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes
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Project Location
Counties of Lambton and Middlesex
160951170 REV1
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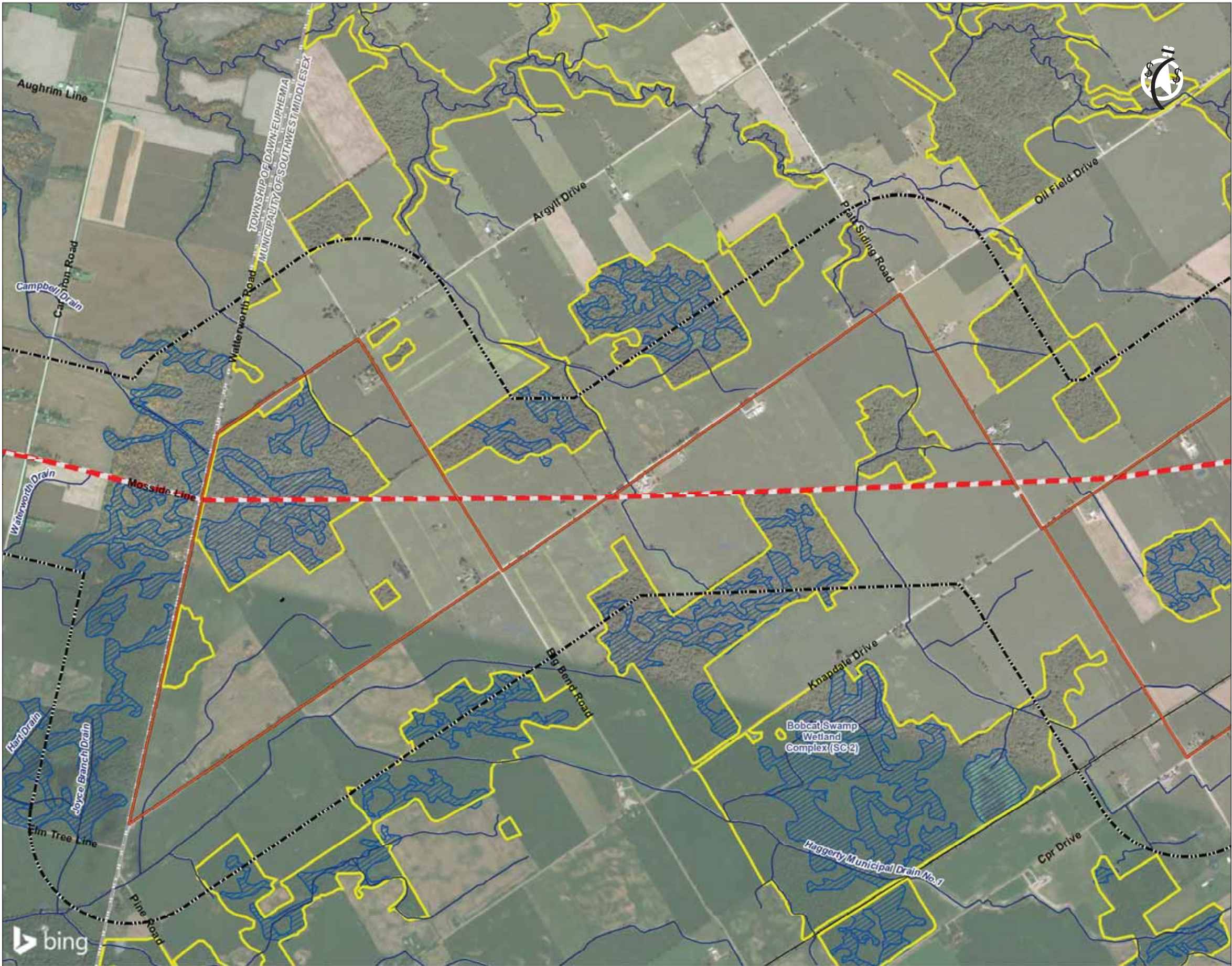
Client/Project
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Figure No.

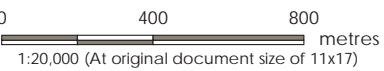
C-3.6

Title

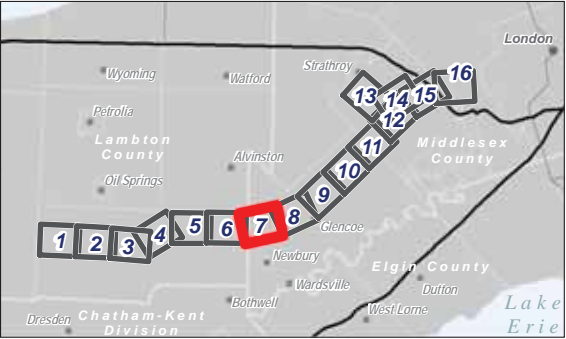
Natural Environment Features



- Study Area**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
- Base / Environmental Features**
- Constructed Drain
 - Railway - Operational
 - Watercourse
 - Municipal Boundary - Lower Tier
 - Natural Heritage (Middlesex)
 - Provincially Significant Wetland
 - Waterbody



- Notes**
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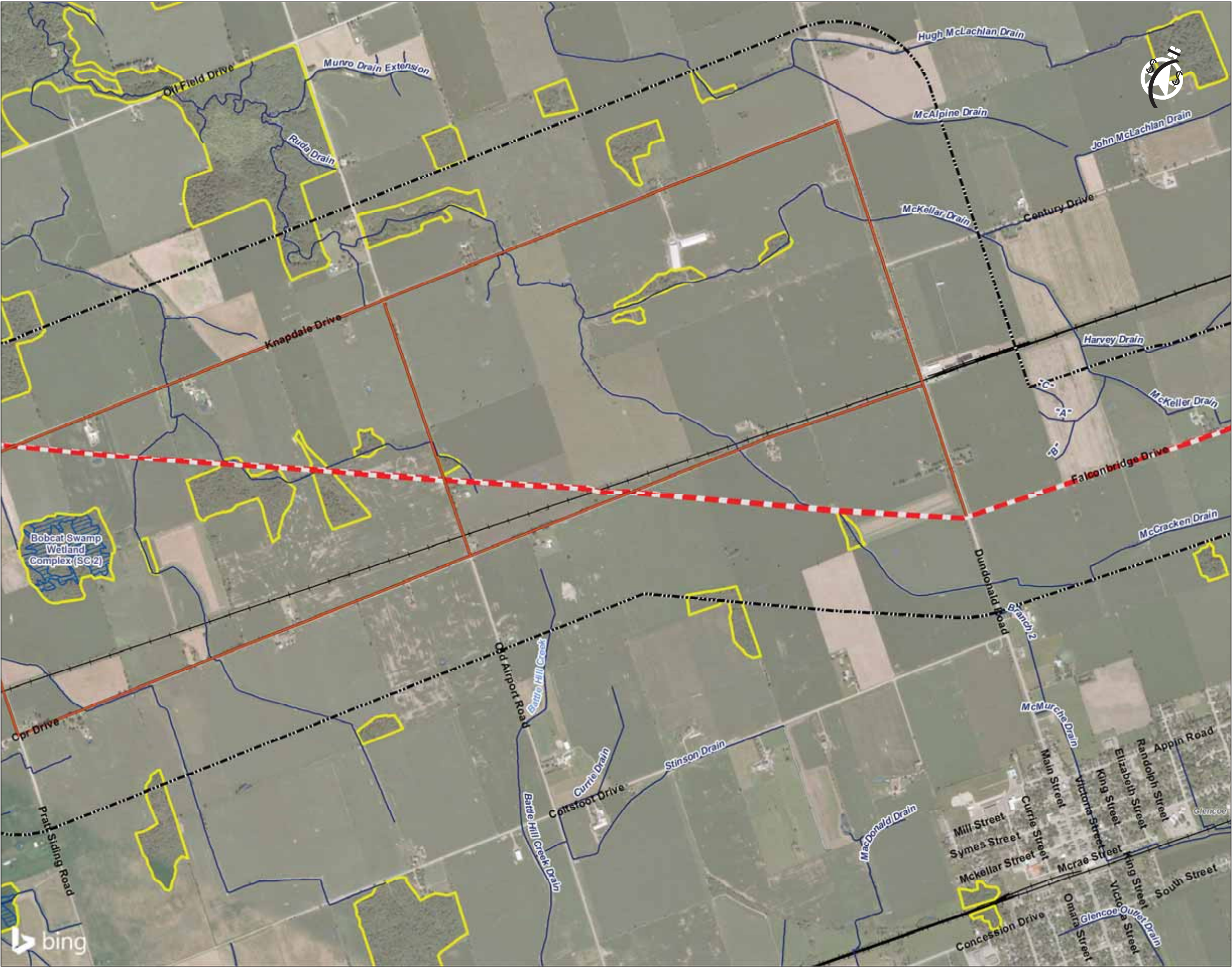


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Figure No.:
C-3.7
Title:
Natural Environment Features

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Study Area

Enbridge Gas Features

Existing Route

Alternative Segments

Strathroy Alternate 1

Strathroy Alternate 2

Strathroy Alternate 3

Strathroy Alternate 4

Base / Environmental Features

Constructed Drain

Railway - Operational

Watercourse

Municipal Boundary - Lower Tier

Natural Heritage (Middlesex)

Provincially Significant Wetland

Waterbody

0400800metres

1:20,000 (At original document size of 11x17)

Notes

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Project Location

Counties of Lambton and Middlesex

160951170 REV1

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Figure No.

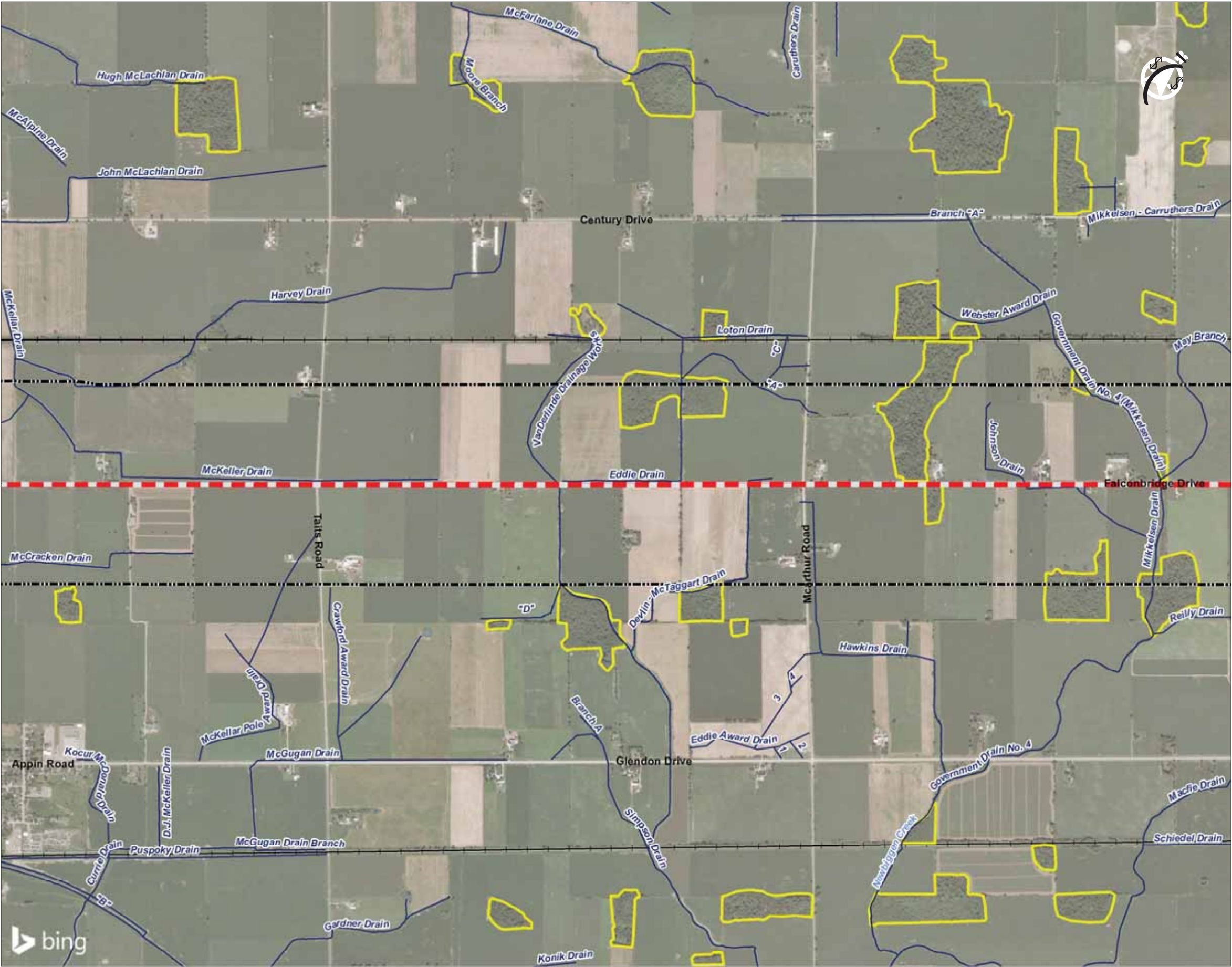
C-3.8


Title

Natural Environment Features


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
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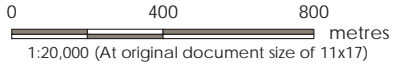
 Study Area

Enbridge Gas Features

-  Existing Route
-  Alternative Segments
-  Strathroy Alternate 1
-  Strathroy Alternate 2
-  Strathroy Alternate 3
-  Strathroy Alternate 4

Base / Environmental Features

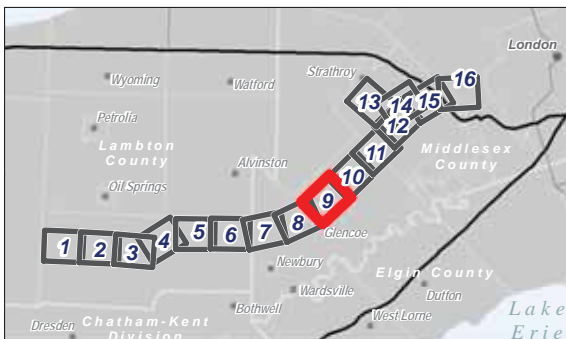
-  Constructed Drain
-  Railway - Operational
-  Watercourse
-  Municipal Boundary - Lower Tier
-  Natural Heritage (Middlesex)
-  Waterbody



0 400 800 metres
1:20,000 (At original document size of 11x17)

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The inset map shows the location of the study area within Lambton and Middlesex Counties, Ontario. It highlights the project corridor with numbered segments 1 through 16. Key locations like Wyandham, Watford, Strathroy, London, Petrolia, Alvinston, Glencoe, Newbury, Wardsville, Bothwell, Dresden, Chatham-Kent Division, and West Lorne are marked. The project corridor is shown passing through the counties, with segments 1-9 in Lambton County and segments 10-16 in Middlesex County.

