

Municipality of Chatham-Kent
Infrastructure and Engineering Services
Engineering and Transportation Division

To: Mayor and Members of Council

From: Brendan Falkner, P.Eng., MEM
Manager, Engineering (Roads & Bridges)

Date: April 8, 2021

Subject: Tender Award - Contract T21-105 Hot-Mix & Fibre Reinforced
Asphalt Resurfacing Program

Recommendations

It is recommended that:

1. The 2021 Hot-Mix & Fibre Reinforced Asphalt Resurfacing Program be approved.
2. The tender in the amount of \$7,818,942.17 including HST for the Hot-Mix & Fibre Reinforced Asphalt Resurfacing Program be awarded to Huron Construction Company, a division of Brennan Paving & Construction Ltd.
3. The Mayor and Clerk be authorized to sign the necessary agreement.

Background

The Engineering and Transportation staff have reviewed various road sections to be rehabilitated in the 2021 Hot-Mix & Fibre Reinforced Resurfacing Program based on the Pavement Condition Index (PCI). This data, collected by StreetScan in early 2020, was used for the purpose of identifying candidates for a multi-year Hot-Mix & Fibre Reinforced Asphalt Resurfacing Program, including the road sections identified for this year's program.

During 2019 and 2020, in an effort to support innovative technologies and procedures for asphalt roads, the Engineering and Transportation division completed trial sections of fibre reinforced asphalt pavement. The 2021 Hot-Mix & Fibre Reinforced Asphalt Resurfacing Program will continue to utilize this product in an effort to increase service life and lower future lifecycle costs. Engineering believes it would be advantageous to continue using this innovative technology. We will continue to monitor each of the road sections utilizing fibre reinforcement to determine if the product meets our expectations.

Comments

The 2021 Hot-Mix & Fibre Reinforced Asphalt Resurfacing Program contract provides for the supply, hauling, and placement of hot-mix asphalt & fibre reinforced hot-mix asphalt to be applied on various roads throughout Chatham-Kent as defined in the Chatham-Kent Hot-Mix & Fibre Reinforced Asphalt Resurfacing Program List (Appendix A).

Location maps of the Hot-Mix & Fibre Reinforced Asphalt Resurfacing Program resurfacing sites (Appendix B) are attached to assist Council in identifying these locations.

Based on budget constraints and upcoming commitments, road sections from the Provisional Road List may be removed from this year's contract. If removed, these sections will be placed in the 2022 Asphalt Resurfacing Program.

Roads listed in Appendix A for improvement were identified, reviewed and prioritized by Engineering and through consultation with the Public Works Division. Road segment selections are based on rehabilitation history, pavement condition ratings and field inspection to confirm their suitability. The Hot-Mix & Fibre Reinforced Asphalt Resurfacing Program contract primarily focused on road segments with a PCI rating of 30 or less.

The Infrastructure and Engineering Services (IES) Public Works Managers and the staff of Engineering and Transportation Division identified and reviewed sections of roadway for improvement. This review has confirmed the ratings, pavement type, and features that affect their choice as proposed maintenance projects.

Any conflicts with future bridge, watermain, and storm sewer improvements required to be completed prior to resurfacing were identified and the list adjusted accordingly. Road sections were inspected to confirm the ratings, geometrics, and suitability of the improvements suggested.

Tenders were called and received by the Purchasing Officer on Thursday, April 8, 2021.

One (1) contractor submitted a tender for the project and bidding was an open competitive process.

The results are as follows:

Bidder	Location	Bid (including HST)
Huron Construction Company	Chatham-Kent, ON	\$ 7,818,942.17

The Engineering and Transportation Division has reviewed the tender and found it to be complete in all respects.

It is the recommendation herein that the contract be awarded to Huron Construction Company, a division of Brennan Paving and Construction Ltd. who submitted the lowest acceptable tender bid.

Areas of Strategic Focus and Critical Success Factors

The recommendations in this report support the following areas of strategic focus:

- ☐ Economic Prosperity:
Chatham-Kent is an innovative and thriving community with a diversified economy
- ☐ A Healthy and Safe Community: Chatham-Kent is a healthy and safe community with sustainable population growth
- ☐ People and Culture:
Chatham-Kent is recognized as a culturally vibrant, dynamic, and creative community
- ☒ Environmental Sustainability:
Chatham-Kent is a community that is environmentally sustainable and promotes stewardship of our natural resources

The recommendations in this report support the following critical success factors:

- ☐ Financial Sustainability:
The Corporation of the Municipality of Chatham-Kent is financially sustainable
- ☐ Open, Transparent and Effective Governance:
The Corporation of the Municipality of Chatham-Kent is open, transparent and effectively governed with efficient and bold, visionary leadership
- ☐ Has the potential to support all areas of strategic focus & critical success factors
- ☒ Neutral issues (does not support negatively or positively)

Consultation

The Tenders were opened by the Purchasing Officer and reviewed by the Engineering and Transportation Division.

Financial Implications

Project fees associated with this contract will be funded as summarized in the following table:

Financial Implications
Hot-Mix & Fibre Reinforced Asphalt Resurfacing Program
Project Costs

Recommended Tender (Including HST)	\$ 7,818,942.17
Less HST Rebate 11.24%	- \$ 777,742.57
Total Current Project Costs	\$ 7,041,199.60
Project Funding – 2021 Lifecycle Road Budget	\$ 7,041,199.60

The total current project costs listed above will be funded from the 2021 Roads Lifecycle Reserve, which includes funds under the Ontario Community Infrastructure Fund.

The low tender bid submitted by Huron Construction Company was within the budget estimate.

