

PUBLIC WORKS COMMITTEE REPORT 21-001

1:30 p.m. Monday, January 11, 2021 Council Chambers Hamilton City Hall 71 Main Street West

Present:	Councillors A. VanderBeek (Chair), N. Nann (Vice-Chair), C. Collins, J.P. Danko, J. Farr, L. Ferguson, T. Jackson, S. Merulla, E. Pauls and M. Pearson
Absent with Regrets:	Councillor T. Whitehead – Personal
Also Present:	Councillors J. Partridge and M. Wilson

THE PUBLIC WORKS COMMITTEE PRESENTS REPORT 21-001 AND RESPECTFULLY RECOMMENDS:

1. Consent Items (Item 6)

- (a) That Consent Items 6.1 and 6.2 be received, as presented:
 - (i) Hamilton Cycling Committee Minutes November 4, 2020 (Item 6.1)
 - (ii) Cycling Infrastructure 2021 (PED21021) (City Wide) (Item 6.2)

2. Complete Liveable Better Streets Design Manual (PED21020/PW21002) (City Wide) (Item 8.1)

- (a) That staff be directed to consult with the public on the following core components that will comprise the Complete Liveable Better (CLB) Streets Design Manual:
 - (i) the eight Complete Streets Typologies described in Appendix "A" attached to Public Works Committee Report 21-001;

- (ii) the CLB Street Design Decision Support and Audit Tool attached as Appendix "B" to Public Works Committee Report 21-001;
- (iii) the Illustrative Applications of Complete Streets Design Strategies to Existing Streets attached as Appendix "D" to Public Works Committee Report 21-001;
- (iv) the Typical Complete Streets Design Features attached as Appendix "E" to Public Works Committee Report 21-001;
- (b) That Appendix "C" attached to Public Works Committee Report 21-001 being the Background Review and Jurisdictional Scan be received;
- (c) That staff report back to the Public Works Committee on the results of the public consultation on the core components of the Complete Liveable Better Streets Design Manual, and with a recommended Complete Liveable Better Streets Design Manual that will guide planning and design decisions for development applications, roadway reconstruction projects, planning studies, and environmental assessments for road infrastructure;
- (d) That the final Complete Liveable Better Streets Design Manual include an implementation strategy that addresses project scoping, capital planning tools, and an analysis of any incremental cost to future capital and operating budgets; and,
- (e) That staff be directed to engage the Development Industry Liaison Group (DILG) and other relevant stakeholders to discuss potential updates to the City of Hamilton Comprehensive Development Guidelines and Financial Policies Manual 2017 to incorporate complete streets design elements into new development and redevelopment.

3. 2021 Volunteer Committee Budget - Keep Hamilton Clean and Green Committee (PW21003) (City Wide) (Item 9.1)

That the Keep Hamilton Clean and Green Committee's 2021 base budget submission attached as Appendix "F" to Public Works Committee Report 21-001 in the amount of \$18,250, representing a zero-net levy impact from the previous year budget, be approved and referred to the 2021 operating budget process for consideration.

4. Delegated Authority to Transition Waste Management Recycling Programs to Individual Producer Responsibility (PW21004) (City Wide) (Item 9.2)

 (a) That the General Manager of Public Works, or their designate, be authorized and directed to negotiate with Producer Responsibility Organizations for the continued full funding of Tires and Batteries and for the future upload of Electrical and Electronic Equipment and Municipal, Hazardous and Special Waste programs to Individual Producer Responsibility; and,

(b) That the General Manager of Public Works be authorized to execute contracts with Producer Responsibility Organizations that would upload the financial responsibility of any waste management recycling program to Individual Producer Responsibility in a form acceptable to the City Solicitor.

5. Construction of a Cul-de-sac on Anchor Road, Hamilton (Ward 6) (Item 10.1)

WHEREAS, the North Hannon Neighbourhood Plan was amended in 2017 with the approval of Report PED17205;

WHEREAS, as the approved changes resulted in the elimination of any future extension of Anchor Road to the south;

WHEREAS, Pritchard Road abuts the south east limit of Anchor Road and development applications are proceeding;

WHEREAS, the future scope of any development will require the works within the existing Anchor Road Right of Way;

WHEREAS, the existing Anchor Road was constructed in the 1980's without a cul-de-sac,

WHEREAS, there will be operational benefits to having a proper cul-de-sac in place; and,

WHEREAS, there will be opportunities to enhance any natural trails in the vicinity with this project;

THEREFORE, BE IT RESOLVED:

- (a) That a proper cul-de-sac be constructed on Anchor Road, Hamilton, to be funded from the Ward 6 Special Capital Re-Investment Reserve Account (108056), to an upset limit of \$230,000; and,
- (b) That the Mayor and City Clerk be authorized and directed to execute any required agreement(s) and ancillary documents, with such terms and conditions in a form satisfactory to the City Solicitor.

FOR INFORMATION:

(a) CHANGES TO THE AGENDA (Item 1)

The Committee Clerk advised of the following changes to the agenda:

4. COMMUNICATIONS (Item 4)

4.1 Correspondence from Steve Budz respecting Item 6.2 - Cycling Infrastructure 2021(PED21021) (City Wide)

Recommendation: Be received and referred to the consideration of Item 6.2 – Cycling Infrastructure 2021 (PED21021) (City Wide).

11. NOTICES OF MOTION (Item 11)

11.1 Locke Street South Business Improvement Area (BIA) Lighting (Ward 1)

The agenda for the January 11, 2021 Public Works Committee meeting was approved, as amended.

(b) DECLARATIONS OF INTEREST (Item 2)

There were no declarations of interest.

(c) APPROVAL OF MINUTES OF THE PREVIOUS MEETING (Item 3)

(i) December 7, 2020 (Item 3.1)

The Minutes of the December 7, 2020 meeting of the Public Works Committee were approved, as presented.

(d) COMMUNICATIONS (Item 4)

(i) Correspondence from Steve Budz respecting Item 6.2 – Cycling Infrastructure 2021 (PED21021) (City Wide) (Added Item 4.1)

The correspondence from Steve Budz respecting Item 6.2 – Cycling Infrastructure 2021 (PED21021) (City Wide) was received and referred to the consideration of Item 6.2.

(e) DELEGATION REQUESTS (Item 5)

(a) The following delegation requests were approved:

- (i) Dr. Edward Berkelaar and Cloe Mitchell, Redeemer University, respecting Research on Chedoke Watershed Water Quality Monitoring (for *today's* meeting) (Item 5.1)
- (ii) Peter Nielsen respecting the Trillium Open Space Erosion Protection Plan (for a future meeting) (Item 5.3)

For further disposition respecting Item 5.1, refer to Item (f)(i).

(iii) Timothy Taylor and Tiffany Bound-Koocher respecting a Petition to Lower the Speed Limit on Upper Gage Avenue between Stone Church Road East and Rymal Road East (Ward 6) (for a future meeting) (Item 5.2)

The delegation request, submitted by Timothy Taylor and Tiffany Bound-Koocher, respecting a Petition to Lower the Speed Limit on Upper Gage Avenue between Stone Church Road East and Rymal Road East (Ward 6), was approved for a future meeting.

Result: Motion CARRIED by a vote of 10 to 0, as follows:

- YES Ward 2 Councillor Jason Farr YES - Vice Chair - Ward 3 Councillor Nrinder Nann YES - Ward 4 Councillor Sam Merulla YES - Ward 5 Councillor Chad Collins YES - Ward 6 Councillor Tom Jackson YES - Ward 7 Councillor Esther Pauls
- YES Ward 8 Councillor John-Paul Danko
- NOT PRESENT Ward 14 Councillor Terry Whitehead
- YES Chair Ward 13 Councillor Arlene VanderBeek
- YES Ward 12 Councillor Lloyd Ferguson

(f) PUBLIC HEARINGS / WRITTEN DELEGATIONS / VIRTUAL DELEGATIONS (Item 8)

(i) Dr. Edward Berkelaar and Cloe Mitchell, Redeemer University, respecting Research on Chedoke Watershed Water Quality Monitoring (Added Item 8.1)

Dr. Edward Berkelaar and Cloe Mitchell, Redeemer University, were permitted to address the Committee for an additional 5 minutes in order to complete their presentation.

Dr. Edward Berkelaar and Cloe Mitchell, Redeemer University, addressed the Committee respecting Research on Chedoke Watershed Water Quality Monitoring, with the aid of a presentation. The delegation from Dr. Edward Berkelaar and Cloe Mitchell, Redeemer University, respecting Research on Chedoke Watershed Water Quality Monitoring, was received.

(g) STAFF PRESENTATIONS (Item 8)

(i) Complete Liveable Better Streets Design Manual (PED21020/PW21002) (City Wide) (Item 8.1)

Rachel Johnson, Project Manager - Sustainable Mobility, addressed Committee respecting Report PED21020/PW21002, Complete Liveable Better Streets Design Manual, with the aid of a presentation.

The presentation, respecting Report PED21020/PW21002, Complete Liveable Better Streets Design Manual, was received.

For further disposition of this matter, refer to Item 2.

(h) NOTICES OF MOTION (Item 11)

Councillor Danko introduced the following Notice of Motion:

(i) Locke Street South Business Improvement Area (BIA) Lighting (Ward 1) (Added Item 11.1)

WHEREAS, residents of Kirkendall and the Locke Street South BIA patrons previously enjoyed enhanced seasonal lighting on the hydro poles along Locke Street;

WHEREAS, the outlets were removed when Alectra replaced all hydro poles along Locke Street South in 2018; and,

WHEREAS, improvements to the lighting on the street increases activity and vitality to the neighbourhood and promotes a healthy and engaged community;

THEREFORE, BE IT RESOLVED:

- (a) That \$5,000 be provided to the Locke Street Business Improvement Area to help support the addition of outlets to the hydro poles from the Ward 1 Area Rating Capital Reinvestment Discretionary Fund (3301909100); and,
- (b) That the Mayor and City Clerk be authorized and directed to execute any required agreement(s) and ancillary documents, with such terms and conditions in a form satisfactory to the City Solicitor.