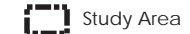
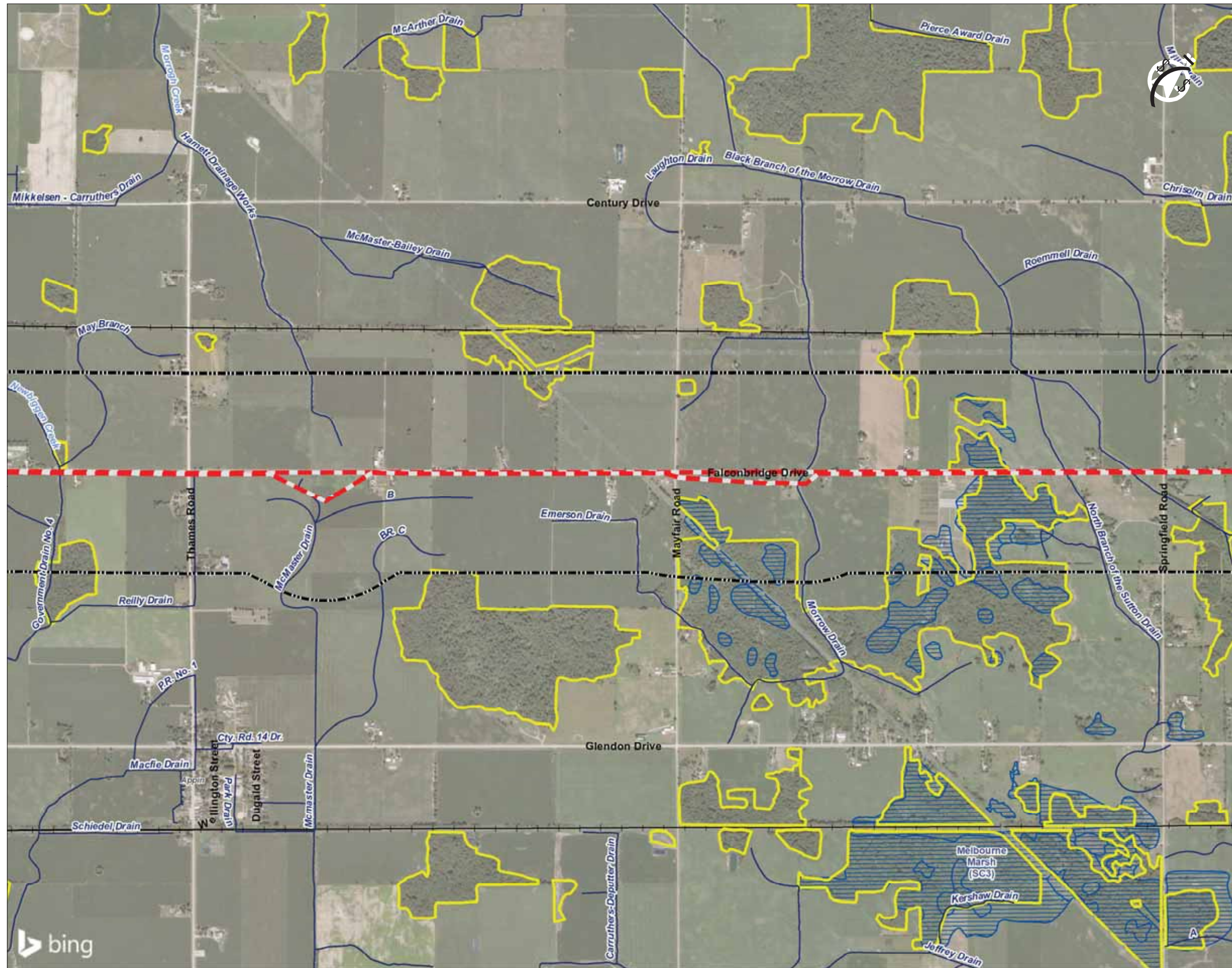
Project Location
Counties of Lambton and Middlesex

160951170 REV1
Prepared by SPE on 2020-07-09
Technical Review by BCC on 2020-07-09







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ENBRIDGE GAS INC.
LONDON LINES PROJECT

Figure No.
C-3.9









Title
Natural Environment Features

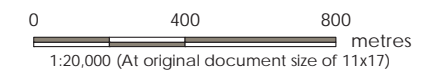


Enbridge Gas Features

-  Existing Route
 Alternative Segments
 Strathroy Alternate 1
 Strathroy Alternate 2
 Strathroy Alternate 3
 Strathroy Alternate 4

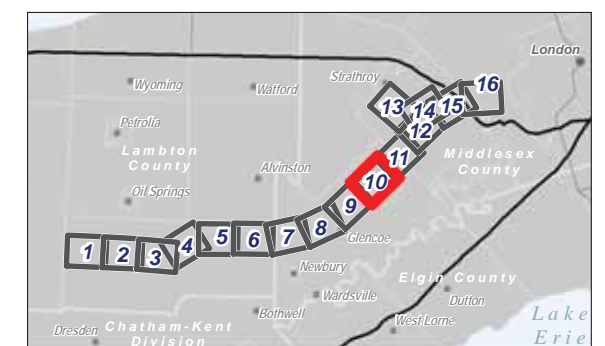
Base / Environmental Features

-  Constructed Drain
-  Hydro Line
-  Railway - Operational
-  Watercourse
-  Municipal Boundary - Lower Tier
-  Natural Heritage (Middlesex)
-  Provincially Significant Wetland
-  Waterbody



Notes

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Project Location
Counties of Lambton and
Middlesex

160951170 REV1
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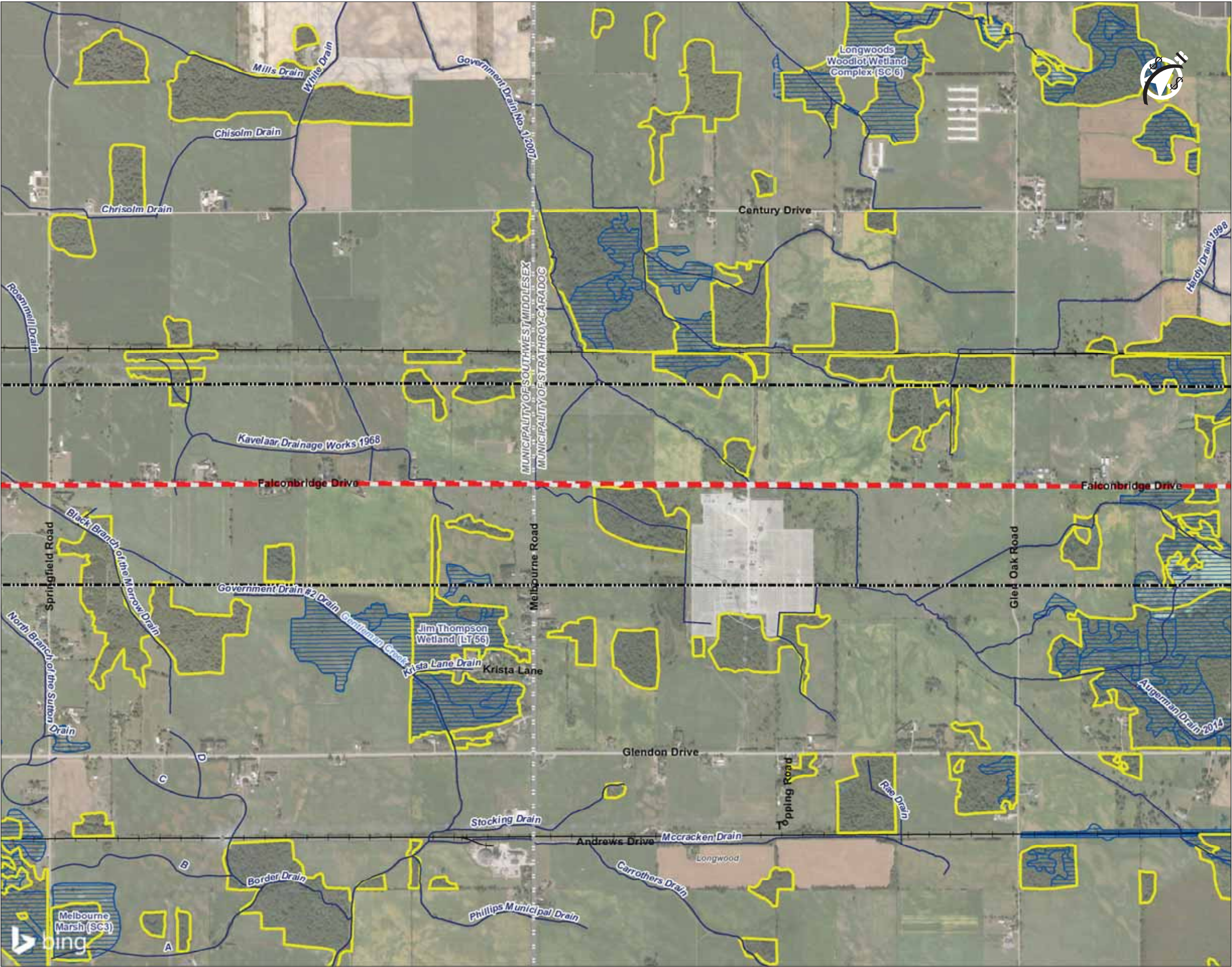
Client/Project
ENBRIDGE GAS INC.
LONDON LINES PROJECT

Figure No. _____

C-3.10

Title
Natural Environment Features

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Study Area

Enbridge Gas Features

Existing Route

Alternative Segments

Strathroy Alternate 1

Strathroy Alternate 2

Strathroy Alternate 3

Strathroy Alternate 4

Base / Environmental Features

Constructed Drain

Hydro Line

Railway - Operational

Watercourse

Municipal Boundary - Lower Tier

Natural Heritage (Middlesex)

Provincially Significant Wetland

Waterbody

0400800

metres

1:20,000 (At original document size of 11x17)

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Project Location

Counties of Lambton and Middlesex

160951170 REV1

Prepared by SPE on 2020-07-09

Technical Review by BCC on 2020-07-09

Client/Project

ENBRIDGE GAS INC.

LONDON LINES PROJECT

Figure No.

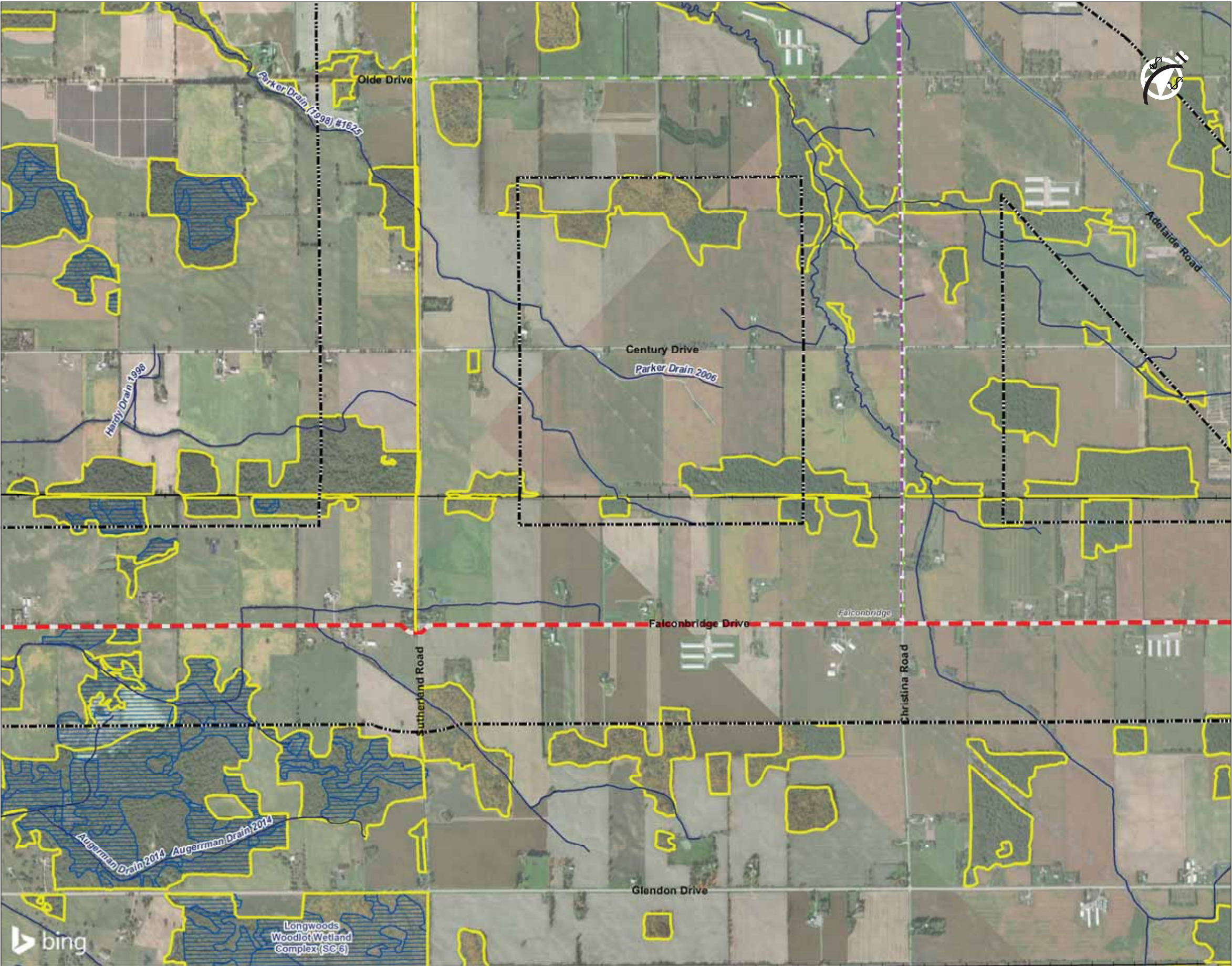
C-3.11


Title


Natural Environment Features

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 Study Area


Enbridge Gas Features


 Existing Route

 Alternative Segments


 Strathroy Alternate 1


 Strathroy Alternate 2


 Strathroy Alternate 3


 Strathroy Alternate 4


Base / Environmental Features


 Constructed Drain


 Hydro Line


 Railway - Operational

 Watercourse

 Municipal Boundary - Lower Tier

 Natural Heritage (Middlesex)

 Provincially Significant Wetland

 Waterbody

0400800

metres

1:20,000 (At original document size of 11x17)

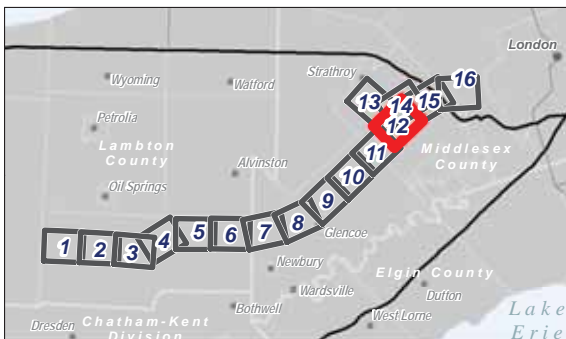
Notes

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Project Location

Counties of Lambton and Middlesex

160951170 REV1

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Client/Project

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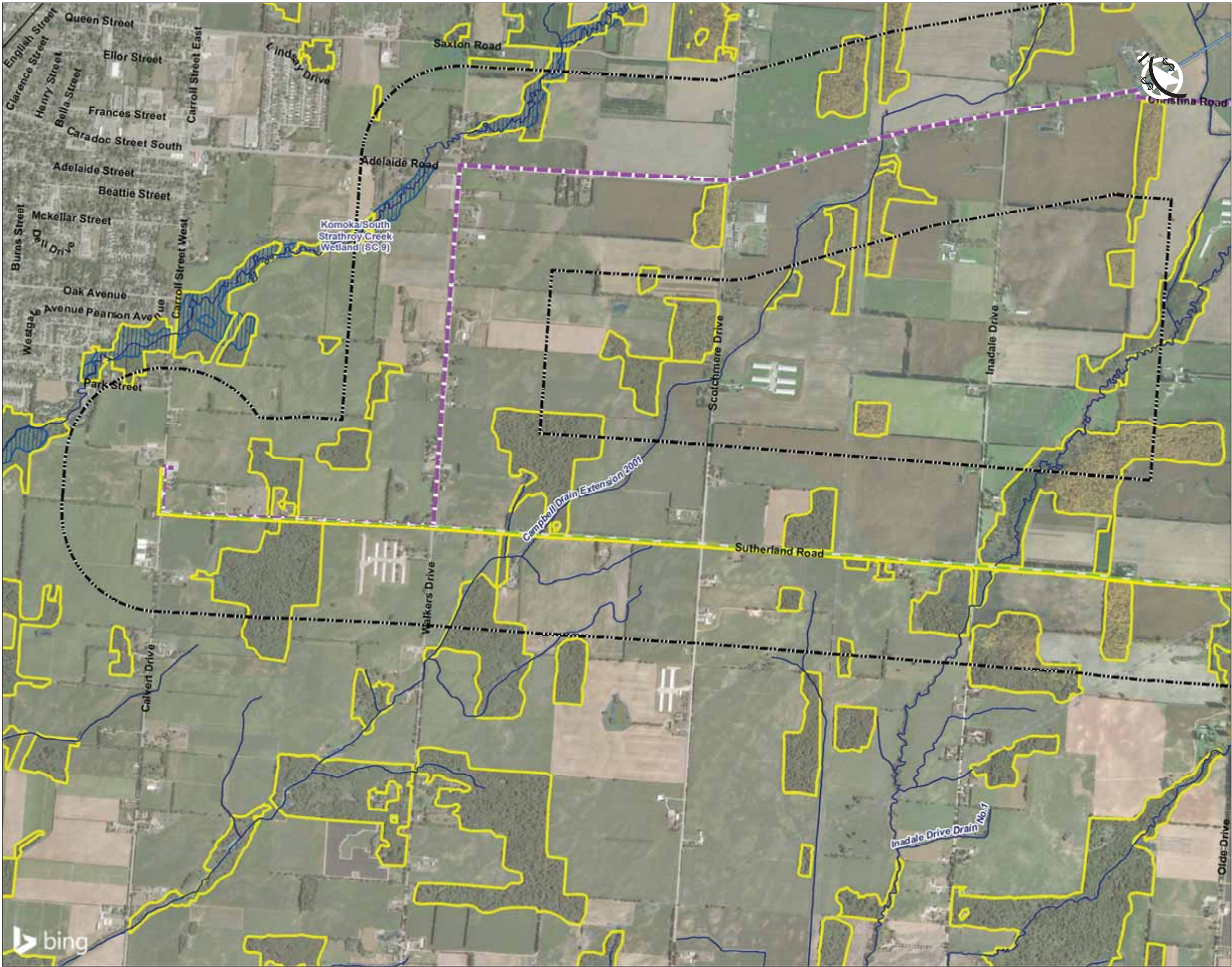
Figure No.