Prepared by:

Reviewed by:

Paul Tippin, A.Sc.T.
Engineering Technologist
Engineering and Transportation

Brendan Falkner, P.Eng., MEM
Manager, Engineering
Engineering and Transportation Division

Reviewed by:

Reviewed by:

Chris Thibert, P.Eng.
Director, Engineering
Engineering and Transportation

Thomas Kelly, P.Eng., MBA
General Manager
Infrastructure and Engineering Services

Consulted and confirmed the content of the consultation section of the report by:

Jennifer Scherle
Purchasing Officer

Attachments: Appendix A – Hot-Mix & Fibre Reinforced Asphalt Resurfacing List
Appendix B – Hot-Mix & Fibre Reinforced Asphalt Resurfacing Location
Map

(RTC:\Infrastructure & Engineering\I&ES\2021\4372 – Tender Award Contract T21-105
(Hot-Mix & Fibre Reinforced Asphalt Resurfacing Program))

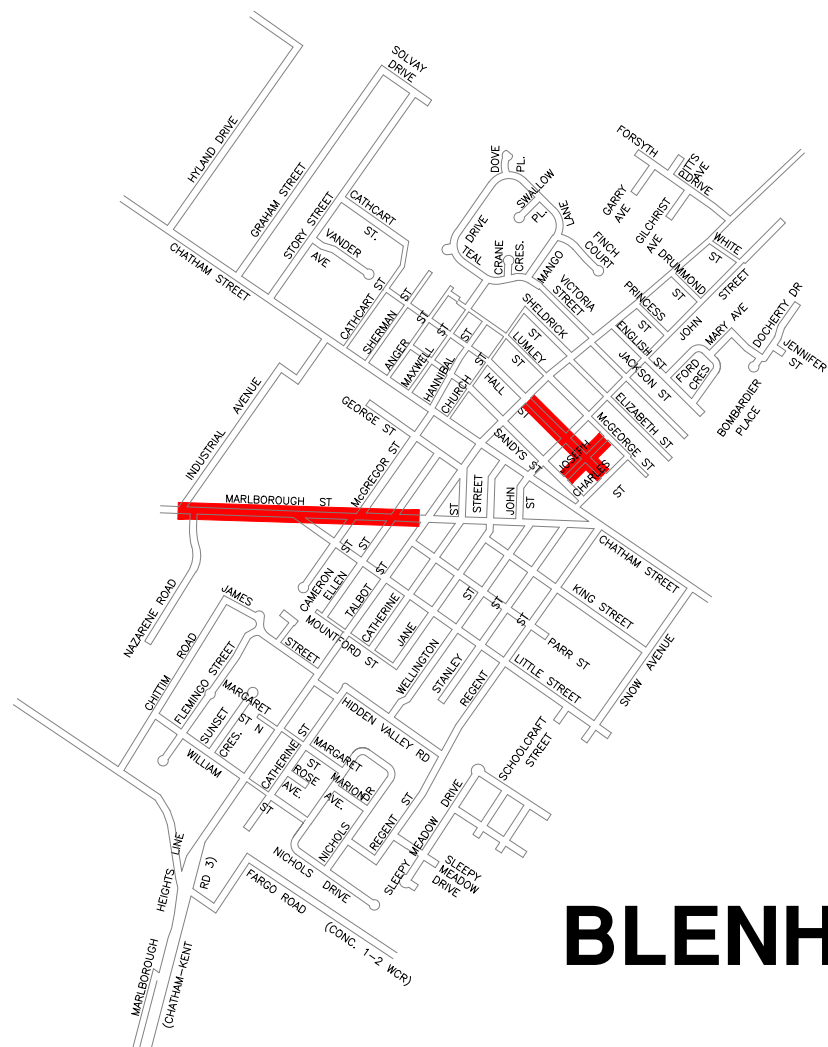
Location Schedule**2021 Hot-Mix Resurfacing Program**

No.	Location	Location
Blenheim		
1	Hall Street South	Talbot Street East to Charles Street
	Joseph Street	Sandys Street South to McGeorge Street
2	Marlborough Street North	150m W. of Industrial Ave to Talbot Street West
Bothwell		
3	George Street	Gordon Street to Main Street
4	Walnut Street East	Main Street to East Limit
Charing Cross		
5	Daniel Street	Charing Cross Road to West Limit
6	Prince Street	Middle Line to Charing Cross Road
	James Street	Queen Street to Charing Cross Road
Chatham		
7	Baldoon Road	Keil Drive North to Partridge Crescent
8	Barthe Street	Kent Street to Victoria Ave
	Pit Street	Barthe Street to Dover Street
	James Street	Kent Street to Victoria Ave
9	Braemar Boulevard	Cramar Crescent to Indian Creek Road West
10	Emma Street	Ursuline Ave to St. Clair Street
	Ursuline Ave	Grand Ave West to Emma Street
11	Faubert Drive	Tweedsmuir Ave West to Indian Creek Road West
12	Grand Ave East	Victoria Ave to Elizabeth Street (Centre Lanes Only)
13	Holland Ave	St. Michael Ave to Sylvestor Drive
	St. Michael Ave	Indian Creek Road East to Holland Ave
14	Llydican Ave	Amelia Ave to Forest Street
	Forest Street	Hillyard Street to Llydican Ave
	Hillyard Street	Forest Street to Grand Ave East
15	Lottie Ave	Allen Street to Pavey Street

