





APPENDIX A

Public Consultation





October 19, 2017

City Hall 100 Wellington Square P.O. Box 818 Brantford ON N3T 5R7



RE: Notice of Study Commencement: City of Brantford Master Servicing Plan Update and Transportation Master Plan Update

Dear

The City of Brantford is undertaking three studies to guide the City's future development to the year 2041. This work will update the City's Master Servicing Plan, Transportation Master Plan and Official Plan, and account for the Boundary Expansion Lands that were transferred from Brant County to the City on January 1, 2017.

Water, Wastewater and Stormwater Master Servicing Plan Update

The City of Brantford has retained GM BluePlan Engineering Limited to complete a Master Servicing Plan Update. The objective of the study is to develop a comprehensive plan addressing all facets of the management, expansion and funding of the water, wastewater and stormwater system for the entire City. It will build on the Master Servicing Plan completed in 2014, to include the Boundary Expansion Lands, and to integrate with the latest Provincial Growth Plan and related City of Brantford Official Plan Review process.

Transportation Master Plan Update

Dillon Consulting Limited has been retained by the City of Brantford to complete an update of the 2014 Transportation Master Plan. The updated Plan will reconfirm the City's investments in transportation infrastructure in the coming years in consideration of the updated growth areas to 2041 and continued focus on sustainable transportation solutions. The goal of this Plan is to make sure that the transportation system can accommodate growth and meet the needs of pedestrians, cyclists, transit users, goods movement and automobiles.

The Water, Wastewater and Stormwater Master Servicing Plan Update and the Transportation Master Plan Update are being completed as separate Class EA studies in accordance with the requirements of the Municipal Engineers Association (MEA) Class Environmental Assessment (EA) process for master planning (MEA, June 2000, as amended in 2007 and 2011). The studies are being undertaken based on Phases 1 and 2 of the Class EA process for Master Plans.

As part of the EA consultation program you are currently included in the Study Contact List. If you wish to be removed from the List or would like to suggest an alternative representative please contact the undersigned. Should we not hear from you, your details will remain on the Study Contact List and you will be notified of all future consultation opportunities during the undertaking of the Class EA studies.

Attached is the Notice of Study Commencement and Public Information Centre to be held on Thursday, November 16, 2017, 6:00 pm, at North Park Collegiate and Vocational School. As part of an integrated planning process, this meeting will introduce the Master Servicing Plan Update and Transportation Master Plan Update studies, and also address the Official Plan Review as outlined in the Notice.

Should you have any comments or questions, please contact the undersigned regarding the respective studies.

Yours truly,

Master Servicing Plan Update

Transportation Master Plan Update www.brantford.ca/MasterServicingPlan www.brantford.ca/TransportationMasterPlan

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Julien Bell

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Ting Ku, P. Eng., PTOE Manager of Transportation and Parking Services City of Brantford Public Works Phone: 519-759-4150 x 5691 Email: TKu@brantford.ca

Paul Bunk

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NOTICE OF STUDY COMMENCEMENT: TRANSPORTATION MASTER PLAN UPDATE

The City of Brantford has commenced work on an update of the 2014 Transportation Master Plan. The updated Plan will reconfirm the Town's investments in transportation infrastructure in the coming years in consideration of update growth projections for a longer time horizon and continued focus on sustainable transportation solutions. The goal of this Plan is to make sure that the transportation system can accommodate growth and meet the needs of automobiles, transit users, cyclists, and pedestrians in the short and long term.

The initial phases of the Transportation Master Plan will run concurrently with, and build on, the ongoing Official Plan Update and Municipal Comprehensive Review undertakings. The Transportation Master Plan Update is being conducted in accordance with the requirements of Phases 1 and 2 of the Municipal Class Environmental Assessment which is an approved process under the Environmental Assessment Act.

WE NEED YOUR HELP!

What are the important transportation issues facing this community? How well are cyclists, pedestrians, and vehicles sharing the road? What role should transit have in the future of the community? What do you want the transportation network to be like in 20 years? What role does technology play in the travel behaviour of your community?

We want to hear your thoughts on these issues! More information will be available in early 2018, when we will be hosting a number of public open house events to gather your feedback. Check the City of Brantford website at <u>www.brantford.ca</u> in the coming months to find out how you can participate.

CONTACT US

For more information or to provide your comments, please contact:

Ting Ku, P. Eng. Project Manager, Manager of Transportation and Parking Services City of Brantford, Engineering Services Phone: 519-759-4150 x 5691 Email: <u>tku@brantford.ca</u> Paul Bumstead, B.E.S. Partner, Consultant Project Manager Dillon Consulting Limited Phone: 416-229-4647 x2311 Email: pbumstead@dillon.ca

Information will be collected in accordance with the *Municipal Freedom of Information and Protection of Privacy Act*. With the exception of personal information, all comments will become part of the public record.

CITY OF BRANTFORD OFFICIAL PLAN



ENVISIONING OUR CITY: 2041

WHAT WE HEARD

Public Information Centre #2

November 16, 2017



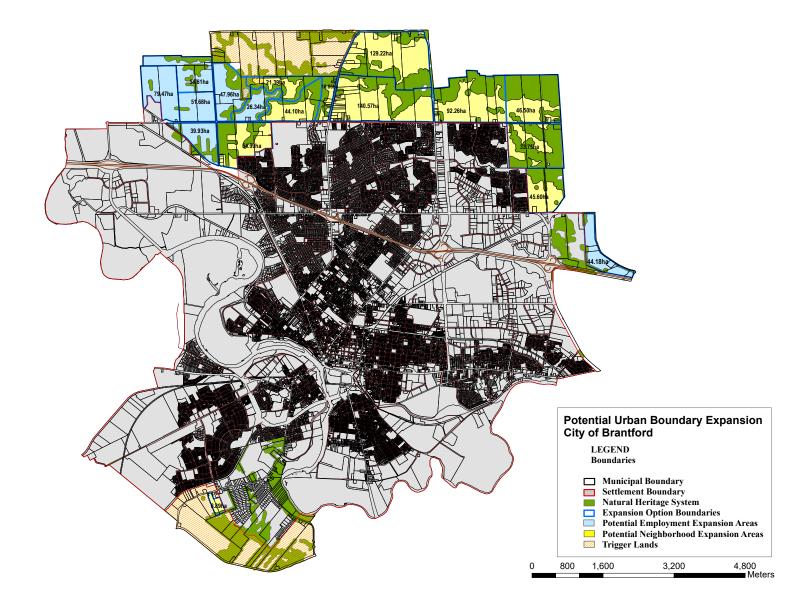
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Study Area



Introduction

The City of Brantford is undertaking three studies to guide future development to 2041 and to take into account the Boundary Expansion Lands transferred from Brant County to the City in January 2017:

- 1. Official Plan Review
- 2. Master Servicing Plan Update
- 3. Transportation Master Plan Update

The second Public Information Centre took place on Thursday, November 16, 2017 from 6:00-8:30 p.m. at the North Park Collegiate & Vocational School. **Approximately 80 people attended.**

The purpose of Public Information Centre #2 was to provide information about the Official Plan Review, Master Servicing Plan, and Transportation Master Plan. Input and feedback was received from the public on the growth options under consideration through the Municipal Comprehensive Review, and issues and ideas relating to the City's servicing and transportation systems.

After an informative presentation, workshop participants were asked to join one of five Discussion Groups (and to move among them), each with a different focus:

- 1. Official Plan
- 2. Housing, Intensification & Growth Options
- 3. Employment
- 4. Transportation Master Plan Update
- 5. Master Servicing Plan Update

Input was recorded at each Discussion Group and is listed in this report.

Notice of Public Information Centre

CITY OF BRANTFORD OFFICIAL PLAN MASTER SERVICING PLAN TRANSPORTATION MASTER PLAN ENVISIONING OUR CITY: 2041



Notice of Study Commencement and Public Information Centre

Official Plan Review Water, Wastewater and Stormwater Master Servicing Plan Update Transportation Master Plan Update

Thursday November 16, 2017 6:00 – 8:30 pm (presentation at 6:30 pm) North Park Collegiate & Vocational School, 280 North Park Street (at Fairview Drive)

The City of Brantford is undertaking three studies to guide the City's future development to the year 2041. This work will update the City's Official Plan, Master Servicing Plan, and Transportation Master Plan, and account for the Boundary Expansion Lands that were transferred from Brant County to the City on January 1 2017.

Official Plan Review



The Draft Official Plan prepared in 2016 will be revised to incorporate the Boundary Expansion Lands and to ensure the new Official Plan conforms to the Province of Ontario's 2017 Growth Plan for the Greater Golden Horseshoe. The process includes a Municipal Comprehensive Review to determine how much of the Boundary Expansion Lands are to be included within the City's urban settlement area. A Master Plan will establish land uses, environmental management and design guidance for those lands, as well as the infrastructure requirements through an integrated Environmental Assessment process.

Master Servicing Plan Update (MSP)

The objective of the MSP study is to develop a comprehensive plan that will incorporate all facets of the management, expansion and funding of the water, wastewater, and stormwater system for the entire city, including servicing of the Boundary Expansion Lands, to the year 2041 and beyond.

Transportation Master Plan Update (TMP)



The TMP study will provide a balanced strategy for the servicing and operation of important transportation infrastructure within the entire City, including the Boundary Expansion Lands, for the next 25 years. The goal of this Plan is to ensure that the transportation system can accommodate growth and meet the needs of pedestrians, cyclists, transit users, goods movement and automobiles.

The Transportation Master Plan and Water, Wastewater, and Stormwater Master Servicing Plan Updates are being completed as separate Class EA studies in accordance with the requirements of the Municipal Engineers Association (MEA) Class Environmental Assessment (EA) process for master planning (MEA, June 2000, as amended in 2007 and 2011). The studies are being undertaken based on Phases 1 and 2 of the Class EA processes for Master Plans.

We Want to Hear from You!

What kind of City will Brantford be in 25 years? The decisions we make as a community today will shape our City's future tomorrow.

A series of meetings (Public Information Centres) will be held to provide information about the three studies, gather input and receive feedback from the public. The next meeting will be held on **Thursday November 16, 2017, 6:00 pm, at North Park Collegiate and Vocational School.** As part of the integrated planning process, this meeting will address the Official Plan Review, Master Servicing Plan Update, and Transportation Master Plan Update studies.

We will be asking for your input to discussions about the City's growth options under consideration through the Municipal Comprehensive Review. We will introduce the Master Servicing Plan Update and Transportation Master Plan Update studies, and seek input from the public on issues and ideas relating to the city's existing water, wastewater, stormwater, and transportation systems.

What are the important transportation issues facing the community? How well are cyclists, pedestrians, and vehicles sharing the road? What role should transit have in the future of the community? What role does technology play in the travel behaviour of your community? We want to hear your thoughts on these issues!

This notice is also available on the City website where future project updates will also be posted. If you wish to submit comments or would like to be added to the project mailing list, please contact:

Master Servicing Plan Update	Transportation Master Plan Update	
www.brantford.ca/govt/projects/MasterServicingPlan	www.brantford.ca/govt/projects/TransportationMasterPlan	
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Tara Gudgeon, HBSc	Ting Ku, P. Eng., PTOE	
Project Manager, Manager of Continuous	Project Manager, Manager of Transportation and	
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Official Plan Review www.brantford.ca/officialplan	JOIN THE	
Alan Waterfield, MCIP, RPP Senior Policy Planner 100 Wellington Square Brantford, ON N3T 2M2 Phone: 519-759-4150 x 5163 Email: AWaterfield@brantford.ca	CONVERSATION facebook.com/CityofBrantford @CityofBrantford	

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Public Information Centre Comments

November 16, 2017

1 Official Plan

Need the community to define and achieve the Vision

Intensification of "central areas", promoting transit, walking, cycling

North area: more like it is today, with cars

Pedestrian corridors with dedicated and green street design

Federal money is available for active transportation (does the City know about this?)

There is currently no active transportation specialist at the City

"Share the Road" cycling plan. Encourage cyclists to become stewards (Brant Cycle Club)

Different demographics have different behaviours (fewer millennials are buying cars)

Simplest technology, signal control system – progression is required to achieve this (Colborne Street and Dalhousie Street)

Electric vehicles are coming and people are okay about it, little reaction to autonomous vehicles

What will Brantford be in 2041?

2 Housing, Intensification & Growth Options

Apply development charge on land and allow developers to build to max

Plans should speak to greater mixed use development

High rise development concerns

- Over height of trees is too high except when high rise has a podium/ pedestal and high rise is set back (e.g. development at Burlington Go Station)
- This provides better human scale/relation to pedestrians at the street level

How do you force the market? Is there a market for apartments?

How can we control the size of homes?

 Size of new large single dwelling development not good long term

50 persons and jobs/ha is hard to achieve now

Transportation is a problem – transit currently doesn't exist because it doesn't need to exist

Two different growth areas in the south-west and the north

Veterans Memorial Parkway needs to be completed

How to reconcile the targets with the low rise character of the existing neighbourhoods

- Can't look at Tutela Heights the same way as newer urban areas
- Maintain Tutela Heights village character

Lack of land supply

- Apartments being built on small infill sites are mostly assisted living/affordable housing
- Very few infill pockets left to develop most of available stock is constrained and needs environmental remediation

If we look at the development, we see that the amount of infill housing remained constant but percentage of infill housing has gone up because of a lack of greenfield supply

Need to get the intensification number correct because we are going to be at it for a long time

- Can't apply annual percentage targets, need to look at past number of years
- Need to invest in infrastructure but don't overspend in the built-up area (BUA) when units may not come

Townhouses may be a challenge on intensification corridors – configuration of the lots

Provincial density targets are not realistic for Brantford

 Brantford residents don't envision a city like Mississauga in terms of density and housing form

Make sure zoning and incentives are available to make the corridors work

People move here for single detached homes

The numbers now are twisted – the intensification is occurring because there is no longer any greenfield land supply

The target has to be decided by input from the people

Numbers should consider smaller houses on smaller properties

If apartments were more affordable and more attractive they might be more successful

Low rise apartments may be appropriate

Need walkable communities

Can't do underground parking and make it work financially

People move to the city for singles and standard towns

3 Employment

How have the future Employment (ELE) lands been identified? There are two locations in the boundary lands

Expansion of car dealership onto industrial lands: Volkswagen dealership site on Lynden Park Road wants to expand to adjacent lands (employment area versus employment lands)

Concept of Agriculture Preserve lands to secure long-term lands for agriculture uses (also rural craft enterprises). Used to be a 'green belt' around the city

Will we be looking at "Prime Employment" Lands?

Would like to see higher density (80 p+j/ha) and more intensification (60%). Be denser faster

4 Transportation

Rural areas used to have public transit to downtown/urban area, but don't have it now. It is needed and wanted

Need the transportation system solutions to be cognizant of Regional needs

Brantford Southern Access Road (25 year plan) is still not implemented, plans need to be implemented There is poor network performance now. Consider how to address future issues

Traffic on West Brant Avenue and Colborne Street. Consider access to hospital

Nobody is using the bike routes

Have Grand River crossing at Oak Street and St. Paul Avenue

Show the Brantford Southern Access Road extending east to the Glebe Lands, into the southern terminus of Wayne Gretzky Parkway

Extend Conklin Road

Consider the form of development, role and function of the street and ability to achieve intensification

Does walking and cycling fit with the idea of the 'suburban dream'? Which is why people move to Brantford

City structure is not conducive to street oriented development

Some benefit to the bulk of the growth occurring to the north

People drive because they commute to work in Toronto, Hamilton and Cambridge

Transportation Master Plan must look at trends and future impacts of distribution

5 Servicing

Will water and wastewater services be extended to the expansion lands? When will that be?

Will the City ensure that new infrastructure will have enough capacity to support later expansion of the growth boundary within the new City limits?

Servicing in the north must be challenging due to all the natural features and creeks

Will the City integrate existing septic serviced properties into the City's wastewater system?

When will the City integrate the existing Tuttela Heights water system into the City system? Are additional upgrades needed to support the integration or growth? How will that impact the existing County water system?

When can we start extending water and wastewater services to adjacent lands? What process is needed?

How will the new area effect the existing system? Will we need all new pipes, pumps, and reservoirs?

Timing for extending trunk water and wastewater services to the boundary lands? Which areas will get it first?

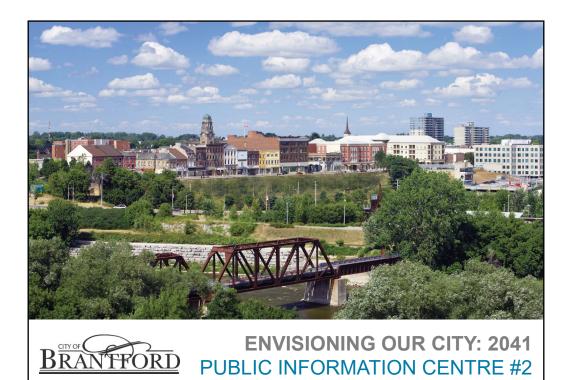
How will the City protect the existing creeks in the expansion lands?



Participants at Public Information Centre #2



Presentation



November 16, 2017

Purpose of the Public Information Centre

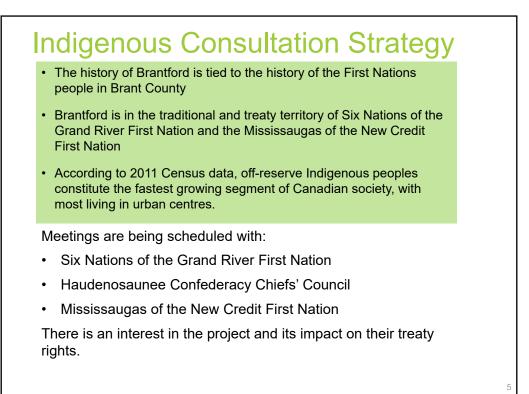
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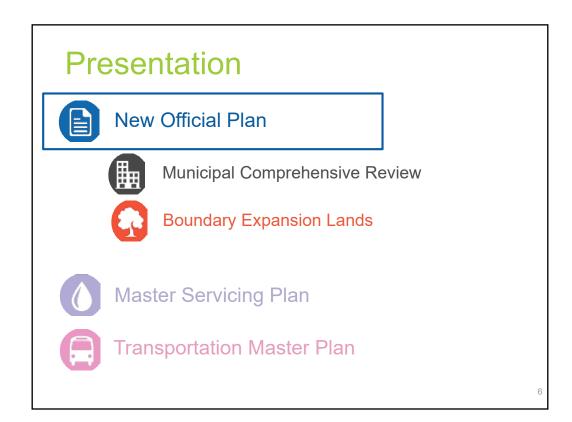
Official Plan Update Master Servicing Plan Transportation Master Plan

This Public Information Centre seeks input to growth options, and issues and ideas relating to the City's servicing and transportation systems.

	SGL Planning & Design Inc. Urban Boundary Expansion, Secondary Plan
Consultants	The Planning Partnership Official Plan, Consultation
	Cushman & Wakefield Real Estate
	AgPlan Agricultural Consultants
	GM BluePlan Engineering Ltd. Municipal Servicing
	Plan B Natural Heritage Landscape Ecology and Natural Heritage Planning
	ASI Heritage Culture, Archaeology, Indigenous Engagement
	Ecosystem Recovery Inc. Natural Resources Engineering, Stormwater Management
	Dillon Transportation
	3







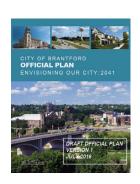


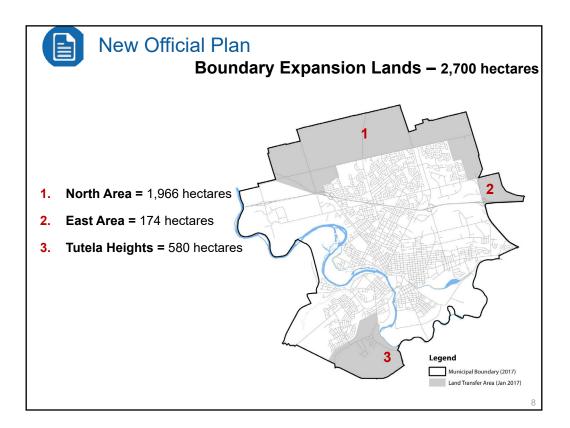
The City of Brantford has been involved in an Official Plan Review process since 2013.

• Between 2013 and 2016, much work has been accomplished, including the hosting of visioning sessions, the preparation of technical background papers, and the creation of a new Draft Official Plan.

The process was put on hold in 2016:

- The Province announced changes to the Provincial Growth Plan which affect the City's Official Plan.
- The municipal boundary between Brant County and the City of Brantford was adjusted to secure lands in the City for future growth. These lands are known as the **Boundary Expansion Lands**.







Vision Statement – Draft Official Plan 2016

Brantford has grown to become a **unique urban community** that has retained connections to its small town origins. It is defined by the **Grand River**, which is cherished for its natural features, historic legacy, and recreational amenities.

The people of Brantford are healthy and prosperous. They live in **complete communities** that are inclusive, accessible, compact, and well connected for all modes of travel. Residents have access to a **range of community services and recreational amenities** to support their well-being. The **local economy** thrives because it is diverse and adaptable to changing trends, just as it has been over the course of Brantford's history.

The entire community comes together in the **Downtown**, which is recognized as the heart of the community with a mix of activities, and the **highest quality public realm to present a distinct image** of the City. As Brantford grows, the success of existing communities is strengthened, and the features that make the City unique remain as valued assets for future generations to enjoy.



New Official Plan

Ten Guiding Principles– Draft Official Plan 2016

- 1. Protect the Grand River
- 2. Provide access to recreation and leisure amenities
- 3. Focus new development in the Downtown, intensification corridors and defined greenfield areas
- 4. Create a vibrant City Centre in Downtown Brantford
- 5. Achieve healthy communities
- 6. Protect the City's cultural heritage
- 7. Create a flexible approach to local economic development
- 8. Integrate transit planning with land use planning and create a local transit network
- 9. Enhance options to walk and cycle
- 10. Demonstrate environmental leadership



Key Sections of the Official Plan

- Growth Management
- Sense of Place
- Healthy Neighbourhoods & Communities
- Land Use Designations
- Housing, Economy & Creative Culture
- Public Health & Safety
- Integrated Transportation System
- Servicing
- Implementation
- Interpretation & Definitions



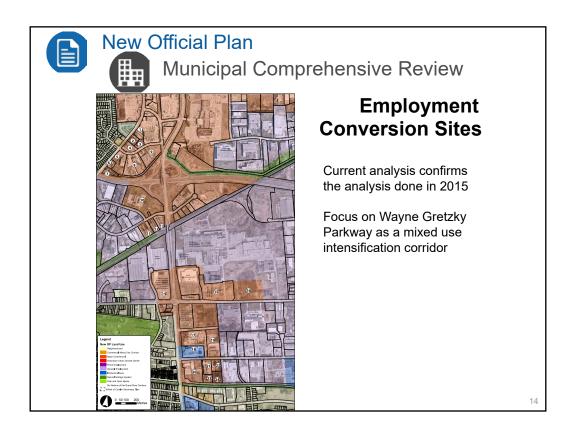
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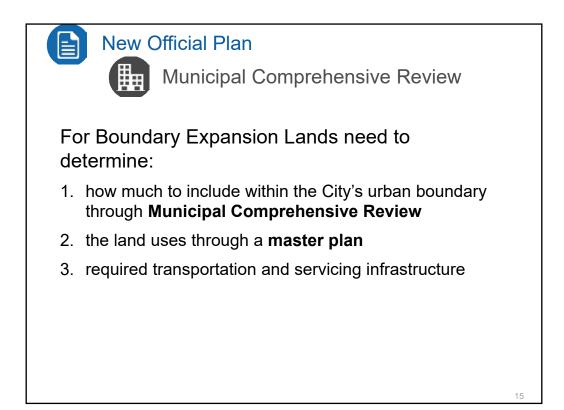
New Official Plan

Municipal Comprehensive Review Employment

Conversion

- **Re-examine** existing employment sites in the City to determine whether any of these sites warrant conversion from employment to non-employment uses.
- The Growth Plan requires any conversion of employment land to be considered on **a City-wide comprehensive basis** rather than on a site-by-site basis as requests are made.
- The review of potential employment conversions through a Municipal Comprehensive Review ensures that the City is not compromising its ability to provide a sufficient amount of land for employment to accommodate growth.





New Official Plan				
	Municipal Comprehensive Review			
Targets for employment and population growth				owth
	2016	2016 Expansion Lands	2041	Total 2016- 2041 Growth
Population	100,300	1,080	163,000	61,620
Employment	46,913	-	79,000	32,087
				16

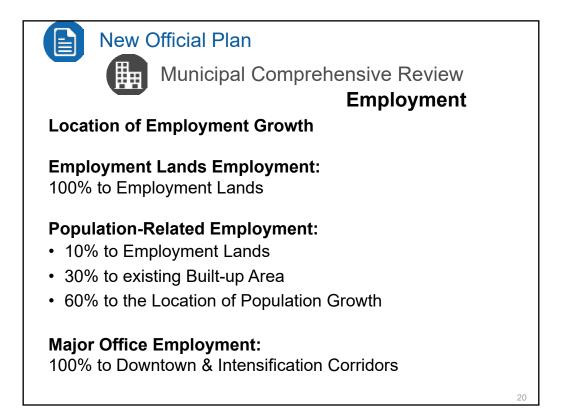


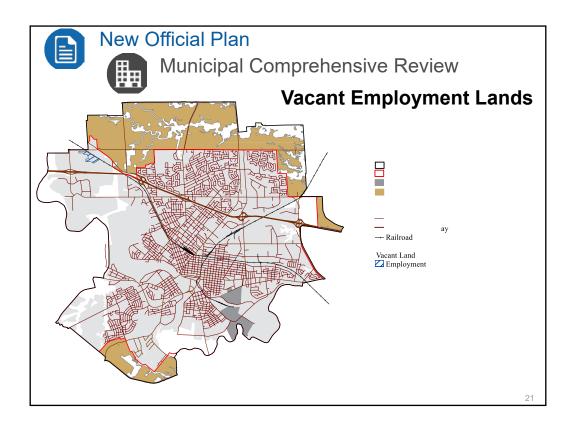
Municipal Comprehensive Review

Projections and recommendations are preliminary until the Province releases a standard Growth Management/Land Needs Assessment Methodology later this year or early 2018.



New Official Plan Municipal Comprehensive Review Employment 2041 Employment Growth Forecast			
Employment Category	2016-2041	% Share	
ELE	15,926	53%	
PRE	11,602	39%	
MOE	2,252	8%	
Total	29,779	100%	





New Official Plan Municipal Comprehensive Review Employment Current Vacant Employment Land		
Location	Gross Hectares	
Northwest Industrial Area	288.3	
Braneida Industrial Area (South of 403)	58.2	
Braneida Industrial Area (North of 403)	23.9	
Hopewell Lands	43.6	
Total	414	
Longterm Vacancy	21	
Vacant Land to be Occupied by 2041	393	



New Official Plan

Municipal Comprehensive Review Employment

Employment density determined by reviewing current job density and nature of future employment

23 jobs/gross hectare Employment lands Employment = 690 ha
64 jobs/gross hectare Population related Employment = 18 ha
Subtract vacant land of 393 ha

Urban Boundary Expansion for Employment Lands = approximately 300 ha

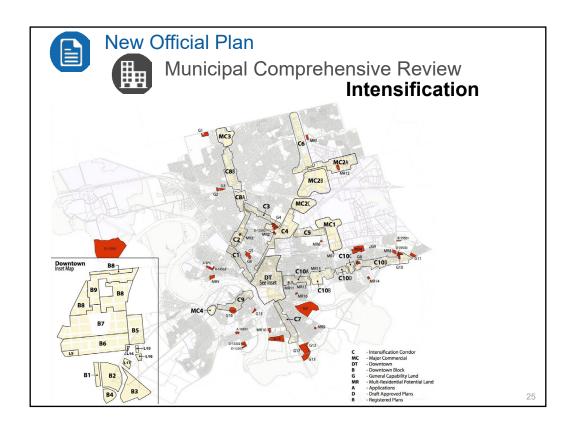


Municipal Comprehensive Review

Residential intensification potential – 4 steps

- 1. Assessed supply capacity.
- 2. Analyzed past and current market dynamics to compare to the available supply by housing type.
- Prepared four different intensification scenarios based on the supply and market dynamics and recognizing the targets set out in the Growth Plan (2017).
- 4. Will recommend intensification target for Brantford.
- Based on the intensification target, will determine DGA growth and appropriate density target.

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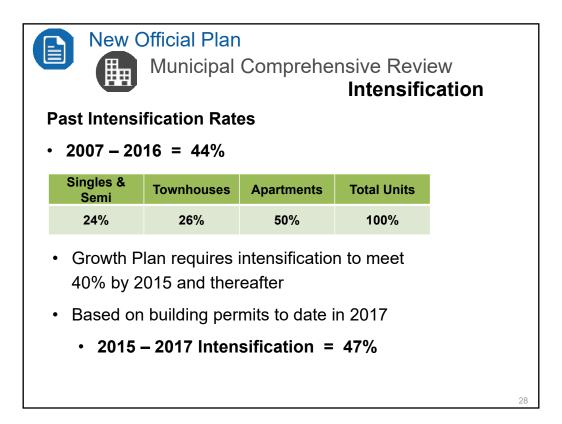


Municipal Comprehensive Review Intensification

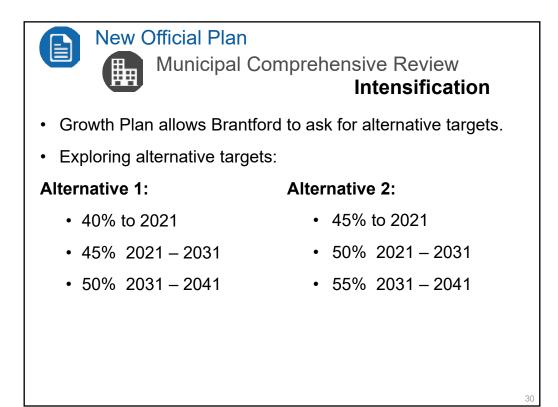
Residential Intensification Demand - Baseline

• Based on historical index but pushes index in recognition of changing boundary policy

	Singles & Semi	Townhouses	Apartments	Total Units
Units in BUA	651	712	5,482	6,845
Units in DGA	13,055	7,512	0	20,567
Total Units	13,706	8,224	5,482	27,412
% of Total Units	50%	30%	20%	100%
 Achieves only 25% intensification 				





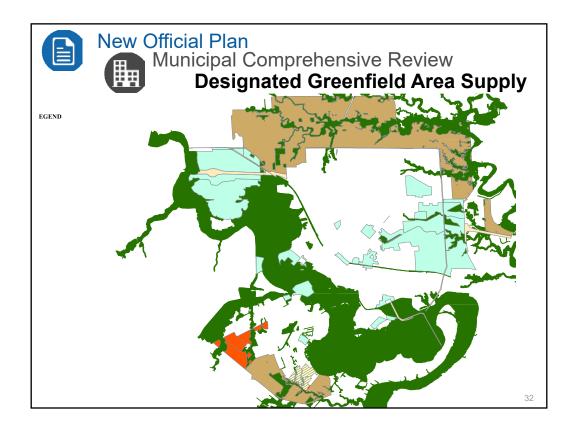


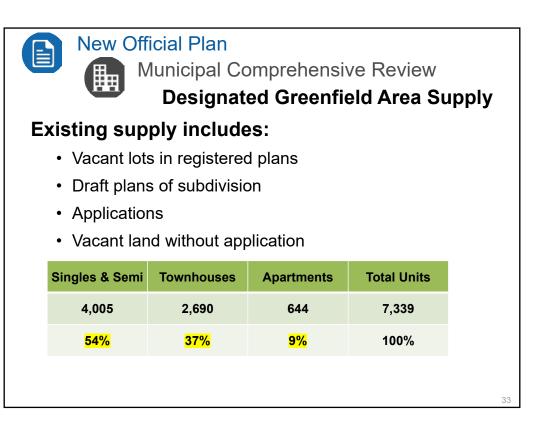


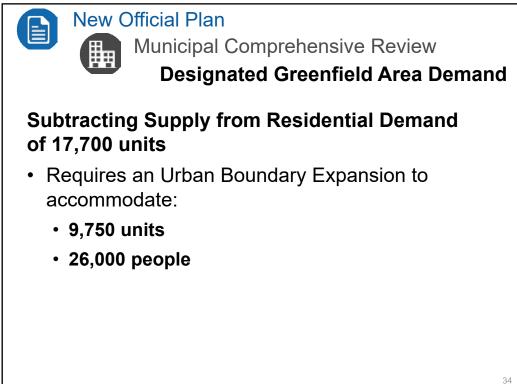
Municipal Comprehensive Review Intensification

To determine appropriate target need to consider:

- How many apartments appropriate in Brantford?
 - Currently only 8,000 apartment units in the city
 - No higher order transit like inner GTA
- How many townhouses could be accommodated in Intensification Corridors?
- What is the appropriate housing mix for Brantford?