(i) GENERAL INFORMATION / OTHER BUSINESS (Item 12)

(i) Amendments to the Outstanding Business List (Item 12.1)

The following amendments to the Public Works Committee's Outstanding Business List, were approved:

- (a) Items Considered Complete and Needing to be Removed:
 - Implementation and Resources Required re: Corporate Goals and Areas of Focus for Climate Mitigation & Adaptation Addressed as Item 4 of General Issues Committee Report 20-018 (CMO19008(a) / HSC19037(a)) Item on OBL: AAW
 - Peter McAlister, Stelco Canada, respecting a Request to Amend By-law 06-026 and By-law R84-026
 Addressed as Item 16 of Public Works Committee Report 20-012 (PED20220/PW20067/LS20037)
 Item on OBL: ABK
- (b) Items Requiring a New Due Date:
 - Minimum Maintenance Standards Changes Item on OBL: AC Current Due Date: January 11, 2021 Proposed New Due Date: February 1, 2021
 - Moving Hamilton Towards a Zero Plastic Waste Plan Item on OBL: AY
 Current Due Date: February 1, 2021
 Proposed New Due Date: February 19, 2021

(j) PRIVATE AND CONFIDENTIAL (Item 13)

Committee determined that discussion of Item 13.1 was not required in Closed Session, so the item was addressed in Open Session, as follows:

(i) Closed Session Minutes - December 7, 2020 (Item 13.1)

The Closed Session Minutes of the December 7, 2020 meeting of the Public Works Committee were approved, as presented, and shall remain confidential.

(k) ADJOURNMENT (Item 14)

That there being no further business, the Public Works Committee be adjourned at 3:20 p.m.

Respectfully submitted,

Councillor A. VanderBeek Chair, Public Works Committee

Alicia Davenport Legislative Coordinator Office of the City Clerk

Complete Streets Typologies

This appendix provides a description of the eight CLB Streets Typologies. The written descriptions are taken from the Complete Liveable Better (CLB) Streets Background Report to the 2018 Transportation Master Plan (TMP) Review and Update. The renderings are influenced by the CLB Streets Background Report, while the sample CLB streets, based on Hamilton streets, are identified by the street context using the draft CLB Streets Decision Support and Audit Tool.

1. Urban Avenues

Urban Avenues are located in the most dense, mixed-use urban centres, such as downtown Hamilton. Development along Urban Avenues is street oriented and streets are very busy. These streets carry high volumes of all modes of movement, including transit, cyclists, pedestrians, private automobiles and goods movement vehicles.

Street design generally accommodates transit and provides safe and dedicated facilities for pedestrians and cyclists. In order to promote safety on such busy streets, the design of these streets can include narrow lane widths and a reduction in the number of lanes to devote more space for on-street parking, tree growth, transit, and active transportation (e.g. dedicated transit lanes, more comfortable transit stops, Rapid Transit, wider sidewalks).

The rights-of-way range for Urban Avenues is dependent on context. Generally, most Urban Avenues in the older built-up areas of the City are historically 20 m, and it is feasible to achieve 26-30 m through development and redevelopment if heritage constraints and existing built form allow. As such, in these constrained corridors, trade-offs will need to be made.

In greenfield areas, larger rights-of-way are possible, and it is possible to achieve a 36 m ROW, or greater in some cases. Even with a 36 m ROW, it is necessary to make trade-offs, especially for designated rapid transit corridors.

Urban Avenues

Located in the most dense, mixed-use urban centers like Downtown Hamilton. High people-movement capacity with priority for transit and active transportation.



Source: City of Hamilton Complete-Livable-Better Streets Background Report

Example Urban Avenue:

Barton St E (West of Victoria)



Functional Classification Minor Arterial Context Urban 20 m Typical ROW Setbacks Narrow Land use Mixed use **Built form** Low to mid-rise Moderate (some Access control driveways) Off-peak parking **On-street parking** 5 (incl. turn lane) Lanes of traffic Traffic volume (ADT) 14.750 50 km/h Posted speed Both sides Sidewalks **Cycling facilities** None

Potential CLB Typology Urban Avenue or Transitioning Avenue or Main Street

CITY OF HAMILTON COMPLETE STREETS DESIGN MANUAL

2. Transitioning Avenues

Transitioning Avenues are major streets that cross the city east-west or north-south. They are generally located in commercial or residential areas that are transitioning to a more urbanized and mixed-use context. These streets are expected to undergo a transition from a built form context such as large format retail to medium or high-density mixed-use development or from low-density residential to medium or high density residential. As this occurs, it is expected that new development will be more street oriented. Transitioning Avenues could be Rapid Transit corridors.

Transitioning Avenues will continue to be designed to accommodate transit and active transportation and higher vehicle capacity. As such, transit vehicles, cyclists and pedestrians should have a greater proportion of dedicated space within the planned ROW. Transitioning Avenues are also major goods movement corridors. They may additionally include a centre median and dedicated turning lanes.

Transitioning Avenues

Major streets that cross the city east-west or north-south. Medium/high people-movement capacity with a high degree of access control.



Transit in dedicated lanes or in mixed traffic

Curb lane, offpeak parking



Example Transitioning Avenue:

Wilson St W (West of McClure)





Potential CLB Typology Transitioning Avenue

3. Main Streets

These roads historically have narrow ROWs and are found in urban areas and hamlets, often with a mix of at-grade retail and residential uses. Main streets exist in each of the former municipalities that make up Hamilton. They are often traditional shopping streets that are very pedestrian-oriented, with mixed-uses and smaller-scale buildings. They may contain heritage buildings and have a heritage character. Development along Main Streets is street-oriented and often surrounded by stable residential neighbourhoods.

Pedestrians should be prioritized with slower traffic, wide sidewalks and enhanced pedestrian amenities, and on-street parking. The quality of the boulevard is very important to the Main Street typology. The Main Street typology has an urban cross-section with an emphasis on streetscaping. Street amenities can include wide sidewalks, pedestrian oriented lighting, street trees, transit amenities, and opportunities for public art. The street is to be transit supportive with transit-oriented land uses.

Main Street

Streets with historical narrow rights-of-way found in urban areas. Low/medium people movement capacity with street-oriented mixed uses.



Source: City of Hamilton Complete-Livable-Better Streets Background Report

Example Main Street:

Kenilworth Ave N (North of Roxborough)



Functional Classification Major Arterial Context Urban Typical ROW 20 m Setbacks Narrow Residential and Land use commercial **Built form** Low rise Access control Minimal Off-peak **On-street parking** Lanes of traffic 4 23,500 Traffic volume (ADT) Posted speed 40 km/h Sidewalks Both sides **Cycling facilities** None

Potential CLB Typology Urban Avenue or Transitioning Avenue or Main Street

CITY OF HAMILTON COMPLETE STREETS DESIGN MANUAL

4.Connectors

Connectors are primarily found in residential areas and link residential neighbourhoods to each other and to other areas of the City. Development along the street is fairly stable but may be transitioning from low to medium density residential. Buildings are generally set back from the street fronting onto a wide boulevard.

Connectors accommodate a higher vehicle capacity than local streets. Given that they pass through residential areas, these streets should support active transportation with wide sidewalks and multiuse paths or dedicated cycling facilities. These wide and busy streets should also include ample soft landscaping and mature trees to buffer adjacent uses.

Connectors

Link residential and employment areas together and to other parts of the city. Medium people-movement capacity with moderate access control.

Bike lanes or multi-use paths

Pedestrian crossings at midblock and intersections

Sidewalks on both sides of the street; multi-use path optional



Example Connector Street:

Fennell Ave W (At Governors Blvd)





5. Neighbourhood Streets

Neighbourhood Streets provide direct access to residential areas. They have lower volumes of traffic and are most often used by people residing within the neighbourhood. As Neighbourhood Streets are surrounded by residential uses, traffic calming, minimizing through-traffic, and minimizing goods movements are important considerations. Neighbourhood Streets can be bicycle boulevards as well.

Neighbourhood Streets should accommodate comfortable and safe pedestrian and cyclist movement, as well as development of a mature street canopy.

Neighborhood Streets

Provide direct access to residential areas. Lower speed streets with minimal through-traffic.



Example Neighbourhood Street:

South Bend Rd E (East of Upper Wellington)



Functional Classification	Local
Context	Suburban
Typical ROW	20 m
Setbacks	Narrow
Land use	Residential
Built form	Low rise
Access control	Minimal
On-street parking	One side
Lanes of traffic	2 (no marked centreline)
Traffic volume (ADT)	1,500
Posted speed	50 km/h
Sidewalks	Both sides
Cycling facilities	Signed bike route

Potential CLB Typology Neighbourhood Street

6. Rural Roads

Appendix "A" to Item 2 of Public Works Committee Report 21-001 Page 8 of 11

Rural Roads are located outside Hamilton's urban core, primarily in agricultural and natural areas, or in industrial areas within the urban boundary. Their primary function is to move private and goods movement vehicles. However, they should include recreational cycling facilities (for example, a paved shoulder or multi-use path) and may accommodate transit. The edges of rural roads should also include drainage swells.

Rural Roads

Roads outside of Hamilton's core, primarily in agricultural and industrial areas.



Example Rural Roads Street:

White Church Rd E (At Tisdale)



Image: Google

Functional Classification Collector Context Rural Typical ROW 20 m Setbacks Wide Land use Agricultural, residential **Built form** Low-rise Access control Moderate **On-street parking** None Lanes of traffic 2 Traffic volume (ADT) 3,000 Posted speed 60 km/h Shoulders Gravel **Cycling facilities** None

Potential CLB Typology Rural Road

7. Rural Settlement Areas

Appendix "A" to Item 2 of Public Works Committee Report 21-001 Page 9 of 11

Rural Settlement Areas are small communities found throughout the rural areas of Hamilton. They are portions of Rural Roads that pass-through villages and provide services serving local residents as well as through-traffic. Rural Settlement Areas are often centred around an intersection or a section of highway, and may include residential frontages or a small number of commercial or other uses that serve the community.