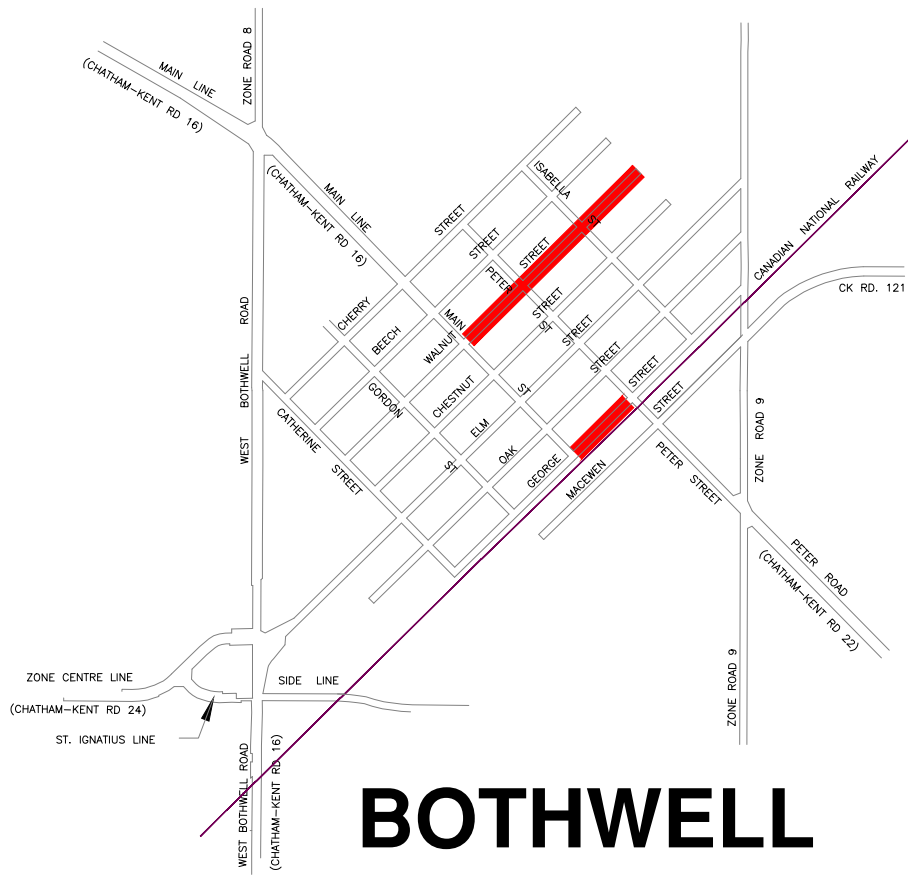
No.	Location	Location
16	Mercer Street	Queen Street to Dolsen Road
	Kingston Court	Tweedsmuir Ave East to Mercer Street
	Dolsen Road	Tweedsmuir Ave East to Mercer Street
	Brown Crescent	Mercer Street to South Limit
17	Sudbury Drive	Sandys Street to Timmonss Crescent
	Timmons Crescent	Oxley Drive to East Limit
18	Truro Road	McNaughton Ave West to Coatsworth Ave
19	Wellington Street	William Street South to 140m East of Prince Street
20	West Street	Wellington Street to Richmond Street
Dresden		
21	Holden Street	Wilson Street to Chandler Street
	Lorne Ave	Park Street to Holden Street
22	Walnut Street	Sugar Beet Line to St. George Street
Highgate		
23	George Street	King Street to Homer Street
	Homer Street	George Street to Oak Street
	Oak Street	Homer Street to King Street
24	Victoria Ave	Albert Street to South Limit
	Oak Street	King Street to Queen Street
Merlin		
25	Erie Street North	William Street to 730m North of William Street
Ridgetown		
26	Cecil Street	Cathcart Street to Main Street East
	Harold Street	Cathcart Street to Main Street East
27	David Street	Maple Street to Marsh Street
28	Erie Street	Mitton Line to Morgan Street
29	Richard Street South	Oak Street to South Limit
	Bernard Ave	West Limit to Richard Street South
	Fern Ave	Bernard Ave to Kyle Drive

No.	Location	Location
Thamesville		
30	Lamila Street	Edith Street to Mary Street
31	Victoria Street	Mary Street to London Road
Tilbury		
32	Elmwood Street	North Limit to Helen Street
	Cora Street	Queen Street South to Elmwood Street
33	Centre Street East	Queen Street to Station Street
	Dufferin Street North	North Limit to Centre Street East
	Station Street	Centre Street South to Mill Street East
34	Fort Street	Ella Street South to East Limit
35	Park Lane	Henderson Street to Bolohan Drive
	Henderson Street	Park Lane to Ella Street South
Wallaceburg		
36	Arnold Street	Dufferin Ave to Garnet Street
	Garnet Street	Arnold Street to West Limit
37	Dauw Ave	Gordon Street to Elgin Street
38	Oak Street	Book Street to James Street
	George Street	Forhan Street to Oak Street
39	Old Glass Road	Garnet Street to Mason Street
40	Wallace Street	McNaughton Ave to Pearl Street
Wheatley		
41	Erie Street South	Lamarsh Street to 560m South of Middleton Line
42	Foster Street	Foster Street to Julian Street
43	Talbot Road West at Victoria Road (Spot Repair)	

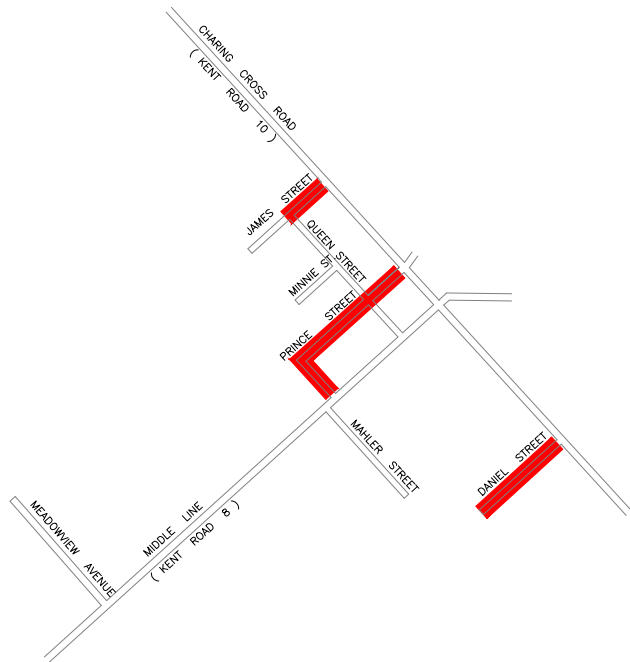
No.	Location	Location
Rural		
44	Brock Street	New Scotland Line to South Limits
45	Bury Road	Scott Line to Cleeves Line
46	Centre Side Road	Cedar Hedge Line to Union Line
47	Eberts Line	Centre Side Road to Prince Albert Road
48	Merlin Road	Sixth Line West to 370m North of Sixth Line West
49	Northwood Line	Kent Bridge Road to Doherty Street
50	River View Line	Jacob Road to Merlin Road (0.7m Road Widening - Each Side)
51	Jacob Road	Grande River Line to Riverview Line (Bridge Deck Milling and Resurfacing)
52	Union Line	Centre Side Road to 1,800m East of Centre Side Road
Provisional		
53	Union Line	1,800m East of Centre Side Road to Lindsay Road (Rural)
54	Merlin Road	A & B Road to 14th Line (Rural)
55	Cathcart Street	Fort Street to Stewart Ave (Tilbury)
	Foster Street	Canal Street East to Fort Street
	Fort Street	West Limit to Foster Street
	St. Marie Street	Cathcart Street to East Limit
	McLoed Street	Cathcart Street to East Limit
56	Glengarry Crescent	Doverdoon Drive to Doverdoon Drive (Chatham)
57	Albert Street	Duke Street to Reaume Ave (Wallaceburg)
58	St. Clair Street	West Limit to Lyon Ave (Tilbury)
59	Jacob Road and Pain Court Line Intersection (Rural)	