Municipal Comprehensive Review Designated Greenfield Area Supply

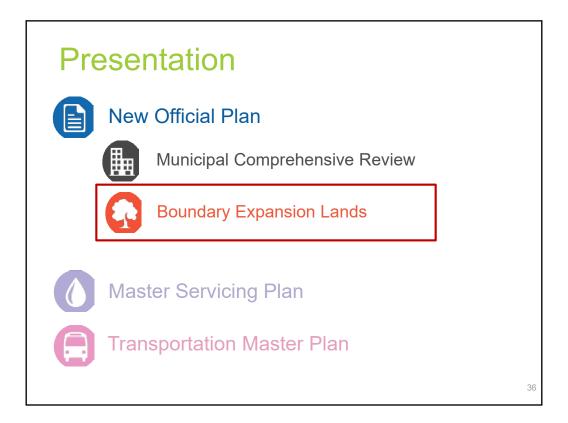
Convert to land needs:

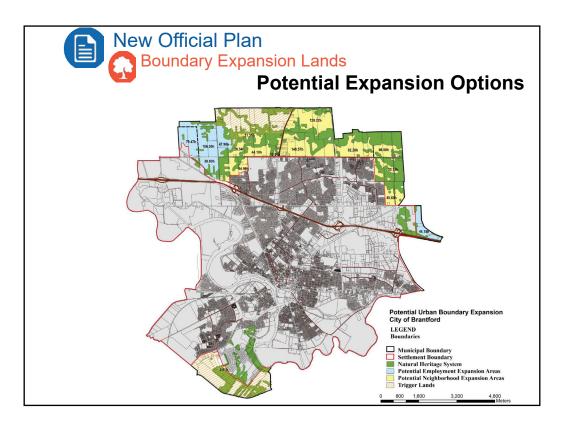
apply urban density by housing type ie. units per hectare

commercial land needs approximately 20 ha

Population Related Employment needs approximately **34 ha**

- Requires an urban boundary expansion of **approximately 500 ha** for residential, commercial and institutional uses
- Results in density of 55 persons and jobs/hectare





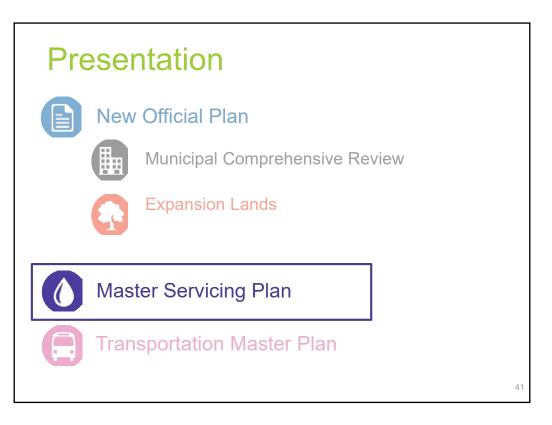


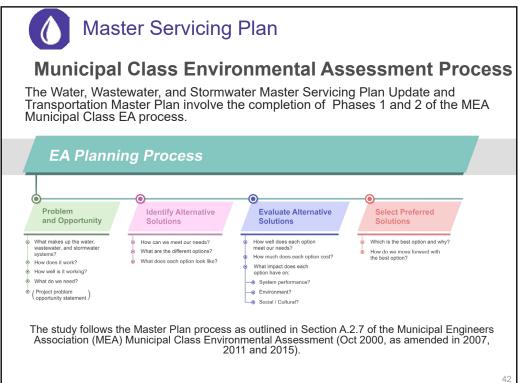
Growth options will be evaluated through high-level reviews of:

- Agriculture;
- Transportation;
- Water and wastewater servicing;
- Water resource system;
- · Key hydrologic area and natural heritage system; and
- · Archaeological resources

Based on the results of the evaluation, preferred locations for growth will be selected.













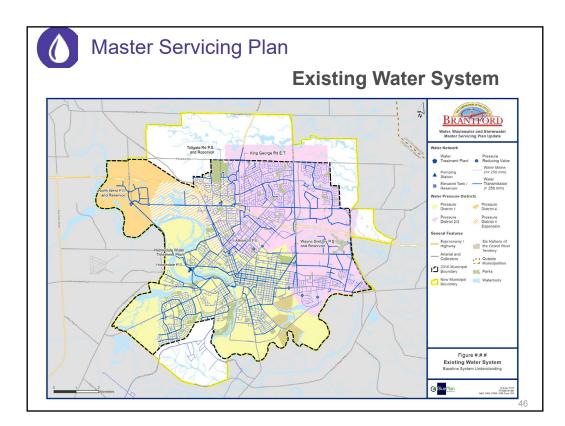
Master Servicing Plan

Servicing of Boundary Expansion Lands

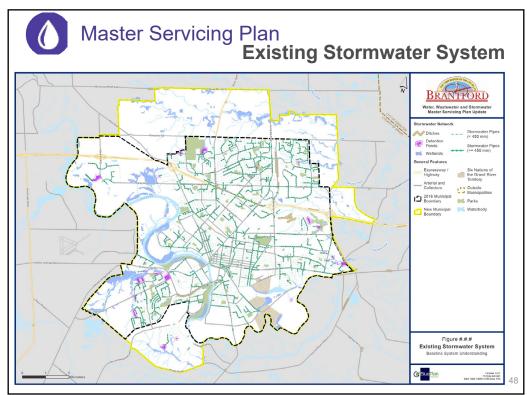
For settlement areas that receive their water from rivers or groundwater and discharge treated sewage to rivers, the completion of **Phases 1 and 2 of a Class Environmental Assessment** (EA) is required to determine:

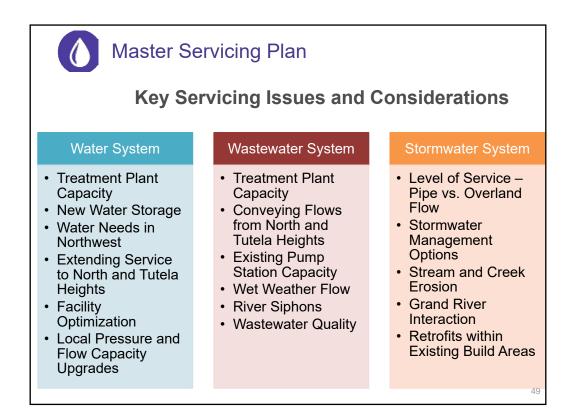
- **capacity** requirements of the existing water and wastewater treatment facilities
- required upgrades to those facilities to accommodate forecast growth.

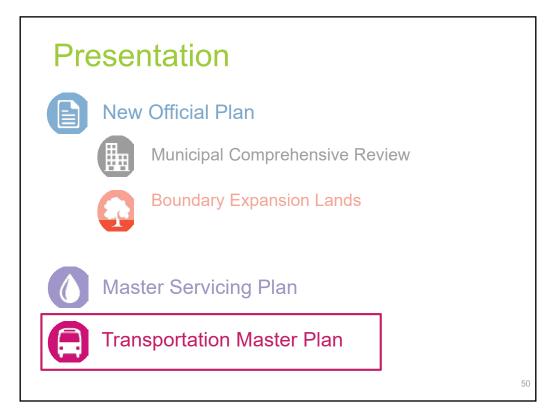
The Master Servicing Plan will review treatment needs for growth to 2041, including Boundary Expansion Lands, and will provide upgrade recommendations.













Transportation Master Plan

Urban Boundary Expansion Lands

As part of determining where the urban boundary should be expanded, the Transportation Master Plan will determine:

- high level transportation principles
- transportation network options
- transportation demand

As a component of the Master for Urban Boundary Expansion Lands, the Transportation Master Plan will include:

- detailed transportation network options
- an Active Transportation Plan, Transit Plan, Road Classifications Plan
- infrastructure staging and a phasing plan

51

Transportation Master Plan

Urban Boundary Expansion Lands

Guiding Principles for Transportation Assessment

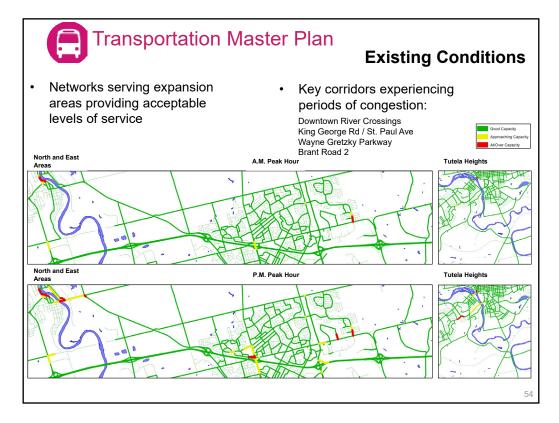
Healthy Communities – support a healthy and active lifestyle

- Promote cycling and walking and support transit services in residential neighbourhoods and employment areas
- · Provide a transportation system that addresses user safety and security
- Support a compact urban form with land use intensification and transit

Sustainability - balance economic, social and environmental goals

- Protect the environment by minimizing impacts on air, water, land and natural resources
- Provide a transportation system that gives access to sustainable transportation options
- Identify a monitoring system to measure and manage the successful implementation of a sustainable transportation system







Transportation Master Plan

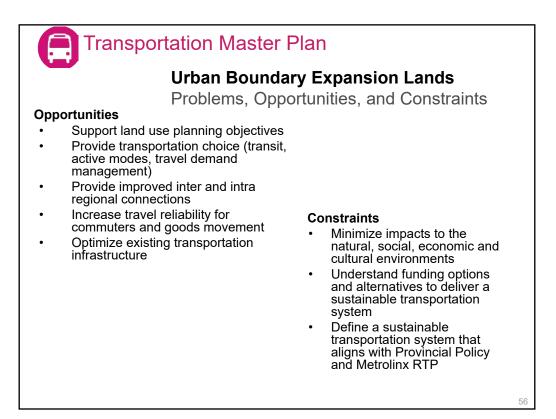
Urban Boundary Expansion Lands

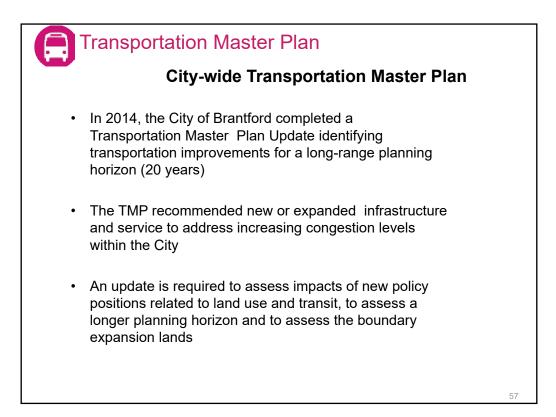
Problems, Opportunities, and Constraints

The current road system and scheduled improvements will not be able to accommodate growth planned beyond 2041

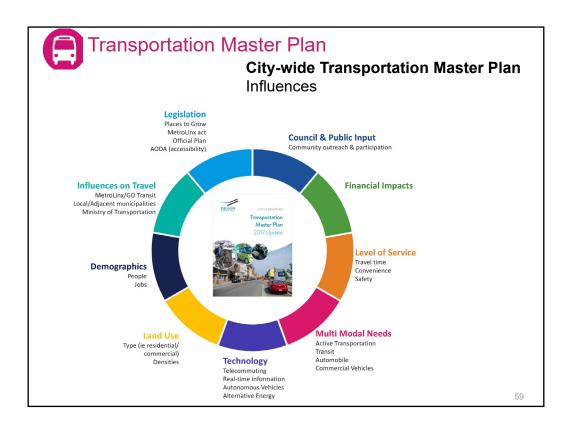
Without action, commuters will experience:

- Increased congestion
- Longer travel times and delays
- Safety concerns
- Impact on quality of life
- Deterioration of air quality













Definition of Contract of Contra

For more information

Master Servicing Plan

Consulting Team

Julien Bell, P.Eng Consultant Project Manager, GM BluePlan julien.bell@gmblueplan.ca

City of Brantford

Tara Gudgeon, HBSc Project Manager, Manager of Continuous Improvement tgudgeon@brantford.ca

Official Plan Update

City of Brantford

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Transportation Master Plan

Consulting Team

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CITY OF BRANTFORD OFFICIAL PLAN



ENVISIONING OUR CITY: 2041

WHAT WE HEARD

Public Information Centre #3

May 17, 2018





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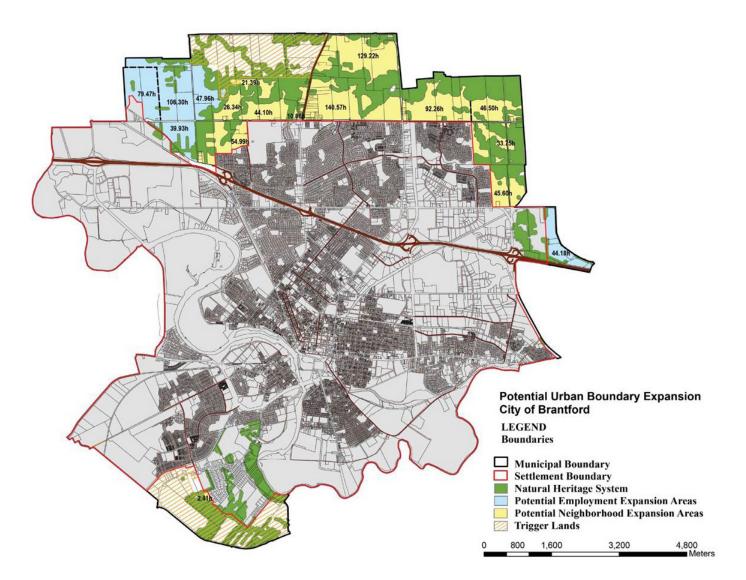
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the International Constitution

Study Area



Introduction

The City of Brantford is undertaking three studies to guide future development to 2041 and to take into account the Boundary Expansion Lands transferred from Brant County to the City in January 2017:

- 1. Official Plan Review
- 2. Master Servicing Plan Update
- 3. Transportation Master Plan Update

The third Public Information Centre took place on Thursday, May 17 from 6:00-8:30 p.m. at the Brantford & District Civic Centre.

Approximately 80 people attended.

The purpose of Public Information Centre #3 was to present:

- The results of the draft Land Needs Assessment which will determine the amount of land to be added to the City's urban settlement area;
- The potential location of the future urban lands in the Boundary Expansion Lands, also referred to as Boundary Adjustment Lands, based on the draft land needs;
- Proposed alternative targets for intensification in the City's Built-up Area;
- Proposed alternative density target in the City's Designated Greenfield Area; and,
- Updates on the Master Servicing Plan and the Transportation Master Plan.

After a presentation, attendees were invited to speak with a member of the consulting team in an open house format on the following topics:

- 1. Land Use Planning
- 2. Transportation Master Plan Update
- 3. Master Servicing Plan Update
- 4. Natural Features
- 5. Agriculture
- 6. Archaeology

Input was recorded and is summarized in this report.

Notice of Public Information Centre

CITY OF BRANTFORD OFFICIAL PLAN MASTER SERVICING PLAN TRANSPORTATION MASTER PLAN ENVISIONING OUR CITY: 2041



Notice of Public Information Centre

Official Plan Review Water, Wastewater and Stormwater Master Servicing Plan Update Transportation Master Plan Update

Thursday May 17th, 2018 6:00 – 8:30 pm (presentation at 6:30 pm) Brantford & District Civic Centre - Auditorium, 69 Market Street South

The City of Brantford is undertaking three studies to guide the City's future development to the year 2041. This work will update the City's Official Plan, Master Servicing Plan, and Transportation Master Plan, and account for the Boundary Expansion Lands that were transferred from Brant County to the City on January 1, 2017.

We Want to Hear from You!

What kind of City will Brantford be in 25 years? The decisions we make as a community today will shape our City's future tomorrow. As part of the integrated planning process, a series of meetings (Public Information Centres) will be held to provide information about the three studies, gather input, and receive feedback from the public. The next meeting will be held on **Thursday May 17, 2018, 6:00 pm, at the Brantford & District Civic Centre – Auditorium.**

We will present the results of the Land Needs Assessment, which has determined the amount of land to be added to the City's urban settlement area, and the preferred location of those future urban lands in the Boundary Expansion Lands. We will also present proposed alternative targets for intensification in the City's Built-up Area and for density in the City's Designated Greenfield Area. Lastly, we will provide updates on the progress of Master Servicing Plan Update and Transportation Master Plan Update studies, and seek input from the public on issues and ideas relating to the City's existing Water, Wastewater, Stormwater, and Transportation Systems.

Background

Official Plan Review



The Draft Official Plan prepared in 2016 will be revised to incorporate the Boundary Expansion Lands and to ensure the new Official Plan conforms to the Province of Ontario's 2017 Growth Plan for the Greater Golden Horseshoe. The process includes a Municipal Comprehensive Review to determine where and how the City will grow and how much of the Boundary Expansion Lands are to be included within the City's urban settlement area. A Master Plan will establish land uses, environmental management and design guidance for those lands, as well as the infrastructure requirements through an integrated Environmental Assessment process.

Master Servicing Plan Update (MSP)

The objective of the MSP study is to develop a comprehensive plan that will incorporate all facets of the management, expansion and funding of the water, wastewater, and stormwater system for the entire City, including servicing of the Boundary Expansion Lands, to the year 2041 and beyond.

Transportation Master Plan Update (TMP)



The TMP study will provide a balanced strategy for the servicing and operation of important transportation infrastructure within the entire City, including the Boundary Expansion Lands, for the next 25 years. The goal of this Plan is to ensure that the transportation system can accommodate growth and meet the needs of pedestrians, cyclists, transit users, goods movement and automobiles.

The Transportation Master Plan and Water, Wastewater, and Stormwater Master Servicing Plan Updates are being completed as separate Class EA studies in accordance with the requirements of the Municipal Engineers Association (MEA) Class Environmental Assessment (EA) process for master planning (MEA, June 2000, as amended in 2007 and 2011). The studies are being undertaken based on Phases 1 and 2 of the Class EA processes for Master Plans.

For More Information

This notice is also available on the City website where future project updates will also be posted. If you wish to submit comments, or would like to be added to the project mailing list, please contact:

Master Servicing Plan Update www.brantford.ca/govt/projects/MasterServicingPlan	Transportation Master Plan Update www.brantford.ca/govt/projects/TransportationMasterPlan
Julien Bell, P.Eng. Consultant Project Manager – GM BluePlan 330 Trillium Drive, Unit D Kitchener, ON N2E 3J2 Phone: 416-703-0667 Email: julien.bell@gmblueplan.ca	Paul Bumstead, B.E.S. Consultant Project Manager – Dillon Consulting Limited 235 Yorkland Boulevard, Suite 800 Toronto ON M2J 4Y8 Phone: 416.229.4646 x 2311 Email: pbumstead@dillon.ca
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Official Plan Review www.brantford.ca/officialplan	JOIN THE
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Phone: 519-759-4150 x 5163 Email: awaterfield@brantford.ca	♥ @CityofBrantford
	h the <i>Municipal Freedom</i> of <i>Information and Protection</i> information, all comments will become part of the

Public Information Centre Comments

May 17, 2018

The following is a summary of the comments made during the table group discussions as recorded by the team member representing the topic.

Questions raised will be addressed in finalizing the Part 2 MCR Report and other components of the Official Plan Review.

1 Land Use Planning

Why is Tutela Heights not on the options? Will it be serviced?

What do you mean when you say higher densities?

The Hopewell Development area should be included in the options

How can the current intensification targets be so high when historical trends are so low? Can we actually achieve the density targets?

Will we take the 'field of dreams' approach of 'build it and they will come' or develop when there is demand? It's best to have a mixture

2 Transportation Master Plan Update

Cycling

There are lots of north/south bike routes, need more east/west routes

Need an east/west bike route in the north end

Like North Park Street

The transportation hierarchy should be pedestrians, active transportation and then transit

Sharrows are not effective. Need to have separate bike lanes. Green corridors would be even better

Need to have secure bike parking (lockers, bike cage/room with secure entry)

What percentage of the capital budget will be designated to active modes of transportation?

Active transportation needs to be encouraged to help fight climate change

Transit

Need transit in Tutela Heights

Connect transit to Six Nations Reserve

Downtown Transit Station

Coordinate with VIA Rail

Connect inter-city transit and create a hub

Encourage transit connections (BIA shuttle between the VIA/GO hub and downtown)

Intensification

Like intensification projects

Implementation timelines need to be accelerated

Columbia Street in Waterloo is a good example for intensification

Other

Like that the Transportation Master Plan is building on land use

Make sure to coordinate with the Master Servicing Plan

There should be a connection between the Official Plan work and the Transportation Master Plan

Traffic signal at Mount Pleasant and Conklin Roads

Consider timing for improvements

Do not support the two way conversion. Need to meet with EMS regarding requirements. Keep one way, reduce to one lane and add bike lanes and wider sidewalks

Scatter the intersection

Country Road 18 should be seen as a ring road. Avoid a single point of failure (flooding).

Wayne Gretzky Parkway needs alignment north of Powerline Road

Support the extension of Conklin Road

3 Master Servicing Plan Update

Where is the sustainable development? Why not focus efforts on repairing infrastructure in the city?

Sustaining infrastructure and allowing growth is not possible simultaneously

What is the timing for the north-east wastewater capacity solutions?

Create wetlands as part of the storm water management plan and to recharge groundwater

A pipeline from the Great Lakes is unfavourable

Storm water management to control runoff (climate change)

Have questions regarding infrastructure capacity and upgrades needed for the expansion areas

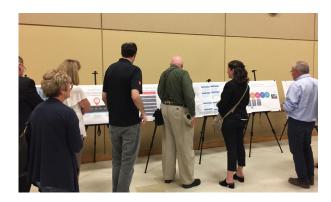
How is new infrastructure going to be paid for when it's already a struggle to update the infrastructure that is at capacity?

Employment land (E1-6) is located on top of an aquifer with high permeability. What is going to protect them? What if the government decides to designate them as a protected area? Where will the employment lands go? Where would residential lands go? Can we swap the residential for employment lands if it becomes a protected aquifer?

How and when will Tutela Heights be serviced (sanitary system)?



Participants at Public Information Centre #3



4 Natural Features

What is the forest cover now? What is the target and timeline?

Do you recognize the value of wetlands and the value of wetland creation and restoration?

What is the current wetland area and the target for the future?

What options are available for woodland/wetland creation?

How will climate change be addressed in policies?

How will the carbon footprint be addressed?

Consider the impact of urban growth on flooding. How will property and the environment be protected?

Do Source Water Protection Areas exist within the study area?

Natural Heritage Features are not accurately mapped in N9

What are the implications of creek blocks on developable land?

Natural heritage features have changed in N6 and N5

Access for farm equipment to cross Jones Creek

5 Agriculture

Detailed maps of the options are required

Leave out detailed minimum distance separation (MDS) until numbers are approved by the Province and the actual area slated for development is known

Barn information is already out of date (a barn and house are removed and other barn locations are imprecise)

Capability maps do not always match 'on the ground' experience

6 Archaeology

Is there an Archaeological Master Plan in place for the expansion lands, and if not, what is the City doing to protect the archaeological resources and artifacts in these lands?

Will the City require archaeological assessments on these lands prior to any development?

How did the consultant determine where the archaeological sites and areas of archaeological potential are in the mapping? Did this include any field studies?

Why would a landowner share information on archaeology if this might make their property less desirable from an expansion point of view?

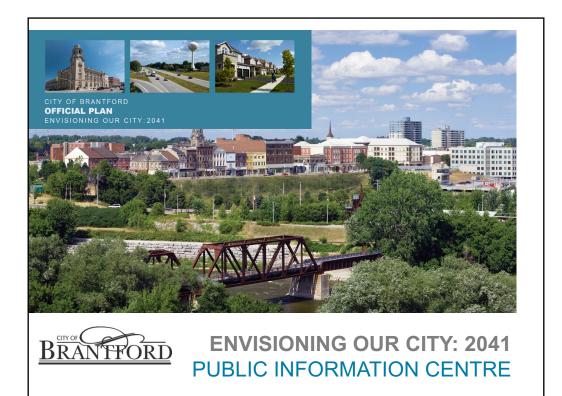
Can you clarify the methodology for determining or evaluating the specific evaluation score for each area?

Why did certain areas receive such high scores while adjacent parcels did not?



Participants at Public Information Centre #3

Display Boards



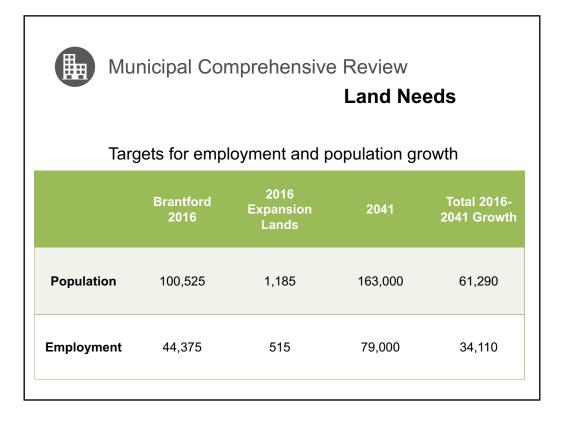
Study Process

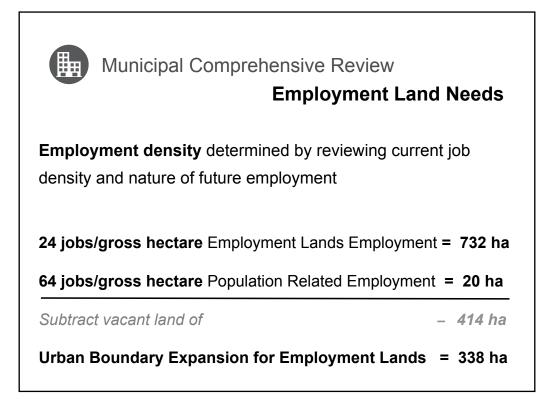
The City of Brantford is undertaking three studies to guide future development to 2041 and to take into account the Boundary Expansion Lands transferred from Brant County to the City in January 2017:

Official Plan Review Master Servicing Plan Update Transportation Master Plan Update

Purpose of this PIC

- 1) Outline key outputs from Municipal Comprehensive Review:
 - Alternative Intensification Target
 - Alternative Greenfield Density Target
 - · Amount of Employment Land Needs
 - Amount of Community Land Needs
 - · Where new growth should be located
- 2) Municipal Servicing Plan Update
- 3) Transportation Master Plan update
- 4) Next steps



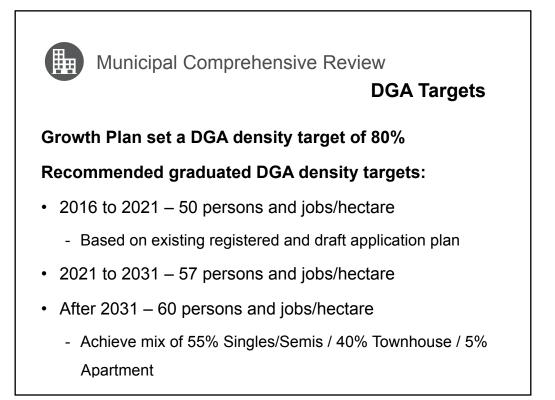




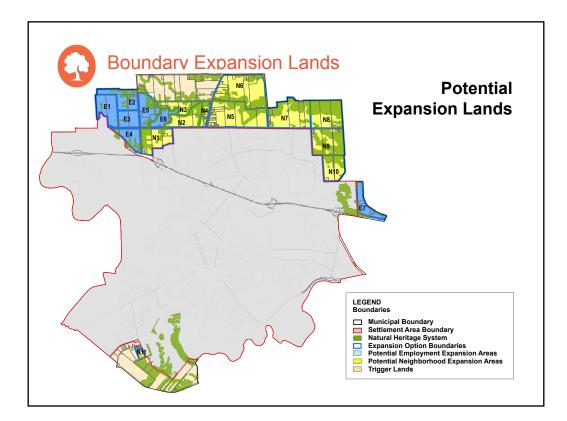
Municipal Comprehensive Review

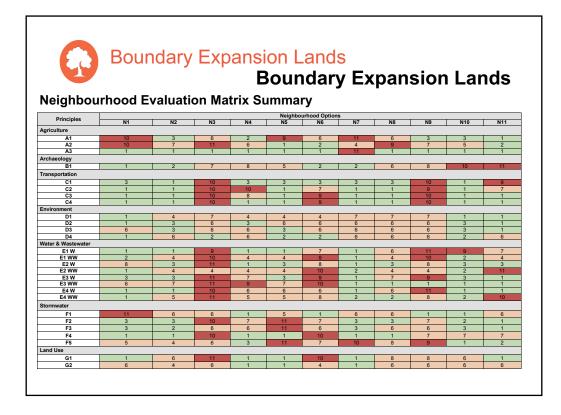
Intensification Strategy

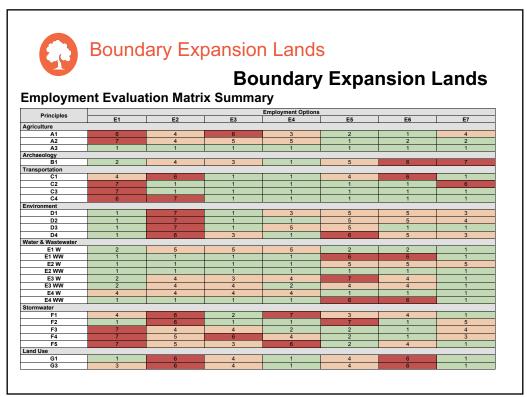
- A reasonable distribution of units by type to the various geographical components of the Built-up Area would entail:
 - 650 single and semi-detached units in the existing neighbourhoods;
 - 1,250 second units in the existing neighbourhoods;
 - 800 townhouses in the existing neighbourhoods;
 - 1,000 student housing units;
 - 3,500 townhouse in the Intensification Corridors and major mixed use commercial sites;
 - 1,500 apartments in the Intensification Corridors and major mixed use commercial sites; and
 - 3,800 apartments in the Downtown Urban Growth Centre.