C-3.12

Title

Natural Environment Features

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- Study Area**
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
- Base / Environmental Features**
- Constructed Drain
 - Hydro Line
 - Railway - Operational
 - Watercourse
 - Municipal Boundary - Lower Tier
 - Natural Heritage (Middlesex)
 - Provincially Significant Wetland
 - Waterbody

0 400 800 metres
1:20,000 (At original document size of 11x17)

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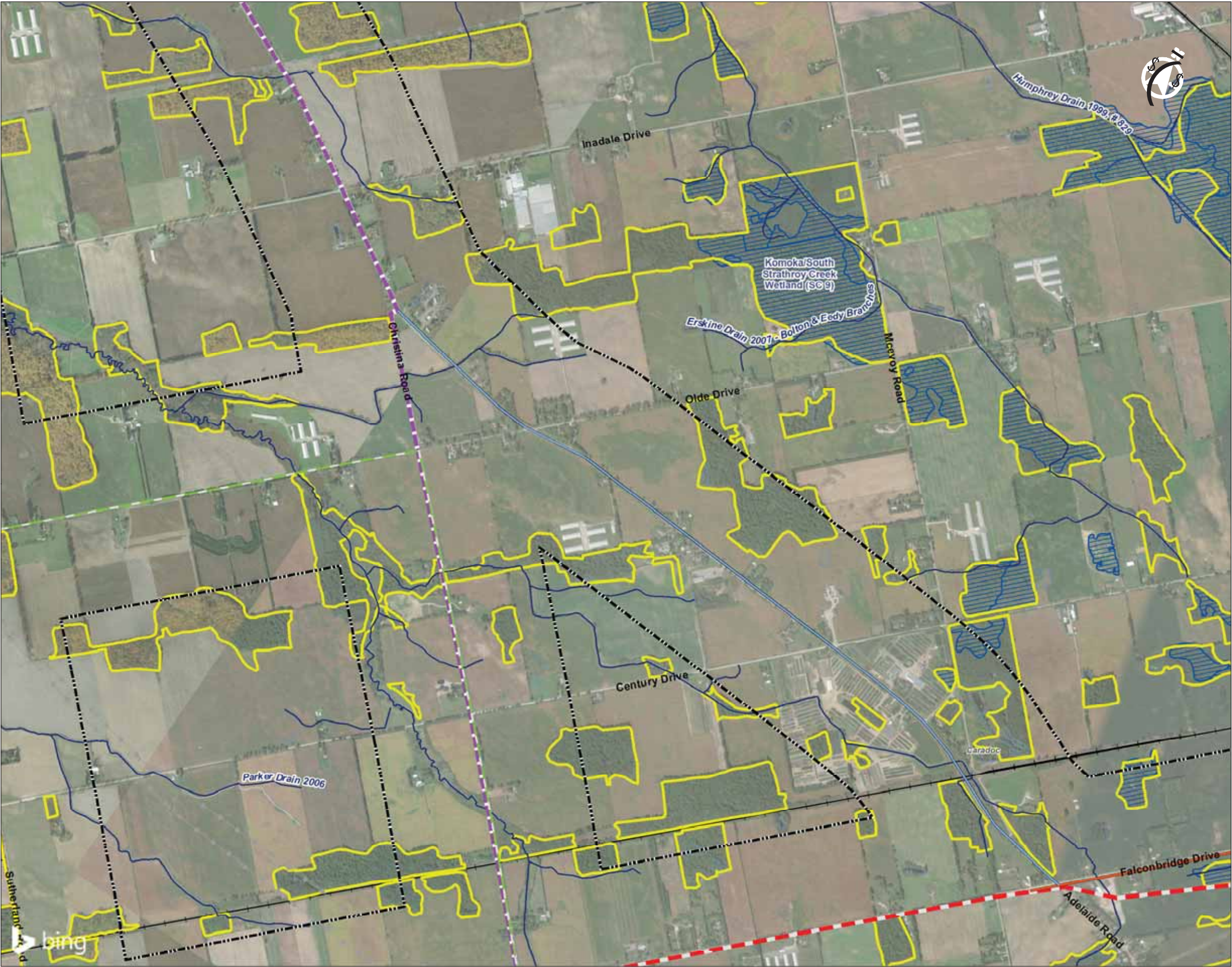


Project Location: Counties of Lambton and Middlesex
160951170 REV1
Prepared by SPE on 2020-07-09
Technical Review by BCC on 2020-07-09

Client/Project:
ENBRIDGE GAS INC.
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Figure No.
C-3.13
Title
Natural Environment Features

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Study Area

Enbridge Gas Features

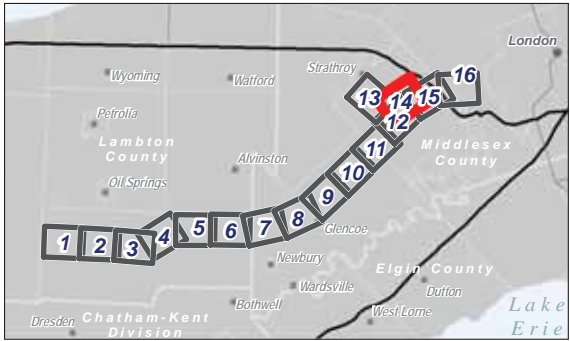
- Existing Route
- Alternative Segments
- Strathroy Alternate 1
- Strathroy Alternate 2
- Strathroy Alternate 3
- Strathroy Alternate 4

Base / Environmental Features

- Constructed Drain
- Hydro Line
- Railway - Operational
- Watercourse
- Municipal Boundary - Lower Tier
- Natural Heritage (Middlesex)
- Provincially Significant Wetland
- Waterbody

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes
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LONDON LINES PROJECT

Figure No.
C-3.14
Title
Natural Environment Features



Study Area

Enbridge Gas Features

- Existing Route
- Alternative Segments
- Strathroy Alternate 1
- Strathroy Alternate 2
- Strathroy Alternate 3
- Strathroy Alternate 4

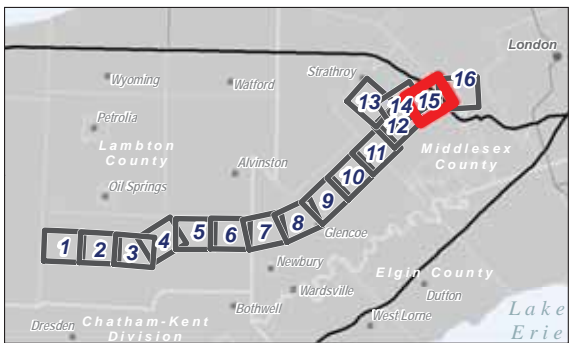
Base / Environmental Features

- Constructed Drain
- Hydro Line
- Railway - Operational
- Watercourse
- ANSI, Earth Science/Provincial
- Municipal Boundary - Lower Tier
- Natural Heritage (Middlesex)
- Provincially Significant Wetland
- Waterbody

0 400 800 metres
1:20,000 (At original document size of 11x17)

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
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3. Middlesex natural heritage data provided on March 6, 2020.
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Figure No.

C-3.15

Title

Natural Environment Features



Study Area

Enbridge Gas Features

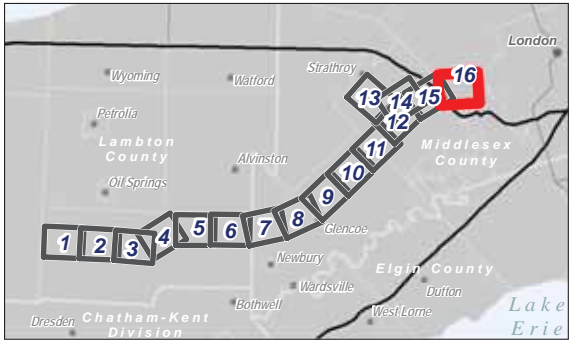
- Existing Route
- Alternative Segments
- Strathroy Alternate 1
- Strathroy Alternate 2
- Strathroy Alternate 3
- Strathroy Alternate 4

Base / Environmental Features

- Constructed Drain
- Trail
- Railway - Operational
- Watercourse
- ANSI, Earth Science;Provincial
- ANSI, Life Science;Provincial
- Municipal Boundary - Lower Tier
- Natural Heritage (Middlesex)
- Provincial Park - Provincially Regulated
- Provincially Significant Wetland
- Waterbody

0 400 800 metres
1:20,000 (At original document size of 11x17)

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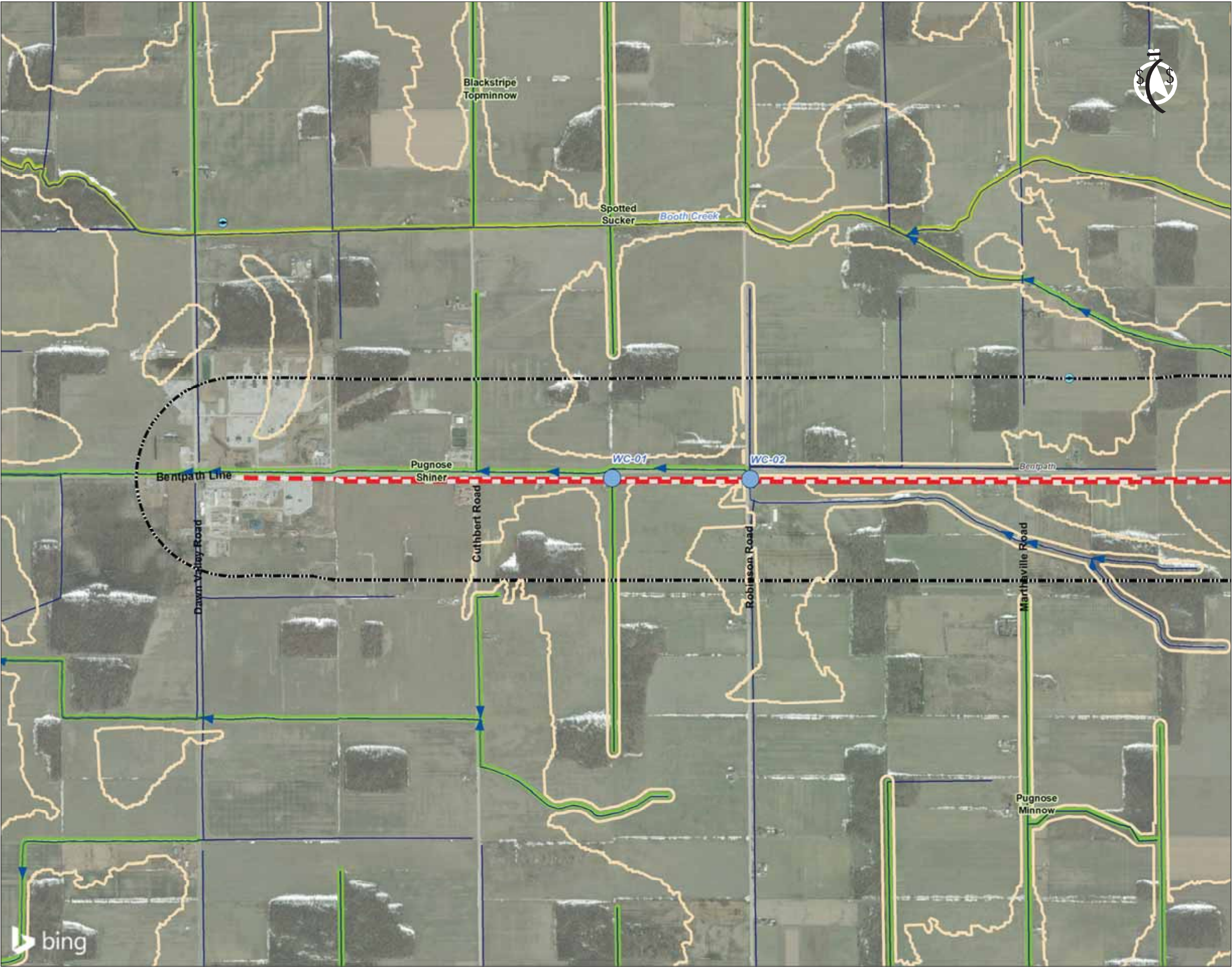
Figure No.

C-3.16

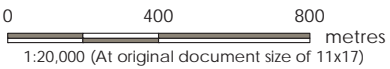
Title

Natural Environment Features

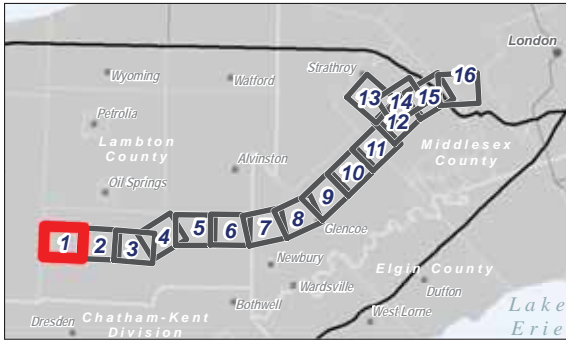
\\cd1215-01\work\group\01609\Active\160951170\elamh\03_data\ok_cad\shaded\map\road_features\en\160951170_ER_Fig-C-4_Watercourse_Survey_Mapbook.mxd Revised: 2020-07-09 By: searles



- Study Area
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
- Base / Environmental Features**
- Flow Direction
 - Constructed Drain
 - Watercourse Crossing Location
 - Watercourse
 - Thermal Regime, Warm
 - Waterbody
 - Aquatic Species at Risk Distribution
- Conservation Authority Data**
- Fish Species
 - Regulation Area



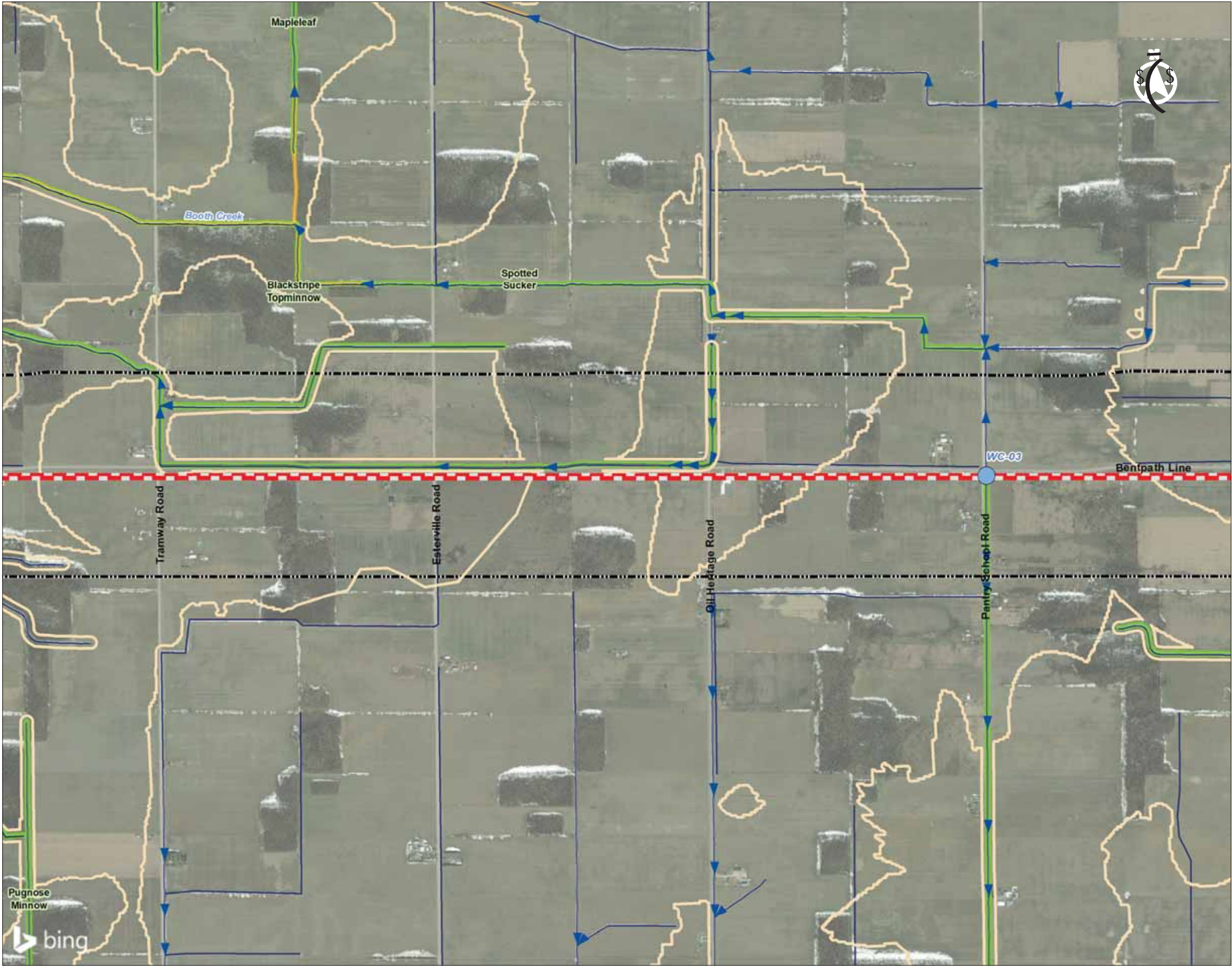
- Notes**
1. Coordinate System: NAD 1983 UTM Zone 17N
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Figure No.:
C-4.1
Title:
**Watercourses and Preferred Route
Watercourse Survey Locations**