BLENHEIM



BOTHWELL



CHARING CROSS

2021 HOT MIX RESURFACING

BLENHEIM

- Hall Street South - Talbot Street East to Charles Street
- Joseph Street - Sandys Street South to McGeorge Street
- Marlborough Street North - 150m W. of Industrial Ave to Talbot Street West

BOTHWELL

- George Street - Gordon Street to Main Street
- Walnut Street East - Main Street to East Limit

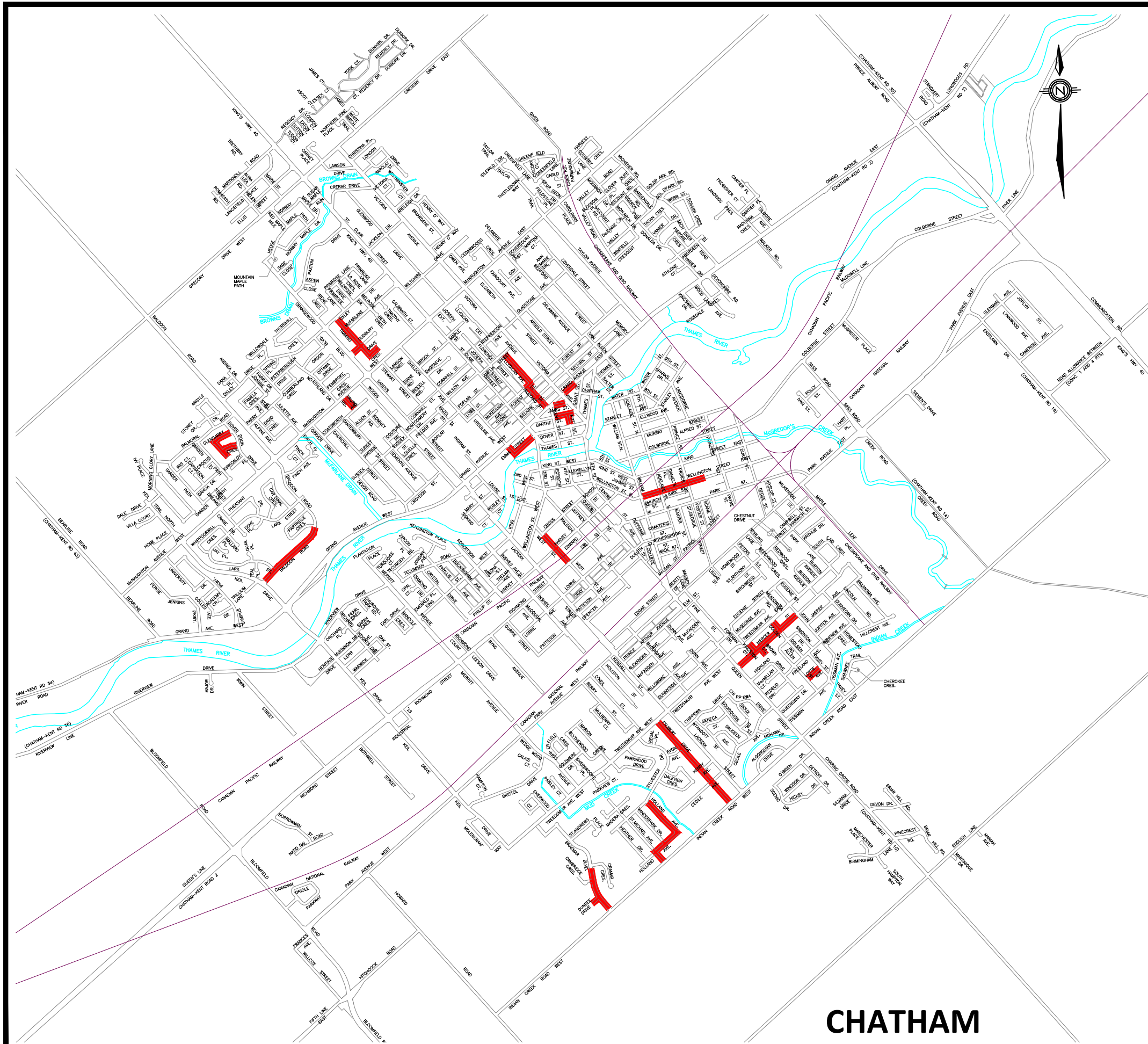
CHARING CROSS

- Daniel Street - Charing Cross Road to West Limit
- Prince Street - Middle Line to Charing Cross Road
- James Street - Queen Street to Charing Cross Road

PLEASE NOTE:

ROADS ARE PRIORITIZED AS WORK PROCEEDS AND MAY BE SUBJECT TO CHANGE DUE TO UNFORESEEN TECHNICAL CIRCUMSTANCES.