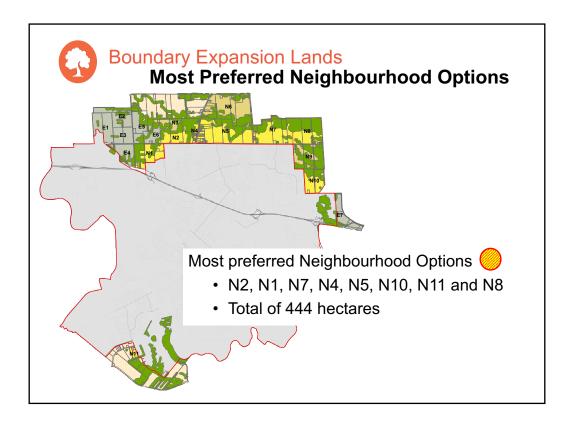


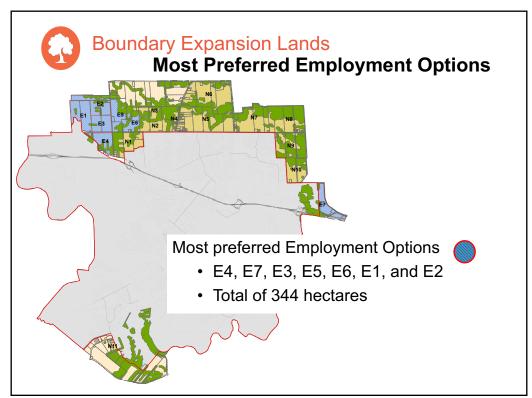
		Co	ommunity	Area La	nd Need
Based or	n the 3 gra	duated o	densities:		
DGA LAND RE		FS BY PLA	NNING PERIOD		
Time period	% DGA Growth	Units	Pop & Jobs	Density	Area (ha)
2016-2021	8%	1,125	4,100	50	82
2021-2031	55%	7,930	28,186	57	495
2031-2041	37%	5,315	18,962	60	316
Total	100%	14,370	51,248	-	893
Subtract ex	isting vaca	ant land s	supply in DGA	ł	– 430 ha











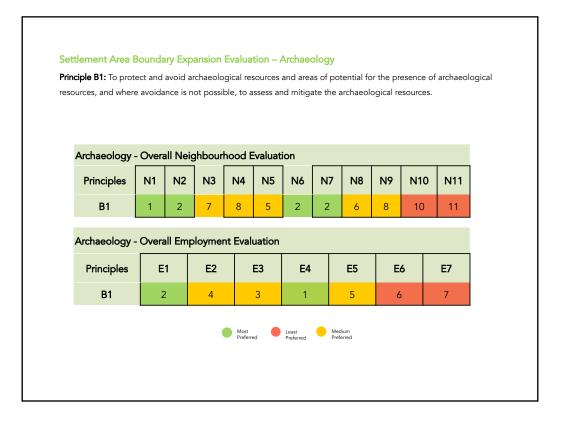
Settlement Area Boundary Expansion Evaluation - Agriculture

Principle A1: To identify the better versus the poorer agricultural areas within each Option and to retain those better areas in agriculture as long as possible.

Principle A2: To identify the better versus the poorer agricultural areas adjacent or near to the Options and to minimize impacts of non-agricultural uses proposed in the expansion area on the better agricultural areas identified.
 Principle A3: To avoid impacts on the agri-food network or if not possible, to minimize and mitigate impacts.

	Agriculture -	Neig	nbour	hood	Evalua	ation \$	Summ	ary				
	Principle	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11
ĺ	A1	10	3	6	2	9	6	11	6	3	3	1
	A2	10	7	11	6	1	2	4	9	7	5	2
	A3	1	1	1	1	1	1	11	1	1	1	1

Agriculture -	Employm	ent Evalu	ation Sur	nmary			
Principle	E1	E2	E3	E4	E5	E6	E7
A1	6	4	6	3	2	1	4
A2	7	4	5	5	1	2	2
A3	1	1	1	1	1	1	1
		Most Preferred	Lea: Pref	st erred	Medium Preferred	-	



Settlement Area Boundary Expansion Evaluation – Transportation

Principle C1: To ensure appropriate access and connectivity to new urban areas.

Principle C2: To ensure appropriate transportation capacity is maintained.

Principle C3: To balance transportation needs and provide choice for the travel needs of residents.

Principle C4: To ensure transportation network continuity between existing and new areas.

Transportation - Overall Neighbourhood Evaluation

Principle	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11
C1	3	1	10	3	3	3	3	3	10	1	9
C2	1	1	10	10	1	7	1	1	9	1	7
СЗ	1	1	10	8	1	9	1	1	10	1	1
C4	1	1	10	1	1	9	1	1	10	1	1

Transportation - Overall Employment Evaluation

Principle	E1	E2	E3	E4	E5	E6	E7
	E1	EZ	EJ	C4	EJ	EO	E/
C1	4	6	1	1	4	6	1
C2	7	1	1	1	1	1	6
СЗ	7	1	1	1	1	1	1
C4	6	7	1	1	1	1	1
					Medium		
		Most Prefei	rred 📕	Least Preferred	Preferred		

Settlement Area Boundary Expansion Evaluation – Environment

Principle D1: To protect, enhance and restore the Natural Heritage System (NHS) for the long-term along with existing linkage connections between the NHS and NHS features within the County of Brant and the existing urban area.

Principle D2: To protect and enhance surface water quality/quantity including fish habitat.

Principle D3: To protect and enhance the groundwater regime.

Principle D4: To protect significant wildlife habitat features and functions including the habitat of species-at-risk.

Principle D5: To protect stream channel and valleyland integrity, particularly in erosion prone systems.

D1 1 4 7 4 4 4 7 7 7 1 1 D2 1 3 6 3 6 6 6 6 6 3 1 D3 6 3 6 6 3 6 6 6 6 3 1 D4 1 6 2 6 2 2 6 6 6 3 1 Principle E1 E2 E3 E4 E5 E6 E7 D1 1 7 1 3 5 5 3 D2 1 7 1 1 5 55 4 D3 1 7 1 5 55 1 1 D4 1 6 3 1 6 5 3	Principle	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11
D3 6 3 6 6 3 6 6 3 6 6 6 3 1 D4 1 6 2 6 2 2 6 6 6 3 1 D4 1 6 2 6 2 2 6 6 6 3 1 Environment - Overall Employment Evaluation Ev	D1	1	4	7	4	4	4	7	7	7	1	1
D4 1 6 2 6 2 2 6 6 2 6 Environment - Overall Employment Evaluation Principle E1 E2 E3 E4 E5 E6 E7 D1 1 7 1 3 5 5 3 D2 1 7 1 1 5 55 4 D3 1 7 1 5 5 1 1	D2	1	3	6	3	6	6	6	6	6	3	1
Environment - Overall Employment Evaluation Principle E1 E2 E3 E4 E5 E6 E7 D1 1 7 1 3 5 5 3 D2 1 7 1 1 5 5 4 D3 1 7 1 5 5 1 1	D3	6	3	6	6	3	6	6	6	6	3	1
Principle E1 E2 E3 E4 E5 E6 E7 D1 1 7 1 3 5 5 3 D2 1 7 1 1 5 5 4 D3 1 7 1 5 5 1 1	D4	1	6	2	6	2	2	6	6	6	2	6
D2 1 7 1 1 5 5 4 D3 1 7 1 5 5 1 1	Environment	- Ove	rall Er	nploy	ment	Evalu	ation					
D2 1 7 1 1 5 5 4 D3 1 7 1 5 5 1 1										_	F 4	E7
D3 1 7 1 5 5 1 1	Principle	E1		E2	E	E 3	E4					
	Principle D1	E1		E2	E	E3 1	E4 3		5		5	3
D4 1 6 3 1 6 5 3	Principle D1	E1		E2	E	E3 1	E4 3		5		5	3
	Principle D1 D2	E1 1		E2 7 7	E	E3 1 1	E4 3 1		5 5		5 5	3 4

Settlement Area Boundary Expansion Evaluation - Water System

Principle E1: To efficiently use existing and planned infrastructure and to minimize the complexity of extending the existing water and wastewater system to the expansion areas.

Principle E2: To align future infrastructure with the Master Servicing Plan.

Principle E3: To phase water and wastewater infrastructure logically and consecutively.

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Principle E4: To ensure the infrastructure is financially viable over the full life-cycle and the preferred serving solution considers the best life-cycle Options when considering overall operational efficiency, operational resiliency to climate change and/or major component failure, operational and maintenance cost, existing renewal needs of the system, post period servicing, and greenhouse gas emissions.

Water Servicing	Overa	ll Neigh	bourh	ood E	valua	tion					
Principles	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11
E1 W	1	1	9	1	1	7	1	6	11	9	7
E2 W	8	3	11	1	3	8	1	3	8	3	3
E3 W	3	3	11	7	3	9	1	7	9	3	1
F4 W	1	1	10	6	6	6	1	6	11	1	1

water Servicing	g - Overall	п Етріоуті	ent Evalua	tion	



Settlement Area Boundary Expansion Evaluation – Wastewater System

Principle E1: To efficiently use existing and planned infrastructure and to minimize the complexity of extending the existing water and wastewater system to the expansion areas.

Principle E2: To align future infrastructure with the Master Servicing Plan.

Principle E3: To phase water and wastewater infrastructure logically and consecutively.

Principle E4: To ensure the infrastructure is financially viable over the full life-cycle and the preferred serving solution considers the best life-cycle Options when considering overall operational efficiency, operational resiliency to climate change and/or major component failure, operational and maintenance cost, existing renewal needs of the system, post period servicing, and greenhouse gas emissions.

Principles	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11		
E1 WW													
E2 WW	1	4	4	4	4	10	2	4	4	2	11		
E3 WW	6	7	11	9	7	10	1	1	1	1	1		
E4WW 1 5 11 5 5 8 2 2 8 2 10													
wastewater a		g-0v		1		Lvaiu							
Principles	E1	y-0v	E2	E		EValue E4		E5	E	6	E7		
Principles	E1	y-04	E2	E	3	E4							
		g-0v		1	3			E5 6		5	E7 1		
E1 WW	E1	y-0v	E2	E	3	E4 1		6		5			
Principles E1 WW E2 WW	E1 1 1	g-Ov	E2 1 1	E	3 1	E4 1		6 1	-	5 1			

Settlement Area Boundary Expansion Evaluation - Stormwater

Principle F1: To avoid key hydrologic areas where possible when determining the most appropriate location for settlement area boundary expansion. Key hydrologic areas are defined as significant groundwater recharge areas (SGRAs), highly vulnerable aquifers (HVAs), and significant surface water contribution areas that are necessary for the ecological and hydrologic integrity of a watershed.

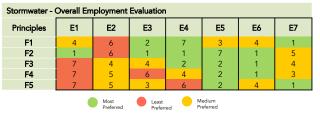
Principle F2: To minimize the impact on the water resource system by minimizing the relative complexity needed to complete local stormwater servicing.

Principle F3: To minimize the impact on the water resource system by evaluating the existing downstream system capacity.

Principle F4: To phase stormwater management infrastructure logically and consecutively.

Principle F5: To ensure that the stormwater infrastructure is financially viability by minimizing the total project life-cycle cost to service the expansion areas.

Stormwater -	Stormwater - Overall Neighbourhood Evaluation												
Principles	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11		
F1	11	6	6	1	5	1	6	6	1	1	6		
F2	3	3	10	7	11	7	3	3	7	2	1		
F3	3	2	6	6	11	6	3	6	6	3	1		
F4	1	1	10	1	1	10	1	1	7	7	7		
F5	5	4	6	3	11	7	10	8	9	1	2		



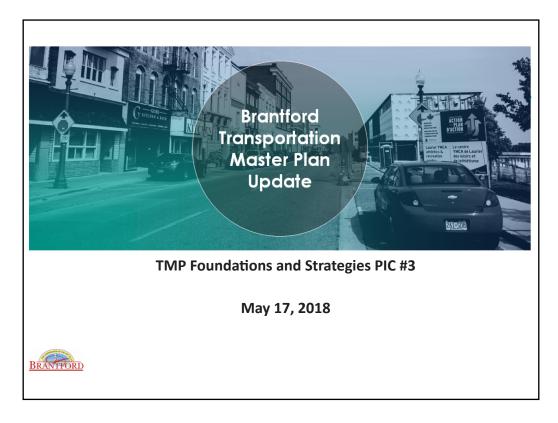
Settlement Area Boundary Expansion Evaluation – Land Use

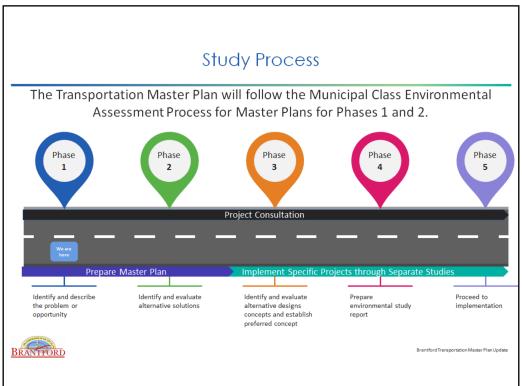
Principle G1: To ensure development occurs adjacent to existing built areas.

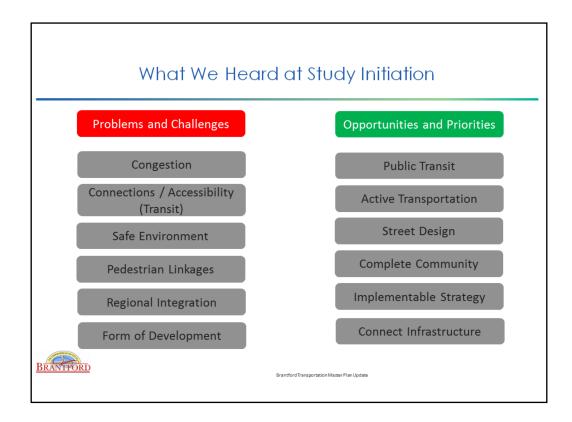
Principle G2: To create compact new urban areas with a mix of uses and densities.

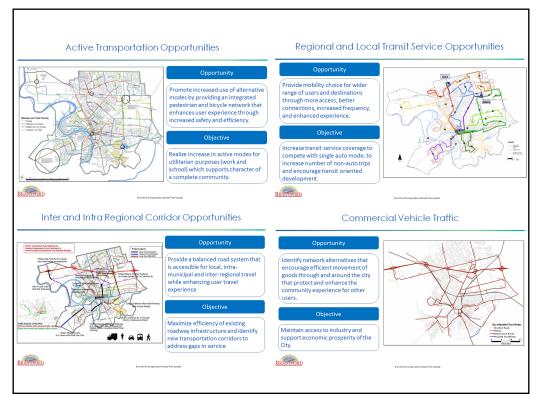
Principle G3: To direct employment areas to locations in proximity to major goods movement facilities.

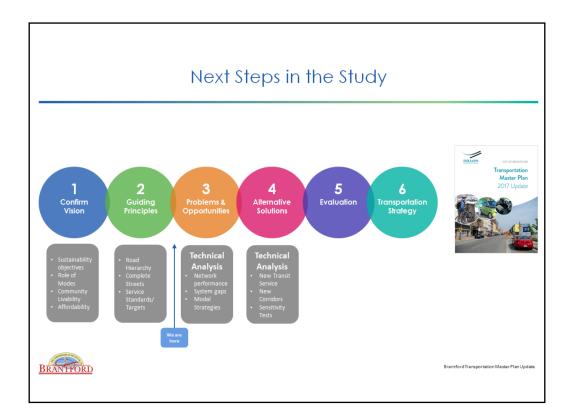
Principles	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11
G1	1	6	11	1	1	10	1	8	8	6	1
G2	6	4	6	1	1	4	1	6	6	6	6
Principles	E1		E2		3	E4		E5	Ed		E7
Principles	E1		E2	E	3	E4		E5	Ed	5	E7
G1	1		6 6		4	1 1		4 4	6		1 1

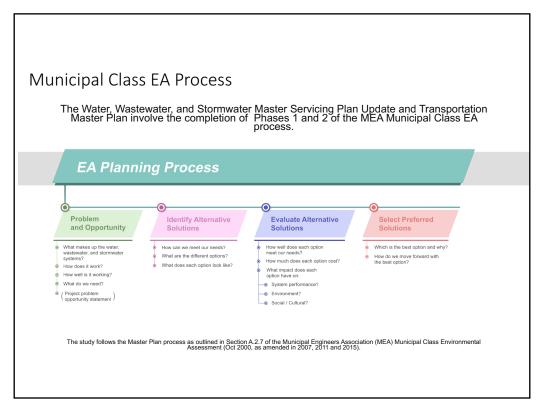


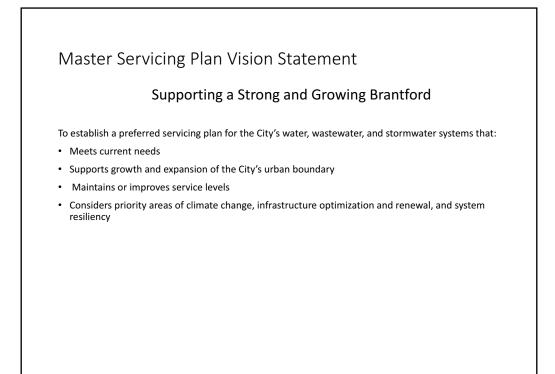




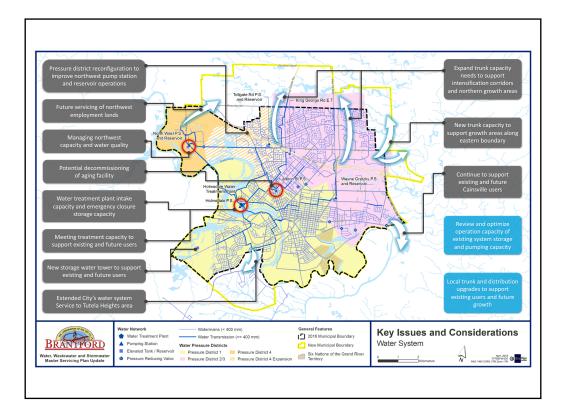


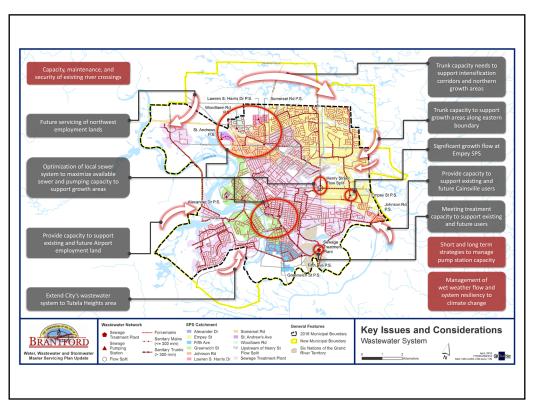


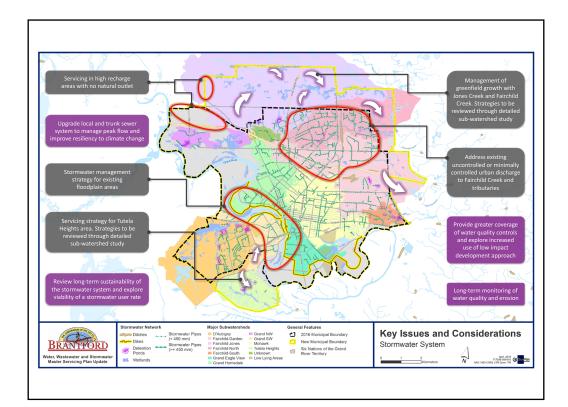


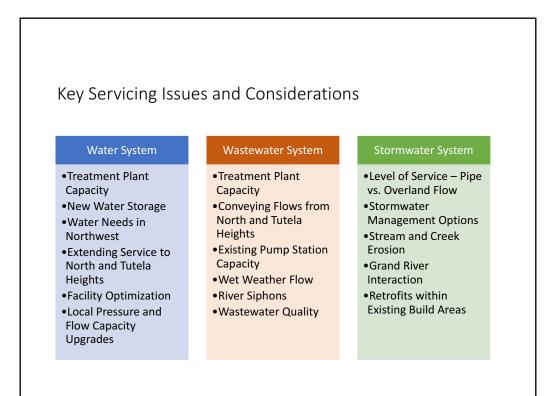


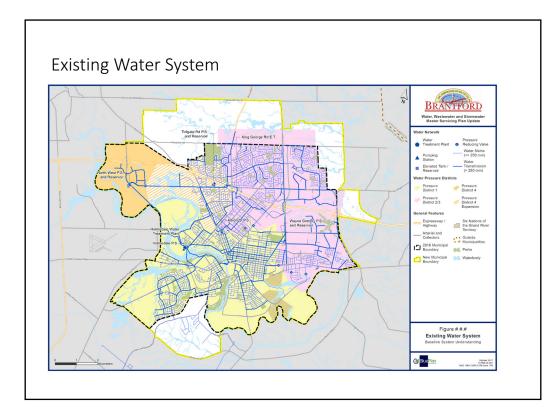


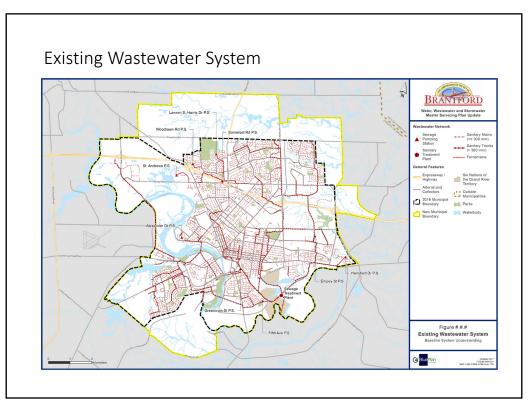


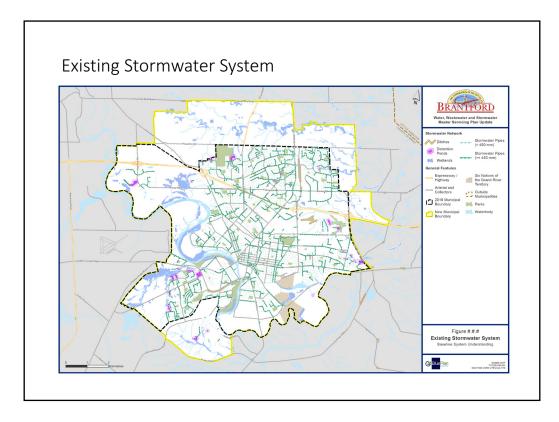




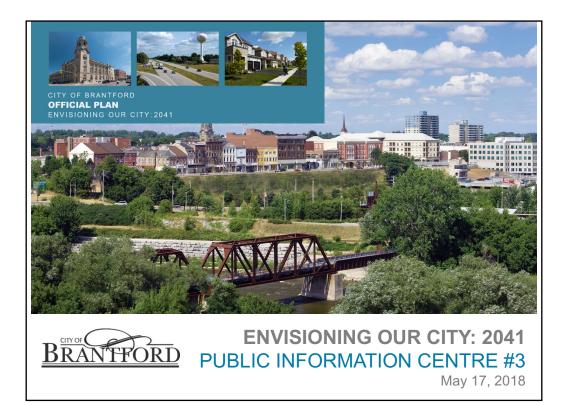








Presentation



Study Process

The City of Brantford is undertaking three studies to guide future development to 2041 and to take into account the Boundary Expansion Lands transferred from Brant County to the City in January 2017:

Official Plan Review Master Servicing Plan Update Transportation Master Plan Update

Purpose of this PIC

- 1) Outline key outputs from Municipal Comprehensive Review:
 - Alternative Intensification Target
 - Alternative Greenfield Density Target
 - Amount of Employment Land Needs
 - Amount of Community Land Needs
 - Where new growth should be located
- 2) Municipal Servicing Plan Update
- 3) Transportation Master Plan update
- 4) Next steps







Presentation

Municipal Comprehensive Review

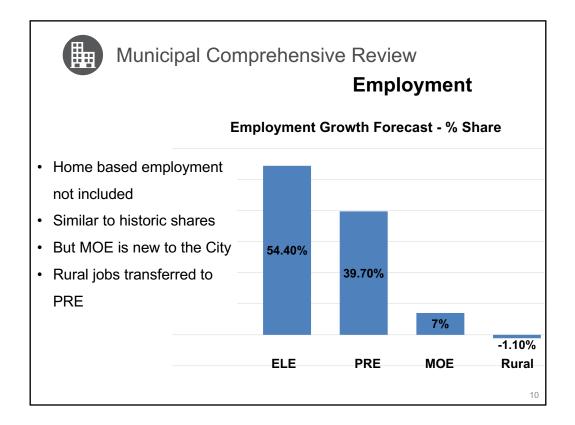
- Employment Land Needs to Accommodate 2041 forecast
- Urban Growth Centre
- Intensification Strategy + Alternative Target
- Designated Greenfield Area Supply + Alternative Target
- Community Land Needs to Accommodate 2041 forecast

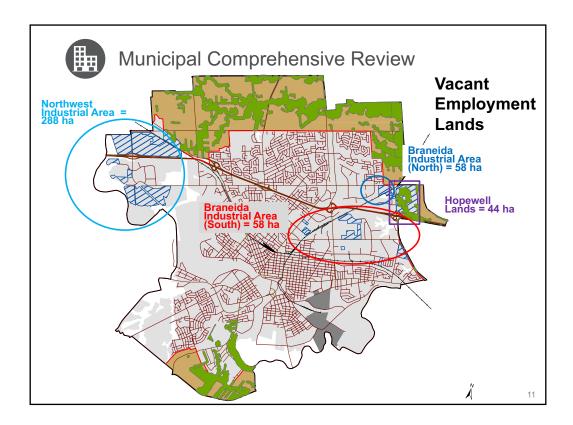
Municipal Comprehensive Review Land Needs						
Tarç	gets for empl	oyment and p	opulation gr	owth		
	Brantford 2016	2016 Expansion Lands	2041	Total 2016- 2041 Growth		
Population	Population 100,525		163,000	61,290		
Employment	44,375	515	79,000	34,110		
				8		

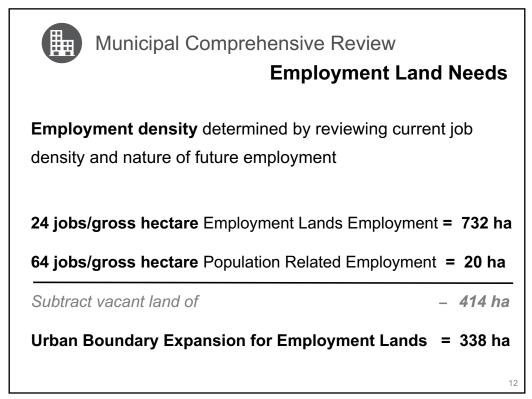


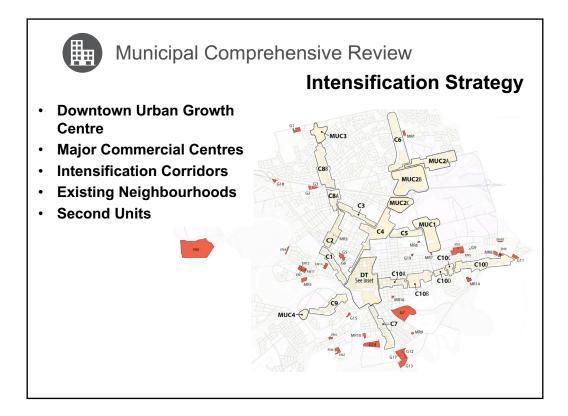
Employment Land Needs

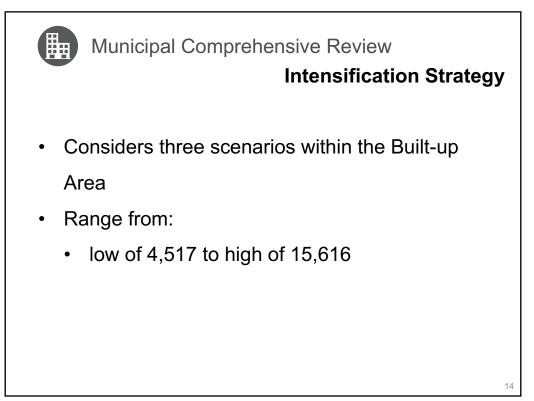
- Three categorizes of employment:
 - 1. Employment Lands Employment (ELE)
 - Focused on employment areas
 - 2. Population-Related Employment (PRE)
 - In existing and new neighbourhoods
 - Small portion to employment areas
 - 3. Major Office Employment (MOE)
 - Focused on the Downtown

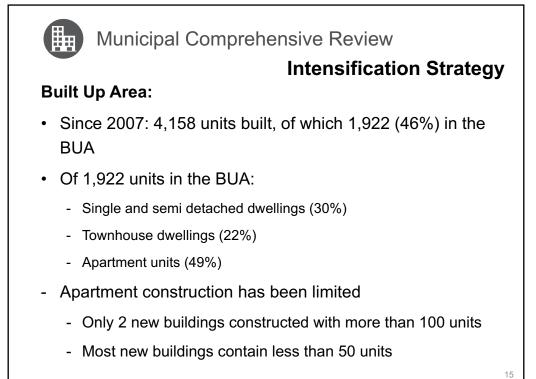


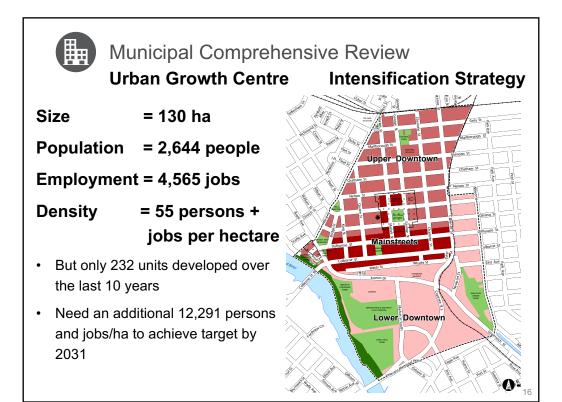


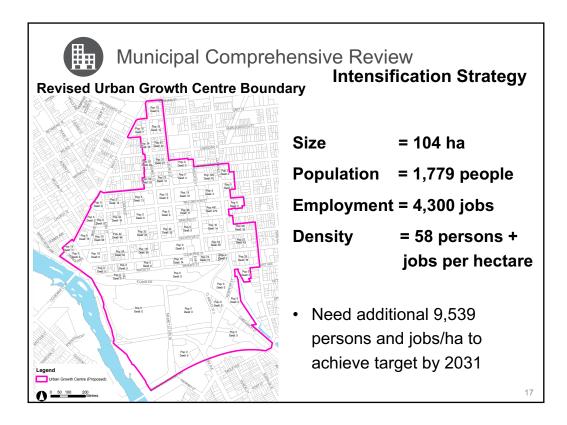










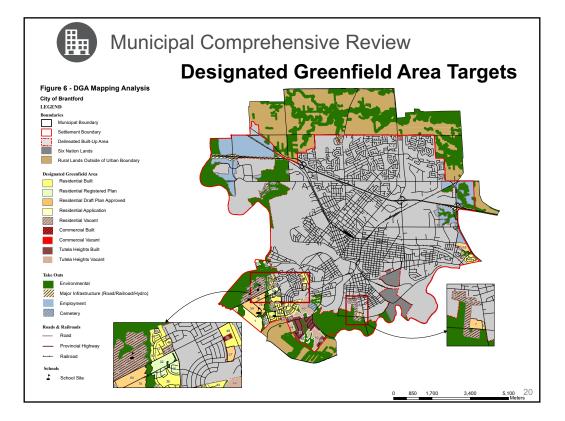




Municipal Comprehensive Review Intensification Strategy

- A reasonable distribution of units by type to the various geographical components of the Built-up Area would entail:
 - 650 single and semi-detached units in the existing neighbourhoods;
 - 1,250 second units in the existing neighbourhoods;
 - 800 townhouses in the existing neighbourhoods;
 - 1,000 student housing units;
 - 3,500 townhouse in the Intensification Corridors and major mixed use commercial sites;

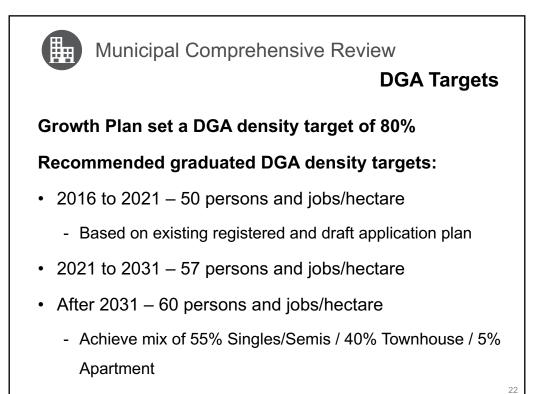
- 1,500 apartments in the Intensification Corridors and major mixed use commercial sites; and
- 3,800 apartments in the Downtown Urban Growth Centre.