 Study Area
Enbridge Gas Features

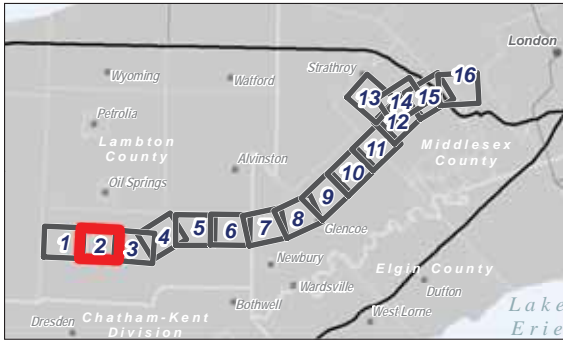
-  Existing Route
-  Alternative Segments
-  Strathroy Alternate 1
-  Strathroy Alternate 2
-  Strathroy Alternate 3
-  Strathroy Alternate 4

Base / Environmental Features

-  Flow Direction
-  Constructed Drain
-  Watercourse Crossing Location
-  Watercourse
-  Thermal Regime, Warm
-  Aquatic Species at Risk Distribution
-  Regulation Area

0 400 800 metres
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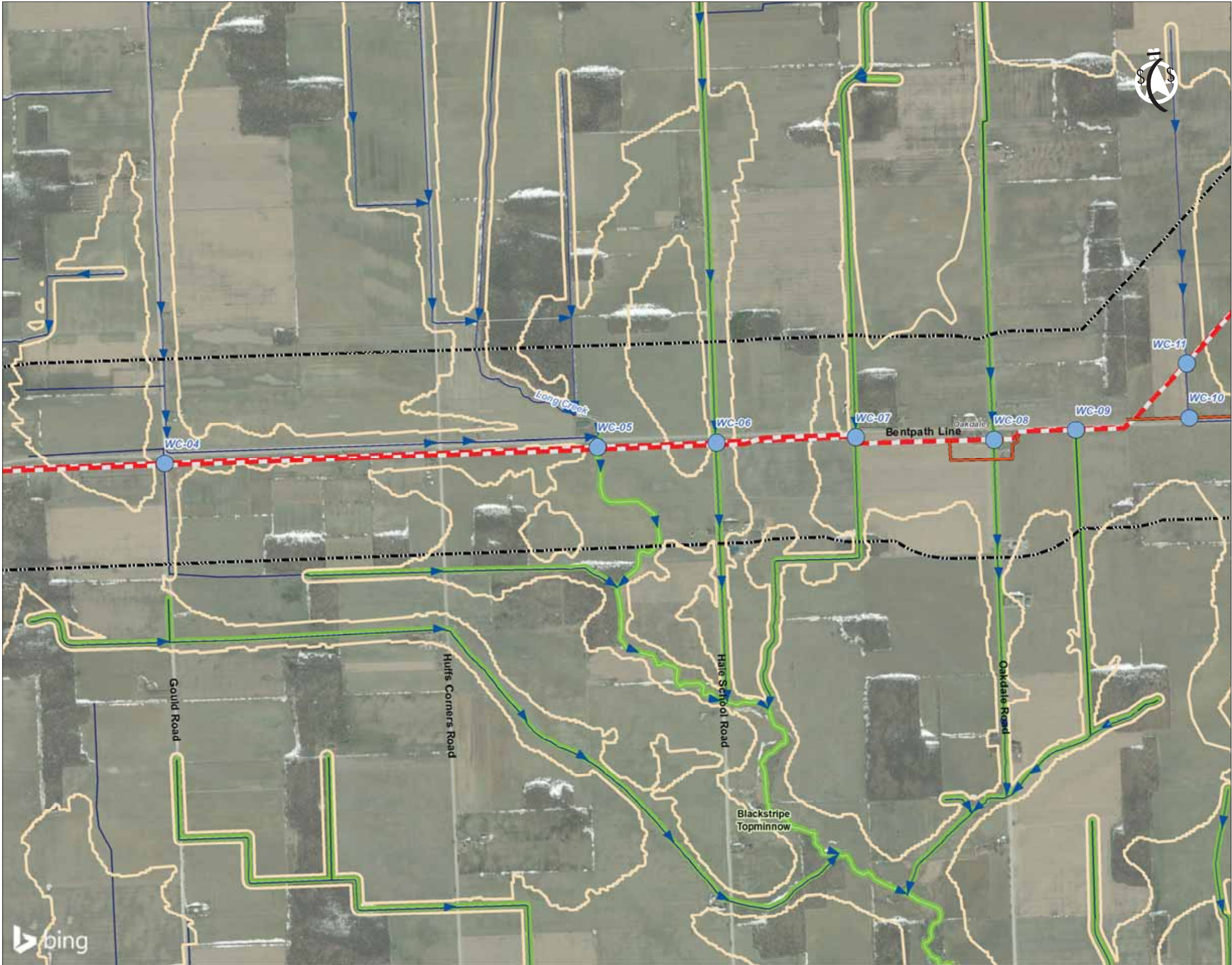


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Figure No.
C-4.2

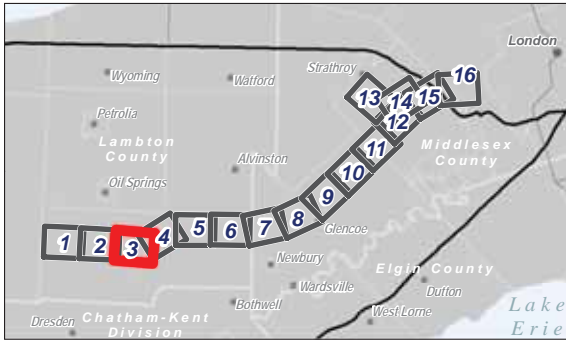
Title
**Watercourses and Preferred Route
Watercourse Survey Locations**



- Study Area**
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
- Base / Environmental Features**
- Flow Direction
 - Constructed Drain
 - Watercourse Crossing Location
 - Watercourse
 - Thermal Regime, Warm
 - Intermittent Watercourse
 - Aquatic Species at Risk Distribution
 - Regulation Area

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes**
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Figure No.
C-4.3

Title
**Watercourses and Preferred Route
Watercourse Survey Locations**

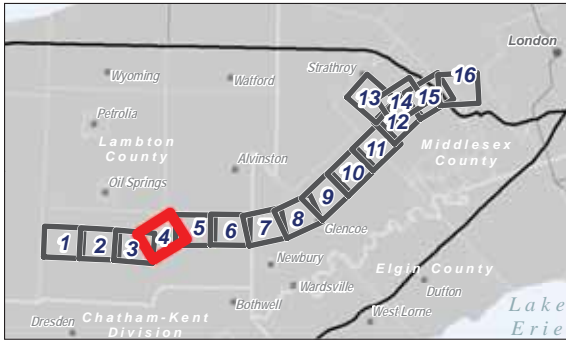
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- Study Area
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
- Base / Environmental Features**
- Flow Direction
 - Constructed Drain
 - Watercourse Crossing Location
 - Watercourse
 - Thermal Regime, Warm
 - Intermittent Watercourse
 - Waterbody
 - Aquatic Species at Risk Distribution
- Conservation Authority Data**
- Fish Species
 - Regulation Area

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes**
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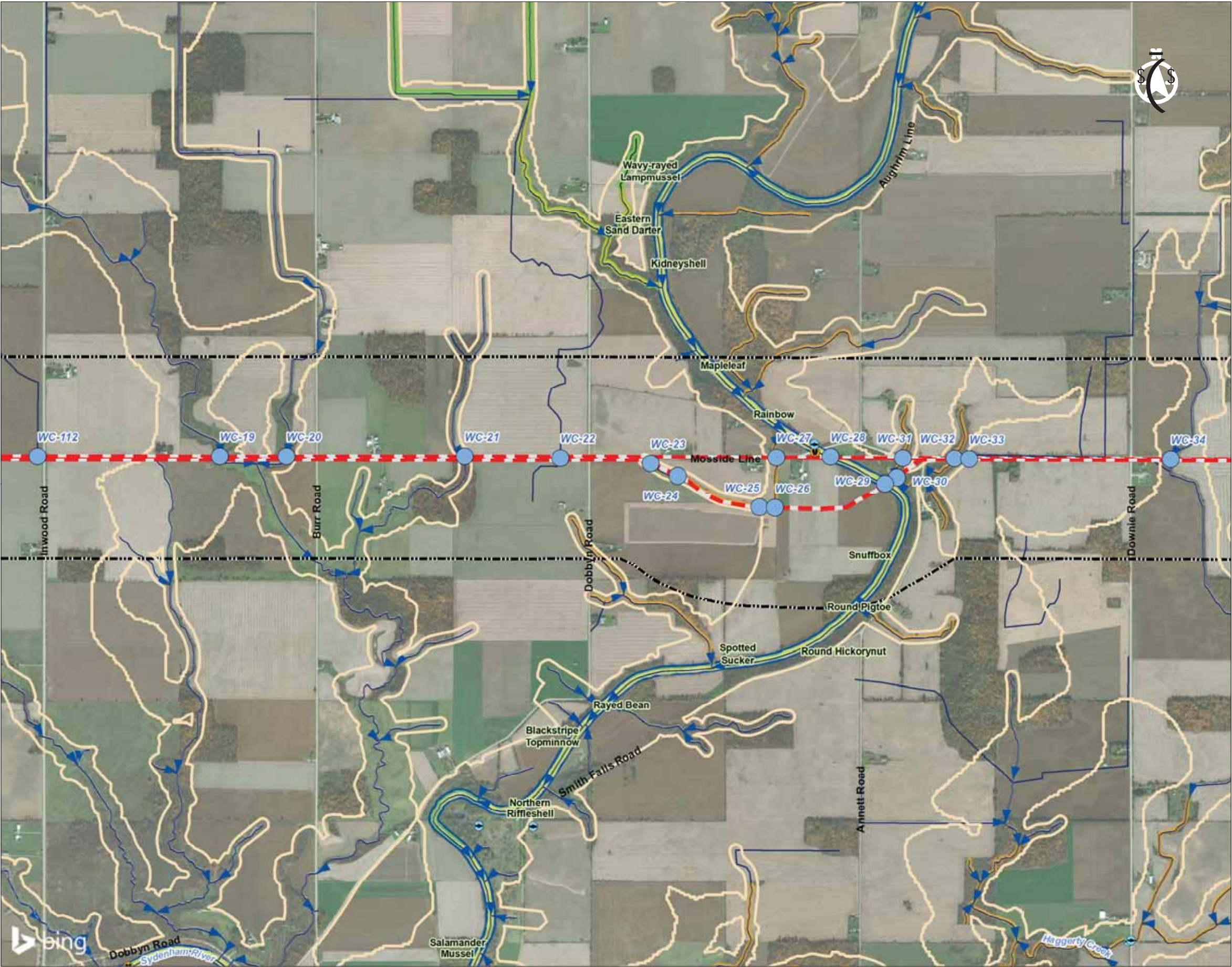
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Figure No.
C-4.4

Title
**Watercourses and Preferred Route
Watercourse Survey Locations**

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Study Area

Enbridge Gas Features

- Existing Route
- Alternative Segments
- Strathroy Alternate 1
- Strathroy Alternate 2
- Strathroy Alternate 3
- Strathroy Alternate 4

Base / Environmental Features

- Flow Direction
- Constructed Drain
- Watercourse Crossing Location
- Watercourse
- Thermal Regime, Warm
- Intermittent Watercourse
- Waterbody
- Aquatic Species at Risk Distribution
- Aquatic Species at Risk Critical Habitat

Conservation Authority Data

- Fish Species
- Mussel Species
- Regulation Area

0400800metres

1:20,000 (At original document size of 11x17)

Notes

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Figure No.

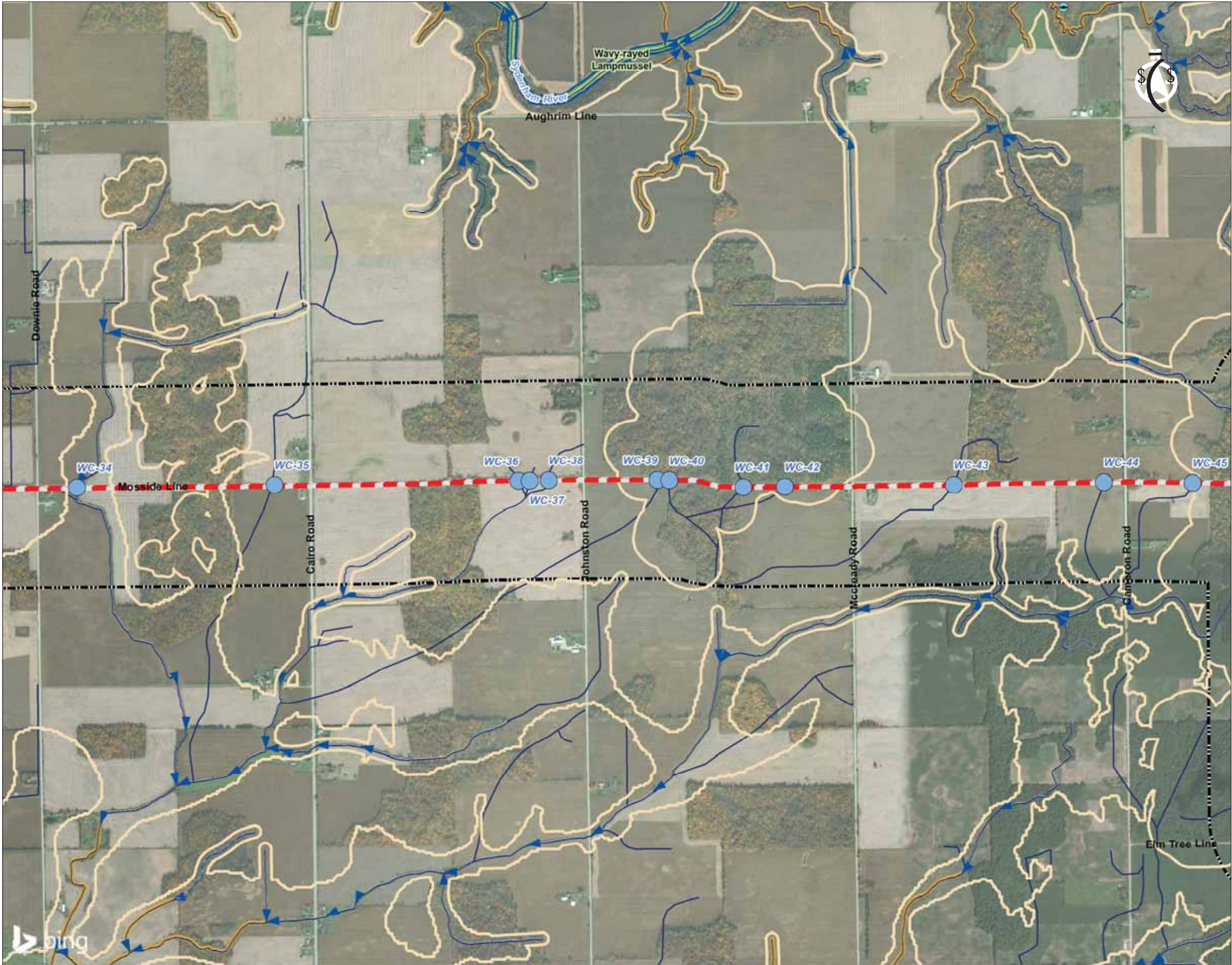
C-4.5

Title

Watercourses and Preferred Route

Watercourse Survey Locations

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Study Area

Enbridge Gas Features

- Existing Route
- Alternative Segments
- Strathroy Alternate 1
- Strathroy Alternate 2
- Strathroy Alternate 3
- Strathroy Alternate 4