CHATHAM

2021 HOT MIX RESURFACING

CHATHAM

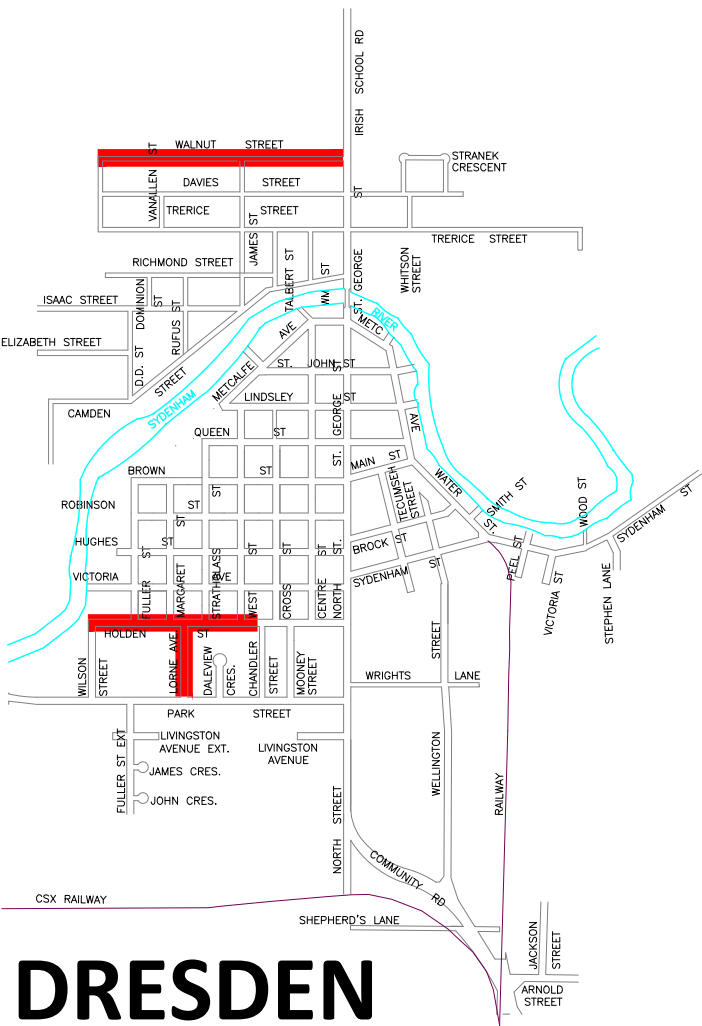
- Baldoon Road - Partridge Crescent to Keil Drive North
- Barthe Street - Kent Street to Victoria Ave
Pitt Street - Barthe Street to Dover Street
James Street - Kent Street to Victoria Ave
- Braemar Boulevard - Cramar Crescent to Indian Creek Road West
- Emma Street - Ursuline Ae to St. Clair Street
Ursuline Ave - Grand Ave West to Emma Street
- Faubert Drive - Tweedsmuir Ave West to Indian Creek Road West
- Grand Ave East - Victoria Ave to Elizabeth Street (Centre Lanes Only)
- Holland Ave - St. Michael Ave to Sylvestor Drive
St. Michael Ave - Indian Creek Road East to Holland Ave
- Llydican Ave - Amelia Ave to Forest Street
Forest Street - Hillyard Street to Llydican Ave
Hillyard Street - Forest Street to Grand Ave East
- Lottie Ave - Allen Street to Pavey Street
- Mercer Street - Queen Street to Dolsen Road
Kingston Court - Tweedsmuir Ave East to Mercer Street
Dolsen Road - Tweedsmuir Ave East to Mercer Street
Brown Crescent - Mercer Street to South Limit
- Sudbury Drive - Sandys Street to Timmonss Crescent
Timmons Crescent - Oxley Drive to East Limit
- Truro Road - McNaughton Ave West to Coatsworth Ave
- Wellington Street - William Street South to 140m East of Prince Street
- West Street - Wellington Street to Richmond Street
- Glengarry Crescent - Doverdoon Drive to Doverdoon Drive (PROVISIONAL)

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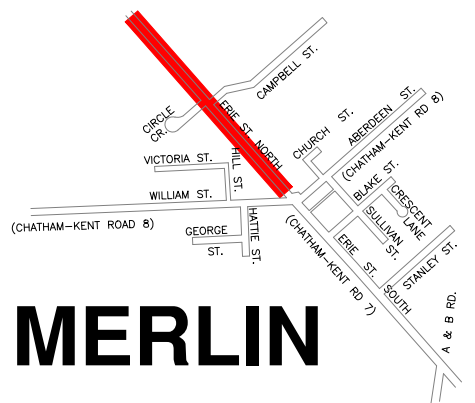
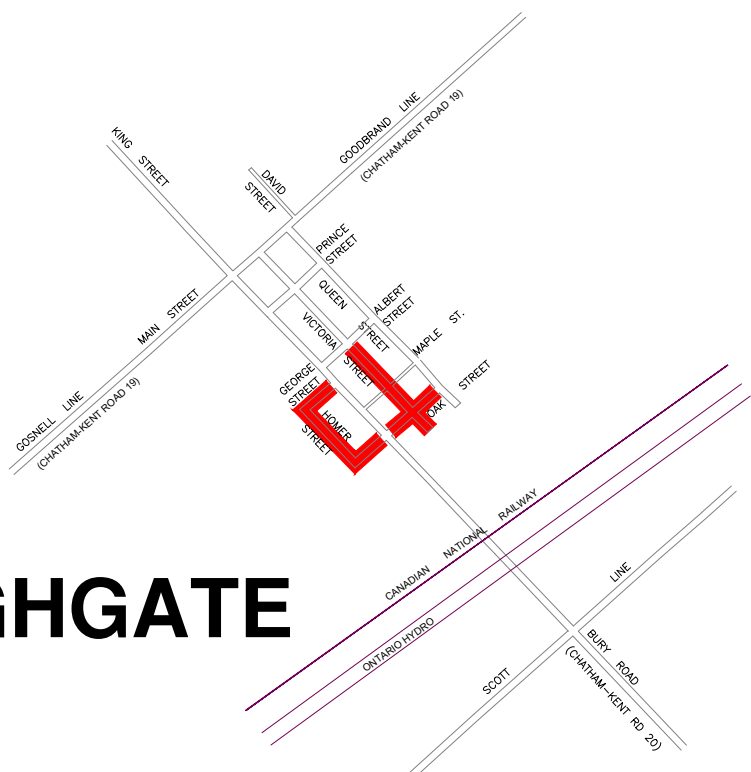
2021 HOT-MIX RESURFACING
LOCATION MAP
APPENDIX B

SHEET NO.
2 OF 7



DRESDEN

HIGHGATE



MERLIN



RIDGETOWN



2021 HOT MIX RESURFACING

DRESDEN

- Holden Street - Wilson Street to Chandler Street
- Lorne Ave - Park Street to Holden Street
- Walnut Street - Sugar Beet Line to St. George Street

HIGHGATE

- George Street - King Street to Homer Street
- Homer Street - George Street to Oak Street
- Oak Street - Homer Street to King Street
- Victoria Ave - Albert Street to South Limit
- Oak Street - King Street to Queen Street

MERLIN

- Erie Street - William Street to 370m North of Circle Drive

RIDGETOWN

- Cecil Street - Cathcart Street to Main Street East
- Harold Street - Cathcart Street to Main Street East
- David Street - Maple Street to Marsh Street
- Erie Street - Mitton Line to Morgan Street
- Richard Street South - Oak Street to South Limit
- Bernard Ave - West Limit to Richard Street South
- Fern Ave - Bernard Ave to Kyle Drive