In contrast with the rest of a Rural Road, Rural Settlement Areas should slow traffic through small settlements. These roads will be designed to support the local community and calm traffic as they transition into a village setting. As they are associated with clusters of low density residential or commercial development, boulevards should include sidewalks, street trees, cycling facilities, on-street parking, and other amenities to support local residential and retail activity.

Rural Settlement Areas

Found within small communities throughout rural areas of Hamilton. Portions of rural roads that slow traffic as they pass through villages.



Example Rural Settlement Areas Street:

Old Highway 8 (At Sheffield Rd) **Functional Classification** Local Context Rural Settlement Typical ROW 18-22 m Setbacks Narrow Residential and Land use commercial Built form Low rise Access control Minimal **On-street parking** None Lanes of traffic 2 Traffic volume (ADT) 800 Posted speed 50 km/h Sidewalks None **Cycling facilities** None Potential CLB Typology **Rural Settlement Road**

8. Industrial Roads

Industrial Roads are important goods movement corridors. They provide access by all mode of travel to industrial, warehouses, and other employment areas.

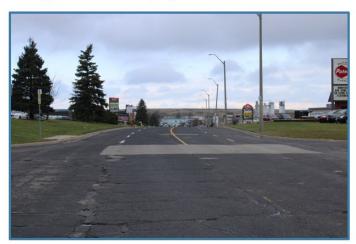
Industrial Streets

Industrial streets are important goods movement corridors. They provide access by all modes of travel to industrial, warehousing, and other employment areas.

Transit in mixed traffic

Bike lanes, cycle tracks or multi-use paths

Pedestrian crossings at mid-block and intersections locations



No on-street parking

Goods movement corridor

Sidewalks or multi-use paths on both sides of the street

Example Industrial Street:

Nebo Rd (At Lansing)



Functional Classification	Minor Arterial
Context	Industrial
Typical ROW	26 m
Setbacks	Wide
Land use	Employment
Built form	Low-rise
Access control	Minimal
On-street parking	None
Lanes of traffic	4
Traffic volume (ADT)	6,500
Posted speed	50 km/h
Sidewalks	None
Cycling facilities	None

Potential CLB Typology Industrial Street or Transitioning Avenue

CLB Street Design Decision Support and Audit Tool

Audit Tool Template

Provide some information about the street ye	ou're review	ving. The	tunctional c				used to inform the CLB I
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Location Functional classification			-	Traffic v On BLA		-	
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Select a typology above. Suggested typologies are	highlighted t	to the right.		Urban Ave Transitionii Main Stree Connector	ig Avenue		Neighbourhood Street Rural Road Rural Settlement Road
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Condition Definitions

Pedestrian Realm

	Urban	Rural
1	No sidewalk or multi-use path (MUP)	Possible granular/soft shoulder
2	1.5 m pedestrian clearway (may be adjacent to curb)	1.2 m paved shoulder
3	 1.8 m pedestrian clearway with 0.5 m edge zone (measured from back of curb) or - 3.0 m MUP with 0.6 m edge zone Street trees / furnishing zone if feasible	1.5 m paved shoulder
4	 2.0 m pedestrian clearway with 1.0 m edge zone or - 3.5 m MUP with 1.5 m edge zone Street trees and pedestrian amenities in planting/furnishing zone	3.0 m MUP, physically separated from travelled portion of roadway
5	 2.5 m ped clearway with 1.0 m edge zone Animated pedestrian corridor with street trees, pedestrian amenities, active street frontages and public art 	3.0 m MUP, beyond clear zone of roadway

Cycling Facilities

	Urban	Rural
1	No cycling facilities , sub-standard facilities, or facilities that are not contextually appropriate (based on Book 18 nomograph)	Possible granular/soft shoulder
2	Shared operations, preferably on roadway with no marked centreline. Posted speed: Max 40 km/h (30 km/h preferred) Volume: Max 3,000 ADT (<1,500 ADT preferred)	1.2 m paved shoulder
3	Bike lane, buffered bike lane, or advisory bike lane, in conditions supported by Book 18 nomograph. - or - Separated bike lane, cycle track, or MUP, minimum 1.5 m (one way), 3.0 m (two way). Separation may be semi-permeable (e.g. flex bollards or mountable curb).	1.5 m paved shoulder - or - Advisory bike lane
4	Separated bike lane, cycle track, or MUP, minimum 1.8 m (one way), 3.5 m (two way) Separation elements are non-permeable (e.g. barrier curb, low-wall concrete barrier) Minimum 0.6 m buffer or edge zone.	Buffered paved shoulder - or - 3.0 m MUP, physically separated from travelled portion of roadway
5	Cycle track or MUP, minimum 2.0 m (one way), 4.0 m (two way) Minimum 1.5 m edge zone (may be reduced to 1.0 m for one-way cycle tracks on 40-50 km/h roads).	3.0 m MUP, beyond clear zone of roadway

Transit Service

1	No transit service or transit service where stop has no hard surface pad
2	Local transit service. Stops have hard surface pad allowing passenger boarding/alighting from all doors
3	Frequent local transit service. Most stops have shelters and basic amenities
4	Frequent local service or limited stop express service with significant transit priority elements (e.g. queue jump lanes, transit signal priority) Most stops have enhanced amenities (e.g. interior heating, real-time arrival information, fare vending machines)
5	Rapid transit service with dedicated transit lanes and comprehensive priority measures Most stops have enhanced amenities consistent with category 4

Through Movement (Vehicles and Freight)

	Urban	Rural	
	Design treatments promote slow speeds and divert through traffic.		
1	No marked centreline.	Less than 6.0 m pavement No paved shoulder	
	Drivers may need to alternate directions, yielding to oncoming traffic.		
	Maximum one lane per direction , two lanes total (mid- block).	6.0 to 7.0 m pavement	
2	Centreline may or may not be marked.	Centreline may or may not be marked	
	No continuous centre turn lane. May include auxiliary turn lane at intersections.	No paved shoulder	
	Maximum one lane per direction, three lanes total (mid- block).		
3	May include continuous centre turn lane . May include auxiliary turn lanes at intersections.	Two lane roadway with marked centreline Minimum 1.0 m paved shoulders	
	Total mid-block lane width < 10 m (excluding bike lanes and dedicated parking lanes).	Silouluers	
	Maximum two lanes per direction , four or five lanes total (mid-block).	Two lane roadway with marked	
4	May include centre median or continuous centre turn lane. May include auxiliiary turn lanes at intersections.	centreline Minimum 1.5 m paved shoulders	
	Total mid-block lane width < 16 m.		
	More than two lanes per direction or more than five lanes total.		
5	- or - Two or more left turn lanes at intersections. - or -	Three or more lane roadway	
	Total mid-block lane width >= 16 m		

On-Street Parking

Appendix "B" to Item 2 of Public Works Committee Report 21-001 Page 6 of 8

1	On-street parking is not provided.
2	Permanent or off-peak parking if there is sufficient space in the ROW and demand cannot be met with off-street supply. Parking may be provided in specific locations only (where needed, or where curbside space is available), and may not be provided on every block . Parking may be on one or both sides of the street.
3	Permanent or off-peak parking is provided. Parking is provided on most blocks along the majority of the curb on one or both sides of the street.
4	Permanent parking on one side of the street in dedicated parking lane, typically with curb bulb- outs at intersections and crossings. Passenger drop-off, freight loading, and accessible parking where required.
5	Permanent parking on both sides of the street in dedicated parking lane with curb bulb-outs at intersections and crossings.Passenger drop-off, freight loading, and accessible parking where required.

Green Infrastructure

	Street trees and stormwater management practices are not actively provided.
1	Tree canopy fails to meet coverage guideline.
	Planting arrangement has substandard soil volumes and planting configuration.
2	Tree canopy at maturity meets coverage guideline in some locations.
-	Design incorporates low impact development (LID) features where possible.
	Tree canopy at maturity meets coverage guideline in most locations.
3	Species diversity is achieved.
	Design incorporates low impact development (LID) features where possible.
	Tree canopy at maturity exceeds coverage guideline.
4	Species diversity is achieved.
	Design incorporates low impact development (LID) features.
	Tree canopy at maturity exceeds coverage guideline
5	Sustainability, resilience and ecological principles are primary themes of the design.
	LID incorporated in a comprehensive manner.

Desired Conditions for CLB Typologies

	Pedestrian Realm	Cycling Facilities	Transit Service	Transit Service (on BLAST network)	Through Movement	On- Street Parking	Green Instructure
Urban Avenue	4	4	4	5	3	2	3
Transitioning Avenue	5	5	4	5	4	1	3
Main Street	4	4	3	4	2	4	4
Connector	4	4	3	3	2	2	4
Industrial Street	4	4	3	3	3	1	2
Neighbourhood Street	3	2	1	1	1	3	4
Rural Road	1	4	1	3	4	1	2
Rural Settlement Road	4	3	2	3	3	3	3

Appendix "C" to Item 2 of Public Works Committee Report 21-001 Page 1 of 20

City of Hamilton Complete, Livable, Better Streets Design Manual

Background Review & Jurisdictional Scan

October 8th, 2020







Contents

1	Intro	duction & Overview	2
2	Polic	y Review & Understanding	2
	2.1	Understanding Policy	2
	2.1.1	The Policy Hierarchy	3
	2.1.2	Policy Best Practices	4
	2.2	Policy Review & Results	5
	2.2.1	Policy Review Approach	5
	2.2.2	2 Existing Policies	5
	2.2.3	Other Policy Supports & Documentation	8
	2.3	Design Guidelines & Standards	
3	Revi	ew & Application of Best Practice Guidelines	13
	3.1	Guideline Summary	13
	3.2	Comparison & Highlights	
4	Cond	clusions	19
	4.1	Key Outcomes	19
	4.2	Next Steps	19

1 Introduction & Overview

Complete Streets policies are increasingly being adopted by municipalities across Canada and the United States. Complete, Livable, Better Streets are the City of Hamilton's version of Complete Streets. The CLB Streets approach represents a shift from the traditional "centreline out" approach to road design, which is primarily focused on motor vehicle throughput. By contrast, CLB Streets takes an "outside in" approach that equitably considers the needs of all road users, and that recognizes the importance of streets not only as conduits to move from one place to another, but also as public spaces and an integral component of the public realm.