Base / Environmental Features

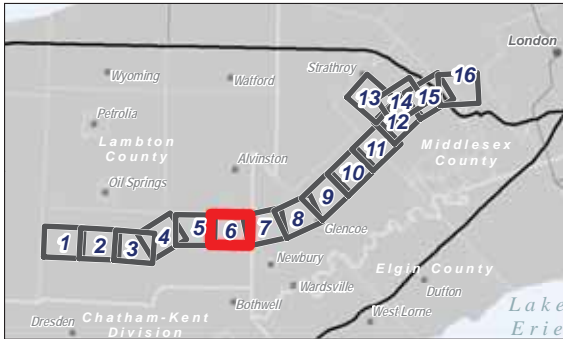
- Flow Direction
- Constructed Drain
- Watercourse Crossing Location
- Watercourse
- Thermal Regime, Warm
- Intermittent Watercourse
- Waterbody
- Aquatic Species at Risk Distribution
- Aquatic Species at Risk Critical Habitat

Conservation Authority Data

- Fish Species
- Regulation Area

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes
- Coordinate System: NAD 1983 UTM Zone 17N
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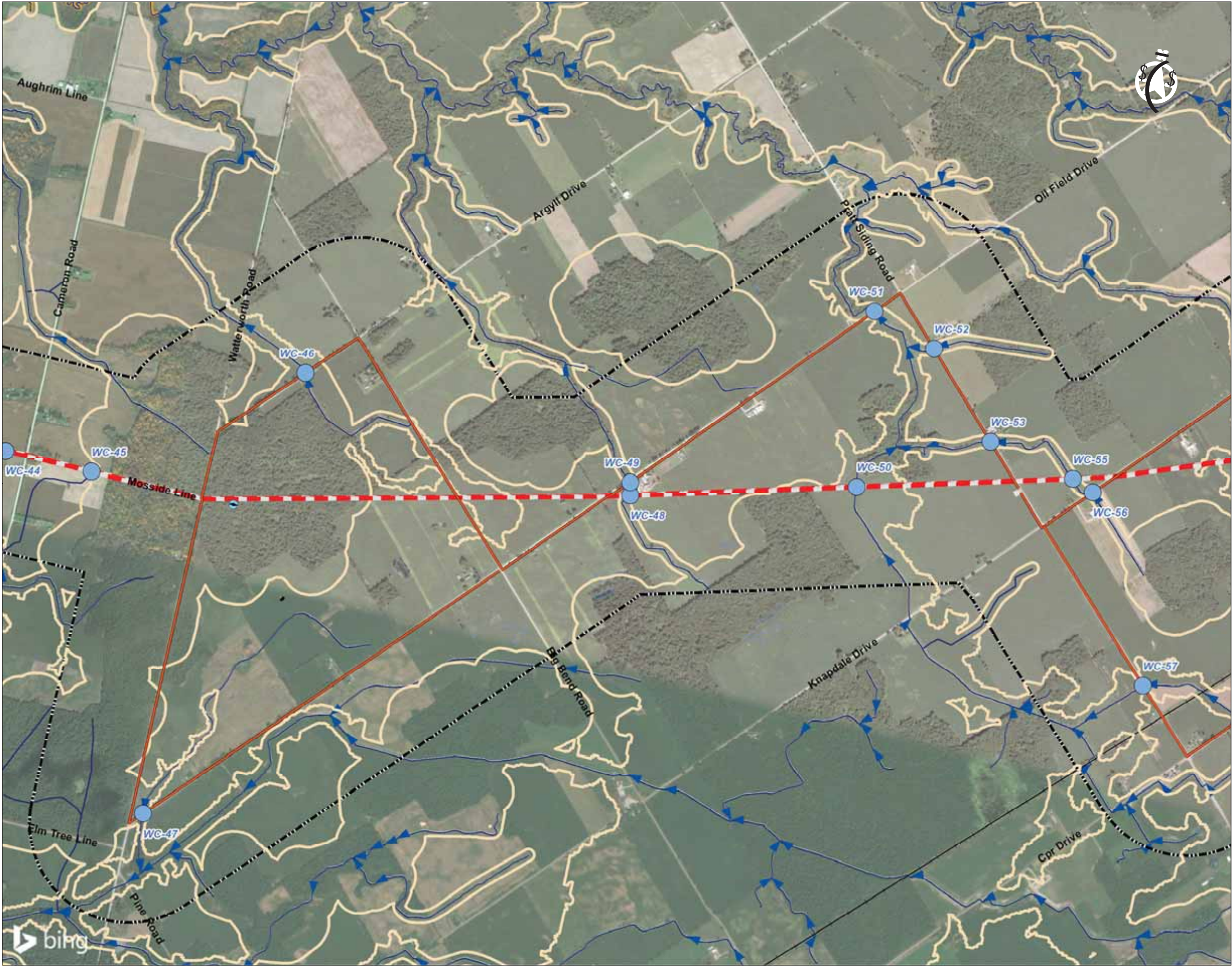
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Counties of Lambton
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Figure No.
C-4.6

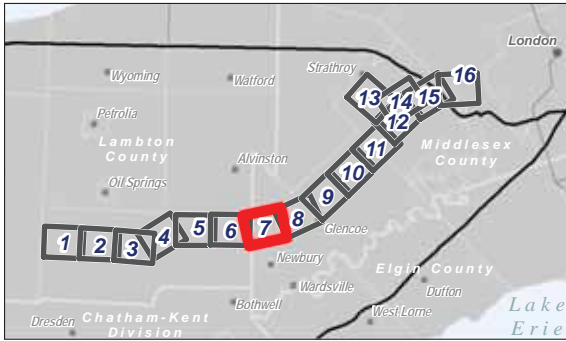
Title
**Watercourses and Preferred Route
Watercourse Survey Locations**



- Study Area**
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
- Base / Environmental Features**
- Flow Direction
 - Constructed Drain
 - Watercourse Crossing Location
 - Railway - Operational
 - Watercourse
 - Thermal Regime, Warm
 - Waterbody
- Conservation Authority Data**
- Fish Species
 - Regulation Area

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes**
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Figure No.


C-4.7




Title

Watercourses and Preferred Route
Watercourse Survey Locations








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 Study Area
Enbridge Gas Features

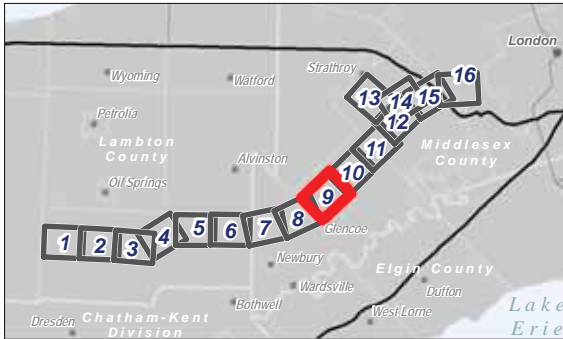
-  Existing Route
-  Alternative Segments
-  Strathroy Alternate 1
-  Strathroy Alternate 2
-  Strathroy Alternate 3
-  Strathroy Alternate 4

Base / Environmental Features

-  Flow Direction
-  Constructed Drain
-  Watercourse Crossing Location
-  Railway - Operational
-  Watercourse
-  Waterbody
-  Regulation Area

0 400 800 metres
1:20,000 (At original document size of 11x17)

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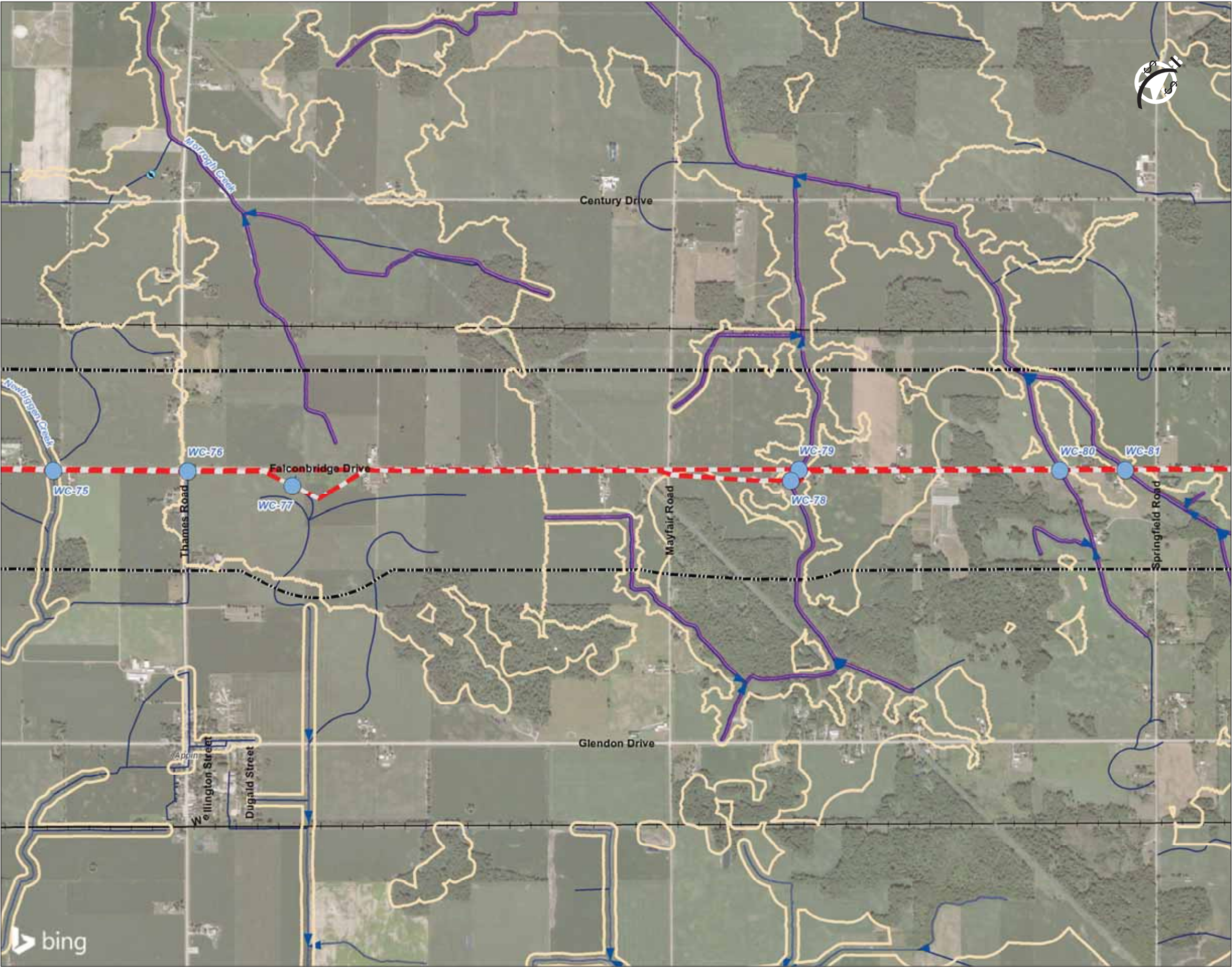
Figure No.


C-4.9







Title

**Watercourses and Preferred Route
Watercourse Survey Locations**









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 Study Area
Enbridge Gas Features

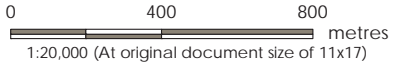
-  Existing Route
-  Alternative Segments
-  Strathroy Alternate 1
-  Strathroy Alternate 2
-  Strathroy Alternate 3
-  Strathroy Alternate 4

Base / Environmental Features

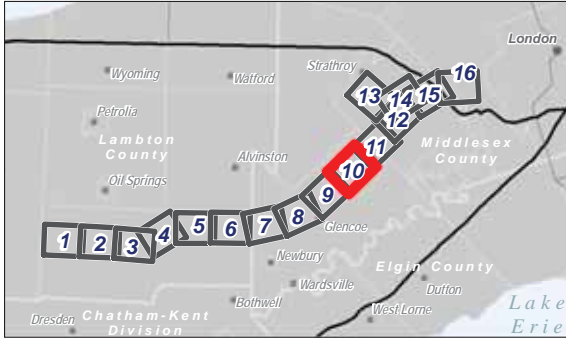
-  Flow Direction
-  Constructed Drain
-  Watercourse Crossing Location
-  Hydro Line
-  Railway - Operational
-  Watercourse
-  Thermal Regime, Cold
-  Waterbody

Conservation Authority Data

-  Fish Species
-  Regulation Area



- Notes**
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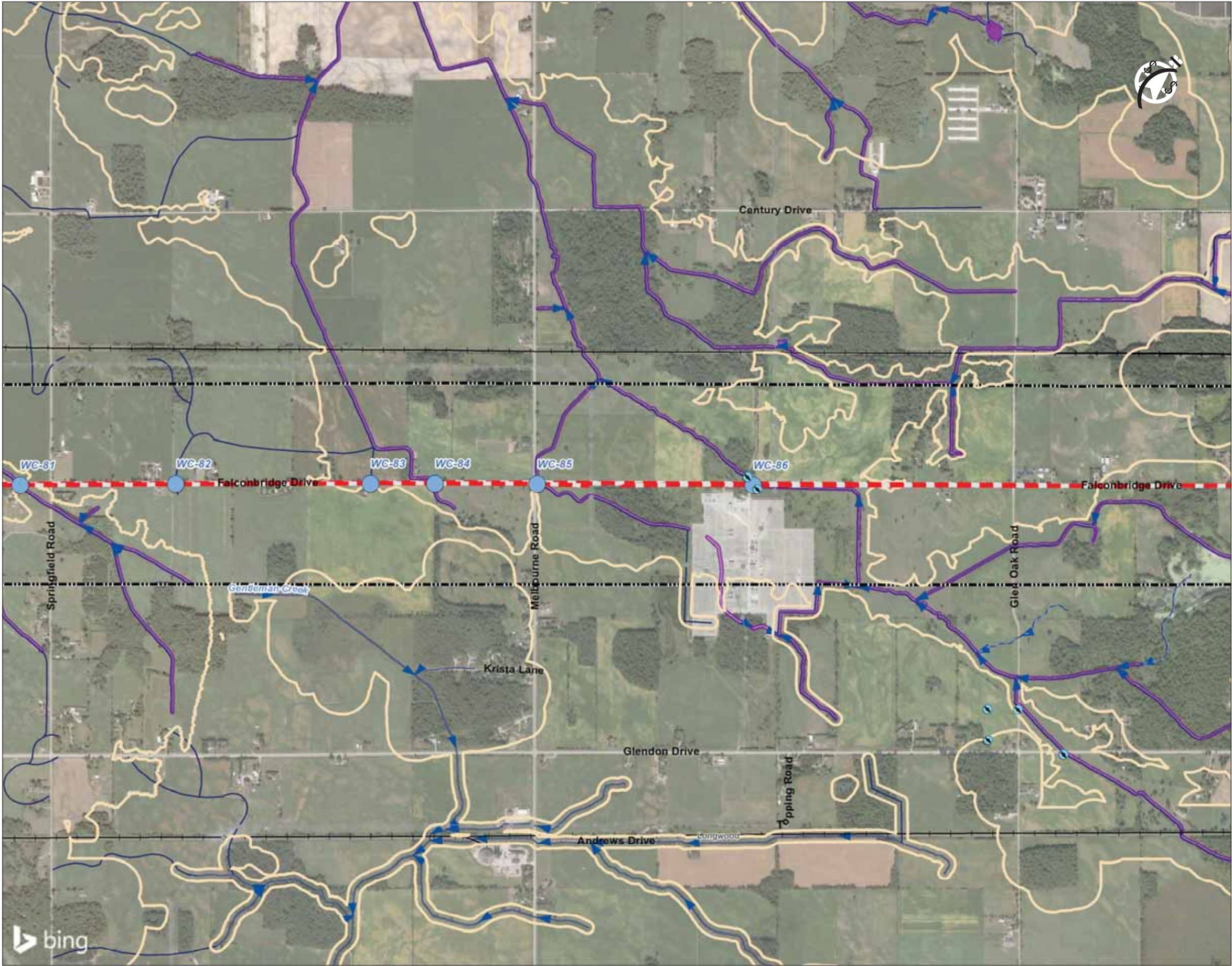


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160951170 REV1
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Figure No.:
C-4.10
Title:
**Watercourses and Preferred Route
Watercourse Survey Locations**

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Study Area

Enbridge Gas Features

- Existing Route
- Alternative Segments
- Strathroy Alternate 1
- Strathroy Alternate 2
- Strathroy Alternate 3
- Strathroy Alternate 4

Base / Environmental Features

- Flow Direction
- Constructed Drain
- Watercourse Crossing Location
- Hydro Line
- Railway - Operational
- Watercourse
- Thermal Regime, Cold
- Intermittent Watercourse
- Waterbody

Conservation Authority Data

- Fish Species
- Regulation Area

0 400 800 metres

1:20,000 (At original document size of 11x17)