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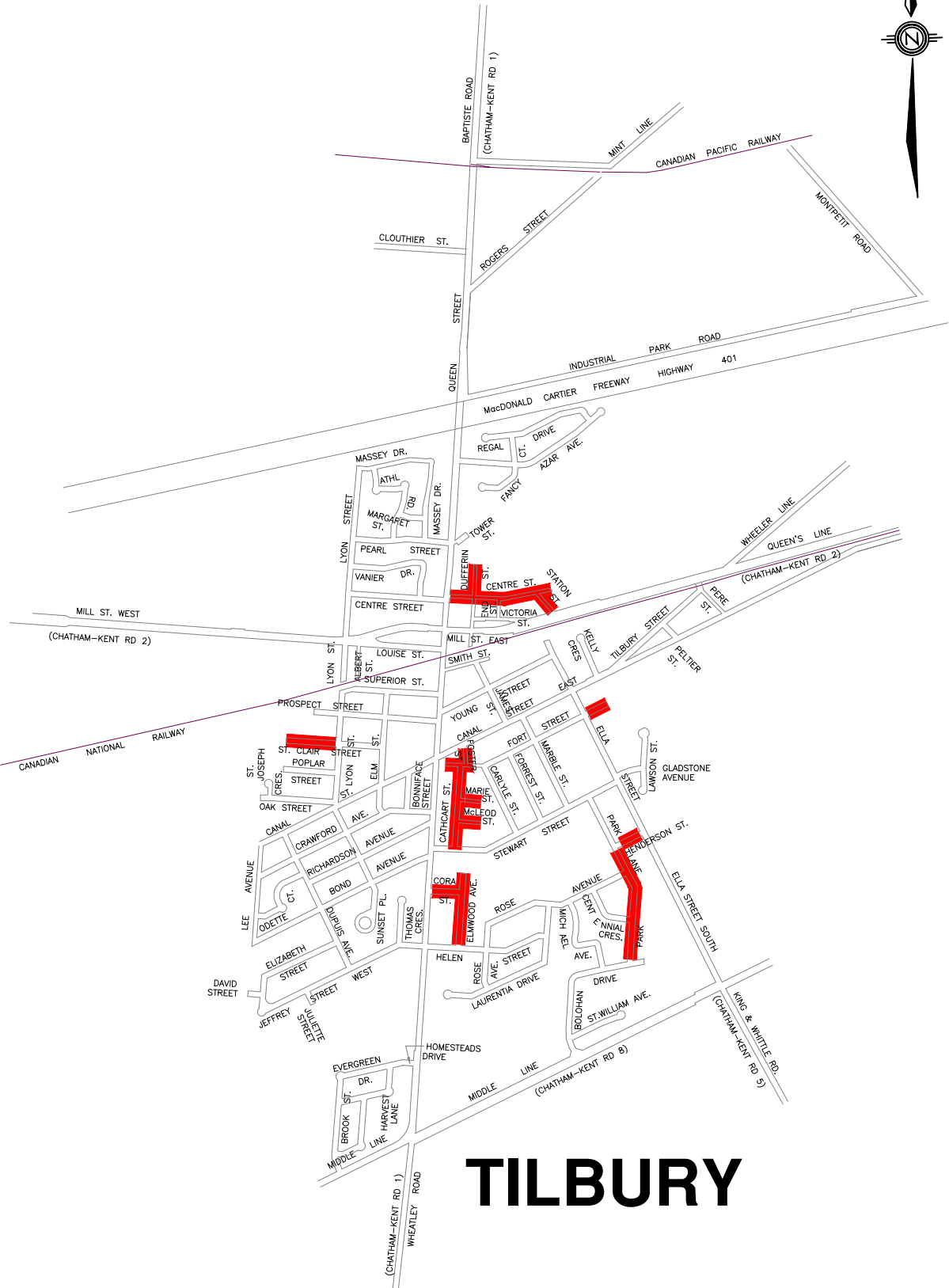


**2021 HOT-MIX RESURFACING
LOCATION MAP
APPENDIX B**

**SHEET NO.
3 OF 7**



THAMESVILLE



TILBURY

2021 HOT MIX RESURFACING

THAMESVILLE

- Lamila Street - Edith Street to Mary Street
- Victoria Street - Mary Street to London Road