In 2020, the City of Hamilton retained WSP to assist in developing a Complete, Livable, Better Streets Design Manual (CLBSDM). This fulfills one of the actions of the 2018 Transportation Master Plan Review and Update, which provides explicit direction to create a CLBSDM. The manual will provide City staff with a transformative document that will assist practitioners in all aspects of CLB Streets projects, including design, implementation and maintenance. This Background Review and Jurisdictional Scan is among the first deliverables for this assignment. It summarizes the current state of CLB Streets within the City of Hamilton's policies, identifies the role of the upcoming CLBSDM, and provides an overview of the key principles that have been applied in design manuals developed by other jurisdictions.

2 Policy Review & Understanding

An effective CLB Streets program requires policies that hold municipal staff and practitioners accountable to investing and implementing these streets. While manuals and guidelines may outline processes, designs, and best practices for implementation, policies are what dictate when and how guidelines are applied. Policies related to CLB Streets may be incorporated into high-level planning documents to help reinforce the importance of advancing the CLB Streets program in support of other planning objectives. When developing a design manual, it is important to understand how it must comply with existing policy and identify gaps that must be filled by the design manual itself or by new policy.

2.1 Understanding Policy

Policy is an essential component of an effective CLB Streets program. Policy is a planning tool which provides statutory and regulatory direction on where and how community elements are guided and implemented. Policies serve as mechanisms to enact planning direction and hold municipal staff accountable to regulatory promises established by their governing body. All municipalities are required to plan, adopt, and uphold policies ranging from topic-specific standards and guidelines to higher-order long-term visions.

A street design manual does not typically serve as a policy document but as a set of guidelines and best practices related to design, implementation and maintenance. It is therefore imperative that other planning documents and policies reference the CLB Streets Design Manual to necessitate its use in future roadway construction and reconstruction projects.

2.1.1 The Policy Hierarchy

CLB Streets or Complete Streets policies have been referenced in the City of Hamilton's Urban (2009) and Rural (2006) Official Plans (OPs), and in its 2018 Transportation Master Plan (TMP) Review and Update. The policies in the urban and rural OPs support the development of guidelines as implementation tools to meet the City's objectives. The TMP identifies the need for the development of a CLB Streets Design Manual (or guidelines) and recommends policy changes (for example, an OP amendment) to support the implementation of CLB Streets. **Table 1** illustrates the planning policy hierarchy and the role of the CLB Streets Design Manual within the policy structure.

Provincial Statutes	Provincial legislative documents that must be enacted and upheld without deviation or interpretation.
Provincial Policies	Provincial statutory documents that outline implementable processes and actions that may interpreted differently depending on context.
Official Plans	Municipal statutory documents that are required by the Provincial Planning Act and Policy Statement that outline how the City will use land, how it will allocate resources to its departments and services, and how it is planning for future growth.
Transportation Master Plan	Municipal statutory document that reflects the objectives of the Official Plan and outlines actions to implement the City's vision for transportation infrastructure and services.
Complete, Livable, Better Streets Design Manual	A municipal document that reflects the City's street design, implementation, and maintenance objectives for Complete, Livable, Better Streets. The guidance included within this document will be flexible and may be interpreted differently depending on context.

Table 1 - Transportation planning policy hierarchy.

2.1.2 Policy Best Practices

While a street design manual provides guidance on the design, implementation, and maintenance of CLB Streets, policy holds decision-makers and municipal staff accountable to applying the design manual when designing municipal roads. Furthermore, policy may identify the process and timeframe in which CLB Streets will be implemented. Higher-level documents, such as Official Plans and Transportation Master Plans, should include CLB Streets policy to support their implementation and reinforce their importance within the transportation planning paradigm. The National Complete Streets Coalition (NCSC) identifies 10 components of the model Complete Streets policy, which include:

- 1 **Vision & Intent.** A clear vision on how the community wants to complete its streets, specifying at least four modes that include walking and cycling.
- 2 **Diverse Users.** Benefits and equitably supports transportation by road users of all abilities and modes, particularly vulnerable road users.
- **3 Commitment in All Projects and Phases.** Applicable to the design, implementation, and maintenance of new construction and reconstruction/retrofit projects.
- 4 Clear, Accountable Expectations. Holds decision-makers accountable to applying Complete Streets guidance and requires both public notice and a clear approval process before exceptions are made on Complete Streets projects.
- 5 **Jurisdiction.** Requires coordination and collaboration between governmental departments and partner agencies on Complete Streets projects.
- **6 Design.** Directs the applications of current best practices in design guidelines and establishes a timeframe for implementation.
- 7 Land-use & Context Sensitive Approach. Considers the existing and planned community context surrounding any Complete Street.
- 8 **Performance Measures.** Establishes measurable performance metrics that are specific, equitable, and available to the public.
- **9 Project Selection Criteria.** Establishes project selection criteria that encourage funding for implementing and maintaining Complete Streets design.
- 10 Implementation Steps. Identifies next steps to implement Complete Streets policy and design.

2.2 Policy Review & Results

2.2.1 Policy Review Approach

To complete the policy review, the consultant project team performed a key terms search in the City's Urban and Rural Official Plans and Transportation Master Plan (TMP). Additional policies and background papers referenced by the TMP and provided by City staff were also reviewed. Policies were reviewed based on their relevance to the CLB Streets policy, noting potential implications and relevance to the design, implementation, and maintenance of streets.

2.2.2 Existing Policies

The City of Hamilton has identified CLB Streets or Complete Streets in several policies. *Table 2* describes the City's CLB Streets policies and their relevance to the development and implementation on the CLB Streets Design Manual.

Policy/Action	Description	Relevance to CLB Streets Design Manual			
Urban Hamilton O	Urban Hamilton Official Plan (Adopted 2009)				
Policy A.1.6	The OP relies on guidelines as implementation tools to meet City directions and provincial requirements. Both the City and Province have adopted subject-based guidelines to provide a greater level of explanation for the implementation of a policy or the completion of a further study.	Defines a relationship between the OP and guideline documents.			
Policy C.4.2.8	New secondary plans and designs for major transit generators shall incorporate Complete Streets design directions.	Requires complete streets design directions to be incorporated in secondary plans and certain designs.			
Policy C.4.5.6.5	The City may waive or accept less lands to be dedicated than the maximum right-of-way dedication and/or daylighting triangle requirements where the City's objectives for sustainable infrastructure, complete streets and mobility can be achieved.	Identifies complete streets objectives as a consideration in determining whether to accept a reduced right-of-way.			

Policy/Action	Description	Relevance to CLB Streets Design Manual		
Rural Hamilton Official Plan (Adopted 2006)				
Policy A.1.5	The OP relies on guidelines as implementation tools to meet City directions and provincial requirements.	Defines a relationship between the OP and guideline documents.		
	Both the City and Province have adopted subject-based guidelines to provide a greater level of explanation for the implementation of a policy or the completion of a further study.			
Policy C.4.5.6.5	The City may waive or accept less lands to be dedicated than the maximum right-of-way dedication and/or daylighting triangle requirements where the City's objectives for sustainable infrastructure, complete streets and mobility can be achieved.	Identifies complete streets objectives as a consideration in determining whether to accept a reduced right-of-way.		
Transportation Master Plan Review and Update (2018)				
Action #35	Adopt a CLB streets policy for road design, operation and maintenance. The CLB streets approach emphasizes routine accommodation in order to ensure designs consider the needs of users of all ages and abilities.	Provides direction to adopt a CLB streets policy.		
Action #36	Develop a CLB streets design manual for each typology, harmonizing existing applicable guidelines. A Vision Zero lens will be applied to the design of streets in new neighbourhoods and redesign of streets in existing neighborhoods.	Provides explicit direction to develop the CLB Streets Design Manual.		
Action #37	Harmonize the road classification and descriptions in the Official Plan with the CLB streets approach and undertake an Official Plan Amendment.	Provides direction to incorporate the CLB streets typology in the OP.		

Policy/Action	Description	Relevance to CLB Streets Design Manual
Action #38	Use the multi-modal level of service (MMLOS) approach to evaluate road designs and facilitate the implementation of CLB streets. The MMLOS approach will also be integrated into Transportation Impact Study Guidelines as part of a major update to these guidelines (see Action 57).	Provides direction to consider all modes when evaluating roadway level of service.
Action #39	Integrate stormwater management Low Impact Development (LID) opportunities as part of CLB Streets designs where feasible.	Provides direction to consider Low Impact Development in CLB Streets design.
Action #40	Provide paved shoulders on rural roads where cycling is prevalent and/or where paved shoulders could benefit farm vehicles.	Provides direction to consider cycling and farm vehicle uses on rural roads.
Action #41	Evaluate options for providing sidewalks or multi-use trails in rural areas where the road leads to a school or community facility.	Provides direction to consider pedestrian/cycling facilities in rural areas.
Action #42	Operationalize the one-way to two-way decision-making framework identified in this TMP. Consider street conversions as a potential alternative within CLB streets evaluation.	Provides direction to consider one-way to two-way conversions within the CLB Streets evaluation.
Action #51	Integrate the goals and principles of Vision Zero into the CLB streets design manual and Engineering Guidelines.	Provides direction to integrate Vision Zero principles in the CLBSDM.
Action #54	Apply speed reduction techniques through the implementation of CLB streets as well as through other opportunities such as the introduction of protected cycling facilities.	Provides direction to consider speed reduction techniques.
Action #58	Update Road Right-of-Way policies within the Official Plan to ensure that future development protects for future multi-modal capacity needs, municipal services and utilities, while adhering	Provides direction to update right-of-way policies.