Notes

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and Middlesex

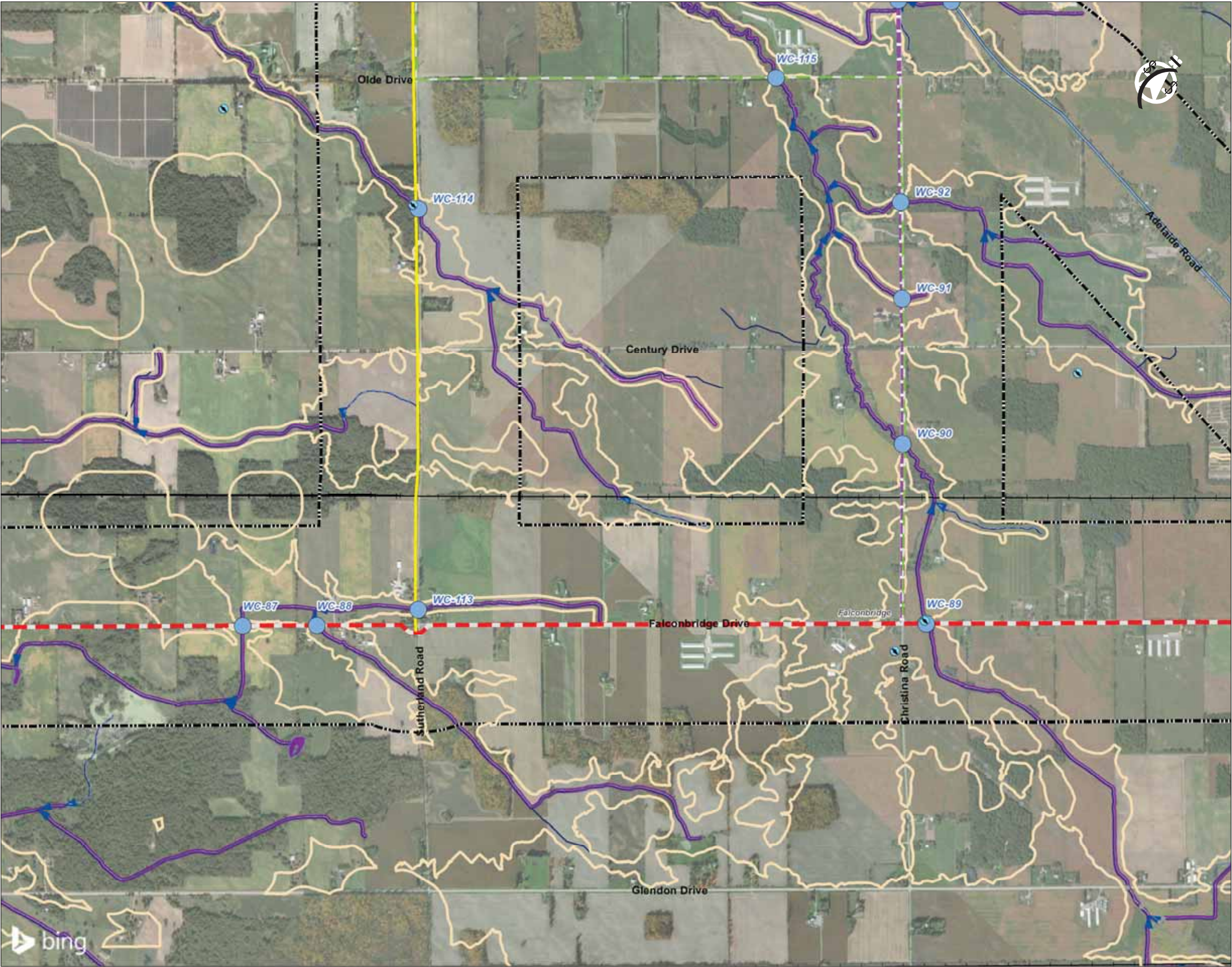
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Figure No.
C-4.11

Title
**Watercourses and Preferred Route
Watercourse Survey Locations**


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 Study Area


Enbridge Gas Features


 Existing Route

 Alternative Segments


 Strathroy Alternate 1


 Strathroy Alternate 2


 Strathroy Alternate 3


 Strathroy Alternate 4


Base / Environmental Features


 Flow Direction


 Constructed Drain


 Watercourse Crossing Location


 Hydro Line

 Railway - Operational


 Watercourse


 Thermal Regime, Cold

 Intermittent Watercourse

 Waterbody

Conservation Authority Data

 Fish Species

 Regulation Area

0400800

metres

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Notes

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Project Location
Counties of Lambton
and Middlesex

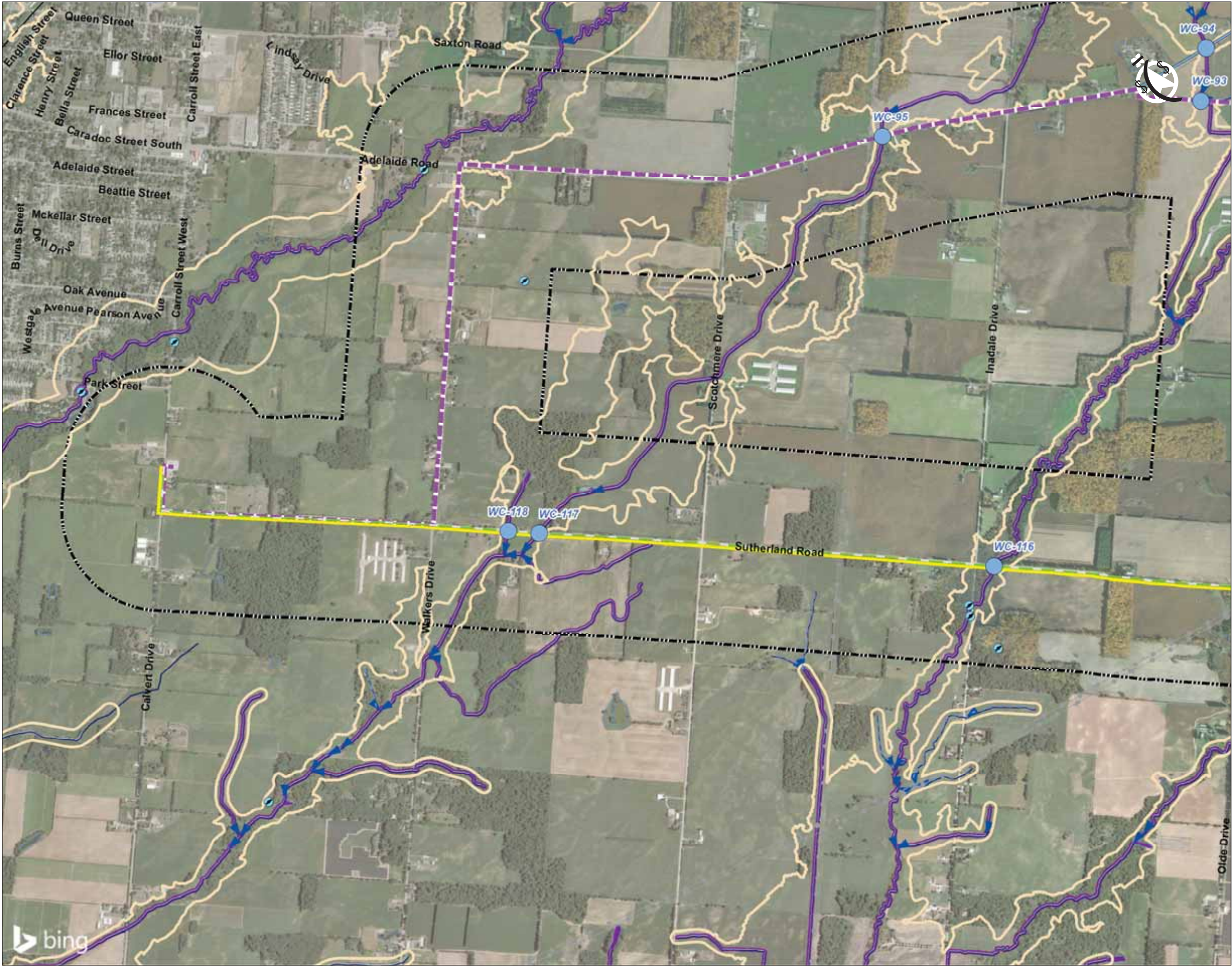
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LONDON LINES PROJECT

Figure No.
C-4.12

Title
**Watercourses and Preferred Route
Watercourse Survey Locations**

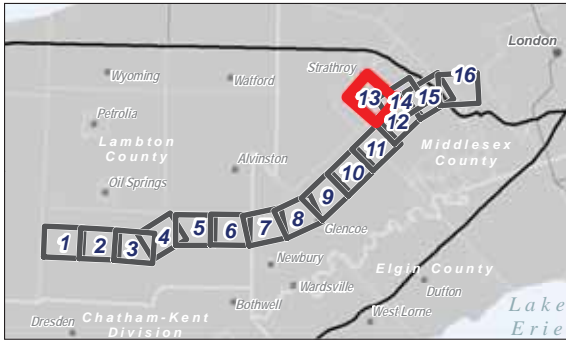
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- Study Area**
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
- Base / Environmental Features**
- Flow Direction
 - Constructed Drain
 - Watercourse Crossing Location
 - Hydro Line
 - Railway - Operational
 - Watercourse
 - Thermal Regime, Cold
 - Intermittent Watercourse
 - Waterbody
- Conservation Authority Data**
- Fish Species
 - Regulation Area

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes**
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Figure No.
C-4.13

Title
**Watercourses and Preferred Route
Watercourse Survey Locations**

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Study Area

Enbridge Gas Features

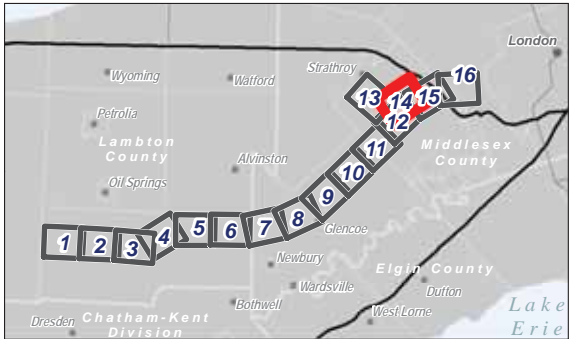
- Existing Route
- Alternative Segments
- Strathroy Alternate 1
- Strathroy Alternate 2
- Strathroy Alternate 3
- Strathroy Alternate 4

Base / Environmental Features

- Flow Direction
- Constructed Drain
- Watercourse Crossing Location
- Hydro Line
- Railway - Operational
- Watercourse
- Thermal Regime, Cold
- Thermal Regime, Warm
- Intermittent Watercourse
- Waterbody
- Fish Species
- Regulation Area

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes**
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LONDON LINES PROJECT

Figure No.
C-4.14

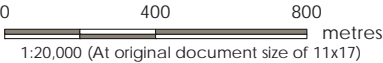
Title
**Watercourses and Preferred Route
Watercourse Survey Locations**



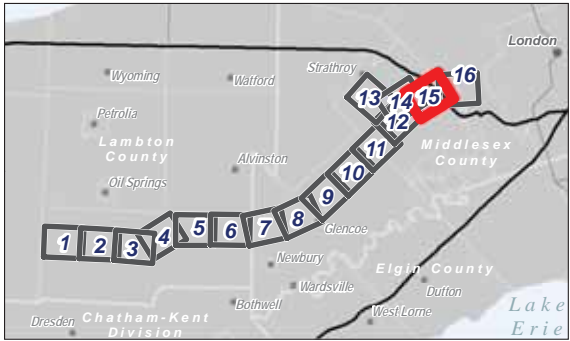
- Study Area**
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
- Base / Environmental Features**
- Flow Direction
 - Constructed Drain
 - Watercourse Crossing Location
 - Hydro Line
 - Railway - Operational
 - Watercourse
 - Thermal Regime, Cold
 - Thermal Regime, Warm
 - Intermittent Watercourse
 - Waterbody
 - Aquatic Species at Risk Distribution

Conservation Authority Data

- Fish Species
- Regulation Area



- Notes**
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Figure No.

C-4.15

Title

Watercourse and Preferred Route
Watercourse Survey Locations



Study Area

Enbridge Gas Features

- Existing Route
- Alternative Segments
- Strathroy Alternate 1
- Strathroy Alternate 2
- Strathroy Alternate 3
- Strathroy Alternate 4

Base / Environmental Features

- Flow Direction
- Constructed Drain
- Watercourse Crossing Location
- Railway - Operational
- Watercourse
- Thermal Regime, Cold
- Intermittent Watercourse
- Waterbody
- Aquatic Species at Risk Distribution
- Aquatic Species at Risk Critical Habitat

Conservation Authority Data

- Fish Species
- Mussel Species
- Regulation Area

0 400 800 metres
1:20,000 (At original document size of 11x17)

Notes

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and Middlesex

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LONDON LINES PROJECT

Figure No.
C-4.16

Title
**Watercourses and Preferred Route
Watercourse Survey Locations**

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Study Area

Enbridge Gas Features

Existing Route

Alternative Segments

Strathroy Alternate 1

Strathroy Alternate 2

Strathroy Alternate 3

Strathroy Alternate 4

Base / Environmental Features

Petroleum Well

Watercourse

Municipal Boundary - Lower Tier

Waterbody

Petroleum Pool

Natural Gas Storage Pool - Active

Natural Gas Pool - Active

Natural Gas Pool - Abandoned

Oil Pool - Active

Oil Pool - Abandoned

0400800

metres

1:20,000 (At original document size of 11x17)

Notes

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Project Location

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Figure No.

C-5.1

Title

Aggregate and Petroleum Features

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Study Area

Enbridge Gas Features

Existing Route

Alternative Segments

Strathroy Alternate 1

Strathroy Alternate 2

Strathroy Alternate 3

Strathroy Alternate 4

Base / Environmental Features

Petroleum Well

Watercourse

Municipal Boundary - Lower Tier

Petroleum Pool

Natural Gas Storage Pool - Active

Natural Gas Pool - Active

Natural Gas Pool - Abandoned

0400800metres

1:20,000 (At original document size of 11x17)

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Figure No.

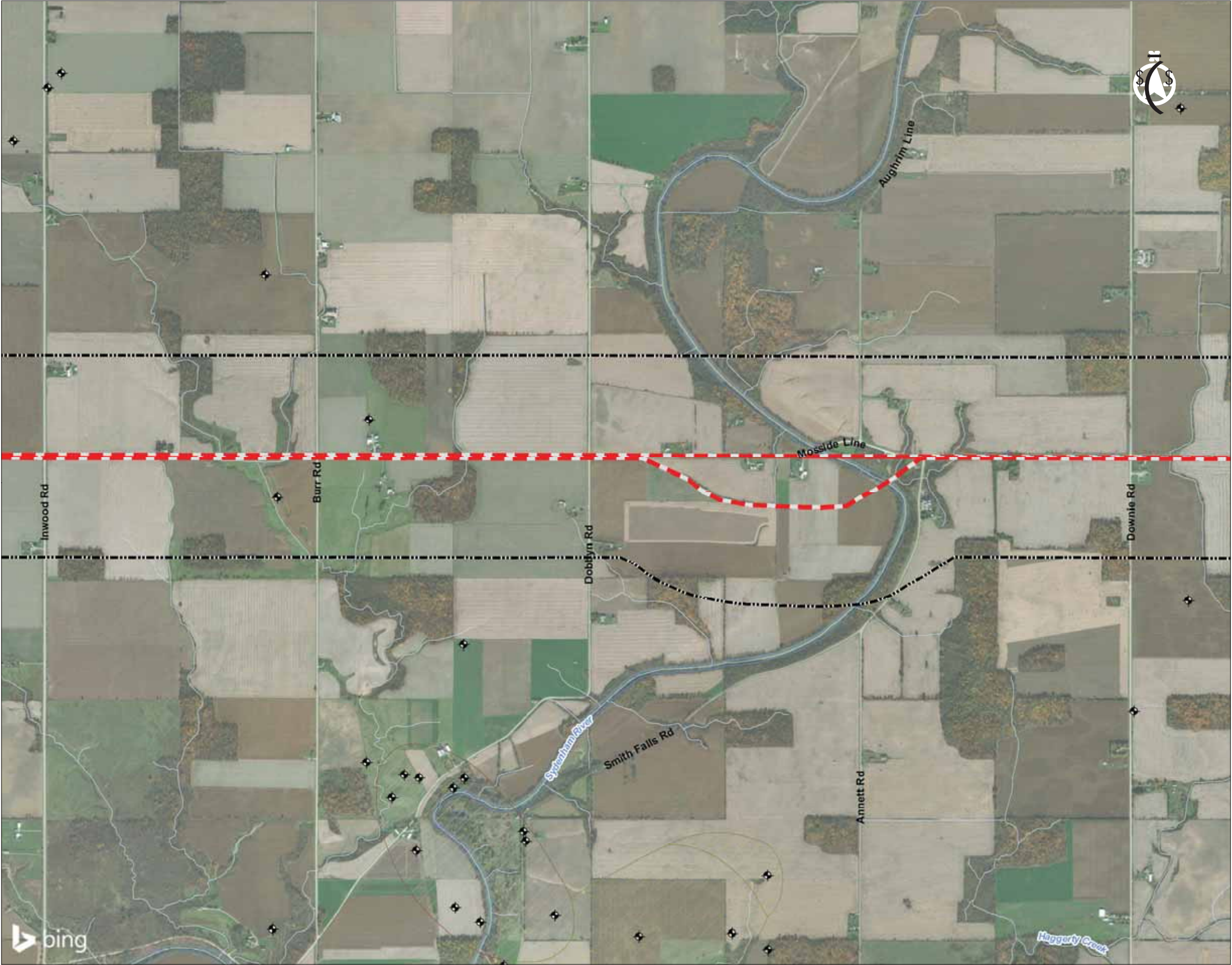
C-5.2

Title

Aggregate and Petroleum Features

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Study Area

Enbridge Gas Features

- Existing Route
- Alternative Segments
- Strathroy Alternate 1
- Strathroy Alternate 2
- Strathroy Alternate 3
- Strathroy Alternate 4

Base / Environmental Features

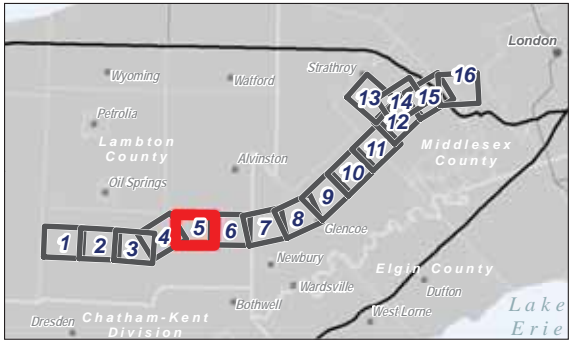
- Petroleum Well
- Watercourse
- Municipal Boundary - Lower Tier
- Waterbody

Petroleum Pool

- Natural Gas Pool - Active
- Natural Gas Pool - Abandoned
- Oil Pool - Abandoned

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes
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Figure No.