TILBURY

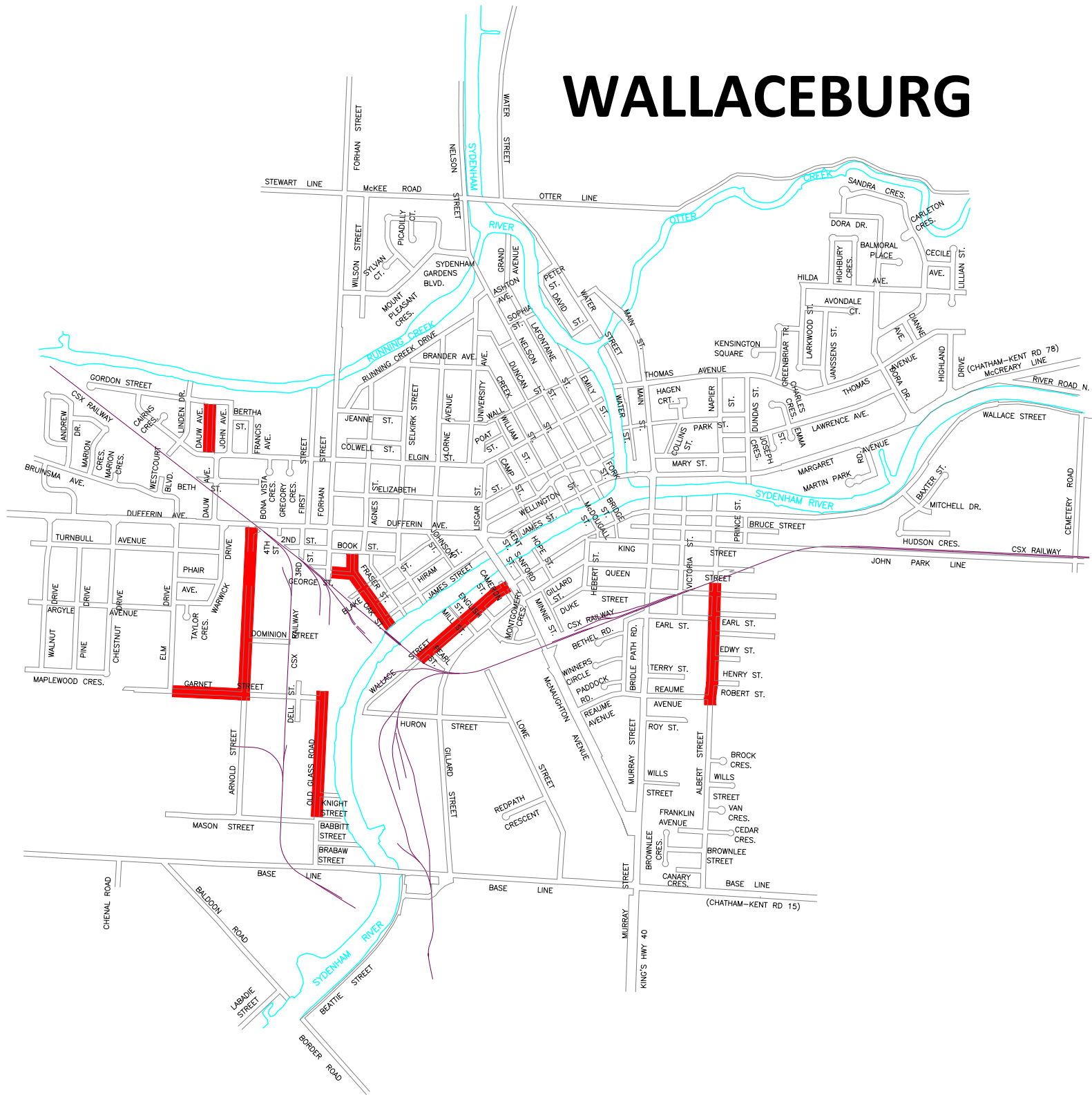
- Elmwood Street - North Limit to Helen Street
- Cora Street - Queen Street South to Elmwood Street
- Centre Street East - Queen Street to Station Street
 - Dufferin Street North - North Limit to Centre Street East
 - Station Street - Centre Street South to Mill Street East
- Fort Street - Ella Street South to East Limit
- Park Lane - Henderson Street to Bolohan Drive
 - Henderson Street - Park Lane to Ella Street South
- Cathcart Street - Fort Street to Stewart Ave (**PROVISIONAL**)
 - Foster Street - Canal Street East to Fort Street
 - Fort Street - West Limit to Foster Street
 - St. Marie Street - Cathcart Street to East Limit
 - McLoed Street - Cathcart Street to East Limit
- St. Clair Street - West Limit to Lyon Ave (**PROVISIONAL**)

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WALLACEBURG



2021 HOT MIX RESURFACING

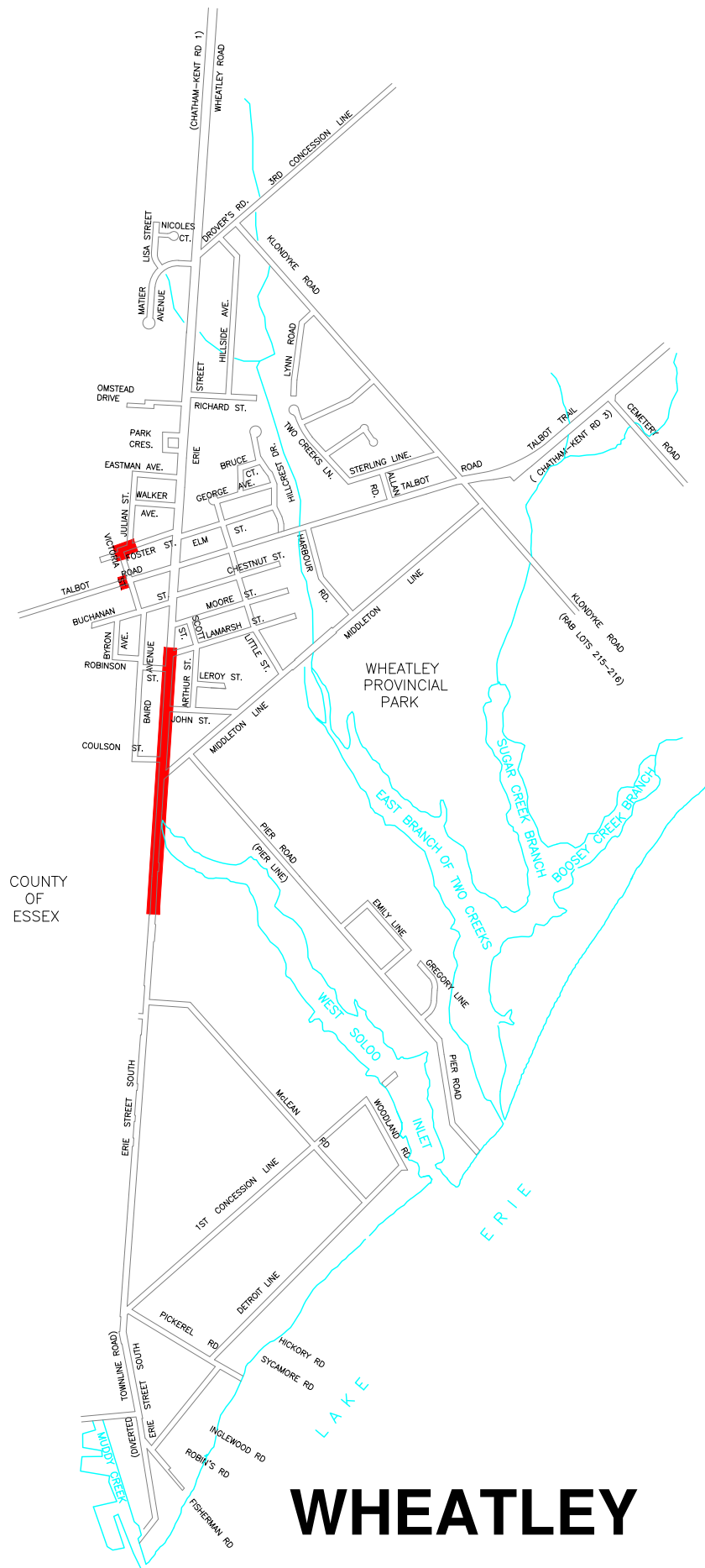
WALLACEBURG

- Arnold Street - Dufferin Ave to Garnet Street
Garnet Street - Arnold Street to West Limit
- Dauw Ave - Gordon Street to Elgin Street
- Oak Street - Book Street to James Street
George Street - Forhan Street to Oak Street
- Old Glass Road - Garnet Street to Mason Street
- Wallace Street - McKnight Ave to Pearl Street
- Albert Street - Duke Street to Reaume Ave (**PROVISIONAL**)