Municipal Comprehensive Review

Intensification DGA Targets

- Existing DGA Density is only 40 persons and jobs per ha
- Current Approvals and Designations result in density of 45 persons and jobs/hectares
 - Based on mix of 73% Single/Semi / 25% Townhouse / 2% Apartment
- Increasing density on low density and requiring broader unit mix:
 - · Increases density to 54 persons and jobs/hectare
 - Based on mix of 64% Single/Semi / 35% Townhouse / 1% Apartment
 - Increases supply by nearly 800 units
 - Total supply 7,815 units in current Settlement Boundary
 - BUT significant infrastructure constraints



Municipal	Comprehens	sive Review
	•	

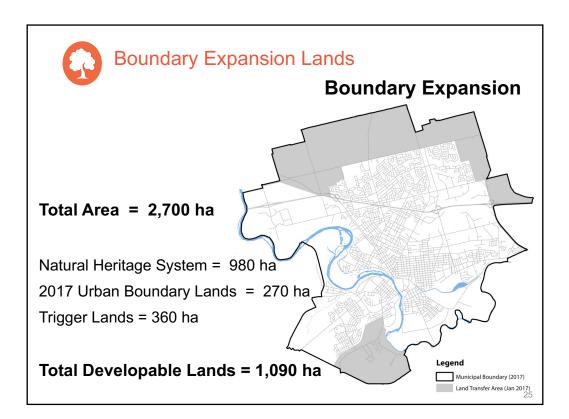
Community Area Land Needs

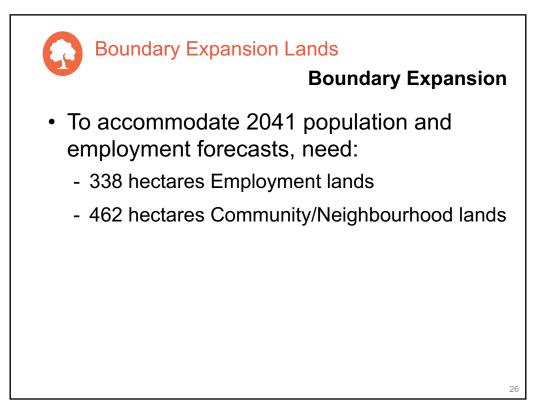
• Based on the 3 graduated densities:

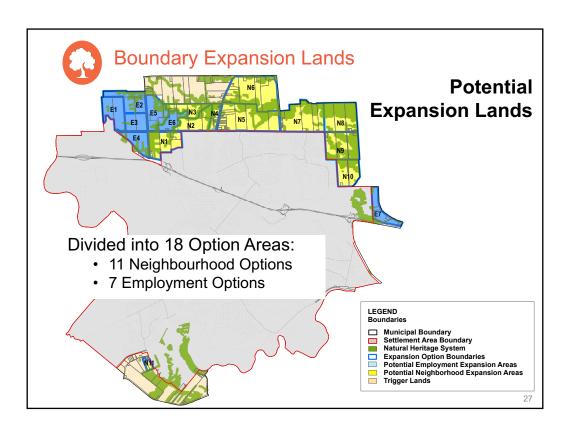
Time period	% DGA Growth	Units	Pop & Jobs	Density	Area (ha)
2016-2021	8%	1,125	4,100	50	82
2021-2031	55%	7,930	28,186	57	495
2031-2041	37%	5,315	18,962	60	316
Total	100%	14,370	51,248	-	893
Subtract ex	– 430 ha				
Land defic	;it				= 462 ha

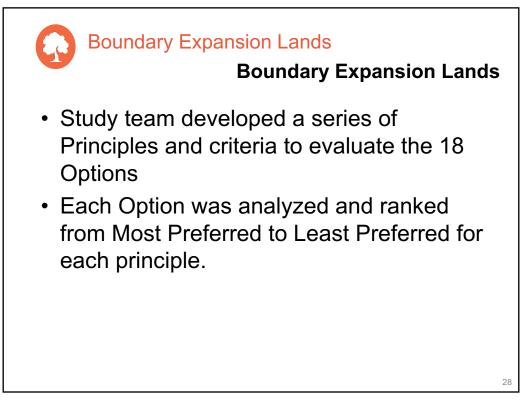
Presentation

Municipal Comprehensive Review – Boundary Expansion Lands











Boundary Expansion Lands

Agriculture

- Principle 1: To identify the better versus the poorer agricultural areas within each Option and to retain those better areas in agriculture as long as possible.
- Principle 2: To identify the better versus the poorer agricultural areas adjacent or near to the Options and to minimize impacts of non-agricultural uses proposed in the expansion area on the better agricultural areas identified.
- Principle 3: To avoid impacts on the agri-food network or if not possible, to minimize and mitigate impacts.

29

30

Boundary Expansion Lands

Boundary Expansion Lands

Archaeology

 Principle 1: To protect and avoid archaeological resources and areas of potential for the presence of archaeological resources, and where avoidance is not possible, to assess and mitigate the archaeological resources.

Boundary Expansion Lands

Boundary Expansion Lands

Transportation

- Principle 1: To ensure appropriate access and connectivity to new urban areas.
- Principle 2: To ensure appropriate transportation capacity is maintained.
- Principle 3: To balance transportation needs and provide choice for the travel needs of residents.
- Principle 4: To ensure transportation network continuity between existing and new areas.

Boundary Expansion Lands

Boundary Expansion Lands

Environment

- Principle 1: To protect, enhance and restore the Natural Heritage System (NHS) for the long-term along with existing linkage connections between the NHS and NHS features within the County of Brant and the existing urban area.
- Principle 2: To protect and enhance surface water quality/quantity including fish habitat.
- Principle 3: To protect and enhance the groundwater regime.
- Principle 4: To protect significant wildlife habitat features and functions including the habitat of species-at-risk.
- Principle 5: To protect stream channel and valleyland integrity, particularly in erosion prone systems.

Boundary Expansion Lands

Boundary Expansion Lands

Water/Wastewater Servicing

- Principle 1: To efficiently use existing and planned infrastructure and to minimize the complexity of extending the existing water and wastewater system to the expansion areas.
- Principle 2: To align future infrastructure with the Master Servicing Plan.
- Principle 3: To phase water and wastewater infrastructure logically and consecutively.
- Principle 4: To ensure the infrastructure is financially viable over the full life-cycle and the preferred serving solution considers the best life-cycle Options

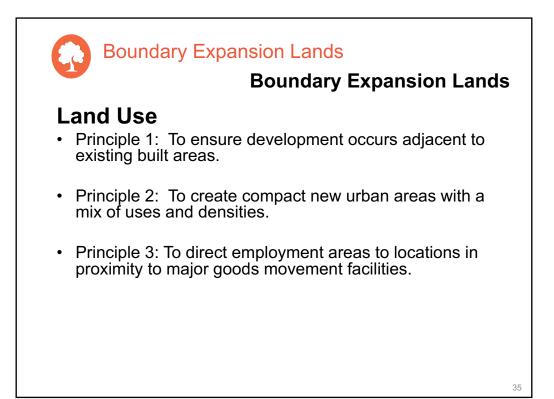
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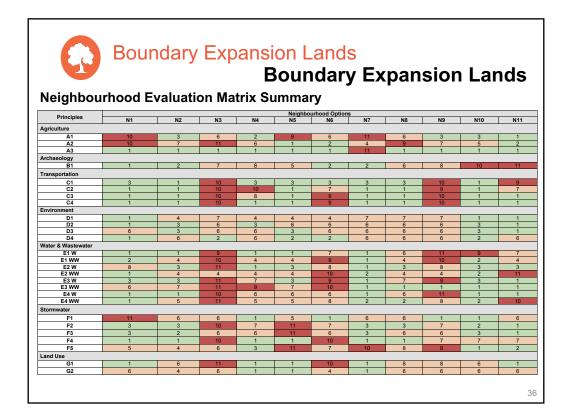
Boundary Expansion Lands

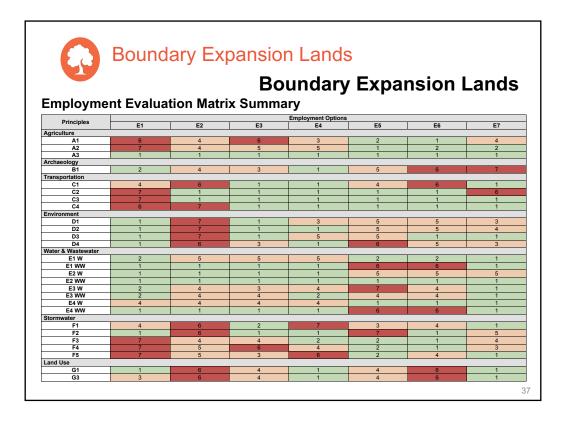
Boundary Expansion Lands

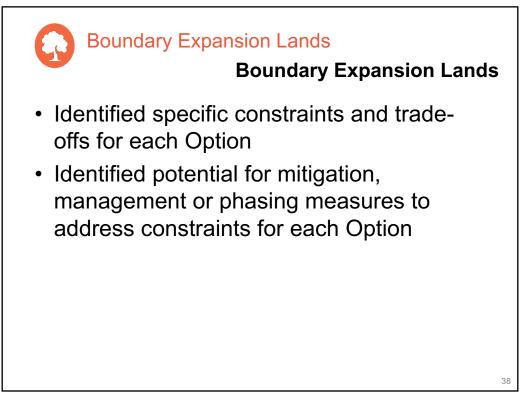
Stormwater

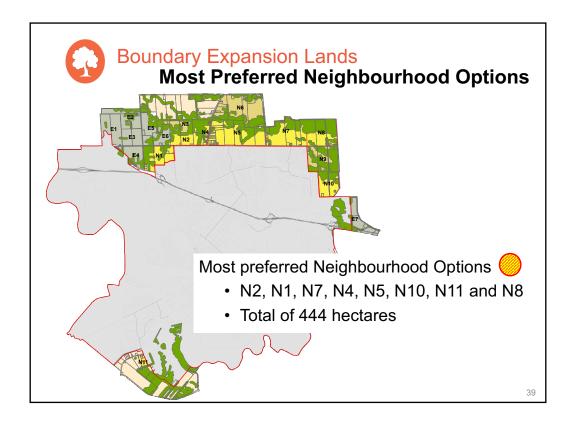
- Principle 1: To avoid key hydrologic areas where possible when determining the most appropriate location for settlement area boundary expansion.
- Principle 2: To minimize the impact on the water resource system by minimizing the relative complexity needed to complete local stormwater servicing.
- Principle 3: To minimize the impact on the water resource system by evaluating the existing downstream system capacity.
- Principle 4: To phase stormwater management infrastructure logically and consecutively.
- Principle 5: To ensure that the stormwater infrastructure is financially viability by minimizing the total project life-cycle cost to service the expansion areas.

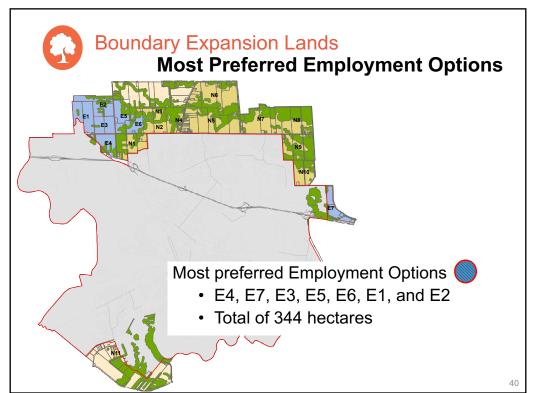




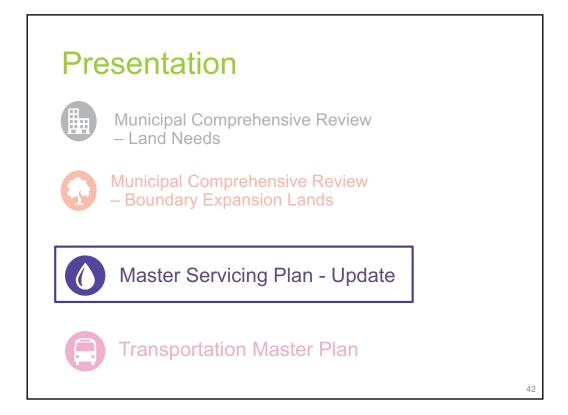


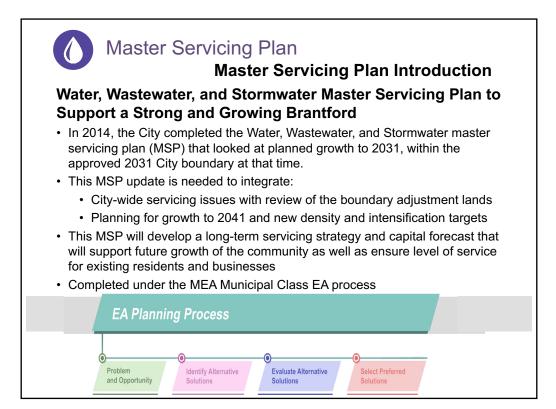


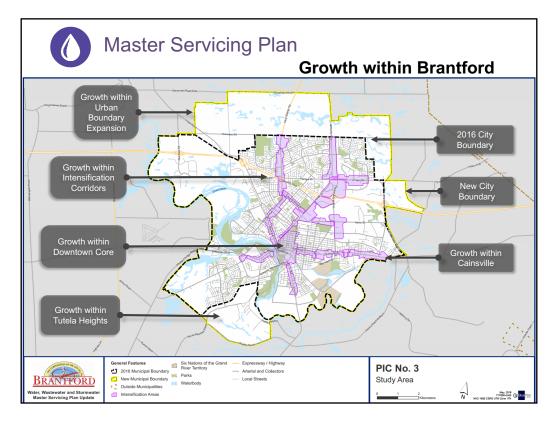


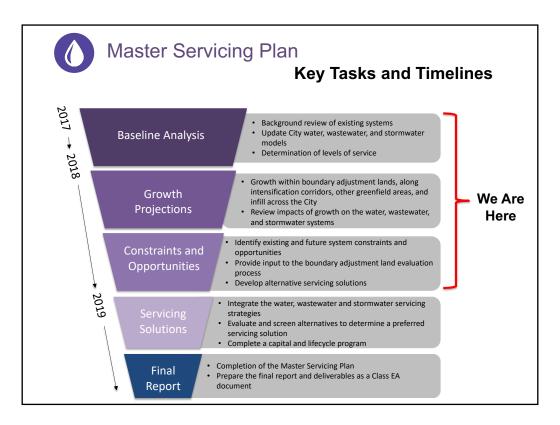


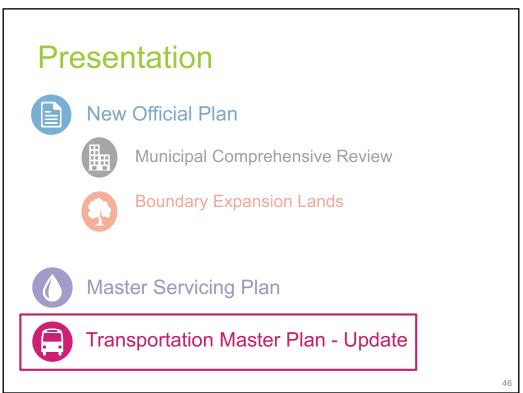


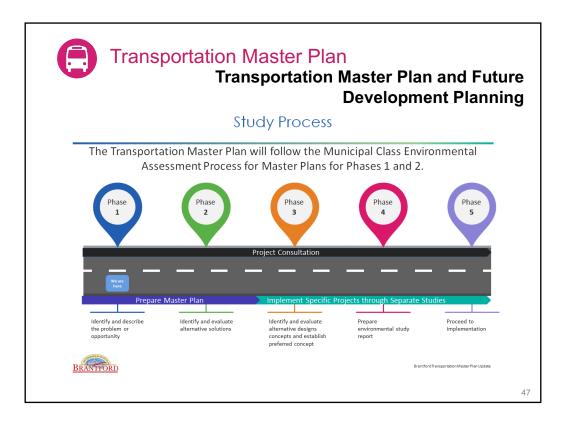


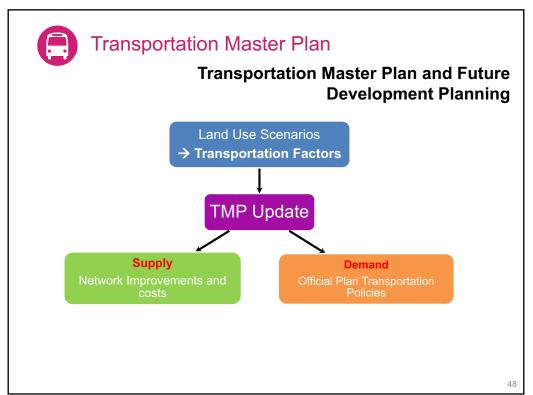


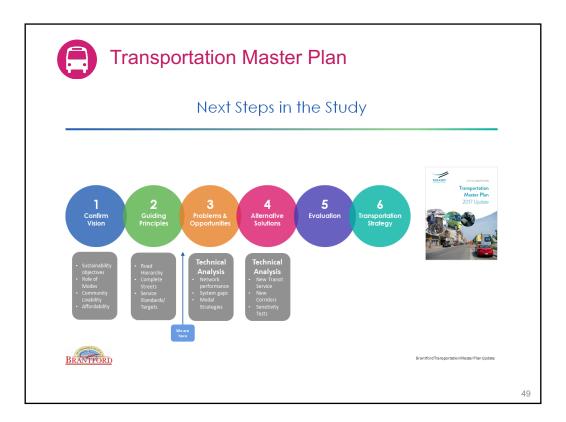












For more information

Master Servicing Plan

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City of Brantford

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Official Plan Update

City of Brantford

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Transportation Master Plan

Consulting Team

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City of Brantford

Evie Przybyla, MCIP, RPP Project Manager, Senior Transportation Project Manager yprzybyla@brantford.ca

JOIN THE CONVERSATION



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@CityofBrantford



City of Brantford

March 16 at 7:11am · 🚷

Calling all cycling enthusiasts! The City of #Brantford is pleased to be working with the Share the Road Cycling Coalition to host an interactive Bicycle Friendly Communities World Cafe on Thursday, April 5th, 6:30 - 8:30 pm at the Civic Centre Auditorium 69-79 Market St. South. Register today at bit.ly/2tRR8ER #BicycleFriendlyBrantford



Like

Comment



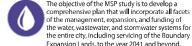
MASTER SERVICING PLAN TRANSPORTATION **MASTER PLAN**

ENVISIONING OUR CITY: 2041

Notice of Public Information Centre Water, Wastewater, and **Stormwater Master Servicing Plan and Transportation** Master Plan Updates

The City of Brantford is undertaking three studies to guide the City's future development through to 2041. The City's Official Plan, Master Servicing Plan, and Transportation Master Plan are being updated, and account for the Boundary Expansion Lands that were transferred from Brant County to the City on January 1, 2017

Master Servicing Plan Update (MSP) The objective of the MSP study is to develop a comprehensive plan that will incorporate all facets



the entire city, including servicing of the Boundary Expansion Lands, to the year 2041 and beyond. **Transportation Master Plan Update (TMP)**



The TMP study will provide a balanced strategy for the servicing and operation of important transpor-tation infrastructure within the entire City, including the Boundary Expansion Lands, for the next 25 years. The goal of this TMP is to ensure that the transportation system can accommodate growth and meet the needs of pedestrians, cyclists, transit users, goods movement, and automobiles.

The Master Servicing Plan and Transportation Master Plan Updates are being completed as separate Class EA studies in accordance with the requirements of the Municipal Engineers Association (MEA) Class Environmental Assessment (EA) process for master planning (MEA, June 2000, as amended in 2007 and 2011). The studies are being undertaken based on Phases 1 and 2 of the Class EA processes for Master Plans.

We Want to Hear From You

What should the City of Brantford look like in 2041? The decisions we make as a community today will shape our City's future tomorrow. At our last Public Information Centre (PIC) in October 2019, we presented how much growth we target to accommodate through intensification and development of remaining vacant land in the existing Settlement Area. At our next PIC, we will present the opportunities and constraints associated with meeting this growth using existing transporta-tion and servicing infrastructure. Where transportation and servicing constraints are identified, we will identify infrastructure/ strategy improvement opportunities to meet these challenges in the future and answer any questions you may have.

Join us on

Monday, February 10, 2020 6:30 p.m. to 8:00 p.m.

Brantford and District Civic Centre Auditorium, 69 Market St. S., Brantford

A series of PICs will be held to provide information about the studies, gather input and receive feedback from the public. If you wish to submit comments or would like to be added to the project mailing list, please contact:

MASTER SERVICING PLAN brantford.ca/MasterServicingPlan

Diancioru.ca/ivic
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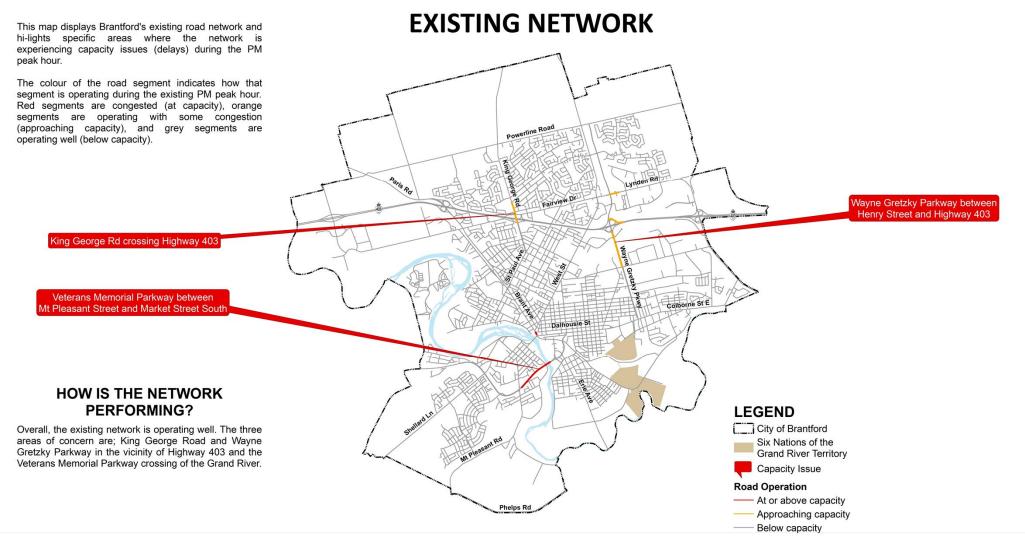
Sharon Anderson, P.Eng Project Manager, Asset Management Specialist, 100 Wellington Square, Brantford, ON N3T 2M2 Phone: 519-759-4150 ext. 5412 Email: andersonsh@brantford.ca

TRANSPORTATION MASTER PLAN brantford.ca/TransportationMasterPlan

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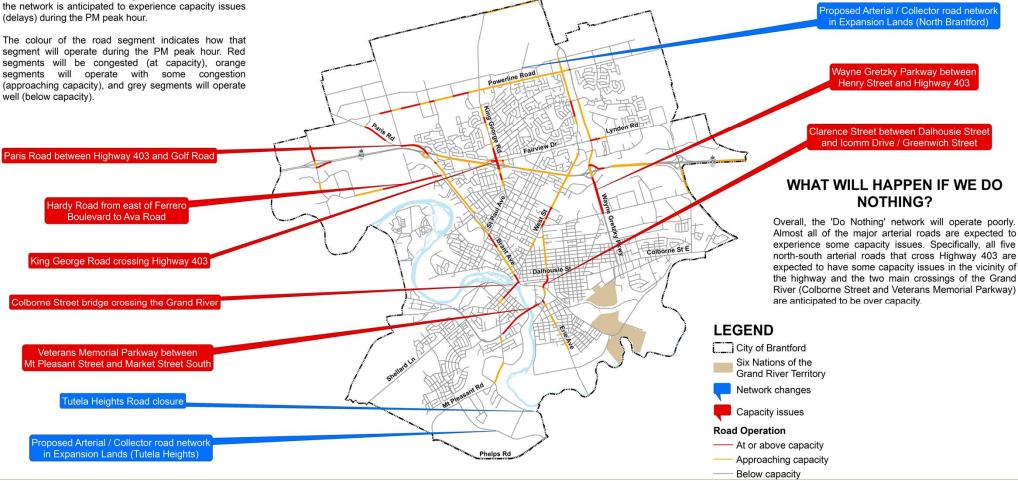




Brantford MSP & TMP Updates

This map displays Brantford's existing road network, including short term committed improvements, under 2041 traffic conditions. It hi-lights specific areas where the network is anticipated to experience capacity issues (delays) during the PM peak hour.

DO NOTHING NETWORK





This map displays Brantford's 'INCREASED INFRASTRUCTURE' road network, including short term committed improvements, under 2041 traffic conditions. It hi-lights specific areas where the network is anticipated to experience capacity issues (delays) during the PM peak hour.

The colour of the road segment indicates how that segment will operate during the PM peak hour. Red segments will be congested (at capacity), orange segments will operate with some congestion (approaching capacity), and grey segments will operate well (below capacity).

Paris Road between Highway 403 and Golf Road

Oak Park Road Widening

4 lanes – Highway 403 to Hardy Road)

Oak Park Road Extension

4 Lanes – Hardy Road to Colborne Street)

Colborne Street bridge crossing the Grand River

Veterans Memorial Parkway between

Colborne Street West between

Oak Park Road and D'Aubigny Road

Veterans Memorial Parkway Widening

4 lanes – Mount Pleasant Street to Erie Avenue)

utela Heights Road closure

roposed Arterial / Collector road network

in Expansion Lands (Tutela Heights)

Mt Pleasant Street and Market Street South

INCREASED NETWORK INFRASTRUCTURE

Fairview Dr

Dalhousie St

LEGEND

City of Brantford

Six Nations of the

Network changes

Capacity issues

Below capacity

- At or above capacity

Approaching capacity

Road Operation

Grand River Territory

WHAT INFRASTRUCTURE?

The 2014 Transportation Master Plan outlined a series of infrastructure projects that would be necessary to accommodate the anticipated population and employment growth to 2031. They include the addition of new roads and the widening of existing roads.

Proposed Arterial / Collector road network in Expansion Lands (North Brantford)

King George Road crossing Highway 403

Wayne Gretzky Parkway Widening 6 Lane – Lynden Road to Colborne Street)

Charing Cross Extension (4 Lanes – West Street to Henry Street)

Clarence Street between Dalhousie Street and the signalized entrance to Brantford Commons

WHAT WILL HAPPEN IF WE INCREASE NETWORK INFRASTRUCTURE?

The 'INCREASED INFRASTRUCTURE' network will operate favorably. A few notable network improvements include a reduction in congestion along Hardy Road and Brant Avenue as a result of the Oak Park Road widening and extension and the elimination of congestion on Wayne Gretzky Parkway (Lynden Road to Colborne Street) as a result of a widening to 6 lanes. However, it should also be noted that the two main crossings of the Grand River (Colborne Street and Veterans Memorial Parkway) are still anticipated to be over capacity even with the widening of Veterans Memorial Parkway (Mount Pleasant to Erie Avenue) to 4 lanes. The additional capacity on Veterans Memorial Parkway attracts vehicles that were previously avoiding this river crossing (and using Erie Avenue) as a result of the congestion.



Phelps Rd

Brantford MSP & TMP Updates 3

This map displays Brantford's 'MANAGE TRAVEL DEMAND' road network, including short term committed improvements, under 2041 traffic conditions. Emphasis has been placed on reducing the number of vehicles using the network. It hi-lights specific areas where the network is anticipated to experience capacity issues (delays) during the PM peak hour.

The colour of the road segment indicates how that segment will operate during the PM peak hour. Red segments will be congested (at capacity), orange segments will operate with some congestion (approaching capacity), and grey segments will operate

WHAT IS TDM?

TDM or Transportation Demand Management is the application of strategies and policies to reduce travel demand, or to redistribute this demand in space or time.

Specific to the 'MANAGE TRAVEL DEMAND' network. additional active transportation facilities will be created and transit service will be enhanced. This will increase in the percentage of walking, cycling, and transit trips, while decreasing the percentage of driving trips.



MANAGE TRAVEL DEMAND

Poad Powerline

Fairview

Dalhousi

Colborne St I

LEGEND

City of Brantford

Six Nations of the

Network changes

At or above capacity

Below capacity

Capacity issues

Road Operation

roposed Arterial / Collector road network in Expansion Lands (North Brantford)

Memorial Drive Road Diet North Park Street to Powerline Road)

Fairview Road Road Diet King George Road to West Street

North Park Street Road Diet Waddington Street to Memorial Drive)

Wayne Gretzky Parkway between Henry Street and Highway 403

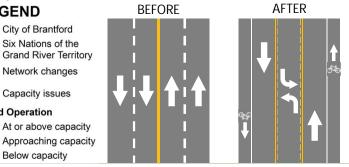
Clarence Street between Dalhousie Street and Icomm Drive / Greenwich Street

Colborne Street Road Diet Wayne Gretzky Parkway to Garden Avenue)

WHAT IS A ROAD DIET?

A road diet is when one or more vehicle lanes are removed from a roadway and repurposed for a different use to introduce a systematic improvement. The improvements may take many forms, including reducing overall vehicle speeds to improve safety, introducing additional parking, and providing infrastructure for cyclists and/or pedestrians.

Brantford Example: North Park Street between St George Street and Waddington Street



Phelps Rd

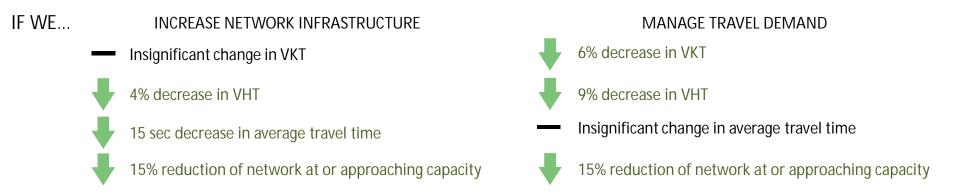
Brantford MSP & TMP Updates

Network Performance Measures

Scenario	2018 Existing	2041 "Do Nothing"	2041 Increased Network Infrastructure	2041 Manage Travel Demand	VEHICLE KILOMETRES TRAVELLED (VK The total kilometers travelled by all vehicles in the network during the PM
VKT (km)	143,900	258,500	260,200	243,700	peak hour.
VHT (hours)	2230	4790	4590	4360	
Average Travel Time (minutes:seconds)	04:22	05:56	05:41	05:55	VEHICLE HOURS TRAVELLED (VHT) The total time spent travelling by all vehicles in the network during the PM
Percent of network at or approaching capacity	0.44%	6.08%	5.16%	5.15%	peak hour.

WHAT DOES THIS MEAN?

With population growth, there will be an increase in demand on the road network. This means an increase in VKT, VHT, average travel time, and the percent of the network that is at or approaching capacity. However, increasing network infrastructure and managing travel demand will help accommodate the additional demand.



Increasing Network Infrastructure (increasing supply) and Managing Travel Demand (decreasing demand) are on the opposite ends of the spectrum when managing the performance of a transportation network. The ultimate solution will likely be a hybrid of the two scenarios.





CITY OF BRANTFORD **MASTER SERVICING PLAN TRANSPORTATION MASTER PLAN** ENVISIONING OUR CITY: 2041

Notice of Public Information Centre

Water, Wastewater, and Stormwater Master Servicing Plan and Transportation Master Plan Updates

The City of Brantford is undertaking three studies to guide the City's future development through to 2041. The City's Official Plan, Master Servicing Plan, and Transportation Master Plan are being updated, and account for the Boundary Expansion Lands that were transferred from Brant County to the City on January 1, 2017.

Master Servicing Plan Update (MSP)

The objective of the MSP study is to develop a comprehensive plan that will incorporate all facets of the management, expansion, and funding of the water, wastewater, and stormwater systems for the entire city, including servicing of the Boundary Expansion Lands, to the year 2041 and beyond.

Transportation Master Plan Update (TMP)



The TMP study will provide a balanced strategy for the servicing and operation of important transportation infrastructure within the entire City, including the Boundary Expansion Lands, for the next 25 years. The goal of this TMP is to ensure that the transportation system can accommodate growth and meet the needs of pedestrians, cyclists, transit users, goods movement, and automobiles.

The Master Servicing Plan and Transportation Master Plan Updates are being completed as separate Class EA studies in accordance with the requirements of the Municipal Engineers Association (MEA) Class Environmental Assessment (EA) process for master planning (MEA, June 2000, as amended in 2007, 2011 and 2015). The studies are being undertaken based on Phases 1 and 2 of the Class EA processes for Master Plans.

We Want to Hear from You!

What should the City of Brantford look like in 2041? The decisions we make as a community today will shape our City's future tomorrow. At our last Public Information Centre (PIC) in February 2020, we presented the opportunities and constraints associated with meeting the growth targeted in the City's Official Plan using existing transportation and servicing infrastructure. Where transportation and servicing constraints were identified, infrastructure/strategy improvement opportunities to meet these challenges in the future were presented.