C-5.5


Title

Aggregate and Petroleum Features







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





**Study Area**


Enbridge Gas Features

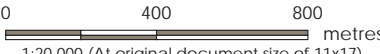
-  Existing Route
-  Alternative Segments
-  Strathroy Alternate 1
-  Strathroy Alternate 2
-  Strathroy Alternate 3
-  Strathroy Alternate 4

Base / Environmental Features

-  Petroleum Well
-  Watercourse
-  Municipal Boundary - Lower Tier
-  Waterbody

Petroleum Pool

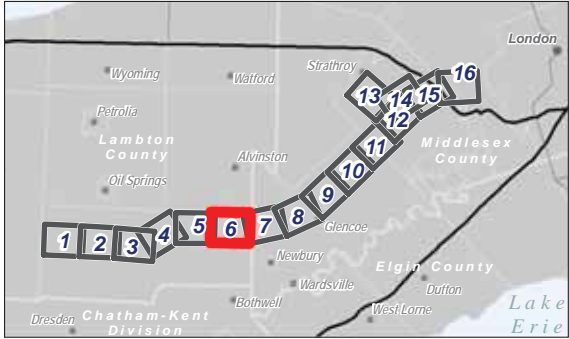
-  Oil Pool - Abandoned



0 400 800 metres
1:20,000 (At original document size of 11x17)

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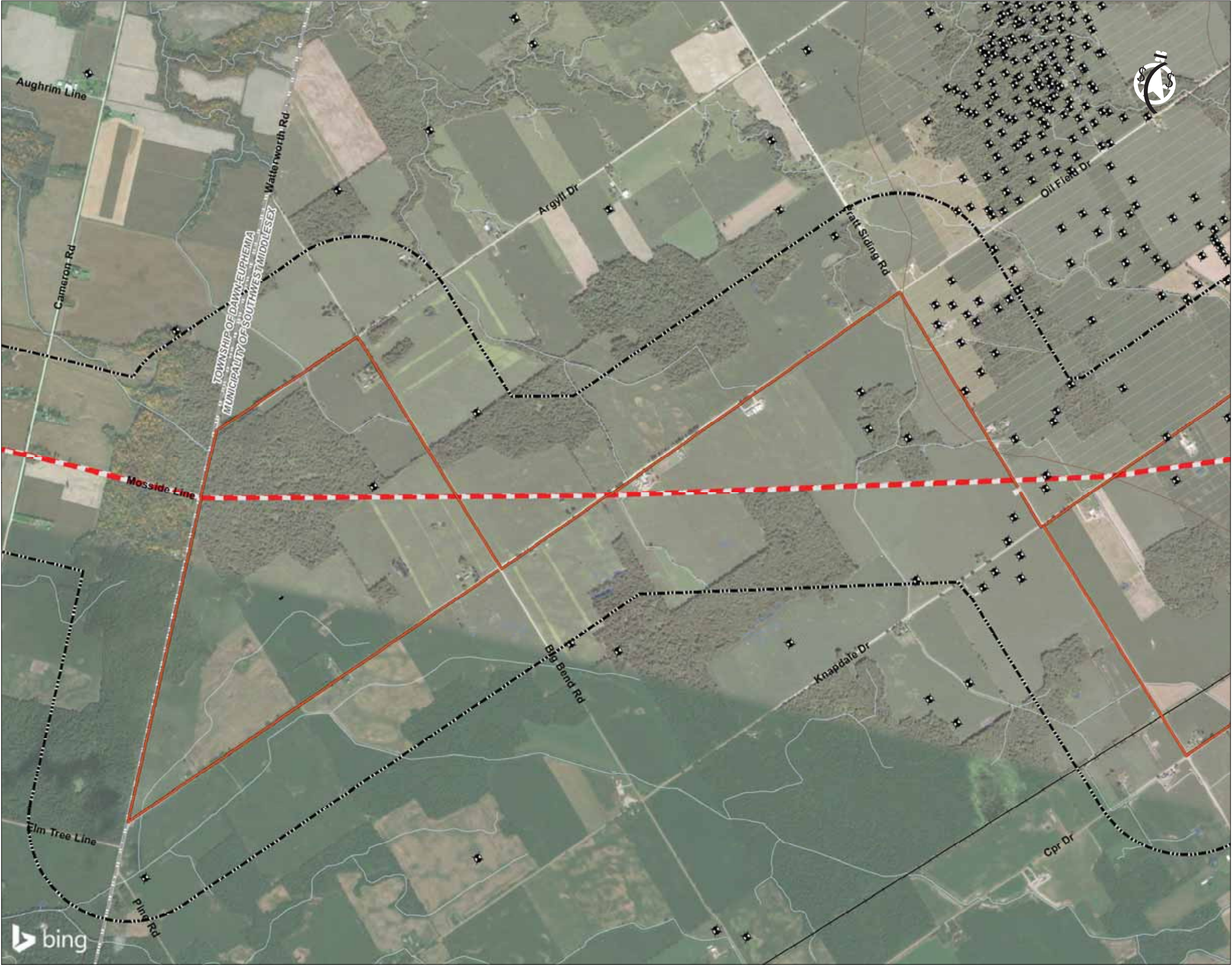
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Figure No.
C-5.6

Title
Aggregate and Petroleum Features


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


Stantec

 Study Area


Enbridge Gas Features

-  Existing Route
-  Alternative Segments
-  Strathroy Alternate 1
-  Strathroy Alternate 2
-  Strathroy Alternate 3
-  Strathroy Alternate 4

Base / Environmental Features

-  Petroleum Well
-  Railway - Operational
-  Watercourse
-  Municipal Boundary - Lower Tier
-  Waterbody

Petroleum Pool

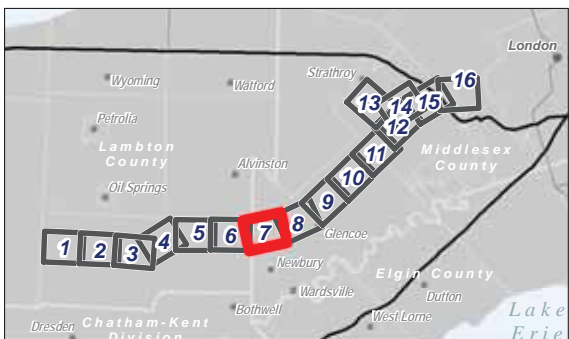
-  Oil Pool - Abandoned

0 400 800 metres

1:20,000 (At original document size of 11x17)

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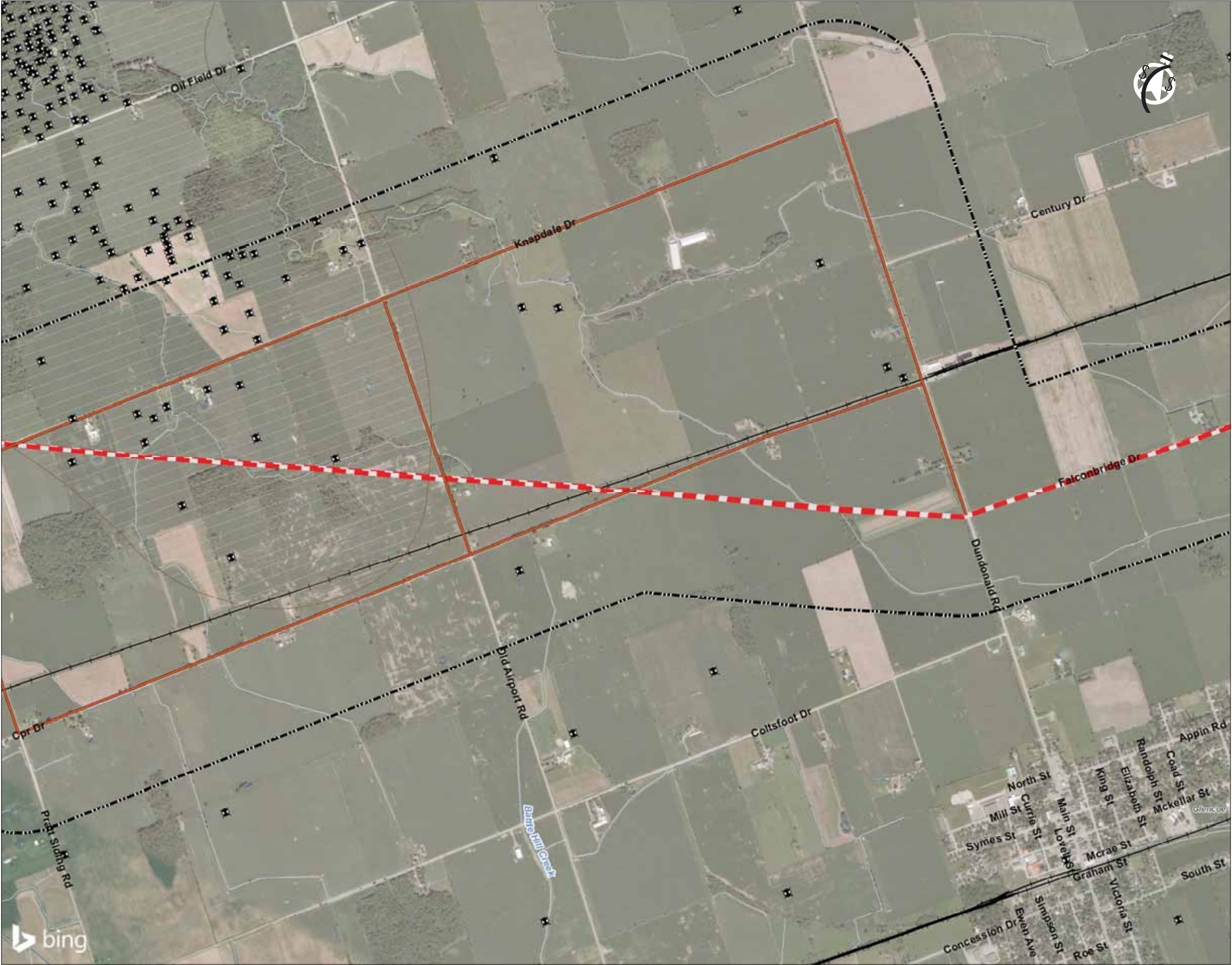
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Figure No.
C-5.7

Title
Aggregate and Petroleum Features

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Study Area

Enbridge Gas Features

Existing Route

Alternative Segments

Strathroy Alternate 1

Strathroy Alternate 2

Base / Environmental Features

Petroleum Well

Railway - OperationalMunicipal Boundary - Lower Tier

Petroleum Pool

Oil Pool - Abandoned

0

400

800

metres

1:20,000 (At original document size of 11x17)

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Figure No.

C-5.8

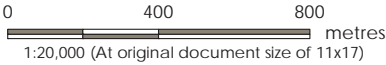
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Aggregate and Petroleum Features

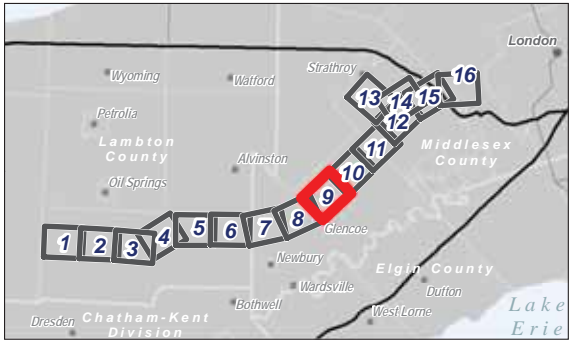
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- Study Area
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
- Base / Environmental Features**
- Petroleum Well
 - Railway - Operational
 - Watercourse
 - Municipal Boundary - Lower Tier
 - Waterbody



- Notes**
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Counties of Lambton
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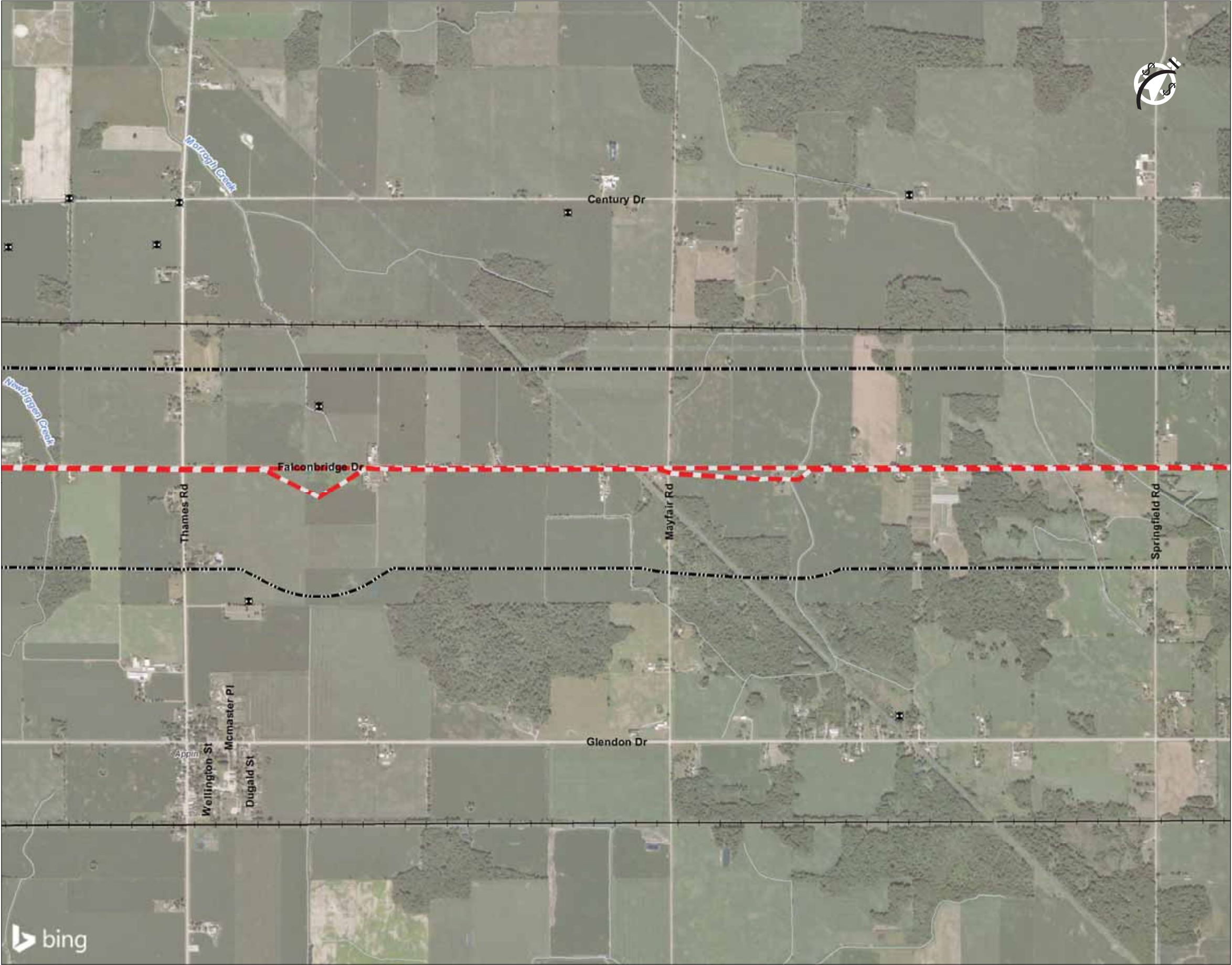
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Figure No.
C-5.9