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WHEATLEY



2021 HOT MIX RESURFACING

WHEATLEY

- Erie Street South - Lamarsh Street to 560m South of Middleton Line
- Foster Street - Foster Street to Julian Street
- Talbot Road West at Victoria Road (Spot Repair)

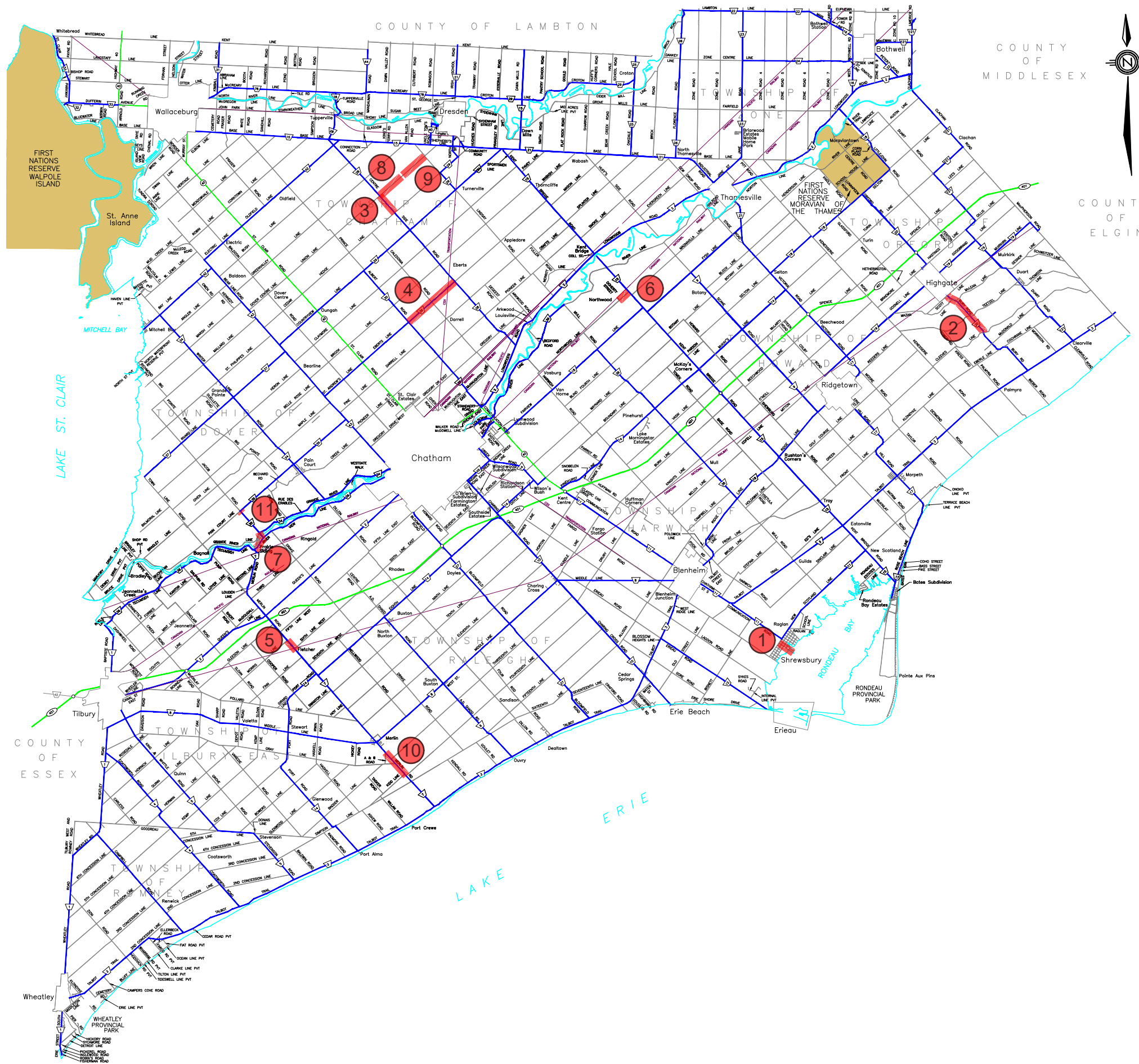
PLEASE NOTE:

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2021 HOT-MIX RESURFACING
LOCATION MAP
APPENDIX B

SHEET NO.
6 OF 7



2021 HOT MIX RESURFACING

RURAL ROADS

1. Brock Street - New Scotland Line to South Limits
2. Bury Road - Scott Line to Cleaves Line
3. Centre Side Road - Cedar Hedge Line to Union Line
4. Eberts Line - Centre Side Road to Prince Albert Road
5. Merlin Road - Sixth Line West to 370m North of Sixth Line West
6. Northwood Line - Kent Bridge Road to Doherty Street
7. River View Line - Jacob Road to Merlin Road (0.7m Road Widening - Each Side)
Jacob Road - Grande River Line to Riverview Line (Bridge Deck Milling and Resurfacing)
8. Union Line - Centre Side Road to 1,800m East of Centre Side Road
9. Union Line - 1,800m East of Centre Side Road to Lindsay Road (**PROVISIONAL**)
10. Merlin Road - A&B Road to 14th Line (**PROVISIONAL**)
11. Jacob Road and Pain Court Line Intersection (**PROVISIONAL**)

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**2021 HOT-MIX RESURFACING
LOCATION MAP
APPENDIX B**

**SHEET NO.
7 OF 7**