At our next PIC, we will present the draft preferred short and long term strategy for a multi-modal transportation plan for the TMP and for a city wide master servicing plan for the MSP. It will also present high level cost comparisons and a draft implementation plan for the preferred solution and answer any questions you may have.

In response to the COVID-19 situation, this PIC will be held as a virtual PIC. All content and instructions on how to submit questions will be posted on the project webpages: www.brantford.ca/MasterServicingPlan www.brantford.ca/TransportationMasterPlan

PIC Boards and a video walkthrough of their content will be posted on Tuesday, June 9, 2020 at **3:00 p.m.** This will be followed by a two week question submission period closing June 23, 2020. A question and answers video will be posted on Tuesday, June 30, 2020 at 3:00 p.m. This will be followed by a three week question submission period, closing July 21, 2020. A Frequently Asked Questions (FAQ) document being posted on Tuesday, July 28, 2020 at 3:00 p.m.

If you wish to submit comments or would like to be added to the project mailing list, please contact:

Master Servicing Plan	Transportation Master Plan
Julien Bell, P.Eng.	Paul Bumstead, B.E.S.
Consultant Project Manager	Consultant Project Manager
GM BluePlan	Dillon Consulting Limited
330 Trillium Drive, Unit D	235 Yorkland Boulevard, Suite 800
Kitchener, ON N2E 3J2	Toronto ON M2J 4Y8
Phone: 519-748-1440 ext. 4264	Phone: 905-260-4887
Email: julien.bell@gmblueplan.ca	Email: pbumstead@dillon.ca
Sharon Anderson, P.Eng.	Chris Fong, P. Eng.
MSP Project Manager	TMP Project Manager
100 Wellington Square	100 Wellington Square
Brantford, ON N3T 2M2	Brantford, ON N3T 2M2
Phone: 519-759-4150 ext. 5412	Phone: 519-759-4150 ext. 5630
Email: andersonsh@brantford.ca	Email: cfong@brantford.ca

Information will be collected in accordance with the Municipal Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

JOIN THE **CONVERSATION**



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Virtual Public Information Center #4 June 9, 2020 & June 30, 2020



Brantford MSP & TMP Updates

Welcome

Why Are We Here?

- The City is updating the 2014 Water, Wastewater and Stormwater Master Servicing Plan (MSP) and the 2014 Transportation Master Plan (TMP)
- These updates will develop long term servicing and transportation strategies to ensure the maintenance of services for existing residents and business as well as support future growth of the community
- This Virtual Public Information Centre is presenting the preferred future network recommendations for:
 - Public Transit Strategy
 - Active Transportation System (cycling and walking)
 - Roadway Network Infrastructure
 - Water Servicing
 - Wastewater Servicing
 - Stormwater Servicing

We Need Your Help!

- Review the content
- Ask questions
- Provide comments



In response to the advice of public health officials to limit in-person gatherings due to COVID-19, this Virtual Public Information Centre (PIC) has been developed. Through this Virtual PIC, you will be able to learn more about the Master Servicing Plan and Transportation Master Plan projects and provide comments on the study findings.

Virtual PIC Process

- June 9 at 3:00 p.m. PIC Boards and a video walkthrough of their content will be posted
- June 9 June 23 First question and comment submission period
- June 30 at 3:00 p.m. A question and answers video will be posted
- June 30 July 21 Second question and comments submission period
- July 28 at 3:00 p.m. A Frequently Asked Questions (FAQ) document will be posted

In accordance with the Municipal Freedom of Information and Privacy Protection Act, no personal information will be included with the responses presented on the project website and all comments will become part of the public record.

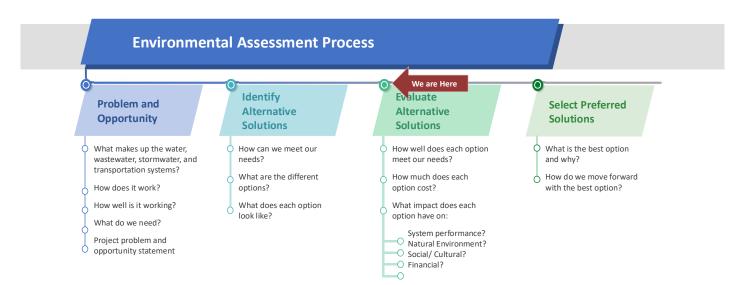


TMP PIC #4 – June 2020

Brantford MSP & TMP Updates
3

Municipal Class EA Process

The Water, Wastewater, and Stormwater Master Servicing Plan Update and Transportation Master Plan Update involve the completion of Phases 1 and 2 of the MEA Municipal Class Environmental Assessment (EA) process



The study follows the Master Plan process as outlined in Section A.2.7 of the Municipal Engineers Association (MEA) Municipal Class Environmental Assessment (Oct 2000, as amended in 2007, 2011, and 2015).



Public Consultation Centre Purpose

To present preferred future transportation network recommendations for:

- Public Transit Strategy
- Active Transportation System (cycling and walking)
- Roadway Network Infrastructure

Consultation to Date

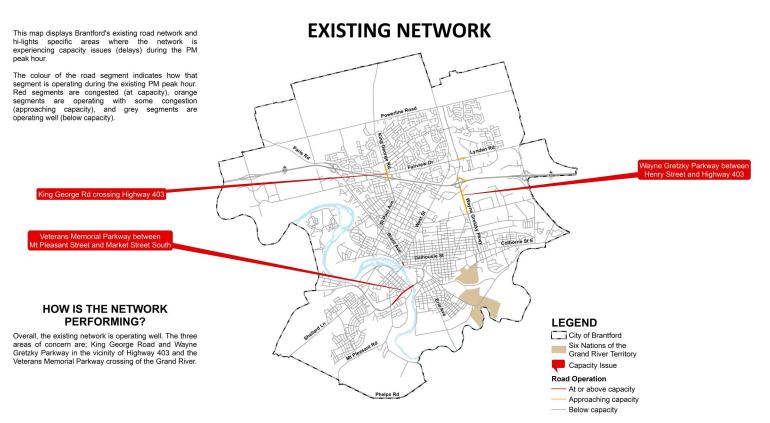
- Study Commencement October 19th and 26th, 2017
- Public Meeting #1: Envisioning Our City: 2041 November 16th, 2017
- Active Transportation Workshop April 5th, 2018
- Public Meeting #2: Foundations and Strategies May 17th, 2018
- Public Meeting #3: Constraints and Opportunities February 10th, 2020



TMP PIC #4 – June 2020

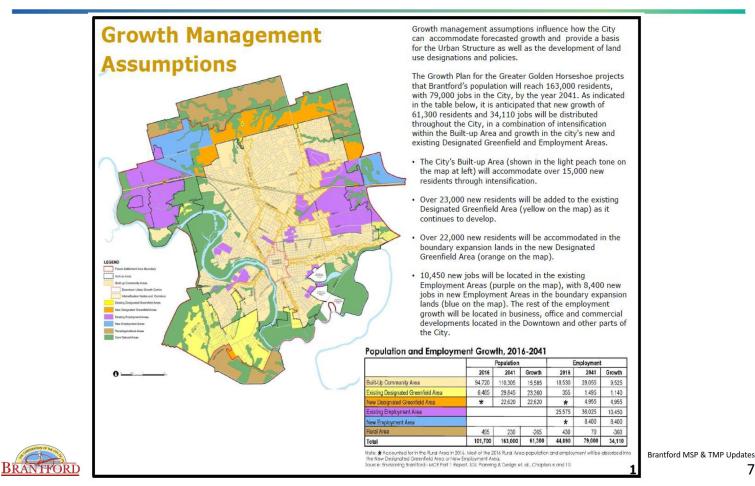
Brantford MSP & TMP Updates

2018 Network Performance





Growth Management Assumptions

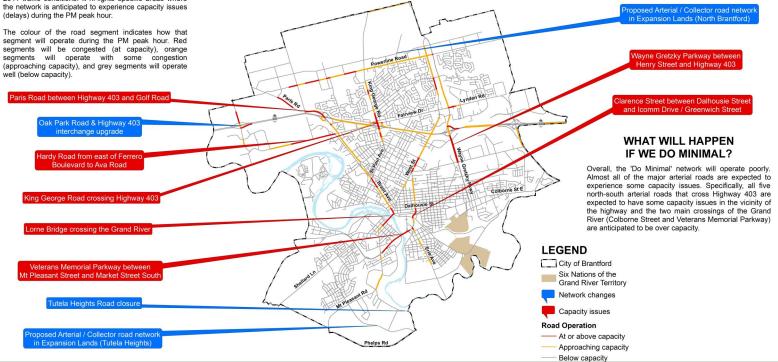


2041 Network Performance

This map displays Brantford's existing road network, including short term committed improvements, under 2041 traffic conditions. It hi-lights specific areas where the network is anticipated to experience capacity issues

well (below capacity).

DO MINIMAL NETWORK





7 1

Alternative Strategies to Address Network Needs

• Travel Demand Management (TDM)

- Modify travel behaviour time of travel, land use characteristics
- Reduce vehicle use provide improved programs, services and facilities for other modes
- Examples: increased transit, increased cycle, increased walk mode, ride share opportunities
- Transportation System Management (TSM)
 - Optimize infrastructure efficiency to improve performance and improve safety for all modes
 - Re-allocation of space within right of way
 - Use of technology
 - Examples: signal coordination, auxiliary turning lanes, turn restrictions
- Increase the supply of transportation infrastructure
 - Expand existing infrastructure, e.g. widen road
 - Add new infrastructure, e.g. new road, extend existing road



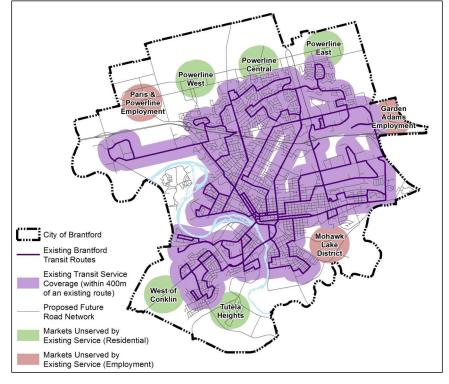
TMP PIC #4 – June 2020

Brantford MSP & TMP Updates 9

Transit Opportunities - Approach

- Assess existing transit system coverage
- Review existing mode splits to transit for traffic zones
- Set appropriate targets for land use type and density, and in consideration of available transit
- Apply targets to 2041 trip ends
- Adjust total travel demands for vehicles
- Assign transit trips to enhanced/expanded transit service coverage
- Outcome:
 - Overall system improvement in transit use results in reduction of vehicle trips
 - Corridor transit use increase
- Increase in transit use increase results in auto trip reduction.
- Capacity analysis reassessed using reduced auto demand scenario (TDM).

Existing Transit System Coverage and Future Market Opportunities





Transit Opportunities

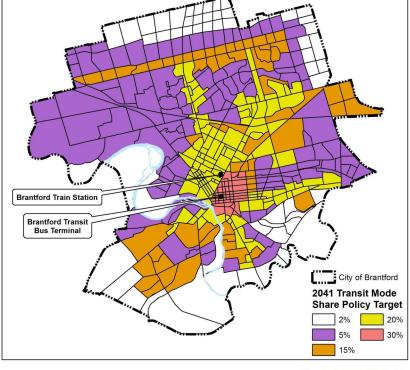
Transit Mode Share – City Wide

- 2016 2.7%
- 2041 Trend 2.2%
- 2041 TDM Max 5.9%

Achieving more than doubling of transit mode share requires extension of service into developing areas and increasing service frequency in key corridors.

Significant investment required to achieve target mode split.

	Transit Trips by Route: PM Peak Period	2016	2041 "Do Min"	2041 "TDM Max"
Route 1	Eagle Place	228	357	1,090
Route 2	West Street/Brier Park	409	514	1,338
Route 4	Mall Link (4A)	372	485	1,345
Route 4	Mall Link (4C)	318	426	1,151
Route 5	West Brant/Oakhill	116	152	563
Route 6	West Brant/Shellard	215	433	1,782
Route 7	East Ward/Braneida	280	405	990
Route 8	Holmedale/Mayfair	239	451	1,855
Route 9	Echo Place	349	519	1,811
Route 100	Powerline	-	-	914
	TOTAL	2,526	3,743	12,838



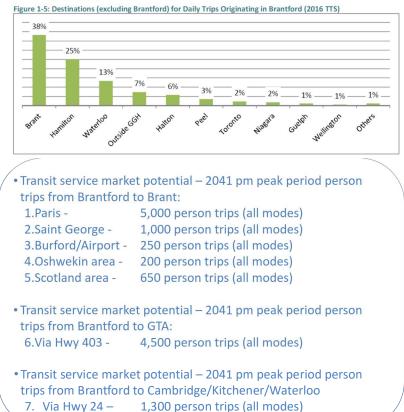
BRANIFORD

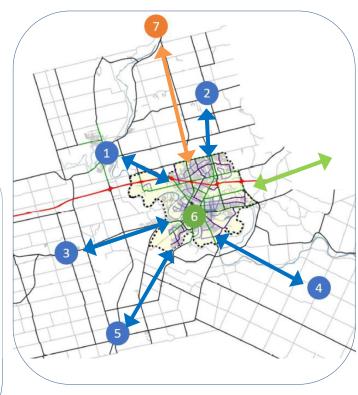
TMP PIC #4 – June 2020

Brantford MSP & TMP Updates

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Transit Opportunities – Partnership Opportunities



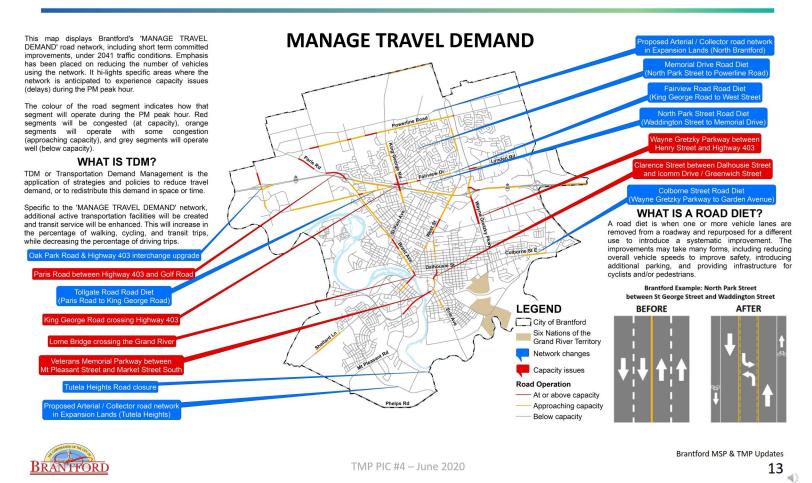




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2041 Transit Mode Split – Zone Policy Targets

2041 Network Performance



2041 Network Performance

'INCREASED Brantford's displays This map INFRASTRUCTURE' road network, including short term committed improvements, under 2041 traffic conditions. anticipated to experience capacity issues (delays) during

INCREASED NETWORK INFRASTRUCTURE

The 2014 Transportation Master Plan outlined a series of infrastructure projects that would be necessary to accommodate the anticipated population and It hi-lights specific areas where the network is employment growth to 2031. They include the addition of new roads and the widening of existing roads. the PM peak hour. The colour of the road segment indicates how that segment will operate during the PM peak hour. Red segments will be congested (at capacity), orange segments will operate with some congestion ansion Lands (North E (approaching capacity), and grey segments will operate well (below capacity). Paris Road between Highway 403 and Golf Road et Street to Henr e signalized entrance to Brantford Com Road Exte WHAT WILL HAPPEN IF WE **INCREASE NETWORK** e Bridge crossing the Grand F **INFRASTRUCTURE?** The 'INCREASED INFRASTRUCTURE' network will operate favorably. A few notable network improvements include a reduction in congestion along Hardy Road and Brant Avenue as a result of sant Street and Market Street Sc LEGEND the Oak Park Road widening and extension and the elimination of congestion on Wayne Gretzky Parkway (Lynden Road to Colborne Street) as a Colborne Street West between ak Park Road and D'Aubigny Road City of Brantford Six Nations of the Grand River Territory result of a widening to 6 lanes. However, it should also be noted that the two main crossings of the Grand River (Colborne Street and Veterans Veterans Memorial Parkway Widening hes – Mount Pleasant Street to Erie Avenu Network changes Grand River (Colborne Street and Veterans Memorial Parkway) are still anticipated to be over capacity even with the widening of Veterans Memorial Parkway (Mount Pleasant to Erie Avenue) to 4 lanes. The additional capacity on Veterans Memorial Parkway attracts vehicles that were previously avoiding this river crossing (and using Erie Avenue) as a result of the congestion. Tutela Heights Road closure Capacity issues Road Operation At or above capacity nal / Collector road netwo Approaching capacity Below capacity



WHAT INFRASTRUCTURE?

Constraints and Opportunities – Assessment Approach

Problem Identification

- Based on 2041 Do Minimal Alternative
- Identify system problems through application of strategic transportation model – demands on network
- Network Performance Volume to Capacity assessment p.m. peak hour

Assessment

- Assess Travel Patterns select link analysis to identify origins and destinations for all auto trips using specific links
- Identify impacts of alternative strategies on corridor/link performance
- Identify preferred alternative to address deficiency on link/in corridor
- Assess total system performance once preferred alternative identified for each corridor

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TMP PIC #4 – June 2020

Evaluation

- High level screening of mitigation opportunities to address stated problem.
- Based on impacts on performance (benefits) and impacts of implementation (disadvantages), decision made as to appropriateness for long term plan.
- Example evaluation table:

Travel Demand Management	\checkmark
Transportation System Management	~
Road Widening	X
New Road	\checkmark

✓ Carry Forward

- ✓ Not Preferred But Protect Long Term
- × Not Carried Forward

Brantford MSP & TMP Updates

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Constraints and Opportunities – Inter-Regional



PM Peak Hour



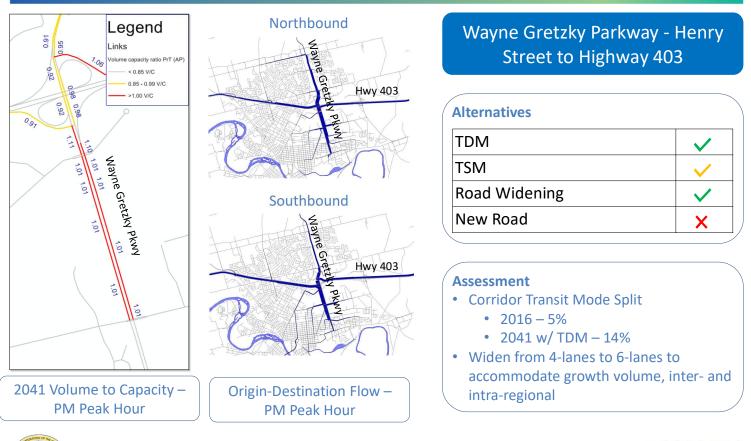
Origin-Destination Flow – PM Peak Hour

Brant Avenue - St Paul Avenue to Colborne Street

AlternativesTDMTSMRoad WideningXNew Road

- Corridor Transit Mode Split
 - 2016 9%
 - 2041 w/ TDM 26%
- Oak Park Road Extension potential to divert 300-500 peak hour vehicles



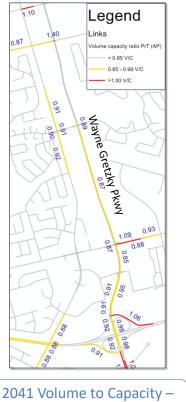




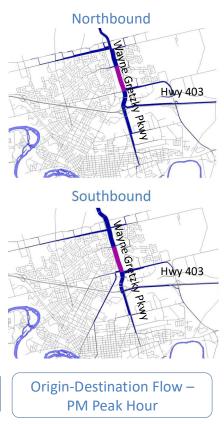


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Constraints and Opportunities – Inter-Regional



PM Peak Hour

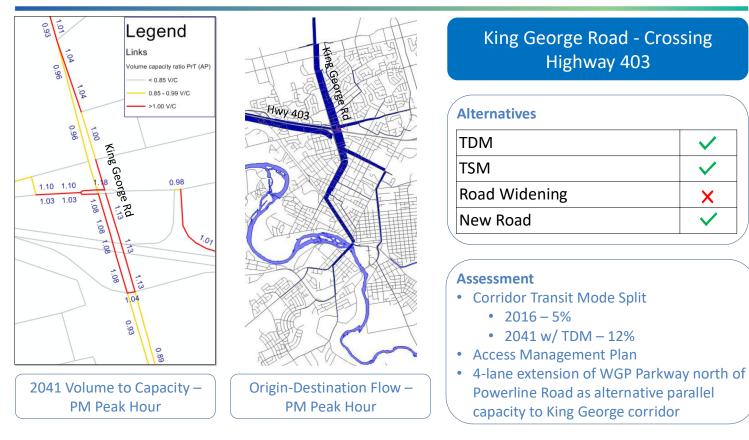


Wayne Gretzky Parkway - North of Highway 403

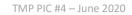
Alternatives	
TDM	 ✓
TSM	 ✓
Road Widening	 ✓
New Road	X

- Corridor Transit Mode Split
 - 2016 0% (WGP north of Fairview / Lynden)
 - 2041 w/ TDM 8%
- Provide an additional lane in each direction between Lynden Road and the E-NS ramp terminal and the N-W direct ramp



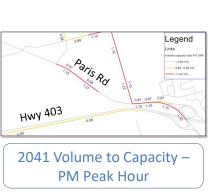






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Constraints and Opportunities – Inter-Regional



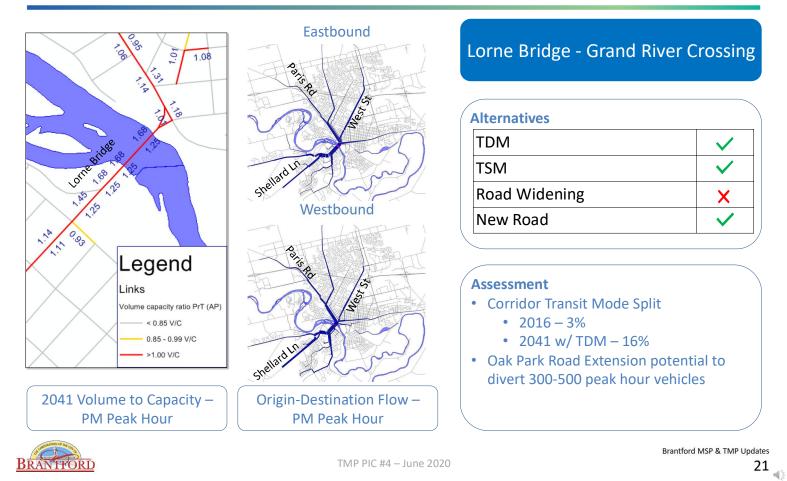


Paris Road - Highway 403 to Powerline Road

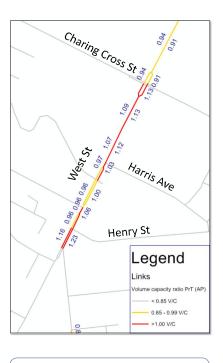
Alternatives TDM	
	· · ·
TSM	✓
Road Widening	✓
New Road	

- Corridor Transit Mode Split
 - 2016 0% (no transit route)
 - 2041 w/ TDM 25%
- Widen to 4-lanes Golf Road to Oak Park Road to match with the current 4 lane configuration east of Golf Road
- Oak Park Road Extension potential to divert 250-300 peak hour vehicles

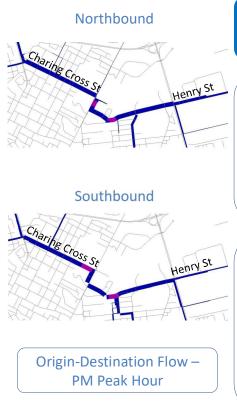








2041 Volume to Capacity – PM Peak Hour

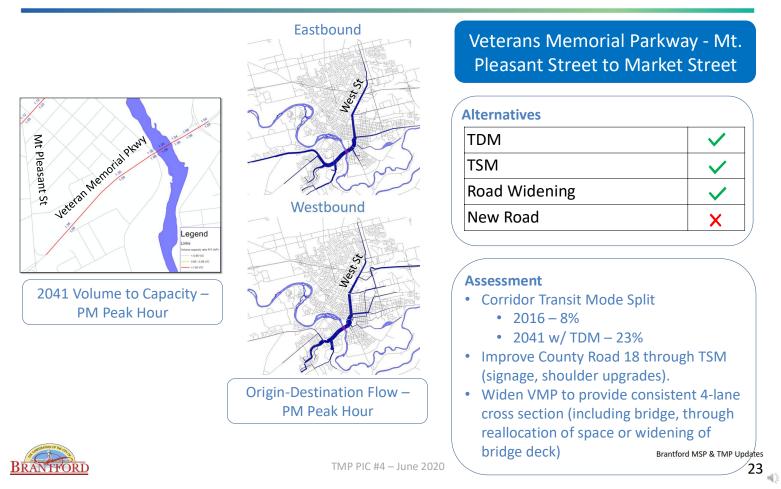


West Street - Charing Cross Street to Henry Street

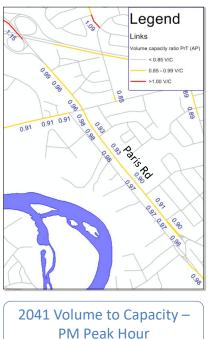
Alternatives	
TDM	 ✓
TSM	 ✓
Road Widening	×
New Road	 ✓

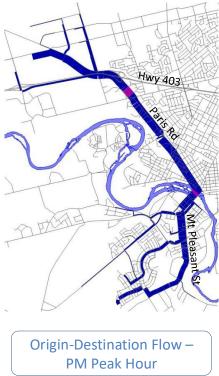
- Corridor Transit Mode Split
 2016 6%
 - 2041 w/ TDM 14%
- East-West capacity issue using West Street as parallel transfer (i.e. Charing Cross Street to Henry Street).
- Extend Charing Cross Street to Henry Street





Constraints and Opportunities – Intra-Regional





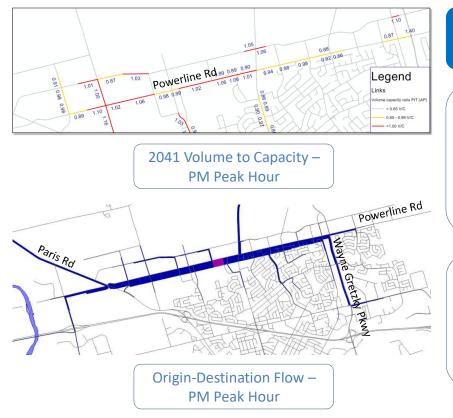
Paris Road - South of Highway 403

Alternatives

TDM	\checkmark
TSM	X
Road Widening	X
New Road	 ✓

- Corridor Transit Mode Split
 - 2016 12%
 - 2041 w/ TDM 40%
- Oak Park Road Extension potential to divert 300-500 peak hour vehicles





Powerline Road - Paris Road to Wayne Gretzky Parkway

Alternatives	
TDM	 ✓
TSM	X
Road Widening	 ✓
New Road	×

Assessment

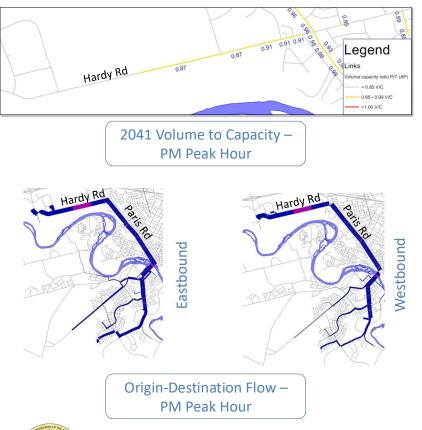
- Corridor Transit Mode Split
 - 2016 0%
 - 2041 w/ TDM 25%
- Widen Powerline road to urban 4-lane cross section

BRANTFORD

TMP PIC #4 – June 2020

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Constraints and Opportunities – Intra-Regional

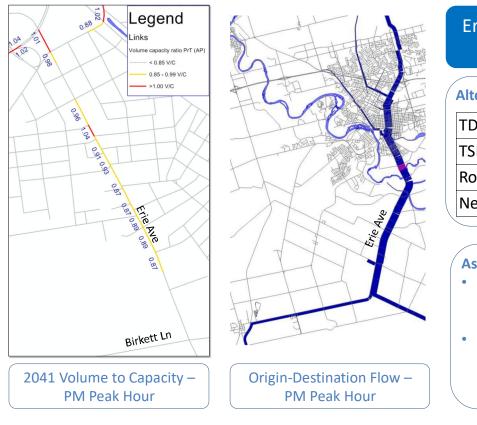


Hardy Road - Ferrero Boulevard to Paris Road

Alternatives	
TDM	 ✓
TSM	 ✓
Road Widening	×
New Road	 ✓

- Corridor Transit Mode Split
 - 2016 18%
 - 2041 w/ TDM 55%
- Oak Park Road Extension potential to divert 100 peak hour vehicles





Erie Avenue - Veterans Memorial Parkway to Birkett Lane

Alternatives	
TDM	✓
TSM	 ✓
Road Widening	X
New Road	×

Assessment

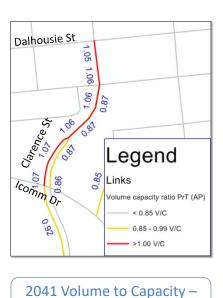
- Corridor Transit Mode Split
 - 2016 24%
 - 2041 w/ TDM 52%
- TSM measures (peak turning prohibitions, auxiliary lane provisions) at critical locations



TMP PIC #4 – June 2020

Brantford MSP & TMP Updates
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Constraints and Opportunities - Local Systems



PM Peak Hour

Origin-Destination Flow – PM Peak Hour

Clarence Street – Dalhousie Street to Icomm Drive

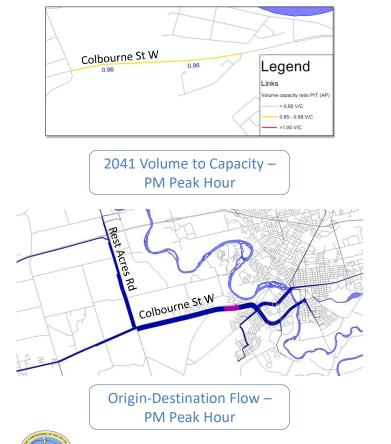
Alternatives	
TDM	 ✓
TSM	 ✓
Road Widening	×
New Road	 ✓

- Corridor Transit Mode Split
 - 2016 7%
 - 2041 w/ TDM 22%
- TSM measures (turning prohibitions, auxiliary lanes) at critical locations
- VMP Extension: opportunity to provide alternative route out of downtown via Murray Avenue or WGP





Constraints and Opportunities - Local Systems



Colbourne Street West – CR-7 to D'Aubigny Road

Alternatives	
TDM	 ✓
TSM	
Road Widening	 ✓
New Road	×

Assessment

Corridor Transit Mode Split

- 2016 0%
- 2041 w/ TDM 13%
- Provide additional eastbound lane

BRANIFORD

TMP PIC #4 – June 2020

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Active Transportation Opportunities

Complete Streets - WalkingCGOAL: Be a complete, pedestrian-friendly
community with networks that integrate
with transit, paths and trails,
neighbourhood amenities, parks, open
space, and schools.GOAL
routes
utilita
(perso
sportOBJECTIVES:
1. Facilities provide a high level of
pedestrian connectivity.
2. Walking environment is safe for users.
3. Pedestrian accessibility, comfort, andOBJECTIVES
COBJECTIVES:

 Pedestrian accessibility, comfort, and mobility levels support walking as a preferred mode.