Policy/Action	Description	Relevance to CLB Streets Design Manual
	to the principles of CLB streets and Vision Zero.	
Action #62	Adopt off-street and on-street parking policies and designs that ensure an adequate parking supply to support growth and economic development, contribute to the achievement of the mode share targets of the TMP, and implement the CLB streets and Vision Zero objectives of the TMP.	Provides direction to develop off-street and on-street parking policies.

 Table 2 – Existing City of Hamilton Policies & Relevance to CLB Streets Design Manual

2.2.3 Other Policy Supports & Documentation

As part of the 2018 TMP Review and Update, several background reports were prepared that include information related to CLB Streets. Although these background reports do not constitute policy, they provide an understanding of how the City envisions CLB Streets as a key component of its future transportation network.

Apart from the TMP background reports, the City also has several guidelines and standards that may support the planning, design and implementation of CLB Streets. **Table 3** identifies the various supporting documents that have been reviewed. Following the development of the CLBSDM, City guidelines and standards (such as those shown in this table) may need to be updated for consistency with the CLBSDM in order to support the implementation of the CLB Streets vision.

Of particular importance to CLB Streets, the Comprehensive Development Guidelines and Financial Policies manual provides design standards for municipal roads. These include minimum standards for parameters such as pavement width and corner radii. **Table 4** provides an excerpt of the Geometric Road Design Table (Table C.1) of this document, which illustrates some of the standards related to street design in the City of Hamilton.

Document	Description
TMP Background Reports	
Complete-Livable-Better (CLB) Streets Background Report	 Introduces the concept of a CLB Street Identifies a CLB Street Typology Proposes CLB Streets policies Includes a decision-making framework for CLB Streets
Cycling Master Plan Review and Update	 Provides potential cycling accommodations (e.g. cycle tracks, bike lanes, paved shoulders) for each of the CLB Street Typologies
Goods Movement Review Background Report	 Provides recommendations related to goods movement, curbside use and other operational considerations within the context of Complete Streets Provides comparisons to other jurisdictions that have incorporated goods movement considerations in complete streets guidelines
Road Safety Background Report	 Recommends integrating Vision Zero goals and principles in the CLBSDM Recommends applying speed reduction techniques through the implementation of CLB Streets
Role of Health Background Report	 Discusses the health benefits of active and sustainable travel Identifies CLB Streets as supportive of a balanced transportation system that facilitates healthy choices
Street Conversions (One- to Two-way) Background Report	 Includes CLB principles in the evaluation criteria for screening street conversion requests Recommends that street conversions be considered as a potential alternative within the CLB streets evaluation
Sustainable Mobility Background Report	 Identifies a relationship between CLB Streets and sustainable mobility

Appendix "C" to Item 2 of Public Works Committee Report 21-001 Page 11 of 20

Other Supporting Documen	Its	
Comprehensive Development Guidelines and Financial Policies Manual (2019)		Provides geometric design standards (e.g. pavement width, corner radius) for municipal roads
Construction and Material Specifications (revised 2020)	_	Contains standard engineering drawings for the construction of roads in the City of Hamilton
Site Plan Guidelines	_	Provides guidance and technical standards to development projects Includes standards related to emergency vehicle access and parking
Road Classification and Right-of-Way Width Project (2009)	_	Provides background material related to the existing functional road classification defined in the Urban and Rural OPs

Table 3 – Description of TMP Background & Supporting Documents

Geometric Detail	Local Road Urban Residential	Minor Collector Urban Residential	Major Collector Urban Residential	Local Road Rural Residential, Crescents and Cul- de-sacs	Minor Collector Rural Residential Straight-through Roads	Major Collector Rural Residential	Local Road Industrial/ Commercial Crescents and Cul- de-sacs	Minor Collector Industrial/ Commercial	Major Collector Industrial/ Commercial
Min. ROW (m)	20	20	20	20	20	26	26	26	26
Design speed (km/h)	50	50	60	50	60 to 80	80 to 100	60	60	60
Posted speed (km/h)	50	50	60	50	50 to 70	60 to 80	50	50	60
Min. curb radius at intersection (m)	9	9	12	9	12	15	-	-	-
Pavement asphalt width (m)	8.0	8.0	11.0	6.7 plus shoulders	6.7 plus shoulders	9.0 plus shoulders	9.25	11.0	14.0

 Table 4 – Excerpt from Table C.1 – Geometric Road Design Table from the City of Hamilton Comprehensive Development Guidelines and Financial Policies Manual

Appendix "C" to Item 2 of Public Works Committee Report 21-001 Page 12 of 20

2.3 Design Guidelines & Standards

A number of provincial, national, and international design guidelines inform the development of complete streets and multi-modal transportation design. As part of this background review, the project team reviewed several documents that focus on different user groups. **Table 5** below identifies the various design guidelines and standards that inform the development and implementation of complete streets and complete streets policy, along with their relevance to different key user groups. The design guidelines identified in Table 4 will be referenced throughout the development of the Hamilton CLB Streets Design Manual.

Design Guideline	Pedestrian Relevance	Cyclist Relevance	Transit Relevance	Vehicle Relevance	Intersection Relevance
OTM Book 12A	Low	Medium	Low	Low	High
OTM Book 15	High	Low	Low	Low	High
OTM Book 18	Medium	High	Low	Medium	High
MTO Freight- Supportive Guidelines	Low	Low	Low	High	Medium
MTO Transit- Supportive Guidelines	Medium	Low	High	Low	Low
Ontario Minimum Maintenance Standards	Low	Low	Low	High	Low
TAC Geometric Design Guide	Low	Medium	Medium	High	High
NACTO Urban Bikeway Design Guide	Low	High	Low	Low	Medium
NACTO Urban Street Design Guide	High	Medium	Medium	Medium	High
NACTO Transit Street Design Guide	Medium	Medium	High	Low	Low
NACTO Global Street Design Guide	High	High	High	High	High
NACTO Urban Street Stormwater Guide	Low	Low	Low	Low	Low

Table 5 – Relevance of Design Guidelines and Standards

3 Review & Application of Best Practice Guidelines

As part of the background review for phase 1 of the Hamilton CLB Streets Design Manual assignment, the project team undertook a jurisdictional scan of five municipalities with existing complete streets design guideline/manual documents.

The intention of performing the jurisdictional scan is to identify common themes and best practices that can be integrated into the Hamilton CLB Streets Design Manual. The jurisdictional scan focused on identifying the particular design principles that inform the typologyspecific design interventions presented in the various design guideline documents. These principles apply to every street

Jurisdictional Scan

- London Complete Streets Design Manual
- Toronto Complete Streets Guidelines
- Kitchener Complete Streets Design Guidelines
- Edmonton Complete Streets Design Standards
- Boston Complete Streets Guidelines

typology presented with the particular design manual. The focus on design principles in intended to provide the City of Hamilton with an understanding of the guiding principles that have been identified for different user groups, principles that are not specific to any one municipality.

3.1 Guideline Summary

Table 6 on the following page identifies the existing Functional Road Classifications, along with the complete streets typologies presented in each of the five jurisdictional scan documents. This table makes it possible to identify common themes between the complete streets typologies identified in the various design guidelines and manuals reviewed, with typologies addressing common built forms found in each of these five municipalities.

Table 7 identifies principles across the five complete streets guidelines based on different user groups. This table illustrates design principles that apply to the different user groups identified in these complete streets documents, spanning all complete streets typologies. The design principles identified in this table convey the significance of considerations when designing for different user groups. For instance, the City of Boston's design considerations for intersections include references to "reduce clutter", "smart tags", and "sensors", among others. These considerations speak to the need to thoughtfully lay out utilities, traffic signals, fire hydrants etc., to ensure that the intersection is organized in a simple and straightforward manner, with publicly accessible Wi-Fi incorporated into next generation intersection infrastructure, and an overall emphasis on incorporating technology to provide the City with real-time data collection and monitoring.