Title
Aggregate and Petroleum Features

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





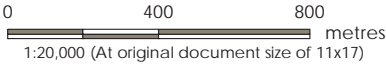
 Study Area

Enbridge Gas Features

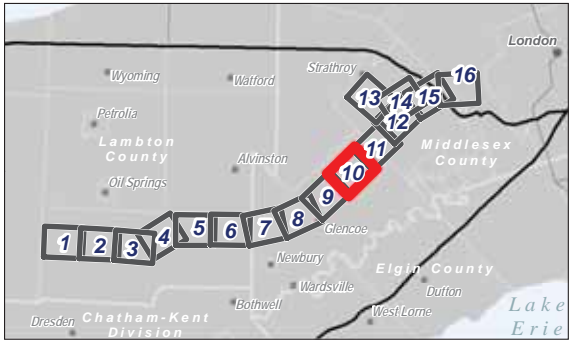
-  Existing Route
-  Alternative Segments
-  Strathroy Alternate 1
-  Strathroy Alternate 2
-  Strathroy Alternate 3
-  Strathroy Alternate 4

Base / Environmental Features

-  Petroleum Well
-  Hydro Line
-  Railway - Operational
-  Watercourse
-  Municipal Boundary - Lower Tier
-  Waterbody



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Figure No.:
C-5.10
Title:
Aggregate and Petroleum Features

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Study Area

Enbridge Gas Features

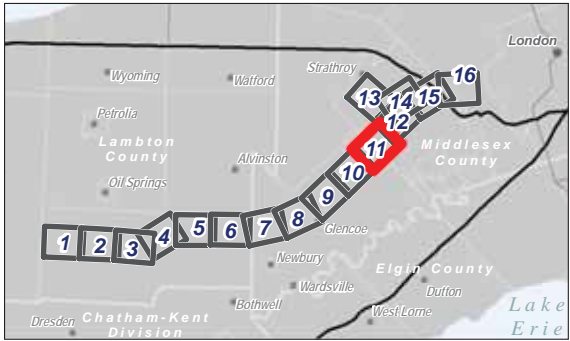
- Existing Route
- Alternative Segments
- Strathroy Alternate 1
- Strathroy Alternate 2
- Strathroy Alternate 3
- Strathroy Alternate 4

Base / Environmental Features

- Petroleum Well
- Hydro Line
- Railway - Operational
- Watercourse
- Municipal Boundary - Lower Tier
- Waterbody

0 400 800 metres
1:20,000 (At original document size of 11x17)

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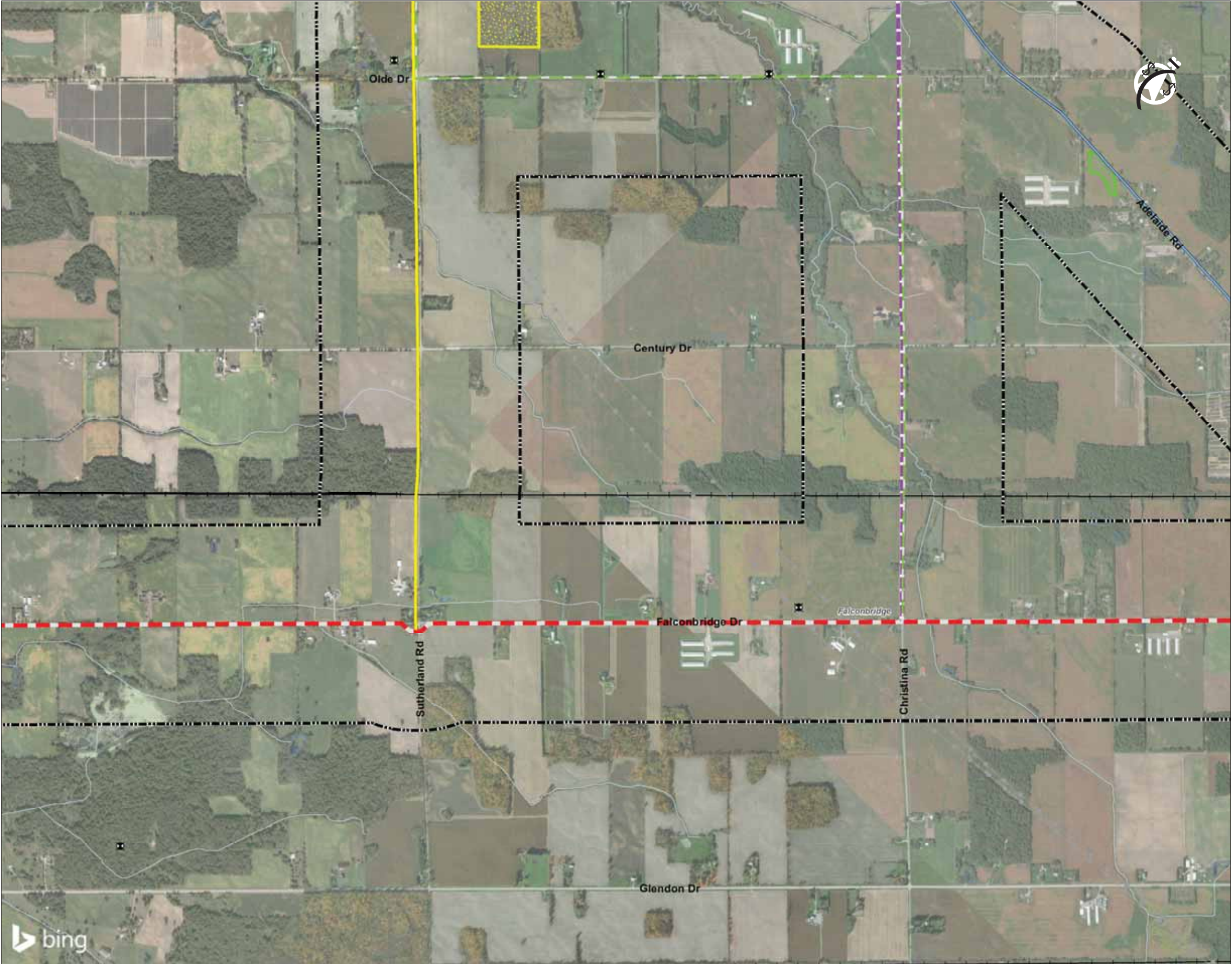









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LONDON LINES PROJECT

Figure No.
C-5.11
Title
Aggregate and Petroleum Features

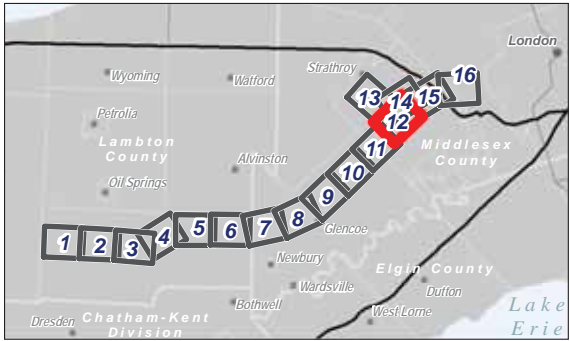
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-  Study Area
- Enbridge Gas Features**
-  Existing Route
 -  Alternative Segments
 -  Strathroy Alternate 1
 -  Strathroy Alternate 2
 -  Strathroy Alternate 3
 -  Strathroy Alternate 4
- Base / Environmental Features**
-  Petroleum Well
 -  Hydro Line
 -  Railway - Operational
 -  Watercourse
 -  Aggregate Site - Active
 -  Aggregate Site - Surrendered
 -  Municipal Boundary - Lower Tier
 -  Waterbody

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes**
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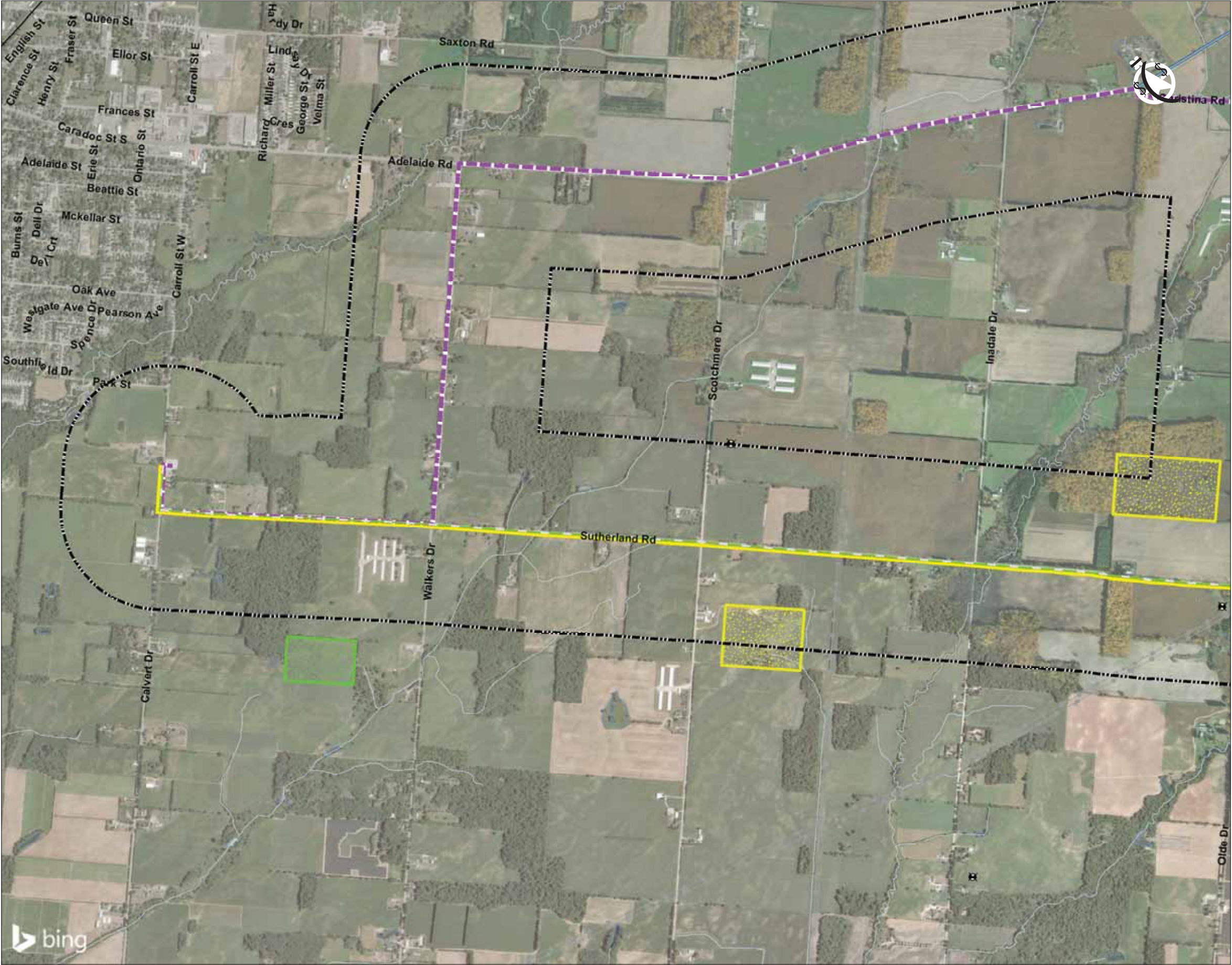


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Figure No.:
C-5.12
Title:
Aggregate and Petroleum Features

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Study Area

Enbridge Gas Features

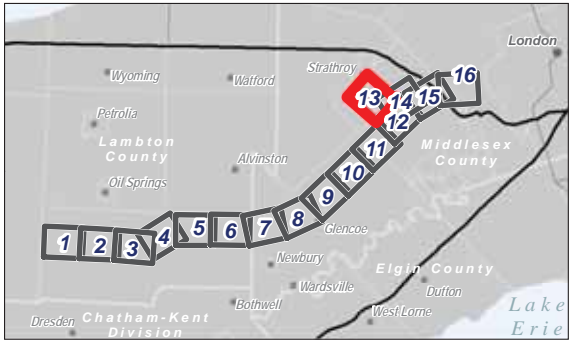
- Existing Route
- Alternative Segments
- Strathroy Alternate 1
- Strathroy Alternate 2
- Strathroy Alternate 3
- Strathroy Alternate 4

Base / Environmental Features

- Petroleum Well
- Hydro Line
- Railway - Operational
- Watercourse
- Aggregate Site - Active
- Aggregate Site - Surrendered
- Municipal Boundary - Lower Tier
- Waterbody

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes
- Coordinate System: NAD 1983 UTM Zone 17N
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Figure No.
C-5.13

Title
Aggregate and Petroleum Features

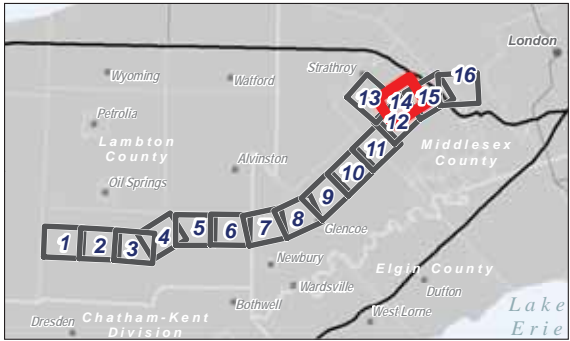
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- Study Area**
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
- Base / Environmental Features**
- Petroleum Well
 - Hydro Line
 - Railway - Operational
 - Watercourse
 - Aggregate Site - Active
 - Aggregate Site - Surrendered
 - Municipal Boundary - Lower Tier
 - Waterbody

0 400 800 metres
1:20,000 (At original document size of 11x17)

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Project Location
Counties of Lambton
and Middlesex

160951170 REV1
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Client/Project
ENBRIDGE GAS INC.
LONDON LINES PROJECT

Figure No.
C-5.14

Title
Aggregate and Petroleum Features

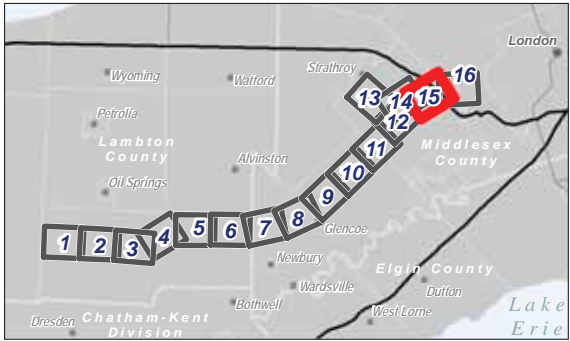
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- Study Area**
- Enbridge Gas Features
 - Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
- Base / Environmental Features**
- Petroleum Well
 - Hydro Line
 - Railway - Operational
 - Watercourse
 - Aggregate Site - Surrendered
 - Municipal Boundary - Lower Tier
 - Waterbody

0 400 800 metres
1:20,000 (At original document size of 11x17)

- Notes**
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Figure No.: C-5.15
Title: Aggregate and Petroleum Features

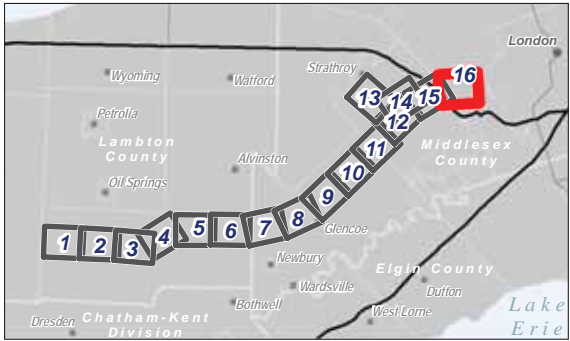
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- Study Area**
- Enbridge Gas Features**
- Existing Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Strathroy Alternate 3
 - Strathroy Alternate 4
- Base / Environmental Features**
- Petroleum Well
 - Railway - Operational
 - Watercourse
 - Aggregate Site - Active
 - Aggregate Site - Surrendered
 - Municipal Boundary - Lower Tier
 - Waterbody

0 400 800 metres
1:20,000 (At original document size of 11x17)

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ENBRIDGE GAS INC.
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Figure No.:
C-5.16
Title:
Aggregate and Petroleum Features