Complete Streets - Cycling

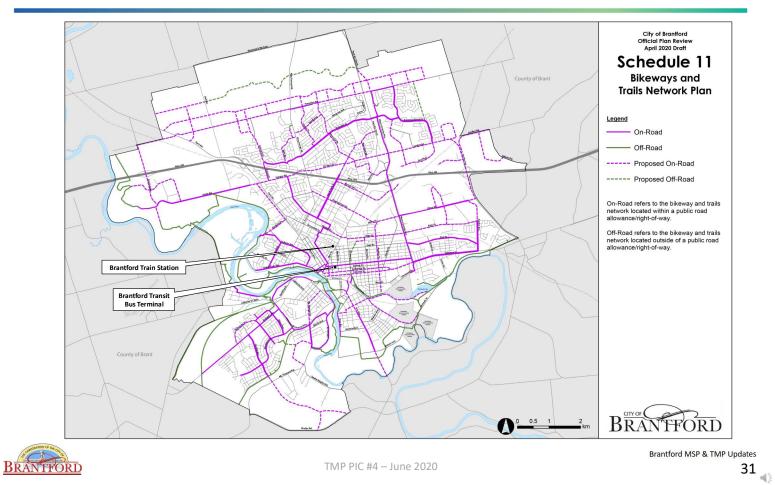
GOAL: Provide safe and convenient bicycle routes suitable for all user types: utilitarian (commuting), recreational (personal or family discretionary), and sport (advanced, high level recreational).

OBJECTIVES:

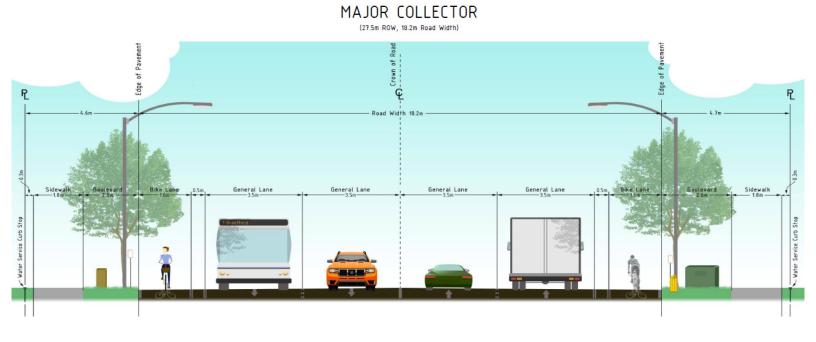
- 1. There is a continuous network of safe and direct bicycle routes.
- 2. There is an ability to navigate the bicycle network with ease.
- 3. End-of-trip facilities support cycling as a preferred mode of transportation.
- 4. The bicycling environment is safe.
- Provide unique and specific design environments appropriate for the different types of users



Active Transportation Opportunities



Active Transportation – Roadway Design - Collector

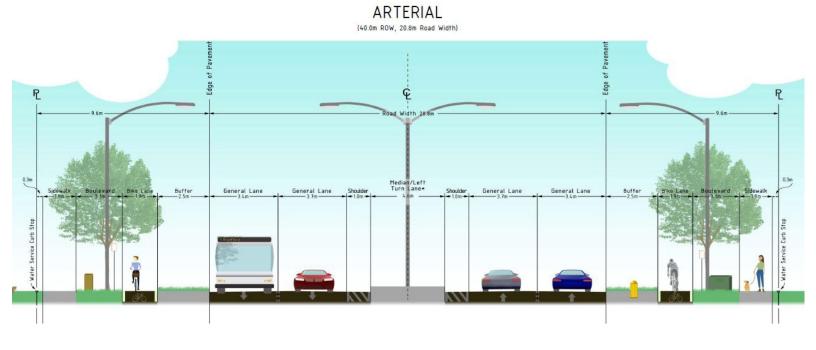




Active Transportation – Roadway Design - Collector



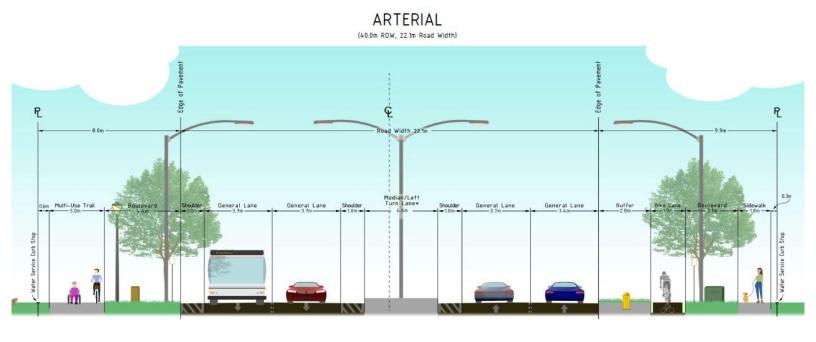
Active Transportation – Roadway Design - Arterial





-

Active Transportation – Roadway Design - Arterial

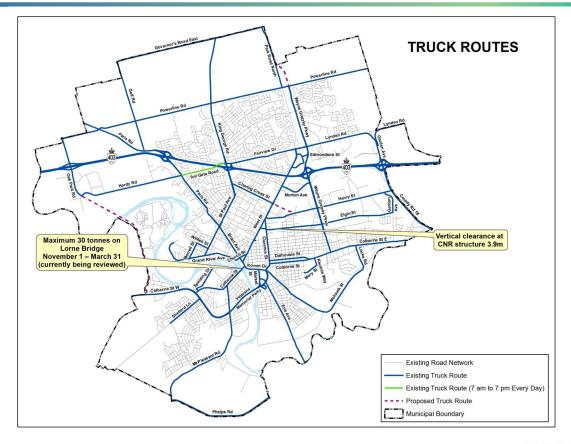




TMP PIC #4 – June 2020

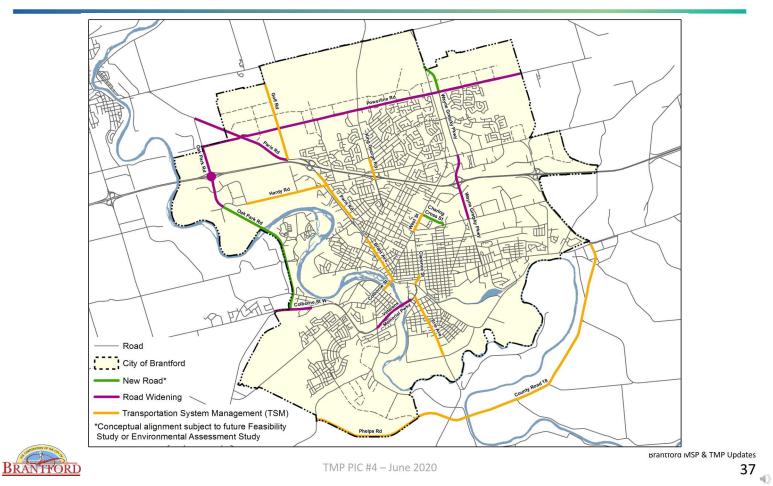
Brantford MSP & TMP Updates 35

Goods Movement Opportunities





2041 Preliminary Recommended Plan



2041 Preliminary Recommended Plan - Performance

This map displays Brantford's 'RECOMMENDED' road network. It includes a combination of; committed network improvements, and proposed infrastructure projects and Transportation Demand Management (TDM), under 2041 traffic conditions. It hi-lights the network changes and the specific areas where the network is anticipated to experience capacity issues (delays) during the PM peak hour.

The colour of the road segment indicates how that segment will operate during the PM peak hour. Red segments will be congested (at capacity), orange segments will operate with some congestion (approaching capacity), and grey segments will operate well (below capacity).

Paris Road between Highway 403 and Golf Roa

orne Bridge crossing the Grand Riv

RECOMMENDED PLAN

The recommended infrastructure and TDM will be necessary to accommodate the anticipated population and employment growth to 2041.

The recommended infrastructure includes a series of infrastructure projects that include the addition of new roads and the upgrading and/or widening of existing roads.

The recommended TDM includes a series of strategies and policies that call for additional / upgraded active transportation facilities and enhanced transit service.

Clarence Street between Dalhousie Street and the signalized entrance to Brantford Common

HOW WILL THE RECOMMENDED NETWORK PERFORM?

The performance of the 2041 Recommended Plan shows that almost all of the anticipated capacity issues identified for 2041 Do-Minimal condition (where no long term investment was made in transit service or infrastructure) are resolved. A few operational issues remain: Lorne Bridge, Clarence Avenue between Icomm Drive and Colborne Street East, and Paris Road. The transportation assessment suggests that while these locations are identified as capacity constraints in the long term, the magnitude of the issue has been significantly reduced. These issues are now forecast to be marginal issues and can be successfully managed in the near- and mid-term. These locations should continue to be monitored to confirm the significance of any emerging issue.



LEGEND City of Brantford

Road Operation

Six Nations of the

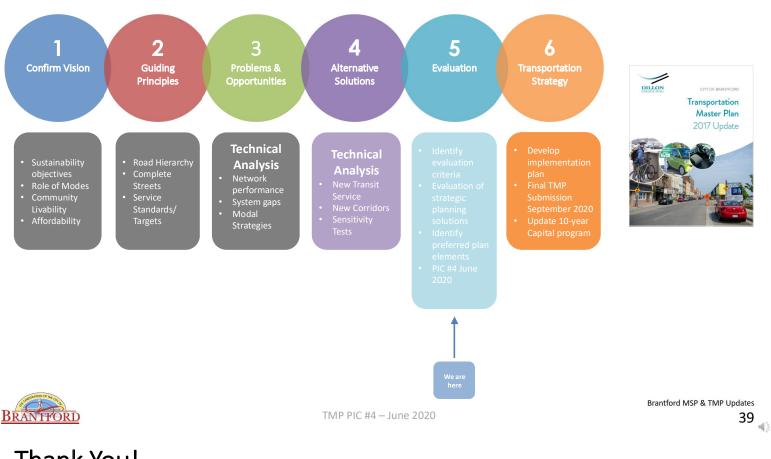
Grand River Territory Capacity issues

At or above capacity

Approaching capacity Below capacity

13

Status – Next Steps



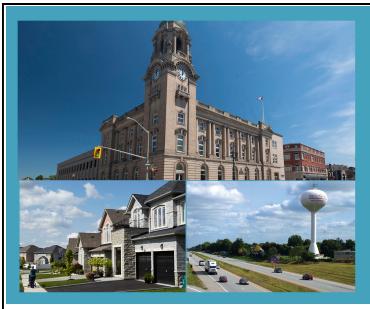
Thank You!

If you wish to submit comments or would like to be added to the project mailing list, please contact:

Paul Bumstead, B.E.S. Consultant Project Manager Dillon Consulting Limited 235 Yorkland Boulevard, Suite 800 Toronto ON M2J 4Y8 Phone: 905-260-4887 Email: pbumstead@dillon.ca Chris Fong, P. Eng. TMP Project Manager 100 Wellington Square Brantford, ON N3T 2M2 Phone: 519-759-4150 ext. 5630 Email: cfong@brantford.ca

Information will be collected in accordance with the Municipal Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.





CITY OF BRANTFORD **MASTER SERVICING PLAN TRANSPORTATION MASTER PLAN** ENVISIONING OUR CITY: 2041

June 9, 2020 & June 30, 2020 – Virtual Public Information Centre (PIC) Frequently Asked Questions (FAQ) Document – Transportation Master Plan (TMP) Posted on July 28, 2020

1 Introduction

The Transportation Master Plan (TMP) is one of several studies being undertaken by the City of Brantford to help identify the City's long-term growth needs. The goal of the TMP is to develop strategies for the management of transportation demand, truck route management, transit improvements and the active transportation network, including walking and cycling networks, up to 2041. The Study will also identify the individual projects required to complement these strategies, and prioritize these projects based on need and required timing.

The objective of this document is to answer questions submitted by the public, prior to July 21st, in response to the Virtual PIC originally posted on June 9^{th,} 2020 and Virtual PIC Questions and Answers originally posted July 30th. This document is the third and final step of the Virtual PIC process.

2 Frequently Asked Questions

Numerous questions and comments have been submitted to the Project Team throughout the first Virtual Public Information Centre process. The questions and comments received up to July 21st, 2020 have been responded to and grouped into various themes in the sections below.

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2.1 Analysis

2.1.1 Shouldn't widening WGP north of Hwy 403 to Powerline Rd be needed in conjunction with the WGP extension north of Powerline Road?

Slide 38 of the PIC material, entitled "2041 Preliminary Recommended Plan – Performance", indicates that the 4 lane cross section of WGP will be adequate to the service the forecast demand to 2041. The corridor should be protected for a potential widening to 6-lanes as volume demand may warrant beyond the 2041 horizon of the TMP.

2.1.2 Are any improvements identified for Park Road North?

No lane capacity improvements are proposed for Park Road North south of Powerline Road. Local intersection improvements will be required to optimize travel flow and accommodate changes in other road cross section (example: at Powerline Road and Park Road North). North of Powerline Road, a realignment of Park Road North will be required as it intersects with the future WGP. This realignment and intersection will be subject of a future Environmental Assessment Study for the WGP Extension.

2.1.3 Slide 8: Please explain more thoroughly how the traffic impact of up to 500 cars/hour is taking off the pressure from Brant Ave., Colborne and Clarence. Will it be 4%? 50%? It states a limited number of people will be using this 84 million dollar road.

The statements on Slide 8 do not align with the question posed. Slide 16 summarizes the analysis for Brant Avenue. Traffic forecasts for the 2041 conditions indicate that it will be operating at some 6% over capacity. Analysis of the origins and destination of these peak hour demands suggests that of the vehicles using Brant Avenue in this condition, approximately 500 (approximately 25%) of the corridor volume) of them are traveling from northwest Brantford to southwest Brantford which would be better served by OPRE. These 500 vehicles are not the only vehicles that are forecast to use the OPRE, just this that would divert from Brant Avenue.

2.1.4 TMP Slide 11: Is it too early to consider the effects of COVID-19 or a future pandemic on transit ridership? I assume no effects have been included in the ridership numbers in the TMP.

Yes, it would be premature to speculate on the impacts of future transit ridership as a result of Covid-19. The long term impacts of the pandemic and associated restrictions are not known and will not be known for some time. This analysis was conducted prior to the Covid-19 outbreak in Canada and as such, no potential Covid-19 effects have been included. In looking 20 years into the future, the assumption is that there will always checks and balances, and shifts in outlooks. The goal of the long term analysis is to flatten the impacts of such shifts and set reasonable targets that meet the long term community vision.

2.1.5 TMP Slides 13 & 14 Comparing Slides 13 & 14, the construction of the Oak Park Road Extension does not appear to have any effect on the overcapacity issues on Veterans Memorial Parkway and Clarence Street. Please comment.

The Oak Park Road Extension is expected to divert between 300-500 vehicles from the Paris Rd/ Brant Ave corridor and the Lorne Bridge (slide 16). With respect to the Veterans Memorial Parkway and Clarence Street, based on trip distribution patterns of vehicles using Veterans Memorial Parkway and Clarence Street (shown on slides 23 & 28 of the PIC material), the Oak Park Road Extension will have little to no impact on the future volumes on either Veterans Memorial Parkway or Clarence Street.

2.1.6 TMP Slides 14 & 29: With the construction of the Oak Park Road Extension, a new area of overcapacity appears on Colborne St. W., between County Road 7 (Pleasant Ridge Road) and D'Aubigny Road. Is construction of the OPRE simply going to result in moving traffic congestion from one part of the city to another?

The role of Oak Park Road extension is to serve a specific future demand that would and should be diverted from a current corridor that is not capable of serving that demand. Over capacity demand in the existing corridor (Paris Road and Brant Street, and on Lorne Bridge) results in neighbourhood infiltration that local roads are not designed to accommodate. Yes, the extension results in some additional pressure points but these pressure points can be mitigated. The section of Colborne St. W., between County Road 7 (Pleasant Ridge Road) and D'Aubigny Road currently has a 3 lane cross section (2 lanes westbound and 1 lane eastbound). It will require a road widening to match the existing 4 lane cross section east of D'Aubigny Road. This road widening is included in the 'Recommended Plan'.

2.1.7 TMP Slides 16, 20, 21 24, 26 & 29: The V/C ratios shown on these slides are those of the forecast 2041 "Do Minimal" traffic volumes. Could the consultant include additional V/C ratios using the forecast volumes in which the only alternative strategy is the construction of the Oak Park Road Extension (no TDM, TSM or road widening)? This would directly show the benefit of the OPRE to reducing the overcapacity on these roads. On Slides 20 and 23, the diagrams are very small and the V/C numbers are illegible. Could these numbers be enlarged?

The Do Minimal scenario reflects a 2041 condition with no additional TDM, TSM or road widenings. The aforementioned slides identify the travel demands and patterns of the problem areas and corridors and provide commentary on the potential for various alternatives to address that problem. As we are looking at a system wide plan to address city wide issues, the 2041 network assessment tests the alternatives in a system context. The volumes in the 2041 Preferred Plan assessment show significant demand on the Oak Park Road confirming its significant role in the future network. Testing the extension in isolation would only result in additional demand for the facility. With respect to font sizes, these will be improved and provided in the next steps of the project.

2.1.8 I have read a number of articles recently regarding a phenomenon called "induced demand" which "refers to the idea that increasing roadway capacity encourages more people to drive, thus failing to improve congestion". With this in mind, is it possible that the construction of the Oak Park Road Extension will only reduce traffic congestion on the city streets in question for a few years after which time we find that congestion reappears on those same streets?

Existing corridors are shown not to be able to accommodate future forecasts. The Oak Park Road Extension is required to serve specific future demands between West Brant and NW Brantford/Highway 403. The need and role of this infrastructure has been determined both on the basis of no TDM, TSM or road widening as well as with target TDM and TSM levels. As the demand has been consciously set to match aggressive policy goals for limiting the demand for automobile infrastructure, there will be limited room for induced growth of auto demand in the future due to the implementation of the Oak Park Road Extension. Even with the addition of the Oak Park Road Extension, very high volume demand is still expected on Brant Ave and the Lorne Bridge and as such induced demand is not considered applicable to this condition.

2.1.9 The TMP makes assumptions about the transportation decision making of residents commuting from the West Brant area to the East (i.e., assuming people will travel West to then go East). Please comment on how this is known.

The transportation analysis relies on existing traffic data (vehicle volume counts), recent travel behaviour survey for the community (2016 Transportation Tomorrow survey which provide trip purpose, origin-destination, and travel mode information for the GTA and surrounding area, including Brantford), and forecast land use information. This information is used in the City's transportation planning tools to forecast travel behaviour and magnitude of trips for the city broken down into discrete traffic analysis zones. This allows the project team to develop an understanding of the origin and destination of trips forecast for 2041.

2.1.10 How can the committee consider the 2016 travel study as current trends and be valid for a 10 year project starting in 2023? By the time the year 2028 the road is to be approximately half done, which will mean the current trends are 11 years old. The Master plan committee and developers need to be realistic and financially transparent about the costs to build the OPRE to avoid the same issue as Gretzky arena. All Builders put in unexpected costs to their budget plans, the City will need to be very clear on their overages budget and ask the constituents for extra funding, not expect we will be ok with just using our taxes to fix an unforeseen expense.

On the issue of the 2016 travel study, it is the most recent travel behaviour information available and has not changed significantly in Brantford over the last several iterations of the data collection.

The 2016 travel behaviour is used as an initial base to understand the travel relationships between areas. As the population and employment forecasts are allocated the 2041 scenario, the trip making is adjusted to reflect new growth levels and new area to area interactions.

On the issue of the capital cost, the TMP team is working with the City to identify reasonable costs for

the strategic plan. These costs will be enhanced and refined as part of the Oak Park Road Extension EA study process.

2.1.11 In the Oak Park Road Extension Feasibility Study Final Report, there is no discussion regarding connections with Brant County that could be more fiscally responsible than the alternatives considered. Could you comment on why the city has not engaged with the Brant County to facilitate mutually beneficial solutions?

The TMP Project Team has engaged with County of Brant regarding the problems and opportunities, and the assessment of the alternatives. The Project Team will continue to engage the County through to the completion of the Study. Further, the City has recently initiated the Oak Park Road Extension Environmental Assessment study which will include the County as a key stakeholder. The EA will confirm the requirements of the project, develop an implementation plan, and prepare preliminary designs for the proposed infrastructure. In addition, the City is working with County on a Joint Strategic Transportation Plan to review cross boundary and joint transportation issues.

The project web site is as follows: <u>https://www.brantford.ca/en/your-government/oak-park-road-extension.aspx</u>

2.1.12 The proposed plan discusses how about 900 cars per peak hour will be reduced from Brant Ave, Colborne Street, and VMP combined and that commute time will decrease by about 5 minutes for those commuting. Can you explain how these numbers warrant the expense of the proposed plan?

The specific outcome related to travel time noted here is not a specific TMP outcome. Generally speaking, however, travel time savings of a group of users expanded to annual benefits over many years can be significant. In combination with the environmental benefits of reduced idling (from reduced delay) and shorter travel distances (more direct routes), as well as improving the overall safety of the network (reduced collisions, less neighborhood infiltration) are also key to understanding the benefits of the investment.

2.1.13 When highway 53 is expanded from 3 to 4 lanes from D' Aubigny there will need to be consideration to have separate signals like at Elgin and Clarence to avoid accidents. This major intersection on a hill will turn into West St. as there has been many accidents already, with poor sightlines and speeding traffic.

Comment noted.

2.1.14 The public notice in the Brantford Expositor on June 11 uses ambiguous language regarding the bridge that will be required to complete this proposed plan: "TMP (2014) recommends the extension include a four-lane arterial road with a crossing over the Grand River". Mention of a bridge is also not clear in other editions of the proposed plan. A bridge will impact the cost of the proposed plan substantially. Please comment on how the "crossing" (i.e., bridge) will be accounted for in "today's dollars" (not past projections of the bridge cost). To be transparent with taxpayers, clarification of the cost of BOTH the road and crossing (bridge) is necessary.

In the next phase of the TMP update, costs for the Recommended Plan, including various programs, service, and infrastructure, will be prepared using today's 2020 dollars using current planning and engineering benchmark unit costs. The Recommended Plan will be prioritized into discrete time periods in order to provide guidance to the 10-Year Capital Program. Further more detailed construction costs will be established as part of the on going Environmental Assessment Study. (https://www.brantford.ca/en/your-government/oak-park-road-extension.aspx)

2.1.15 Suggest extending CR18 westbound to connect to Shellard Lane. This is intended to facilitate Ward 1 traffic to use CR18 and access Hwy 403 on the northeast.

The proposed Conklin Rd extension to CR18 towards the southeast would provide this connection and role.

2.1.16 How many cars would be eliminated from Brant Ave if no right turn was allowed onto St Paul Ave and no left turn allowed from Palace, Richmond, Henrietta, and St James onto Albion. There are faster ways to access St. Paul now but don't seem apparent to drivers.

The project team will undertake additional analysis to identify the requested numbers.

2.1.17 What is the percentage individually of traffic now on Hardy road from Tollgate, Paris Road and Ava Road?

The project team will undertake additional analysis to identify the requested numbers.

2.1.18 With regard to the Tutela Heights area improvements:

- Will the proposed new road widenings in the Draft OP will be included in the finalized Transportation Master Plan?

- What are the short-term plans for Birkett Lane and Erie Ave regarding traffic flow improvements, turning lane improvements etc.?

- Is the 20.0m ROW widening for Birkett Lane scheduled to still occur or has the City decided that the 24.0m ROW widening is better suited to accommodate the City's needs?

- What are the short-term plans for Conklin Rd?

- Is there a planned ROW road widening in the near future for Conklin Rd?

The Transportation Master Plan does not identify any future improvement requirement for the existing section of Conklin Road. The specific ROWs for the roads are to be identified by the Official Plan. This comment has been provided to O.P. team.

2.2 <u>Clarity</u>

2.2.1 TMP Slide 13: Comparing Slide 8 to Slide 13, the overcapacity on Hardy Road has been eliminated due to TDM. Is this correct?

Yes. TDM does result in reduced volume forecasts on Hardy Rd. The impact of this reduction appears magnified due to the change from 'At or above capacity' to 'Approaching capacity'. In

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practice, the effects of TDM on Hardy Road are much more modest as Hardy Road is just over capacity in the 'Do Minimal' network and is just under capacity in the 'TDM' network.

2.2.2 Slide 13-14 If the committee is working with Brant County council to look at other effective transportation flow alternatives such as County Road 18, why build the OPRE, which will make commuters travel West to head East, make a left turn on a one lane road, and travel another 10 minutes to improve the commute time by 5 mins. How do you know the 500 cars/hour commuters from Shellard lane will travel to NW industrial for employment when using a 2016 travel plan? How many people moved to Shellard Lane to work in the North West industrial area as suggested in the recent replies to the master plan input session? The plan is to have the OPRE be developed over many years but with every 4 years possible council changes how can council confirm the OPRE will continue on and not be a road to no where?

The analysis does not suggest that travel demand market for OPRE is primarily to and from the East. The analysis shows that there is a capacity issue on Brant Ave, the order of magnitude of which is primarily driven by trips to/from south-west Brantford from/to the future north-west industrial area and to/from points west of Brantford.

The 2016 travel behaviour is used as an initial base to understand the travel relationships between areas. As the population and employment forecasts are allocated the 2041 scenario, the trip making is adjusted to reflect new growth levels and new area to area interactions.

The network recommendations for 2041 are based on the policy positions outlined in the Official Plan which is endorsed by Council. These plans are reviewed at regular intervals and adjusted to reflect recent or new policy initiatives.

2.2.3 Slide 26 talks about Hardy Rd and removing traffic of 300-500 cars. Would the new interchange at Oak Park and 403 not be considered the best route into the industrial park instead of travelling on Hardy Road? Those traveling now to work in the Industrial Park will probably use the 403 and get off at the new interchange at Oak Park road since the left turn issues will be resolved. The Master Plan is encouraging West Brant including Hardy Road to use public transit to get downtown. By increasing public transit why would a 4 lane over pass road need to be built? Make it the last resort to drive when the residents should be proud to use public transit that is efficient for traffic, environmentally friendly and cost effective to both patrons and city.

The 300-500 vehicles are those vehicles forecast in the Do Minimal conditions, to also be travelling along the congested Brant Avenue corridor. Using Highway 403 does not address the north-south issue connecting southwest area to the northwest area.

The future analysis already assumes a significant improvement in transit ridership. This transit ridership does not address the network deficiencies alone.

2.2.4 There is no indication of the progression of the TMP (i.e., at which end construction will begin). Are we to take the "Oak Park Road & Highway 403 interchange upgrade" as an indication of the intended direction?

The future outcome of the TMP is a Recommended Plan for service and infrastructure. This will include an implementation plan identifying the priorities, timing, and general costs for the individual projects. These steps will be undertaken subsequent to the confirmation of the current Recommended Plan. The upgrades to the Oak Park Road interchange are being conducted as a result of the planned growth in the NW Business Park. This need is independent of the potential future Oak Park Road Extension. The next step for the Oak Park Road Extension, the EA, has been initiated by the City. (https://www.brantford.ca/en/your-government/oak-park-road-extension.aspx)

2.2.5 The Plans show an arterial/collector road connection in the Expansion Lands north of Powerline Road (east of King George Road) extending north through the existing natural area. On what land parcel is this road proposed?

The alignment of this connection is conceptual at this time. Specific alignments of these development roadways will be the subject of future development submissions.

2.2.6 Within the Expansion Lands there is a proposed collector road travelling parallel to Powerline Road with proposed connections southerly to Powerline Road. How will this road be funded and, given multiple landowners, how will coordination be addressed to ensure that the road is completed in a timely and complete manner?

The timing and design elements of this roadway, and other connections required to support development, will be the subject of future EA's or Draft Plans of Subdivision as development progresses.

2.2.7 The 2041 Preliminary Recommend Plan shows only one potential connection northerly to extend through the natural area to provide access to future lands located outside of the urban boundary. However, Schedule 11 does not illustrate this same roadway as part of the Bike and Trails Network. There is a proposed off-road trail system within the natural area (east-west), shouldn't this connection also be shown?

This comment is noted. The noted roadway extension northerly in conceptual and the subject of further development related study. At such time as the roadway need and alignment is confirmed, it would be important to provide active transportation in this corridor.

2.2.8 According to Slide 37 "2041 Preliminary Recommended Plan", new roads have a conceptual alignment subject to future Feasibility Study or Environmental Assessment. We trust that 'conceptual alignment' is also true to the new loop road on the Sorbara Lands. We expect that the character, design, and alignment of the new public road is subject to further discussion and will be reviewed as part of any future development application.

This is correct. The alignment of the loop road is conceptual. This road is proposed as a collector road, the character, design, and alignment of the new public road would be subject to further study as part of the development application process.

2.3 <u>Methodology</u>

2.3.1 Will you be modifying your plans now that the Ontario government has lowered the population projections for our area?

With regard to the updated population and employment projections, the TMP team is working with the Official Plan team to understand the implications of the Growth Plan Amendment on the Master Servicing Plan and Transportation Master Plan.

The Technical Report prepared by Hemson Consulting for the Ministry of Municipal Affairs and Housing extends the Brantford forecasts with relatively minor additional growth through to the new planning horizon in 2051. The 2041 TMP horizon reflects a population of 163,000 residents and employment of 79,000 jobs, the new reference forecast for 2051 is now for a population of 165,000 and employment of 80,000. The recommended reference scenario for 2041 in the technical report maintains the 2041 TMP forecasts.

As the 2041 scenario is meant to reflect a long term buildout, the difference between the current 2041 and the new 2051 reference scenario (2,000 pop and 1,000 emp) is not considered significant. Therefore, the long term network conditions and requirements as assessed for the TMP are still considered to be appropriate.

2.4 <u>Scope</u>

2.4.1 What will happen at the entrance to Brant Park?

The City recently initiated an Environmental Assessment study which will assess alternative alignments and designs for the proposed Oak Park Road extension. This will include details related to the entrance to Brant Park. Please monitor the city's website for study notices and information. (https://www.brantford.ca/en/your-government/environmental-assessment-projects.aspx)

2.4.2 When this proposed OPRE is started where will the City begin.... we expect you to consider the bridge component of the plan before beginning construction?

The planning, design and construction plan will be developed as part of future works and is not within the scope of the TMP. The OPRE EA study will address most of these issues, while the detailed design will finalize the construction costs and phasing. Please monitor the city's website for study notices and information. (<u>https://www.brantford.ca/en/your-government/environmental-assessment-projects.aspx</u>)

2.4.3 To build community engagement regarding this OPRE why would the Ward One councillors not take the time to come and speak with those most effected?

As this is an issue for the OPRE EA study team, these comments have been shared with them.

2.4.4 Please clarify that the new plan has 3 bridges crossing the river in succession, if the walking bridge is kept! Has there been any consideration to the impact this will have when there is another ice jam

As this is an issue for the 3 Bridges EA study team, these comments have been shared with them.

2.4.5 Slide 30 talks about walking trails. Currently, the bridge appears in some plan documents but is not included in all. Which proposal is the City considering from the Parson's report?

A walking trail connection is to be provided across the river. The OPRE EA will identify the appropriate on road infrastructure to accommodate pedestrian and cycling

2.4.6 When the master plan is presented with the proposed budget please take time to break down the cost for the bridge separately.

The capital cost estimates for the TMP will consider and identify the bridge component.

2.4.7 To be financially accountable how can this road proceed when the economic impact from COVID-19 will need to be addressed to build the local economy first.

The effects of COVID (short-term or long-term) cannot be known at this time. The TMP is a long term (20 year plan) based on projections of population and employment and the resulting interactions between them. It is understood that there are ups and downs in any long term economic forecast but the ultimate goal is to achieve and accommodate the policy growth plan.

2.4.8 Is compensation for the residents living along the proposed OPRE to address the variety of impacts this project will have (e.g., environmental damage, noise, etc.) being considered?

The TMP is considering the impacts noted in the evaluation of the alternatives. The specific impacts of the implementation of a project will be the scope of the Environmental Assessment, as will be the identification of any mitigation and compensation potentials.

2.4.9 Are cost estimates available for the recommended alternatives?

As part of the project next steps, cost estimates for the Recommended Plan will be developed using current planning and engineering unit cost benchmarks.

2.4.10 The Master Plans Review identifies a number of improvements with existing infrastructure (roads, water, sanitary), while there is no discussion related to any programs planned either through the 10 Year Capital Program and/or the Development Charge By-law/Development Charge Background Study that would provide for the identified improvements. Can this be provided?

As part of the project next steps, cost estimates for the Recommended Plan will be developed using current planning and engineering unit cost benchmarks. An Implementation Plan identifying the Plan priorities will be developed to inform both the 10-yr Capital Program and the Development Charges process.