Appendix "C" to Item 2 of Public Works Committee Report 21-001 Page 15 of 20

Jurisdictional Document	Functional Road	Complete Streets Typologies
	Classifications	
London Complete Streets Design Manual	 Arterial Primary/Secondary Collector Local Rural Roads 	 Rapid Transit Boulevard Main Street Urban Thoroughfare Civic Boulevard Neighbourhood Connector Neighbourhood Street Rural Thoroughfare Rural Connector
Toronto Complete Streets Guidelines	 City Expressway Major Arterial Minor Arterial Collector Local Other Laneway Busway Access Road Park Road 	 Civic Street Downtown & Centres Main Street Downtown & Centres Residential Street Apartment Neighbourhood Residential Street Neighbourhood Residential Street Mixed Used Use Connector Street Residential Connector Street Scenic Street Park Street Employment Street Mixed Use Access Street Shared Street Residential Shared Street Mixed Use Lane Residential Lane
Kitchener Complete Streets Design Guidelines	 Arterial Major Collector Minor Collector Local 	 Local Woonerf Green Streets Minor Collector Streets Major Collector Arterial (Main Streets) Arterial (Thoroughfares) Arterial (Industrial Streets) Pedestrian-Only Streets
Edmonton Complete Streets Design Standards	 Freeway Arterial Collector Local Alley Shared Street Pedestrian Only Street 	 Freeway Arterial Collector Local Alley Shared Street Pedestrian Only Street
Boston Complete Streets Guidelines	 Arterial Collector Local 	 Downtown Commercial Downtown Mixed-Use Neighborhood Main Street Neighborhood Connector Neighborhood Residential Industrial Shared Streets Parkways Boulevards

 Table 6 – Functional Road Classifications and Complete Streets Typologies

Jurisdiction Design Guideline	Pedestrian Design Principles	Cyclist Design Principles	Transit Design Principles	Vehicle Design Principles	Intersection Design Principles
London Complete Streets Design Manual	 Prioritize safety Design for accessibility Create a comfortable environment Provide connectivity 	 Make context-sensitive design decisions Provide continuity and guidance Prioritize vulnerable users Provide convenient cycling- supportive facilities 	 Minimize delay / give transit priority Mitigate conflicts with vulnerable users Plan for multi-modal travel Provide a comfortable user experience 	 Select an appropriate design speed Select and appropriate design vehicle Consider induced demand when determining capacity 	 The London Complete Streets Design Manual provides specific design interventions for pedestrian, cyclist, transit, and motor vehicle facilities.
Toronto Complete Streets Guidelines	 Accessibility and mobility Provide a network of continuous sidewalks Design for safe crossings Placemaking Design for comfort Greening infrastructure and stormwater management Design for efficient maintenance Coordination with utilities 	 Apply context-appropriate designs Design for both present and future users Prioritize the most vulnerable road users Visible, intuitive cycling facilities Intersection safety and mixing zones Supply adequate bicycle parking and Bike Share access Design and maintain bike-friendly curbside conditions Surface conditions 	 Enhance transit users' experience Make connections safe, convenient, and seamless Visible, safe and convenient transit stops Universally accessible transit stops and facilities Curbside design to support transit efficiency Traffic signals control strategies Transit streets are safe for walking and cycling Transit streets and linear public spaces Design for growth 	 Multi-modal transportation Safety Context-sensitive target speed and reliable travel Placemaking Greening and stormwater management 	 Safety first Predictability Visibility Multi-modal Accessibility Compact design and shorter crossings Active transportation Transit Placemaking Maintenance and operations Manage stormwater
Kitchener Complete Streets Design Guidelines	 Prioritize safety Design for accessibility Ensure direct, continuous and connected routes Provide sidewalks on both sides of the street Create beautiful and enjoyable places Make it comfortable 	 Prioritize safety Design for all ages and abilities Ensure direct and connected routes Provide guidance Make it maintainable Provide a comfortable experience 	 Provide safe and convenient active transportation access Facilitate multimodal connections Include adequate space for transit amenities Facilitate transit efficiency Design for all users Create vibrant places 	 Design for safe speeds Set context-sensitive speed limits Accommodate the needs of large vehicles Consider induced demand when determining capacity Optimize use of street space 	 Prioritize vulnerable users Balance comfort and convenience of all travel modes Maximize visibility Reduce turn speeds Maintain consistency and foster predictable movements Accommodate large vehicles appropriately
Edmonton Complete Streets Design Standards	User-specific design principles are	not identified within the Edmonton Complete	e Streets Design Standards		 Make approaching, entering, and using an intersection easy for people walking and wheeling of all ages and abilities; Provide streets and intersections that are both convenient and safe for all users, particularly those with mobility issues;

Appendix "C" to Item 2 of Public Works Committee Report 21-001 Page 16 of 20

 Table 7: Complete Streets Principles by User Group

Appendix "C" to Item 2 of Public Works Committee Report 21-001 Page 17 of 20

- Emphasize dignity and independence, providing those features that will allow all people to function in their day-to-day activities;
- Consider accessibility in all seasons and conditions; and
- Be successfully integrated with an intersection's function and form.
- Accessible for all
- Ease of maintenance
- Reclaiming space
- Minimum signal cycle lengths
- Traffic controls
- Reduce clutter
- Balancing users' needs
- Emissions reductions
- Smart tags
- All-weather access
- Stormwater management
- Obeying the law
- Sensors

3.2 Comparison & Highlights

The five jurisdictional documents reviewed identified a number of common themes and design principles. The following section summarizes three key principles related to each user group. This is intended to provide a high-level summary of design principles that should be considered moving forward with the development of the CLB Streets Design Manual.

Pedestrian Design Principles

Three key pedestrian design principles were identified:

- 1. Prioritize the safety of pedestrians;
- 2. Ensure that pedestrian facilities are accessible to all; and
- 3. Create vibrant and comfortable pedestrian environments.

The plans displayed an overwhelming focus on ensuring that the safety of pedestrian is prioritized above all design principles. This is due to pedestrians being the most vulnerable road users, particularly pedestrians with disabilities. Ensuring that all pedestrian facilities — regardless of the location or street typological context — prioritize safety and ensures access to all is paramount. The creation of vibrant and comfortable environments reinforces pedestrian safety and access, and welcomes users to these spaces.

Cyclist Design Principles

Three key cycling design principles were identified:

- 1. Apply context-sensitive facilities on streets;
- 2. Ensure cycling facilities are direct, intuitive, and comfortable; and
- 3. Provide continuity in the network and sufficient user guidance.

The key design principles relevant to cyclists focused on developing cycling networks that are well thought out, with context-sensitive cycling facilities that connect with one another to form an integrated network. Continuity was identified as a recurring key design principle as municipalities seek to fill gaps in their respective cycling networks.

Transit Design Principles

Three key transit design principles were identified:

- 1. Provide safe and comfortable access to transit facilities;
- 2. Accommodate multi-modal travel (e.g. bike parking at transit stops); and
- 3. Facilitate transit efficiency by providing transit vehicles with priority access.

The key design principles that relate to transit touch on those related to pedestrian and cycling design. The transit user design principles focus on ensuring that transit stops are safe to travel to and from, as

Appendix "C" to Item 2 of Public Works Committee Report 21-001 Page 19 of 20

well as comfortable and inviting while waiting for the transit vehicle to arrive. Transit stops should focus on enabling multi-modal trips, such as through the provision of bicycle parking at transit stop locations or ensuring that connecting routes are located in a manner that accommodates convenient and intuitive transfers. Where feasible, physical interventions should be explored, such as adding bus queue jump lanes at intersections or dedicated priority lanes along busy corridors.

Motor Vehicle Design Principles

Three key motor vehicle design principles were identified:

- 1. Select appropriate design speeds when designing a roadway;
- 2. Consider induced demand when determining vehicular capacity; and
- 3. Implement context-sensitive speed limits that reflect the surrounding built form and land uses.

A key takeaway from the review of motor vehicle design principles is that practitioners should carefully select an appropriate design speed prior to design and construction of a roadway. This in turn, will influence the posted speed limit. For existing roadways not undergoing reconstruction, design practitioners should set speed limits that are context-sensitive, reflecting the surrounding land uses and user groups that are using that roadway. Induced demand was identified as a key consideration, as decisions around adding vehicular capacity to a corridor have direct implications on inducing vehicular demand and potentially detracting from shifting demand to other modes of travel.

Intersection Design Principles

Three key principles related to intersection design were identified:

- 1. Ensuring that pedestrian facilities are accessible to all;
- 2. Prioritizing the safety of pedestrians; and
- 3. Creating vibrant and comfortable pedestrian environments.

The final design principles focused on those relating to intersections and intersection design. The recurring themes and key design principles identified as part of the jurisdictional scan highlighted a significant amount of overlap with the design principles identified for the other user groups, namely pedestrians and cyclists. Intersections represent a potential point of conflict for all road users, particularly vulnerable road users such as pedestrians and cyclists. As such, intersection design must prioritize the safety of pedestrians and cyclists, ensuring that intersections are accessible to all. The use of technology at intersections was also identified as a key design principle, with intersections giving municipalities the opportunity to enhance other modes of travel such as transit, through the use of transit signal priority technology. Another example is the use of cameras to count and monitor intersections in real time, allowing for real-time information to be provided to departments overseeing the broader transportation network.

4 Conclusions and Next Steps

This Background Review Discussion Paper is a resource that may be used by the project team throughout the development of the Hamilton CLB Streets Design Manual. It identifies and describes the City's policies, guidelines, that outline a purpose and commitment to the CLB Streets Design Manual. It has also summarized provincial, national, and international roadway design guidelines and standards that should be reflected in the guidance of the City's CLB Streets Design Manual. The tabulated breakdown of design, implementation, and maintenance guidance at the various levels of government, both within Canada and the United States, as well as the table description of the City's Complete Streets typologies, may serve as tools for the project team's consideration in future phases. This section describes some highlights from these detailed reviews and the next phase of the Hamilton CLB Streets Design Manual.

4.1 Key Outcomes

The Background Review & Jurisdictional Scan has highlighted the City's progress-to-date in framing CLB Streets on its roadways. While CLB Streets have yet to be implemented, the City has published high-level planning documents and background reports that identify a need for CLB Streets and a means to implement them moving forward. The need for a CLB Streets Design Manual that is catered to the Hamilton transportation context has been recognized as paramount to the success of designing, implementing, and maintaining the City's proposed CLB Streets typologies. The Hamilton CLB Streets Design Manual project reflects the City's commitment to developing the tools and guidance necessary to enact its Complete Streets vision.

4.2 Next Steps

With a number of City policies and plans having been reviewed, as well as a jurisdictional scan of sample complete streets guidelines, a foundation has been established to guide in the development of the CLB Streets Design Manual. However, a number of questions will need to be answered moving forward, including:

- What roadways does the CLB Streets Design Manual apply to?
- What type of projects are eligible for CLB Streets design?
- What are barriers to implementing CLB Streets in Hamilton?
- What groups must be consulted prior to implementing a CLB Streets project?
- What type of roadway modifications are permitted when implementing CLB Streets design into road rehabilitation or reconstruction projects?

Answering these questions in Phase 1 is critical to understanding how best to proceed with the development of the CLB Streets Design Manual, ensuring that all recommendations can be implemented in a context-sensitive manner and in keeping with the broader Hamilton policy landscape.