2.4.11 Given the impact of COVID-19 and other pressing government cuts and priorities on the city's budget (e.g., cuts to transfers from the Provincial government for healthcare, fulsomely addressing homelessness), how is the proposed plan being funded? Or even the top priority?

The cost and potential funding for the Recommended Plan will be prepared as part of the project's next steps. Ultimately, the decisions related to the spending of fiscal budgets are made by Council on the recommendation of City departments, and not an outcome of the TMP.

2.4.12 The Master Plans Review identifies a significant amount of new infrastructure required; however, it does not discuss how these improvements would be funded? A discussion on funding should be provided.

A high level discussion related to finding will be included as part of the development of the Implementation Plan in the project's next steps.

2.4.13 Would like to see the bikeway on Powerline Road to be extended eastward to WGP, or Memorial Dr at least.

Schedule 11 of the Official Plan identifies an on-road cycling facility along the full length of Powerline road through the future urban area. On-road means within the road right of way, which could take the form of a cycle lane, cycle track, or multi-use path, or a combination thereof. The exact implementation would be subject to future study and detailed design.

2.4.14 Many progressive communities (ROW, Niagara, Hamilton) are choosing to utilize roundabouts extensively. On page 9 of the posted slide presentation you discuss TSM and provide several examples - signal coordination, auxiliary turning lands, turn restrictions. I was very surprised that roundabouts were not highlighted as a major TSM tool. I know you are well aware of the benefits but I think the slide show posted on the city website, a roundabout was only mentioned once as a possibility. In an Oct. 11, 2019 article in the Brantford Expositor, the Transportation Association of Canada indicated that 20 year life cycle cost of a roundabout was \$5.3 million whereas a traditional signalized intersection was 9.3 million. It was mentioned in the Q&A that as a next step you will be putting together costing. For all the benefits of roundabouts, which include improved traffic flow, I think that they should be an important part of the TMP at this time, but from the slide presentation, I really can't say that they are. We don't do TMP's very often and I can't imagine how costing can be put together unless you indicate on your 2041 Preliminary Recommend Plan (slide 37) exactly where roundabouts are an option. As an example, I think that they should be used across the Powerline Rd. from Paris Rd to Wayne Gretzky.

With regard to the implementation of roundabouts as traffic control, the TMP is a strategic network needs assessment. The actual decision related to need for and implementation of traffic control measures is not appropriate at this level. Generally speaking, we agree that roundabouts should and would be considered as TSM measures. The objective of the TMP is to identify the potential strategies and the policies, as well as provide direction to the planning and design process, that would need to be in place to provide the opportunity to implement such TSM measures.

We note that the costs for implementing the network recommendations are strategic benchmark costs. While there is a difference in the capital, construction, and maintenance costs of different measures (i.e. signalization versus roundabouts), more precise costing would be undertaken during subsequent planning and design phases (secondary plan, preliminary design, and detail design phases).

That said, the TMP will be identifying candidate sites for roundabout implementation as part of a strategic assessment based on transportation policy goals and objectives.

2.4.15 If the Oak Park Road extension is constructed, it will be built over a section of the S.C. Johnson Trail, from the Brant Park entrance driveway to the Grand River. Will a temporary trail be constructed adjacent to the new roadway for the duration of the project, allowing people to continue to use the trail, or will the trail simply be cut off and dead ended at each end? Has a traffic count ever been done, counting the number of hikers, runners and cyclists that use this section of the trail?

This detail in the construction and implementation will be undertaken as part of the next level studies, including the Oak Park Road Extension.

2.5 <u>Other</u>

2.5.1 TMP Slide 8: The "Oak Park Road & Highway 403 interchange upgrade" is currently under construction at a cost of \$6.75 million, with completion expected by the end of 2020. One could conclude from this that the City is determined to construct the Oak Park Road Extension regardless of any objections by the citizens of Brantford. Could you please comment?

The upgrades to the Oak Park Road interchange are being conducted as a result of the planned growth in the NW Business Park. This need is independent of the potential future Oak Park Road Extension.

2.5.2 Based on discussions with councillors, the perspectives of residents living in the Ava Road area are being valued over other Brantford residents. Could you comment on this?

The problems, opportunities, and alternatives are being considered in the context of a multi-criteria evaluation and finding the best fit solutions that meet the needs of the entire community and City. No single stakeholder / stakeholder group is being valued above others.

2.5.3 Glad to hear the City is in communication with Brant County, are you speaking with Six Nations and other surrounding communities to help not dump on them a City made problem?

The TMP project team is communication with Six Nations and the County.

2.5.4 Slide 23 How can you say this will affect property values in the county but not consider those 25 plus homes from the Glendale, Kinnard and Kerr Shaver neighbourhood?

No such statement is made in the TMP presentation material.

2.5.5 Where is the money coming from, when the city mayor claiming they may have to increase property taxes and certain services and asking the government for money, which the government is going to be handing out..? Is the city going to use some of this money for this project and waste it on a project going no where ,just to please a few people and make a name for themselves. #2 we the tax payers have a right to oppose such a project which we are not being heard. #3 the cost of the bridge alone will be more then the cost of the road work, and disrupt the wild life etc. #4 It's a big NO to this project disrupting a neighbor hood for a few people who don't live in this area and could care less ,It's not in there back yard and have to contend with all the disruption. and noise. A concerned Oakhill tax payer.

The cost and potential funding for the Recommended Plan will be prepared / identified as part of the project's next steps. Ultimately, the decisions related to the spending of fiscal budgets are made by Council on the recommendation of City departments, and not an outcome of the TMP.

2.5.6 Some of the long term residents of the Glendale Rd and Kinnard Cul de sacs were told that their properties would one day have a two lane roadway running behind their properties. We checked with City Hall a few times over the years to try and stay updated on any news regarding the same. We were told that it likely wouldn't happen in our lifetimes. Now we are seeing in the Parsons report that it may become a four lane elevated roadway overlooking our properties. This will feel like we are living under the Gardiner Expressway in Toronto. We should have never been allowed to build our houses this close to this potential corridor. We feel that this roadway does not belong in the greenbelt space that is behind our homes. There has to be a better solution then building a roadway over top of people's properties. Will we be compensated for reduced property values? Who would ever want to buy our homes? When this goes before the City Council each member should honestly ask themselves that if this was in their backyards would they be in favour of it? My opinion is that no property owner, in any location, would approve this truck route / arterial road abutting their property. It's time to go back to the drawing board and come up with an alternative that doesn't gut one of the nicest green spaces in our beloved City.

These comments have been received and will be forwarded to the Oak Park Road Extension EA project team.

Transportation Master Plan (TMP) Update and Master Servicing Plan Update (MSP) STAFF MEETING December 11, 2020

In Attendance:

Absent:

Mike Abraham (MA) – Infrastructure Planning Sharon Anderson (SA) – Infrastructure Planning Lonny Bomberry (LB) – Six Nations of the Grand River (SNGR) Paul Bumstead (PB) – Dillon Tanya Hill-Montour (THM) - SNGR Robin Linn (RL-SNGR) – SNGR Russ Loukes (RL-City) – Engineering Phil Monture (PM) – SNGR (Native Lands Ltd) Jen Mt. Pleasant (JMP) – SNGR Dawn Russell - SNGR

ITEM	ACTION BY
1. Following introductions, PB provided an overview presentation of the Transportation Master Plan Update project. The presentation, same as the presentation provided to City Council in October 2020, identified the transportation demands derived for growth to 2041 and measures proposed, including timing, costs and additional Environmental Studies required to address the deficiencies through use of Active Transportation, Transit, Traffic System Management and network expansion.	
2. City staff advised that the TMP and MSP are currently out for the 45 day review period will be subject to an amendment starting in Q1 of 2021 and expected to complete in Q2 2021. This amendment is due to the province adjusting its growth plan time horizon and population targets from 2041 to 2051 in August 2020. This change resulted in a change to the Settlement Area Boundary proposed in the Official Plan in the North East area of the expansion lands.	
3. City staff asked whether the SNGR have identified any transit or development needs for the lands under SNGR jurisdiction (i.e. Glebe lands or other lands) within the City boundary that the MSP and TMP projects should address as part of the future growth. No known issues were raised during the meeting by SNGR staff.	
 RL-SNGR indicated that SNGR had been informed rather than consulted about these two projects. It was noted that the preferred form of consultation should include regular phone calls and meetings. 	
5. RL-SNGR indicated the projects in the TMP of particular interest were: the crossings of the Grand River, including Oak Park Road Extension, Lorne Bridge and the Veterans Memorial Parkway improvements; archaeological reports and field work; reports on potential environmental impacts and water quality reports.	
6. Interest areas for other projects include: Oak Park Road Extension,	MA/

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 Areas which are not currently of interest: minor variance statements. MA to convey to planning staff. 	MA
8. Staff turnover at both the City and the SNGR throughout these projects, complicating communication between groups, was briefly discussed.	
9. PM indicated that there were concerns about past agreements with the City not being followed, would like to see this become more formalized. SA indicated this concern should also be raised at the CAP meetings. RL-City believed it may have been in the past. City staff and SNGR staff agreed that a formalized protocol outlining expectations for the consultation process for Environmental Assessments going forward would be helpful. PM indicated he would be willing to develop list of items that should be addressed in formal protocol for EA consultation of SNGR. Some items briefly discussed included what are the implications of the EA project, when does it begin and how does the EA project tie into other SNGR concerns.	PM – to discuss at CAP, list development RL-City to discuss with upper City Mgmt
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11. SNGR staff had no questions on MSP content, and indicated they had not had a chance to review. There was a question asked about Oil/Grit separator installation locations, and a question on concerns with how the MSP would address water quality and WW discharge quality.	
SA provided a brief overview of the MSP stormwater volume, due to the existing data gaps for this system, the capital program typically focuses on addressing these knowledge gaps first, through various studies and field work, prior to specific capital projects. Some capital projects are identified in the MSP in addition to the studies and field work. Oil/Grit separators are identified in the MSP as one piece of infrastructure that can be used within a stormwater management system. Specific locations are not identified in the MSP. SA also discussed that while the MSP outlines assumptions made when modelling the system for items such as total suspended solids; the Sewer System – Regulation - Use By-Law is the document that dictates required wastewater	

standards that must be met by industry prior to them discharging into the City's infrastructure and undergoing treatment by the City prior to discharge into the Grand River. SA briefly touched on the Subwatershed Study in the appendix of the MSP stormwater volume. SA advised that the material was quite technical and if the SNGR wished for a follow-up meeting with the City's consultant to discuss this report it could be arranged. No request for a follow-up meeting on this topic was made during this meeting.	
 12. In summation key concerns of SNGR expressed at this meeting were: Circulation of archaeology reports to SNGR needs to be completed for both development applications and Environmental Assessments (EA) SNGR advised that they have limited capacity to read through material provided by the City, which is why active consultation is so important. Circulation of EA information (final reports and background studies) are not felt to always be the complete information available A protocol or other formalized documentation needs to be developed for how SNGR should be consulted on City EAs going forward; past agreements are not always being followed EA consultation should start with a phone call about the project to RL-SNGR 	
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Regarding your inquiry on directional drilling, the Master Servicing Plan (MSP) does not recommend any new construction or replacement of existing water or wastewater crossings of the Grand River to support growth. Further, the MSP does not make explicit recommendations regarding the type and/or method of construction. Any future replacement of the City's existing Grand River crossings would be undertaken as part of the City's ongoing infrastructure renewal programs. The method of infrastructure rehabilitation and/or replacement and identification of the Environmental Assessment, if one is required for the project, or as part of the detailed design process. Any required investigations, including hydrogeological investigations, would be undertaken as part of the Environmental for the project, or as part of the detailed for the project, or as part of the detailed for the project, or as part of the detailed for the project, or as part of the detailed for the project, or as part of the detailed for the project, or as part of the detailed for the project, or as part of the detailed for the project, or as part of the detailed for the project, or as part of the detailed for the project, or as part of the detailed for the project, or as part of the detailed design process.	

Notes revised based on comments received from JMP on December 22, 2020.

On Fri, 27 Nov 2020 at 14:14, <noreply@brantford.ca> wrote:

Hello,

Please note the following response to 45-day Public Review has been submitted at Friday November 27th 2020 2:14 PM with reference number 2020-11-27-155.

• Please identify any comments, questions or concerns you may have regarding the Master Servicing Plan or Transportation Master Plan:

Please consider re- routing the #6 bus, as it is now the bus makes a loop from Blackburn onto Powell then on Lambert onto Warner Lane. Warner lane is constructed of single garage houses and the street parking when combined with a bus makes it crowded, if the bus was to continue straight down Powell to Shellard that would eliminate the major source of frustration residents feel and will allow the bus to service the expanding neighbourhood and future community center.

- First Name (Optional)
- Last Name (Optional)
- Address (Optional)
- Email (Optional)

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Transportation Master Plan (TMP) Update and Master Servicing Plan Update (MSP) STAFF MEETING December 11, 2020

In Attendance:

Absent:

Mike Abraham (MA) – Infrastructure Planning Sharon Anderson (SA) – Infrastructure Planning Lonny Bomberry (LB) – Six Nations of the Grand River (SNGR) Paul Bumstead (PB) – Dillon Tanya Hill-Montour (THM) - SNGR Robin Linn (RL-SNGR) – SNGR Russ Loukes (RL-City) – Engineering Phil Monture (PM) – SNGR (Native Lands Ltd) Jen Mt. Pleasant (JMP) – SNGR Dawn Russell - SNGR

ITEM	ACTION BY
1. Following introductions, PB provided an overview presentation of the Transportation Master Plan Update project. The presentation, same as the presentation provided to City Council in October 2020, identified the transportation demands derived for growth to 2041 and measures proposed, including timing, costs and additional Environmental Studies required to address the deficiencies through use of Active Transportation, Transit, Traffic System Management and network expansion.	
2. City staff advised that the TMP and MSP are currently out for the 45 day review period will be subject to an amendment starting in Q1 of 2021 and expected to complete in Q2 2021. This amendment is due to the province adjusting its growth plan time horizon and population targets from 2041 to 2051 in August 2020. This change resulted in a change to the Settlement Area Boundary proposed in the Official Plan in the North East area of the expansion lands.	
3. City staff asked whether the SNGR have identified any transit or development needs for the lands under SNGR jurisdiction (i.e. Glebe lands or other lands) within the City boundary that the MSP and TMP projects should address as part of the future growth. No known issues were raised during the meeting by SNGR staff.	
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Notes revised based on comments received from JMP on December 22, 2020.

3/3/2021 Dillon Consulting Limited Mail - Fwd: Brantford Transportation Master Plan November 2020 Update - Response to Feedback - DRAFT - H...

From: Bumstead, Paul <pbumstead@dillon.ca> Date: Tue, 19 Jan 2021 at 10:58 Subject: Brantford Transportation Master Plan November 2020 Update - Response to Feedback - DRAFT -To: < Composition Compo

Thank you for your comments/questions.

The Transportation Master Plan (TMP) transit assessment has identified that service optimization (routing and frequency adjustments) are required in the near team and recommends that service expansion further to the SW and to the SE be completed to serve new growth areas to maximize ridership. Route specific adjustments and enhancements, as identified in your inquiry, is a next step undertaking and will be reviewed as part of the implementation of the TMP transit recommendations.

If you have any further questions or concerns, please let me know.

Regards Paul



Paul Bumstead Dillon Consulting Limited 235 Yorkland Boulevard Suite 800 Toronto, Ontario, M2J 4Y8 c: 905-260-4887 PBumstead@dillon.ca www.dillon.ca

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From: **Sharon E. Anderson** <andersonsh@brantford.ca> Date: Fri, 11 Dec 2020 at 12:41 Subject: TMP question from To: Bumstead, Paul <pbumstead@dillon.ca> Cc: Mike Abraham <MAbraham@brantford.ca>

Good Morning Paul,

I got a voicemail from the meeting at 10:45 today. The has a question about the TMP, specifically he mentioned that he has attended all the meetings and feels that at those meetings there were suggestions on running a road from Shellard Lane to Phelps Road, he would like to know if there is a reason it was not considered in the final TMP document.

His phone number is **Constant and Service** Please express to him that this is in response to his call to Sharon Anderson, as his question is about the TMP it has been redirected to you as the person best able to answer his question.

He has requested that if you call today, to please call after 1pm.

Please let me know whether you manage to make contact with

Thank you

Sharon

Sharon Anderson, P.Eng.

Asset Management Specialist

City of Brantford – Public Works Commission

p: 519.759.4150 ext. 5412 | www.brantford.ca

From: **Bumstead**, **Paul** <pbumstead@dillon.ca> Date: Wed, 16 Dec 2020 at 08:42 Subject: Brantford TMP Update - Public Inquiry - Extension of Phelps Road To:
C: Sharon E. Anderson <andersonsh@brantford.ca>

The extension of Phelps Road to Shellard Lane was considered in initial phases of the study as a potential infrastructure expansion opportunity but it was not identified as needed to address any of the problems identified in the 20 year (2041) horizon of the TMP.

The need for a specific alternative begins with the identification of a specific strategic network problem. In the case of the alternative you are questioning, the only identified problem in the area that an extension could address relates to the Grand River Crossing: Lorne Bridge crossing; and the Veterans Memorial Parkway crossing.

With respect to the Lorne Bridge crossing, this bridge was assessed to primarily serve trips from the southwest community to downtown or north and west of the downtown (to the northwest industrial park, to Paris area, to Cambridge, and to the west on Highway 403). An arterial road connection between Mount Pleasant and Shellard Lane does little to support these travel patterns.

With respect to the Veterans Memorial Parkway, this bridge was assessed to primarily serve trips from the southwest community to downtown or north and east of downtown (to the north-central Brantford, and the east toward the GTA on Highway 403 and Highway 2). A Transportation System Management (TSM) improvement of the Phelps Road and County Road 18 corridor to connect easterly was assessed as having advantages and benefits to the capacity issues on the VMP bridge. However, an arterial road connection between Mount Pleasant and Shellard Lane would do little to enhance this route as the connection would only serve a portion of the trips generated in the Shellard Lane community. The assessment shows that the road network in the Shellard Lane Community is operating within its capacity without the suggested connection.

Although this arterial road is not justified in the proposed road network in the current TMP, there would be opportunities in the very long term, i.e. beyond the 20 year horizon of the TMP, to consider this potential link to support the development of future developments in this area.

Regards,

Paul



Paul Bumstead Dillon Consulting Limited 235 Yorkland Boulevard Suite 800 Toronto, Ontario, M2J 4Y8 PBumstead@dillon.ca www.dillon.ca

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On Fri, 18 Dec 2020 at 15:36, <noreply@brantford.ca> wrote:

Hello,

Please note the following response to 45-day Public Review has been submitted at Friday December 18th 2020 3:35 PM with reference number 2020-12-18-151.

 Please identify any comments, questions or concerns you may have regarding the Master Servicing Plan or Transportation Master Plan: Hello,

Please see my comments below in regards to the Active Transportation Sections of the Transportation Master Plan.

1. Signed bike routes were not found to encourage cycling culture in Brantford (pg. 20), so why continue allocating further funding to this type of program and installing an additional 30km of signed bike routes (pg. 164 at a cost of \$42,000). I feel this money could be better used to support educational programs or biking incentive programs within the city.

2. All multi-use paths/trails should be paved to be inclusive for rollerbladers as gravel does not support the activity and roller blades are included in the complete street definition for walking. These paths also need to be maintained appropriately to support the use of them for all activities as many paths in the city are currently unable to safely accommodate rollerblading.

3. There is no mention of the introduction/research of bike-share/scooter-share programs – has this been considered to help encourage active transportation within the city?

4. How will larger employers/commercial businesses be incentivized to install destination facilities? Is this for discussion after the plan is accepted? I feel further information should be provided to support this recommendation as there is not even an example present of what these incentives could be.

Thanks,

- First Name (Optional)
- Last Name (Optional)
- Address (Optional)
- Email (Optional)

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3/3/2021 Dillon Consulting Limited Mail - Fwd: Brantford Transportation Master Plan November 2020 Update - Response to Feedback - DRAFT - M...

From: **Bumstead**, **Paul** <pbumstead@dillon.ca> Date: Tue, 19 Jan 2021 at 10:57 Subject: Brantford Transportation Master Plan November 2020 Update - Response to Feedback - DRAFT -To:
C: Sharon E. Anderson <andersonsh@brantford.ca>, Evie Przybyla <EPrzybyla@brantford.ca>

Thank you for your comments and questions.

With respect to signed bike routes, signage is relatively low cost and easy to implement. While alone it does not appear to have been effective in Brantford in encouraging increased cycling, it must be part of a more comprehensive infrastructure program to ensure the connectivity of the network and to maximize the visibility and efficiency of the cycling network.

With respect to multi-use paths/trails (MUP), theTransportation Master Plan (TMP) recommendations are based on all MUP being paved. However, not all trails are planned to be paved. Specific recommendations for the paving and maintenance of trails/specific trails would be the subject of more detailed study as part of implementation / asset management tasks.

With respect to bike-share/scooter-share programs, this is not within the scope of the Transportation Master Plan. However, it is recognized that such programs can maximize the ridership potential of a system. The potential for and benefit from these types of specific programs would be the subject of a more detailed scope of work, i.e. an Active Transportation Master Plan.

With respect to employer/commercial businesses incentives, this is not within the scope of the Transportation Master Plan. This type of specific program would be the subject of a more detailed scope of work, i.e. an Active Transportation Master Plan.

If you have any further questions or comments, please call or e-mail.

Regards, Paul



Paul Bumstead Dillon Consulting Limited 235 Yorkland Boulevard Suite 800 Toronto, Ontario, M2J 4Y8 c: 905-260-4887 PBumstead@dillon.ca www.dillon.ca

Please consider the environment before printing this email

On Mon, 28 Dec 2020 at 14:24, <noreply@brantford.ca> wrote:

Hello,

Please note the following response to 45-day Public Review has been submitted at Monday December 28th 2020 2:23 PM with reference number 2020-12-28-034.

• Please identify any comments, questions or concerns you may have regarding the Master Servicing Plan or Transportation Master Plan:

I would like to address my concerns with the Transportation Master Plan and the City of Brantford ONLY looking at the Oak Park Road Bridge as a means for updating the transportation concerns of our community. When the city expanded to the north, the south part of the city was left out. With the Oak Park Alternative, the core, south and east in the city are left out.

-I would like in particular to address the removal of Clarence St railway line from the plan. According to your report, the railway line was included for the period 2014-2019 and then it was removed as not an alternative. I was told by Councilor Neumann in 2018 that this railway line was going to be purchased by the city and removed to ease traffic in that area. It does not make good planning sense to have a railway thru the downtown core of the city. However, I have been told that this railway line is now under private ownership and is being upgraded as we speak. I think that if the city was 'not given the option' to purchase this line, then the city needs to further engage the new owners with the purpose of removing the line to help with traffic bottlenecks in this area. It is unacceptable that the city was unable to acquire this line to help ease consumer traffic in this area.

-There is an option in the Master Plan for a traffic route to be created along Murray Street. This should be explored further since there is no option available in the downtown area.

-I have sent in my concerns separately regarding the Oak Park extension bridge in a separate email. I don't know that the consulting firms being used today were made aware of the failed directional drilling across the Grand River where the Northwest Pedestrian Bridge is located. Please look at the witness statement for Daryl Cowell at the OMB Hearing in 2012/13 regarding the Waterfront Master Plan. As stated in Mr. Cowell's report, this area is the location of the meeting of two moraines and has significant complex land features which need to be reviewed. Fractured rock and karst topography are problematic and are identified in this area.

- First Name (Optional)
- Last Name (Optional)
- Address (Optional)
- Email (Optional)

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3/3/2021 Dillon Consulting Limited Mail - Fwd: Brantford Transportation Master Plan November 2020 Update - Response to Feedback - DRAFT - K...

From: **Bumstead**, **Paul** <pbumstead@dillon.ca> Date: Tue, 19 Jan 2021 at 10:57 Subject: Brantford Transportation Master Plan November 2020 Update - Response to Feedback - DRAFT -To:

Cc: Sharon E. Anderson <andersonsh@brantford.ca>, Evie Przybyla <EPrzybyla@brantford.ca>

Thank you for your comments/questions.

With respect to the statement that "With the Oak Park Alternative, the core, south and east in the city are left out" we emphasize that the Transportation Master Plan TMP) reviewed the growth forecasts and transportation related issues and problems associated with the increased travel demands, at a City-wide level. Strategies to reduce vehicular travel were developed and applied and alternative network improvements were identified and evaluated for their potential to address the identified problems remaining. The Oak Park Road Extension was considered as an alternative to address capacity issues crossing the Grand River and to reduce future congestion on Paris Road, Brant Avenue, and Hardy Road, while also providing opportunities for better connectivity and continuity of transit service and active modes. Veterans Memorial Parkway, Clarence Street, Murray Street, and Wayne Gretzky Parkway, as well as County Road 18 Transportation System Management (TSM) improvements, were considered to address future capacity issues accessing and exiting the core and south and east areas of the City.

The railway spur line adjacent to Clarence Street was purchased from CN Rail by a private entity and remains under private ownership and is essential for the operation of their business. The City's Official Plan states that where feasible the City of Brantford shall endeavor to acquire abandoned rail lines and redevelop for uses appropriate to the City's overall land use and transportation plans. If and when the current owner of the rail line plans for its discontinuation, the City would have the opportunity to acquire this corridor. In the 2017 TMP Project 1A "Clarence Street Improvement, Colborne St. to West Street – widening to include two-way left turn lane and signals" was included in the 2014-2019 time frame. The 2020 TMP update includes Clarence Street TSM improvements (addition of signals and left turn lanes at critical intersections) as part of the TMP recommendation. Clarence Street has not been removed, but the nature of the required improvement has been repositioned (i.e. the TSM improvements required to address the horizon year problem are not dependent on a general corridor widening). The TSM improvements are not identified in the infrastructure costs as they are localized improvements. These assumptions and recommendations will be re-assessed and confirmed as part of a Transportation Master Plan addendum being prepared in 2021 to address the most recent 2051 growth forecasts from the Province that are being incorporated in the City's Official Plan –Envisioning Our City 2051. However, at this time the railway remains in private ownership.

With respect to Clarence Street - Murray Street, the need for expanded roadway capacity in the Clarence Street - Murray Street corridor was considered marginal in the 20 year horizon, and therefore an increased role for Murray Street was noted as needing protection in the long term. It is also noted that the impacts of the 2051 traffic volumes based on updated population and employment forecasts and their distribution in this area will be assessed as part of the Transportation Master Plan Addendum to be completed in 2021. The Transportation Master Plan is generally updated approximately every 5 years, these updates review revised traffic updates and may result in changes to the projected capacity needs of corridors throughout the City and may result in infrastructure projects being recommended at that time.

The additional information you have provided related to Oak Park Road is noted and will be shared with the Environmental Assessment project team for Oak Park Road for consideration.

If you have any further questions / comments, please call or e-mail.

Regards Paul

> Paul Bumstead Dillon Consulting Limited 235 Yorkland Boulevard Suite 800 Toronto, Ontario, M2J 4Y8 c: 905-260-4887 PBumstead@dillon.ca www.dillon.ca

On Wed, 30 Dec 2020 at 21:06,

wrote:

To the Transportation Planning Team:

Per the request on the city's webpage, below is my feedback on the Transportation Master Plan (TMP) dated November 2020. I will preface this by saying that I am not a traffic engineer, but I have lived in Brantford for 20 years. I have commuted to various workplaces in the region and I travel often from Holmedale to West Brant to visit my father at the John Noble Home. I am also a runner and cyclist, so I am very familiar with the bike trail infrastructure. While there are elements of the TMP that I applaud, I will say up front that I am very much opposed to the proposed Oak Park Road Extension (OPRE) bridge over the Grand River for reasons that I will outline below.

First the positives, I was very pleased to see the recommendations to consider a holistic view of transportation in the city which includes vehicles, transit and "active transportation" such as cycling and walking. The proposed investments in transit and active transportation are steps in the right direction and long overdue. Several other road works recommendations in the plan such as improving the Veterans Memorial Bridge crossing and working with Brant County to upgrade Phelps Road to the west are both excellent ideas that should be undertaken sooner rather than later.

So, what are the problems with the proposed OPRE project? I have provided feedback to Council and to the OPRE project team and I will summarize my key objections here again for the record:

- 1. Serious degradation of a provincially unique environmental area.
- 2. Destruction of recreational facilities such as the Oak Hill trail bridge and access to Brant Park.
- 3. Disturbance of the Oak Hill Cemetery.
- 4. Noise and disruption to existing neighbourhoods on the Colborne West side.
- 5. Possibility of conflict with First Nations peoples over land claims and archaeological remains.
- 6. Extreme cost of the OPRE to the city (including ongoing maintenance costs).

The basis for the OPRE project as stated in the TMP is the proposed growth of the city to 163,000 residents by 2041. I do understand that the traffic department did not invent that number and it comes from the 2019 version of the province's "Places to Grow" plan (although Schedule 3 of Places to Grow actually states Brantford would be 165,000 residents by 2051 – source).

Over the last 20 years the city has maintained a growth rate of approximately 0.85% (source). To achieve growth to 163,000 residents over the next 20 years, our growth rate would have to go up to 2.3% per year starting next year. In other words, our growth rate would have to be 270% higher than in the previous two decades. Absent some huge change in Brantford's economy, it is difficult to believe this is possible. By way of comparison, over the last two decades Cambridge has grown by 1.18% per year and Kitchener at a respectable 1.5% per year. If Brantford were to remain at 0.85% per year, our population in 2041 would be approximately 120,500 and if we were to double our growth rate to something like 1.5% the city would grow to around 138,000 by 2041.

The problem then becomes, how does a lower growth rate influence the choice of projects – especially the OPRE? If the city ends up at only 120,000 to 140,000 residents, then it seems logical to assume that the other improvements recommended in the TMP could easily cope with the cross-river traffic load. We will have spent \$100 million (fully one third of the whole proposed 20-year transportation construction budget) on a single project which will end up simply providing a slightly shorter trip to the 403 for residents of a low-density suburb in the South West corner of the city. This seems like the very definition of a "White Elephant" or "Boondoggle" project – extremely high-cost infrastructure that ends up being underutilized. The TMP should include a range of options based on potential population growth scenarios.

Even if the city grows to the size projected, the TMP itself clearly states "the two main crossings of the Grand River are still anticipated to be significantly over capacity even with the addition of the Oak Park Road Grand River crossing (4 lanes) and a widening of the Veteran's Memorial Parkway Grand River crossing (2 to 4 lanes)." (pg 86) So, even after destroying the environment of the Northwest and spending so much money, the OPRE will not solve the core strategic problem of the capacity of the two downtown river crossings. For instance, shoppers going from West Brant to the bigbox retailers on Wayne Gretzky will still likely take the Lorne Bridge and Colborne Street rather than detouring backwards to take the OPRE and 403 (although they might take Phelps Road to Garden Avenue).

Another weakness in the TMP with regards to the OPRE is analysis of what traffic the OPRE is expected to handle. The document states in several places that the OPRE is supposed to divert the following traffic loads:

3/3/2021

Dillon Consulting Limited Mail - Fwd: Brantford Transportation Master Plan November 2020 Update - Response to Feedback - DRAFT - A...

- Brant Avenue St Paul Avenue to Colborne Street: 300 500 peak hour vehicles
- Paris Road Highway 403 to Powerline Road: 350 peak hour vehicles
- Hardy Road Ferrero Boulevard to Paris Road: 300 500 peak hour vehicles

What then is the traffic volume the bridge will be expected to handle? Would it be 500 + 350 + 500 = 1,350 peak hour vehicles, for instance? This would then appear to make the OPRE almost as busy as the Lorne Bridge and would mean that it would generate considerable pollution and noise in the Northwest and potentially a traffic nightmare on Colborne West. The TPM must include a detailed traffic analysis for the OPRE like those provided for the other traffic corridors in the city such as the Lorne Bridge or West Street. Presumably, this is available from the city's Vissim traffic simulation software as part of the overall analysis of the city's road network.

In sum, the OPRE presents itself as a very risky and expensive project that is based on dubious assumptions. If we do not meet the growth goals set by the province (or the next provincial government changes them arbitrarily yet again) then it is likely to be grossly underutilized. However, the damage to the Northwest region will be permanent and the \$100 million hole in the budget will prevent investment in other areas. Perhaps it will be possible to achieve something like 75% of the benefit of the OPRE by investing more in transit, traffic demand management and active transportation while preserving the natural heritage of the Northwest. Overall, this would be a much better deal for taxpayers as well as the environment. Solving potential future traffic problems by building more new road mega projects looks an awful lot like city planning "old think" from the 1970s. Studies for years have found that building more roads puts more people in their cars and perpetuates the cycle of congestion.

My preferred recommendation would be to remove the OPRE entirely from the TMP and immediately stop the wastage of taxpayers' money on further studies. Failing that, I strongly recommend putting the OPRE into the more distant "2032 – 2041" timeframe from the current "2026 – 2031" mid-term so that there can be future evaluations of how the population growth of the city is evolving over the coming years. In the intervening time, we can maximize investment in the positive alternatives and evaluate how well they are working.

Many thanks for the opportunity to provide this feedback and best wishes for a safe and prosperous New Year.

Best regards,



3/3/2021 Dillon Consulting Limited Mail - Fwd: Brantford Transportation Master Plan November 2020 Update - Response to Feedback - DRAFT - A...

From: **Bumstead**, **Paul** <pbumstead@dillon.ca> Date: Tue, 19 Jan 2021 at 10:57 Subject: Brantford Transportation Master Plan November 2020 Update - Response to Feedback - DRAFT -To:
C: Sharon E. Anderson <andersonsh@brantford.ca>, Evie Przybyla <EPrzybyla@brantford.ca>

Thank you for your comments/questions.

The six concerns you list related to the OPRE have been added to the project record. The purpose of the Transportation Master Plan (TMP) is to set the long term strategy for the transportation network to achieve the vision for increased use of alternative modes and mobility choice for a wider range of users, purposes, and destinations. The vision is based on the current planning directions and policies. While past growth can be a good indicator of trends, they are based on many complex global and local economic, social and planning conditions. These conditions can reach critical tipping points for communities like Brantford as urban needs change in and outside of the community. The City monitors these economic and social conditions by performing updates of strategic studies, like the TMP, at regular intervals. In the case of the TMP, the foundations and conditions are re-assessed to make sure that significant changes in any infrastructure program as a result of changing policy direction is captured on an approximate 5 year cycle.

The statement made on page 86 of the TMP is specifically related to the performance of the "increase infrastructure" alternative, i.e. without Travel Demand Management (TDM) or Transportation System Management (TSM) improvements and is meant to illustrate that infrastructure alone will not solve the anticipated long term city wide transportation needs. The recommended solution therefore includes not only vehicular infrastructure but also significant investment in transit service optimization/expansion and infrastructure/programs to promote active mode use to resolve city wide issues. If all these initiatives are achieved then the core strategic problem of the capacity of the two downtown river crossings will be substantially addressed.

The potential market in 2041 for the OPRE as identified using the strategic transportation model would be 1,350 peak hour vehicles in the peak direction or approximately 12,400 Average Annual Daily Traffic. This travel demand in the peak hour will require a four lane cross section to provide the necessary capacity to meet the future travel demands in the network including the adjacent parallel roadways. A detailed traffic analysis for the OPRE would be included in the scope of the Environmental Assessment for that project as one of the studies used to inform decision making on the alternatives[please refer to information found on following project webpage <u>https://www.brantford.ca/en/your-government/oak-park-road-extension.aspx#How-many-vehicles-per-day-will-use-the-Oak-Park-Road-Extension</u>]. The City's current analysis indicates that by 2041, the Oak Park Road Extension will have an AADT (Annual Average Daily Traffic) of 12,400 vehicles. Most of these vehicle trips will be generated by ongoing and/or expected planned future developments in south and west Brantford and the County of Brant. The extension will ease congestion on alternate and parallel routes, particularly on Lorne Bridge and Brant Avenue.

Your additional comments and recommendations regarding timeline, usage, accuracy of the growth targets and cost have been added to the project record.

If you have further questions or comments, please call or e-mail.

Regards, Paul



Paul Bumstead Dillon Consulting Limited 235 Yorkland Boulevard Suite 800 Toronto, Ontario, M2J 4Y8 c: 905-260-4887 PBumstead@dillon.ca www.dillon.ca

Please consider the environment before printing this email

3/3/2021

On Tue, 19 Jan 2021 at 11:46, Hello Paul, > wrote:

Thank you very much for the detailed response and I appreciate that my feedback has been registered. I will reiterate my strong belief that the risks involved in this project (financial, environmental and cultural) outweigh the benefits - at least in the medium term. As such, this project should be put into the 2031+ bucket so that further analysis can determine if the traffic and development trends discussed in the plan come to pass. Active transportation and demand management seem like the first priority followed by a redevelopment of the downtown crossings. While it would complicate the TMP document, some understanding of how alternate population trends would impact traffic volumes would be useful for decision making here.

I have one question with regards to your statement "1,350 peak hour vehicles in the peak direction or approximately 12,400 Average Annual Daily Traffic", yet the Feasibility Study by Parsons says PM Peak Hour volume of 2,879 trips (see attached screenshot). I apologize, but I'm not a traffic engineer, so I don't understand the discrepancy in numbers here. Can you explain the difference?

Have a great rest of the week!

regards,

3/3/2021 Dillon Consulting Limited Mail - Fwd: Brantford Transportation Master Plan November 2020 Update - Response to Feedback - DRAFT - A...

From: **Bumstead**, **Paul** <pbumstead@dillon.ca> Date: Mon, 25 Jan 2021 at 17:13 Subject: Re: Brantford Transportation Master Plan November 2020 Update - Response to Feedback - DRAFT -To: Cc: Sharon E. Anderson <andersonsh@brantford.ca>, Evie Przybyla <EPrzybyla@brantford.ca>

Again, thank you for comments/thoughts.

With respect to your question re: the difference between 1,350 peak hour peak, direction volume forecast and the 2,879 trips identified in Table 2 of the Oak Park Road Extension Feasibility Study (Parsons, July 2019), I offer the following in reply:

The 1,350 vehicle/ hour forecast reflects the number of vehicles moving in the one direction (the highest or busiest direction) on the future extension (specifically on the bridge) during the busiest hour of the day (typically the morning or afternoon peak hour). The 12,400 Annual Average Daily Traffic is a typical 24 hour volume on the extension (both directions included).

Table 2 from the Feasibility Study reports on the trip generation (2,879 vehicles/hour being the two-way trip generation versus 1,470 vehicles/ hour which is the peak direction hourly trip generation) associated with the adjacent land use (identified in Figure 6, provided below). Table 2 does not report on the directional distribution of the trips generated or proportion of this volume of traffic assigned to the adjacent road network including Oak Park Road extension or other routes. The volume on the Oak Park Road extension will comprise trips from all parts of the City using the extension as part of their route between origin and destination. This will include trips from the adjacent area but not all, as trips to/from the adjacent area may use routes between their origin and destination that do not make use of the Oak Park Road extension, examples: trips from the north of Hardy Road area to Highway 403 or points north; and trips from Putruff Road/Robinson Road area to Rest Acres Road and beyond)





I trust this provides the clarity you were seeking.

Regards Paul

> Paul Bumstead Dillon Consulting Limited 235 Yorkland Boulevard Suite 800 Toronto, Ontario, M2J 4Y8 c: 905-260-4887 PBumstead@dillon.ca www.dillon.ca



Leo F. Longo Direct: 416.865.7778 E-mail: mhelfand@airdberlis.com

January 2, 2021

Evie Przybyla, City of Brantford, 100 Wellington Square, Brantford, ON, N3T 5R7

Dear: Ms. Przybyla

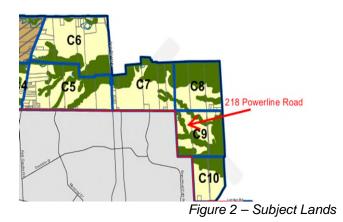
Re: Transportation Master Plan Submission - 218 Powerline Road

Aird & Berlis LLP are lawyers for the owners of land municipally known as 218 Powerline Road, Brantford. 218 Powerline Road has a frontage of 311 metres along Powerline Road. The lands are shown in Figure 1 below:



Figure 1 – Subject Lands

As shown in Figure 2 below, our client's lands are the western-most concession lot of the C9 Community Area block, as identified in the Municipal Comprehensive Review Part 2 Report. Referring to the photo above, 218 Powerline abuts the Brantwood Park subdivision neighborhood and shares both its western as well as its southern boundaries with Brantwood Park.



January 2, 2021 Page 2

Please accept this letter as a formal comment, on behalf of our client, respecting the City of Branford's 2020 Transportation Master Plan Update (the "**TMP**").

<u>Comment #1: The TMP References and Applies an Outdated Version of the Growth Plan</u> for the Greater Golden Horseshoe

The following objectives are noted at section 1.2 of the TMP:

- Plan to accommodate city growth to 2041, including the urban boundary expansion of the City of Brantford, the intensification target for development within the Built-Up Area, and density targets within the Designated Greenfield Area as set out in the new Official Plan.
- Coordinate TMP preparation with the City's concurrent Municipal Comprehensive Review (OP) and Master Servicing Plan (MSP) study in terms of growth forecasting.

The TMP has not considered or applied significant updates to the Growth Plan, 2019 that were enacted in 2019 and 2020.

Under the Growth Plan, 2019, as amended, the City is no longer being directed by the Province to achieve a higher proportion of its development in the Built-up Area. The density target for development on new Designated Greenfield Areas is greatly reduced, and the applicable land use planning horizon is increased from 2041 in the Growth Plan, 2017, to 2051 in the Growth Plan 2019, as amended.

To the extent that the MCR and MSP incorporate these policy updates, as it is required to do, the TMP ought to similarly incorporate these policy updates in order to coordinate growth forecasting with the MCR and MSP.

Comment #2: The C9 Lands Can be Developed with Subdivision Local Roads

Powerline Road is described as a Major Arterial which is to be widened to 4 lanes throughout most of the City by 2030. The eastern end of Powerline is expected to be widened between 2031-2041.

The TMP does not show any proposed local roads within the City's Designated Greenfield Areas or within the Boundary Expansion Lands, with connection to Powerline Road. 218 Powerline Road has 311 metres of frontage along Powerline Road. It is submitted that the 218 Powerline Road lands can be developed with subdivision local roads connecting to Powerline Road, and/or, where appropriate, to the existing Brantwood Park residential subdivision to the west.

<u>Comment #3: The Provincial Policy Statement, 2020 Directs the City to Make Efficient Use</u> of Land, Improve Connectivity and Promote Active Transportation

218 Powerline Road is located directly east and north of existing residential subdivisions. The Provincial Policy Statement, 2020, policy 1.1.3.6 states that new development should occur adjacent to existing built-up neighborhoods to allow for the efficient use of land.



January 2, 2021 Page 3

Policy 1.6.7.3 of the Provincial Policy Statement, 2020, directs that "As part of a multimodal transportation system, connectivity within and among transportation systems and modes should be maintained and, where possible, improved including connections which cross jurisdictional boundaries."

Policy 1.5.1(a) further provides that "Healthy, active communities should be promoted by planning public streets, spaces and facilities to be safe, meet the needs of pedestrians, foster social interaction and facilitate active transportation and community connectivity."

It is submitted that 218 Powerline Road, and the C9 Community Area block generally, is necessary to effectively promote efficient use of land, community connectivity between the C8 Lands to the north, the C10 Lands to the south, and the existing Brantwood Park residential subdivision to the south and west.

Comment #4 Connectivity with the north-south connector roads planned for C8.

It is submitted that the north-south connector roads planned for the C8 Community Area block, where they intersect Powerline Road, could be extended south into 218 Powerline for effective use of traffic controls.

Comment #5: Any Updates to the MCR or MSP Should Be Factored into the TMP

It is submitted that, to the extent the MCR and MSP are revised before finalization, so too should the TMP.

Should you have any questions please do not hesitate to contact the undersigned.

Yours truly,

AIRD & BERLIS LLP

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Leo F. Longo Partner

LFL/MH

cc. Jay Hitchon (Waterous Holden Amey Hitchon LLP) Alan Waterfield (City of Brantford) Nicole Wilmot (City of Brantford)

42922257.1

AIRD BERLIS



Leo Longo Aird Berlis LLP 181 Bay Street, Suite 1800 Toronto, Canada M5J 2T9

February 16, 2021

Dear Mr. Longo,

Subject Line: City of Brantford Master Servicing Plan – Envisioning Our City: 2041

Transportation Master Plan Submission – 218 Powerline Road

Thank you for your interest in the City's joint planning initiative "Envisioning Our City: 2041" and your comments as they relate to 218 Powerline Road.

Further to your letter dated January 2nd 2021, we would like to state that it is not within the scope or the authority of the Transportation Master Plan to make changes to the City's Official Plan or to make recommendations on the City's land use designations and/or the re-designation of lands.

Notwithstanding the above we would like to provide the following comments related to the Transportation Master Plan (TMP) and the future servicing of the 218 Powerline Road property. The following follows the format of your original comment title in italics, followed by our comments in response.

Your Comment #1: The TMP References and Applies an Outdated Version of the Growth Plan for the Greater Golden Horseshoe

- The Transportation Master Plan (TMP) has been prepared on the same land use 2041 forecasts as the Official Plan Municipal Comprehensive Review (OP/MCR) and Master Servicing Plan (MSP). The MCR provided the direction with respect to land use, and the TMP activities were coordinated with the MCR and MSP.
- The assumptions and recommendations from the TMP will be re-assessed and confirmed as part of a Transportation Master Plan addendum being prepared in 2021 to address the most recent 2051 growth forecasts from the Province that have been incorporated in the City's Official Plan – Envisioning Our City: 2051 through the OP/MCR Addendum.



Your Comment #2: The C9 Lands Can be Developed with Subdivison Local Roads

- The C9 lands were not identified as part of the preferred land use scenario from the MCR and therefore the transportation requirements for this block have not been included in the future 2041 condition. The TMP is a strategic assessment of the arterial and major collector road needs. Local roads, related to the development of land use blocks, are not within the scope of the TMP.
- However, it is noted that to preserve the function of a major arterial, direct driveway and local road access is typically minimized. The provision of such local road connections to Powerline Road, as described in your comment, would not be desirable. At this time, it is unclear where connections to the existing Brantwood Pak residential subdivision could be made without significant impacts to the existing neighbourhood. The assessment of such local road needs and connections would need to be the subject of a more detailed traffic study as part of a future Block Plan process for the C9 block.

Your Comment #3: The Provincial Policy Statement, 2020 Directs the City to Make Efficient Use of Land, Improve Connectivity and Promote Active Transportation.

• The Settlement Area proposed in the OP/MCR achieves those objectives. The exclusion of the C9 lands was the result of a detailed evaluation as part of the OP/MCR, which included transportation criteria. The assessment of the benefits of C9 is not within the scope of the TMP.

Your Comment #4: Connectivity with the north-south connector roads planned for C8

• The assessment of such collector and local road needs within Block C9 and connections to other roads would need to be the subject of a more detailed traffic study as part of the Block Plan process.



Your Comment #5: Any Updates to the MCR or MSP Should be Factored into the TMP

• The assumptions and recommendations from the TMP will be re-assessed and confirmed as part of a Transportation Master Plan addendum being prepared in 2021 to address the most recent 2051 growth forecasts from the Province that have been incorporated in the City's Official Plan – Envisioning Our City: 2051.

If you have any other questions or require additional information please feel free to contact the undersigned.

Mike Abraham Manager of Infrastructure Planning

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Gary Peever Manager of Development Engineering

CC: Matthew Helfand, Aird Berlis Paul Bumstead, Dillon Alan Waterfield, City of Brantford Steve Dyjach, City of Brantford Sharon Anderson, City of Brantford Russ Loukes, City of Brantford



January 4, 2021

Via: Email

Ms. Sharon Anderson, P. Eng. MSP Project Manager City of Brantford 100 Wellington Square Brantford ON N3T 2M3

Dear Ms. Anderson:

Re: Master Servicing Plan for Water Wastewater and Stormwater Services (Master Plan) City of Brantford Comments in Response to Notice of Completion Project No.: 300050157.0000

We are writing on behalf of Virgoan Properties and Bieldy Knowles Holdings Inc., (referred to jointly as Virgoan) who own approximately 133 hectares within the City of Brantford's northern expansion lands. The Virgoan lands are situated between Balmoral Avenue and Paris Road, immediately south of Powerline Road, and adjacent the existing built boundary of the City to the south.

With the Official Plan Review process nearing completion, Virgoan intends to initiate Block Plan and Draft Plan of Subdivision processes in 2021 with the objective of advancing to development lands identified for both Employment and Residential uses in the City's updated Official Plan. With those timelines in mind, we are pleased to have the opportunity to provide our comments in response to the City's Notice of Completion of the Master Plan. Our comments are organized in the same manner as that of the Master Plan and are primarily related to the timing of the delivery of infrastructure proposed in the Capital Plans. We do have some other comments and/or points of clarification that are not specific to timing of infrastructure delivery. We have also included a comment/clarification relating to the Transportation Master Plan Update, identified below following the Master Plan comments.

Volume III – Water Master Plan

In review of the Water Master Plan we note that the following water projects

- W-M-002, Oak Park Road Trunk Watermain.
- W-M-003, Powerline Road Trunk Watermain.
- W-M-006, Paris Road Trunk Watermain.

have been identified to be completed as a single Class Environmental Assessment which would evaluate the preferred alignment for the trunk watermain as either Oak Park Road or Paris Road. However, the Paris Road Trunk Watermain timing is listed as 5-10 year in contradiction to the first two projects listed which are carried in the 0-5 year timeframe. We would suggest that the timing for the Paris Road Trunk Watermain also be carried at 0-5 years, consistent with the other two projects. This will ensure that, regardless of the outcome of the EA in the determination of the preferred alignment, either of the Oak Park Road or Paris Road Trunk Watermain timings would align with the Powerline Road Trunk Watermain timing.

We also note that the following projects have been identified in the 5-10 year timeframe:

- W-M-007, Powerline Road Distribution Watermain.
- W-M-008, Powerline Road Distribution Watermain.

Subject to completing the Block Plan process, and determining the specific servicing requirements through more detailed assessment, we recommend advancing those projects within the 0-5 year timeframe as opposed to the 5-10 year timeframe, given the proximity to the Virgoan lands and the added security of supply these additional mains would provide.

Volume IV – Wastewater Master Plan

In reviewing the Wastewater Master Plan, we remain most interested in the available capacity within the Woodlawn Road Wastewater Pumping Station (Woodlawn WWPS) to service the initial phases of development of the Virgoan lands. We appreciate the acknowledgement of the City in the Master Plan of Virgoan's interest in utilizing the design firm, as opposed to observed firm, capacity of the Woodlawn WWPS. We note that in reviewing the Wastewater Capital Plan, and the associated specific Project Sheets included in Appendix F, that Project WW-PS-015 appears to be solely for an initial Feasibility Study to assess the extent of rehabilitation required to optimize the Woodlawn WWPS, although the adopted budget figure of \$400k would appear to include elements of rehabilitation beyond simply a study. We would request that the City incorporate sufficient budget within the 0-5 year timeframe to complete both the study and rehabilitation components of the Woodlawn WWPS given our client's intention to initiate development within that 0-5 year timeframe.

Beyond any rehabilitation projects contemplated for the Woodlawn WWPS, we are seeking clarification of the capacity available for an initial phase of development as exists today. In Section 2.2.4.2 of the report, it appears to imply that where no storage is available at an existing or new pumping facility that the pumping station capacity is determined based on the 100-year level of service, meaning the reserve pumping capacity is determined based on the conveyance of the 100-year design storm peak flow. Alternatively, where 1-hour of onsite storage for the 10-year design storm peak flow is available, the reserve pumping capacity is based on the 10-year design storm peak flow is available, the reserve pumping capacity is based on the 10-year level of service, being the conveyance of the 10-year design storm peak flow. Could you please confirm if our understanding is correct?

Further, in Section 3.3 (Table 9) the forecast population for the Woodlawn Road WWPS is listed at 4,980 in 2041, equating to a residential population growth of 3,290 from 2016. In addition, the table indicates employment growth of 280 through 2041. It is not clear to us, in reviewing the Traffic Zone data in Appendix B, from

where this number is derived and to what specific area it applies. In Section 4.3.2, Table 15 (Projected System Flows) shows an increase in the Average Dry Weather flow of 1 MLD in 2041, which aligns with the forecast population and employment increase, but does not appear to be reflected in the Traffic Zone data. When the growth is extended through the analysis of the existing system and the wet weather flow assessment, as summarized in Table 19, it would appear that the Woodlawn Road WWPS has sufficient capacity to support the projected 2041 growth (3290 residential and 280 employment) based on the application of the 10 year level of service review. Again, we'd like to confirm that our interpretation of the information is correct, as it makes a significant difference to the extent of an initial phase of development for the Virgoan lands before any pumping station upgrades take place.

We are pleased to see that projects WW-SS-001 Oak Park Road Trunk Sewer and WW-SS-002 North South Collector's Road Trunk Sewer have been included in the 0-5 year Capital Plan timing. We note that the following projects have been identified within the 5-10 year timeframe:

- WW-PS-002 Northwest-2 Wastewater Pumping Station.
- WW-FM-002 Northwest-2 Wastewater Pumping Station Forcemain.

Regardless of how much capacity may be available to the Virgoan lands in the Woodlawn WWPS, these projects will be necessary to service the balance of the lands, including a portion of both the Employment and Residential lands which are not able to drain by gravity to either of the Oak Park Road Trunk Sewer or the Woodlawn WWPS. As such, we would recommend these two projects also be advanced to within the 0-5 year timeframe.

Volume V – Stormwater Master Plan

Based on our review of the Stormwater Master Plan, we have some minor points of clarification relating to the quality control approach identified for Ponds 2 and 6. In both cases it is noted that all lands within the relevant sub-catchment will require site specific quality control to ensure adequate TSS removal prior to discharge to the SWM Ponds (ref pg. 62 and 72). However, the subsequent tabular summaries (Table 19 and 27) of the servicing strategy note that Quality Control will be provided with site specific controls in treatment train with SWM Pond. Please confirm the interpretation that only some measure of quality control will be provided on site but not all, and that the SWM pond is intended to be part of the quality control treatment system.

Section 6.1.6 makes reference to the upstream drainage area and the existing stormwater management ponds having discharge through the Balmoral-Powerline Southwest sub-catchment. It is noted that the flow from these existing facilities could be contained, subject to GRCA approval. It is also our understanding, through previous consultation with the City, that there would be a requirement for Pond 6 to be sufficiently sized to enable these two facilities to be removed. While this is not mentioned in the report, it would have implications to the size of the facility, the cost of the facility and the facility rating with respect to benefit to existing. If the intent of the City is to maintain the approach of greenfield facilities being developer funded and excluded from the Development Charge Capital Plan, then such Benefit to Existing could be addressed through a simple Cost Sharing arrangement.

In addition to the above, we understand that Phase 2 (Stage 2 Field Program) of the Subwatershed Study is currently underway in preparation for the Phase 3 (Comprehensive Subwatershed Study Update). Please provide us with confirmation of the timing for the completion of this update. Ideally, Block Plan and Draft Plan of Subdivision studies could be completed concurrently with the Subwatershed Study Update, otherwise it could potentially delay the development of our client's land.

Transportation Master Plan Update

Consistent with comments made in our previous memo dated August 24, 2020, we note that the Transportation Master Plan continues to carry two major collector roads extending from Balmoral Drive and connecting to Powerline Road within the Balmoral Block Plan, as identified on Figure 4-64 (pg. 161). The topography in the area, and an existing power line corridor running along the south side of the road may make such a connection unrealistic without a significant change in the vertical profile of Powerline Road through the area. We also note that the Proposed 2041 Cycling and Trails Network Plan on Figure 4-62 (pg. 157) appears to conflict with the road alignments on Figure 4-64. Could the City please clarify the origin of these road alignments and their status. Rather than identify multiple potential alignments, we suggest that a single collector aligned closely with the extension of the existing Balmoral Drive would address these concerns, and that the need for additional collector roads could be addressed through Block Plan Study.

We thank you for the opportunity to comment and/or seek clarification. We would be pleased to meet with you, virtually or otherwise, to discuss any aspect of this submission. Please call us if you have any questions.

Yours truly,

Burnside & Associates Limited

Ian Drever, P. Eng. President ID:lam

Executive Vice President, Land Development

Enclosure(s)

CC:

Mr. Gary Peever, City of Brantford (Via: Email)
Mr. Inderjit Hans, City of Brantford (Via: Email)
Mr. Alan Waterfield, City of Brantford (Via: Email)
Mr. Julien Bell, GM BluePlan, (Via: Email)
Ms. Juli Laudadio, DG Group, (Via: Email)
Mr. Corrado Russo, DG Group, (Via: Email)
Mr. David Falletta, Bousfields Inc. (Via: E-mail)

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Ian Drever & Lorena Niemi R.J. Burnside & Associates Limited 6990 Creditview Road, Unit 2 Mississauga, Ontario L5N 8R9

February 1, 2021

Dear Ian Drever & Lorena Niemi,

Subject Line: City of Brantford Master Servicing Plan – Envisioning Our City: 2041 Comments in Response to Notice of Completion

Thank you for your interest in the City's joint planning initiative "Envisioning Our City: 2041" and your comments as they relate to the Virgoan Properties and Bieldy Knowes Holding Inc., (Virgoan Bieldy) property located west of Balmoral Drive and south of Powerline Road.

Further to your letter dated January 4th, 2021, we would like to provide the following comments:

Volume III – Water

 The identified timeframes outlined in the Master Servicing Plan are an initial estimate based on projected growth rates and phased buildout of infrastructure. The project timeframes are used as a general sequencing guide and are used to support long-term financial planning of infrastructure needs. The implementation of projects will ultimately be dependent on the realized timing and location of growth. The City is not precluded from advancing or delaying project timeframes depending on need and/or availability of resources.

Volume IV – Wastewater

- The City has recently completed a condition assessment of all City owned and operated wastewater pump stations. This assessment identified station upgrades needed to reestablish each wastewater pump station design firm capacity. The \$400K budget amount for the Woodlawn wastewater pump station was identified in this study and includes the rehabilitation work.
- As referenced in our letter dated July 14, 2020:
 - The City current pump station allocation policy, which was established as a temporary measure until such time that the City establishes their long-term management strategy, allocates capacity based on existing peak 5-year design flows and the existing pump station's operational capacity. The final Master Servicing Plan recommendation is to transition to a 100-year design flow objective following any pump station upgrade and/or rehabilitation projects.
 - Based on the City's current allocation policy, approximately 23 L/s of capacity (existing 5-year flows against existing operational capacity) may be available;



however, following the planned rehabilitation works and increase in the station's performance objectives (existing 100-year flow against ECA capacity), the growth capacity at the Woodlawn Station is 16 L/s.

- The 10-year 1-hour storage is a separate and independent requirement which is needed for new or upgraded pump stations. For existing pump stations, the need for the 1-hour storage was evaluated on a case by case basis.
- Upon further review, the values in Table 9 appear to reflect the incorrect final growth allocations assumption scenario. The corrected values will be included in the final document. The values from Appendix B represent the correct allocations.
- As referenced in our letter dated July 14, 2020.
 - The servicing review for lands located within the proposed urban boundary (settlement area) expansion areas were completed based on existing ground elevations, identified natural heritage system, and existing City infrastructure capacities. Allowances for local grading, in order to simplify servicing and minimize the total number of pump stations and stormwater management ponds, was considered. Further, an evaluation of the servicing strategies was completed in the context of providing the best overall City-wide approach, including allowances for the servicing of all lands within the City's municipal boundary.
 - Based on above assumptions, the Master Servicing Plan assumed that the majority of the Virgoan Bieldy lands be directed to a new pump station that will generally service the expansion lands west of King George Road and to approximately 500 m west of Golf Road, subject to final site grading.
- Notwithstanding of the Master Servicing Plan allocation assumptions listed above; the City will consider servicing strategies for the Virgoan Bieldy that contribute up to 16 L/s of total peak flows to the Woodlawn Pump Station. For new contributing areas, peak flows should be calculated in a manner that is consistent with the City's Linear Design and Construction Manual.
- Please see the water servicing comments related to project timeframe.

Volume V – Stormwater

- The stormwater strategies outlined in the MSP are provisional and will need to be refined through the block planning process subject to appropriate City and agency approval.
- The general and area specific servicing requirements along with any potential infrastructure requiring a cost sharing agreement will be addressed through the stormwater management plans that will be required as part of the block planning process.
- The City has already initiated portions of the Subwatershed Study's field program and has budgeted for the completion of the Subwatershed Study Update. It is the City's intent that the Subwatershed Study be completed concurrently with the Block Planning Process.



Transportation Master Plan

• Figure 4-64 - Road Classification and Figure 4-65 - Proposed 2041 Road Network both align with Schedule 12 - Future Road Network of the Official Plan. Balmoral Ave, a major collector, is realigned slightly to the west. A minor collector is also provided in the adjacent block to the west to support and serve the future proposed land use. The Proposed 2041 Cycling and Trails Network Plan in Figure 4-62 needs to be updated to align with Schedule 12. The ultimate future alignments and connections of these roads would be subject to future, more detailed studies, prepared in support of the Block Plan and Draft Plans.

If you have any other questions or require additional information please feel free to contact the undersigned.

Mike Abraham Manager of Infrastructure Planning

Gary Peever Manager of Development Engineering

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January 4, 2021

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RE: City of Brantford Master Servicing Plan and Transportation Master Plan Envisioning Our City: 2041

Please find below the Grand River Conservation Authority's (GRCA) comments offered for the City's consideration regarding the City of Brantford Master Servicing Plan and Transportation Master Plan.

We understand that both the Master Servicing and Transportation Master Plans will require further refinement of environmental constraints and a more thorough assessment of impacts to natural hazard and natural heritage features. Further information will be provided and reviewed through future studies such as Environmental Assessments and block plans within the expansion lands.

The following comments have been organized with reference to the relevant volumes of the City's reports.

MASTER SERVICING

Volume 2 Plan and Policy

- 1. The report should be updated to refer to the most recent version of the Provincial Policy Statement (2020).
- 2. Section 6.2 The regulations quoted in the text are incorrect. The GRCA administers Ontario Regulation 150/06.

Volume 3 Water Master Plan

3. The water main upgrade and loop may trigger an EA as it would be adjacent to Phelps Creek, which is part of the recommended NHS (see Table 38, page 82).

Volume 4 Wastewater Master Plan

4. Schedule B or equivalent projects that have been identified within the Preferred Wastewater Servicing Strategy will be part of a developer-led local servicing plan and approved through the Planning Act Municipal development review process or will be satisfied through separate Class EA study prior to design and construction. The Preferred Wastewater Strategy did not identify any Schedule C projects.

As part of the detailed-design of the projects, the following study requirements should be considered:

- Refinement of infrastructure alignment;
- Identification of preferred construction methodologies;
- Completion of additional supporting investigations as required (e.g. geotechnical, hydrogeological, fluvial geomorphology, etc.);
- Review and mitigation of potential construction related impacts; and
- Satisfy all federal, provincial, municipal and conservation authority requirements.

Volume 5 Stormwater Master Plan

- 5. Section 2.8 of this report identified areas of slope erosion along the valley walls of Lower Jones Creek as well as significant slope erosion through Fairchild Creek. Consideration of erosion threshold analysis and extended detention of stormwater through these watersheds should be considered to protect the receiving bodies from further erosion.
- 6. GRCA recommends site-specific hydrogeological investigations to ensure that postdevelopment groundwater recharge meets pre-development levels.
- Stormwater management ponds discharging toward the south branch of Jones Creek, a cold water system, require thermal mitigation at the outlet. Low Impact Development (LID) strategies or cooling trenches at pond outlets will be required to mitigate thermal impacts from development.

Subwatershed Study and Scoped Study Requirements

Phase 1 of a subwatershed study has been completed for the City of Brantford Expansion Lands, with Phase 2 and Phase 3 yet to be completed. In addition, further studies will be required in association with the Block Planning Process and site specific developments, such as plans of subdivisions. The information compiled through these more detailed studies may result in modifications to the Master Servicing and Transportation Master Plans.

Should you have any further questions or comments please feel free to contact me at 519-621-2763 ext. 2236.

Sincerely,

ashley Graham

Ashley Graham **Resource Planner**