Illustrative Applications of Complete Streets Design Strategies to Existing Streets

The application of complete streets design strategies to existing streets often presents challenges given Right-of-Way (ROW) constraints, exiting built form and differing needs for various users, and uses, of the street. This appendix provides some illustrative applications of complete street design strategies to existing streets in Hamilton in order to show what it might look like to apply the typologies and related design features that are under consideration for the CLB Streets Design Manual.

It is important to note that these are illustrative examples only and do not necessarily reflect specific design plans for specific streets.

The illustrative examples reflect only one possible concept for each street typology and have not been subject to a formal alternatives analysis process or Environmental Assessment (EA).

Additionally, while the images of existing streets reflect actual conditions in Hamilton, the selection of these locations are simply intended to show a typical street that would fall under each typology and should not be taken as representing an approved or planned proposal. Examples of streets by typology can be found in Table 1: Proposed Street Typologies for the City of Hamilton of Report PED 21020/PW21002.

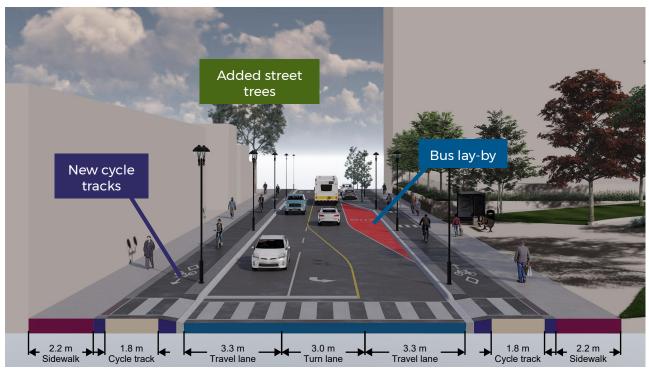


Appendix "D" to Item 2 of Public Works Committee Report 21-001 Page 2 of 11 URBAN AVENUE

EXISTING CONDITION (20 m ROW)



DESIGN CONCEPT (20 m ROW)



Urban Avenues provide high people-movement capacity with priority for transit and active transportation. In a narrow right-of-way, priorities are balanced by varying the street design along the length of the block with dedicated turn lanes at intersections and lay-bys at bus stops. At other locations, on-street parking, planting zones, patios, or other amenities may be introduced.

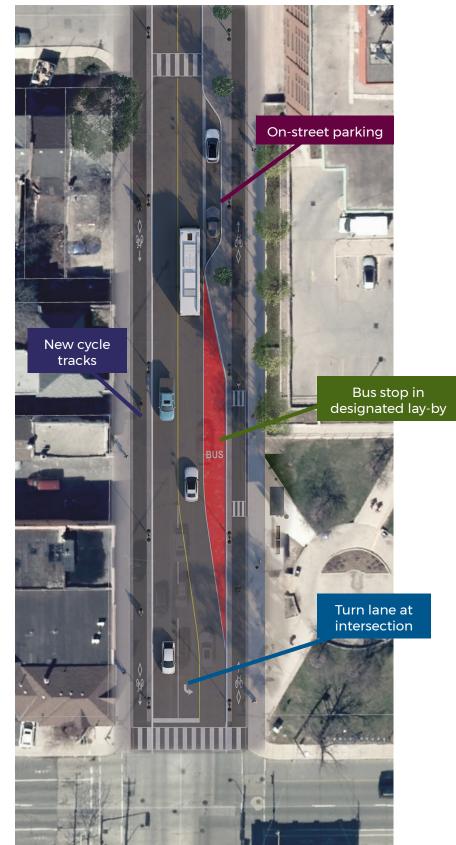




Appendix "D" to Item 2 of Public Works Committee Report 21-001 Page 3 of 11

URBAN AVENUE

DESIGN CONCEPT







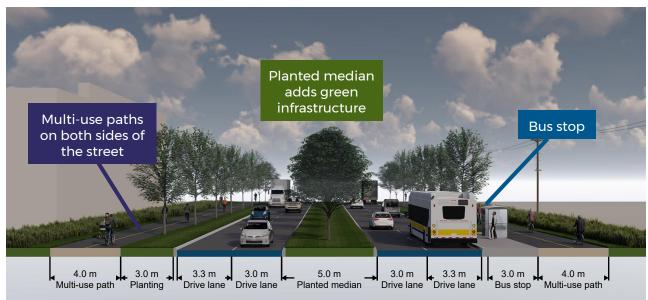
Appendix "D" to Item 2 of Public Works Committee Report 21-001 Page 4 of 11 TRANSITIONING AVENUE

IRANSITICINING AVENU

EXISTING CONDITION (45 m ROW)



DESIGN CONCEPT (45 m ROW)



Transitioning avenues are major streets that cross the city east-west or north-south. They provide medium to high people-movement capacity and incorporate a high degree of access control. The wider right-of-way in this example allows for a planted median, which may narrow to provide dedicated turning lanes at intersections. A multi-use trail may be provided on both sides of the street to allow people walking, cycling or using transit to access destinations on either side of the street.





MAIN STREET

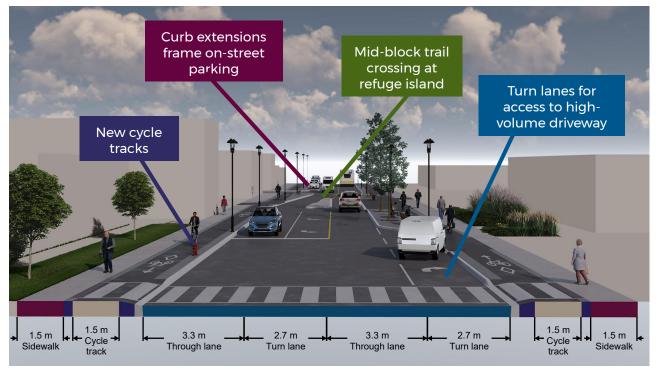
EXISTING CONDITION (20 m ROW)



Appendix "D" to Item 2 of Public Works Committee Report 21-001

Page 5 of 11

DESIGN CONCEPT (20 m ROW)



Main Streets have narrow rights-of-way, and are typically pedestrian-oriented streets with mixed uses and smaller-scale buildings. At this location, dedicated turn lanes may be provided for vehicles accessing the high-volume commercial driveway in the foreground. In the background, the roadway may narrow to two lanes, with on-street and street trees along with wider sidewalks and cycle tracks.

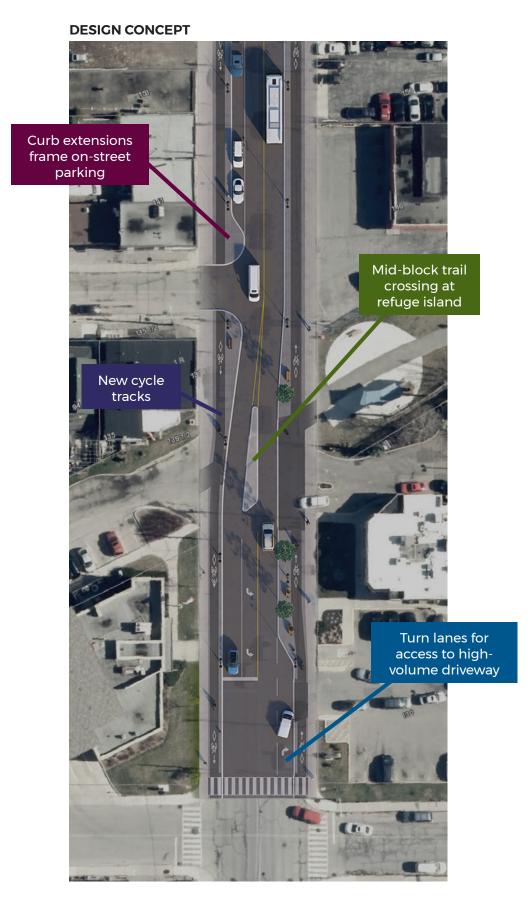
EXAMPLE DESIGN CONCEPTS CITY OF HAMILTON COMPLETE, LIVABLE, BETTER STREETS DESIGN MANUAL





Appendix "D" to Item 2 of Public Works Committee Report 21-001 Page 6 of 11

MAIN STREET



EXAMPLE DESIGN CONCEPTS CITY OF HAMILTON COMPLETE, LIVABLE, BETTER STREETS DESIGN MANUAL





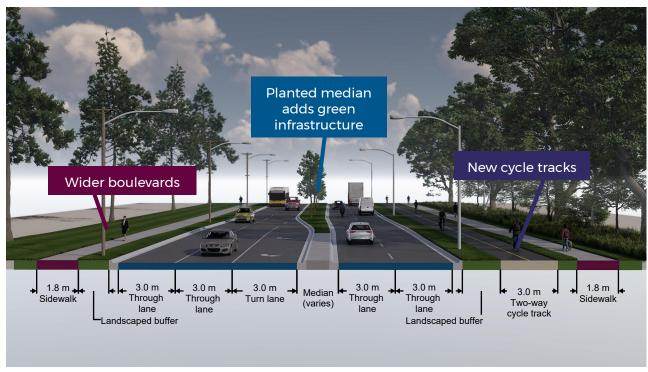
CONNECTOR

Appendix "D" to Item 2 of Public Works Committee Report 21-001 Page 7 of 11

EXISTING CONDITION (28-32 m ROW)



DESIGN CONCEPT (30 m ROW)



Connectors link neighbourhoods to each other and to other areas of the City. Buildings are generally set back from the street fronting onto a wide boulevard. On this street, a two-way cycle track may be provided on the higher-activity side of the street, to accommodate trips destined to and from Mohawk College.



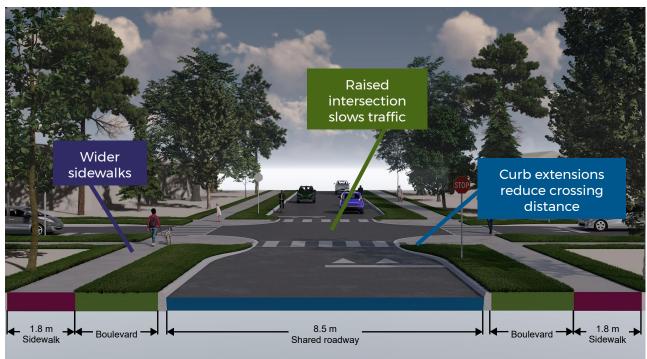


NEIGHBOURHOOD STREET

EXISTING CONDITION (20 m ROW)



DESIGN CONCEPT (20 m ROW)



Neighbourhood Streets provide direct access to residential areas. Traffic calming and minimization of through traffic are important to provide a safe and comfortable environment for people walking and cycling.





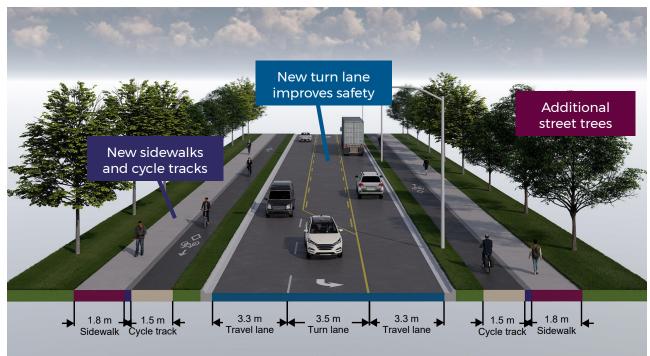
Appendix "D" to Item 2 of Public Works Committee Report 21-001 Page 9 of 11

INDUSTRIAL ROAD

EXISTING CONDITION (26 m ROW)



DESIGN CONCEPT (26 m ROW)



Industrial Roads are important goods movement corridors. They provide access by all modes of travel to industrial, warehousing, and other employment areas. In the example shown, cycle tracks may be implemented in a full road reconstruction scenario. In a retrofit scenario, on-street separated bicycle lanes may be implemented in conjunction with a 4-to-3 lane reconfiguration.

EXAMPLE DESIGN CONCEPTS CITY OF HAMILTON COMPLETE, LIVABLE, BETTER STREETS DESIGN MANUAL





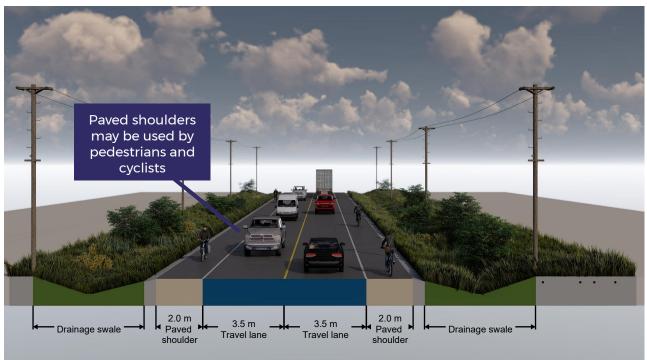
RURAL ROAD

Appendix "D" to Item 2 of Public Works Committee Report 21-001 Page 10 of 11

EXISTING CONDITION (20 m ROW)



DESIGN CONCEPT (26 m ROW)



Rural Roads are primarily located in agricultural and natural areas. Their primary function is to move private and goods movement vehicles. In this example, paved shoulders may be used by pedestrians, cyclists and by motor vehicles stopped in emergency situations. The paved shoulder also provides additional lateral support for the pavement structure of the roadway.





RURAL SETTLEMENT ROAD

EXISTING CONDITION (18-22 m ROW)



DESIGN CONCEPT (20 m ROW)



Rural Settlement Roads are portions of Rural Roads that pass through village, and may include residential frontages or commercial uses. In this example, traffic volumes and speeds are relatively low, and a small paved shoulder is provided to improve pavement longevity and reduce maintenance costs.

EXAMPLE DESIGN CONCEPTS CITY OF HAMILTON COMPLETE, LIVABLE, BETTER STREETS DESIGN MANUAL



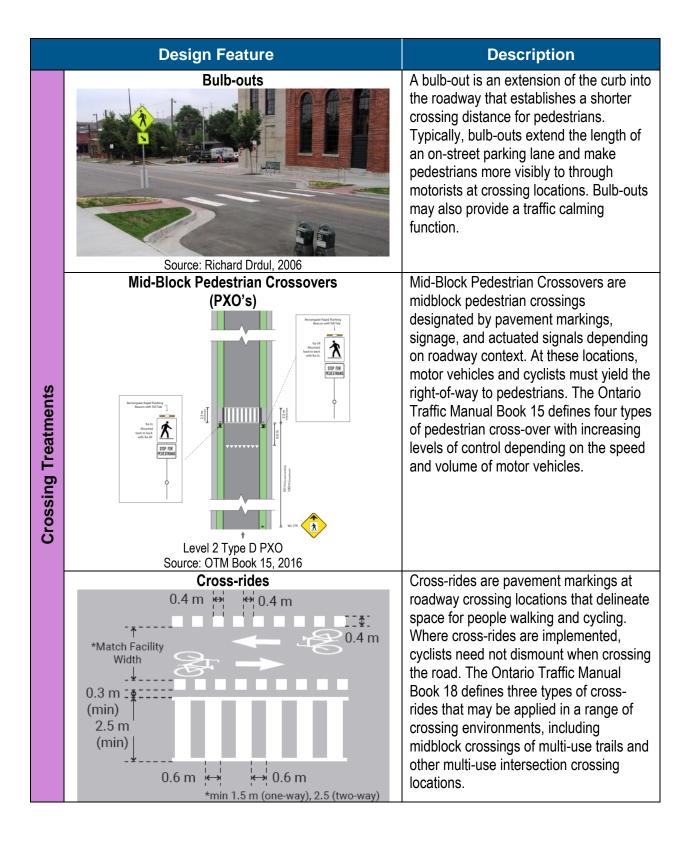
Appendix "E" to Item 2 of Public Works Committee Report 21-001 Page 1 of 9

City of Hamilton Complete, Livable, Better Streets Design Manual

Typical Complete Streets Design Features December 2nd, 2020



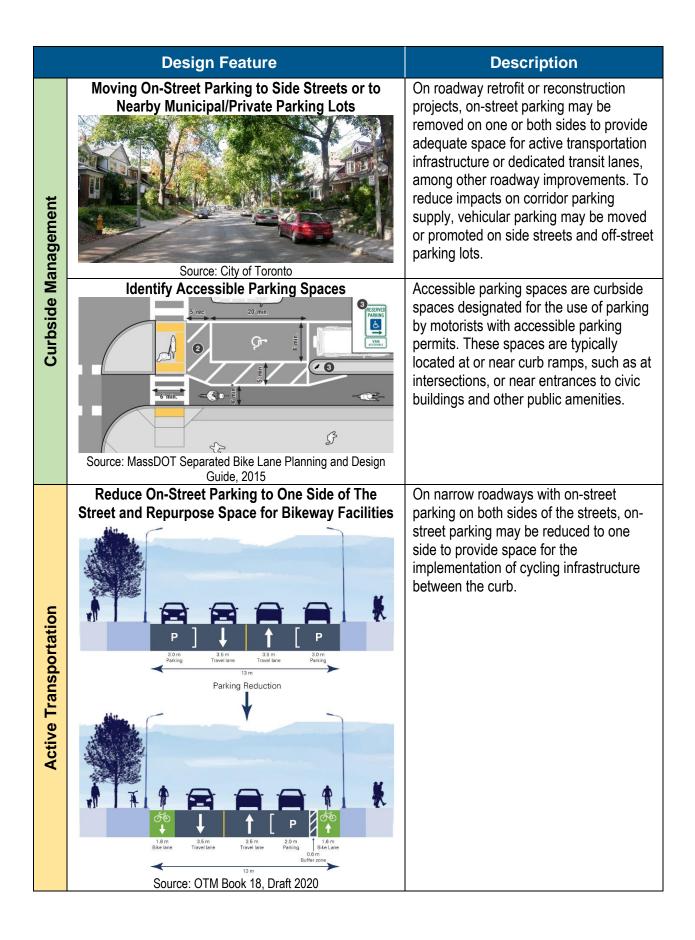
1 Typical Complete Streets Design Features



	Design Feature	Description
	Source OTM Book 18, Draft, 2020	
Crossing Treatments	Bicycle Traffic Signals	Bicycle Traffic Signals are traffic signals that control the movement of cyclists at controlled crossing locations. Compared to General Traffic Signals, Bicycle Traffic Signals have smaller lenses that include bicycle stencils. They should be implemented at any controlled intersection where cyclists approach from a facility separated from motor vehicle traffic and at controlled midblock multi- use crossing locations.
Speed Management	Narrow Travel Lanes Narrow Travel Lanes Source: NACTO, 2013 Reduce Posted Speed Limits	Narrow travel lanes in the context of Complete Streets describes width reductions to general travel lanes. The purpose of this treatment is to force motorists to be more attentive to their path of travel and reduce their speeds. This can be accomplished by repainting travel lanes, increasing shoulder widths, and introducing bike lanes or on-street parking lanes. Reductions in posted speed limits are a common Vision Zero and Road Safety strategy. Motor vehicle travel speed has
Spe	Image: Source: Ken Gigliotti, 2014	strategy. Motor vehicle travel speed has demonstrated a positive correlation with the severity of injury among vulnerable road users when involved in motor vehicle collisions. Furthermore, breaking distances for motorists increase as operating speeds increase.

Appendix "E" to Item 2 of Public Works Committee Report 21-001 Page 4 of 9

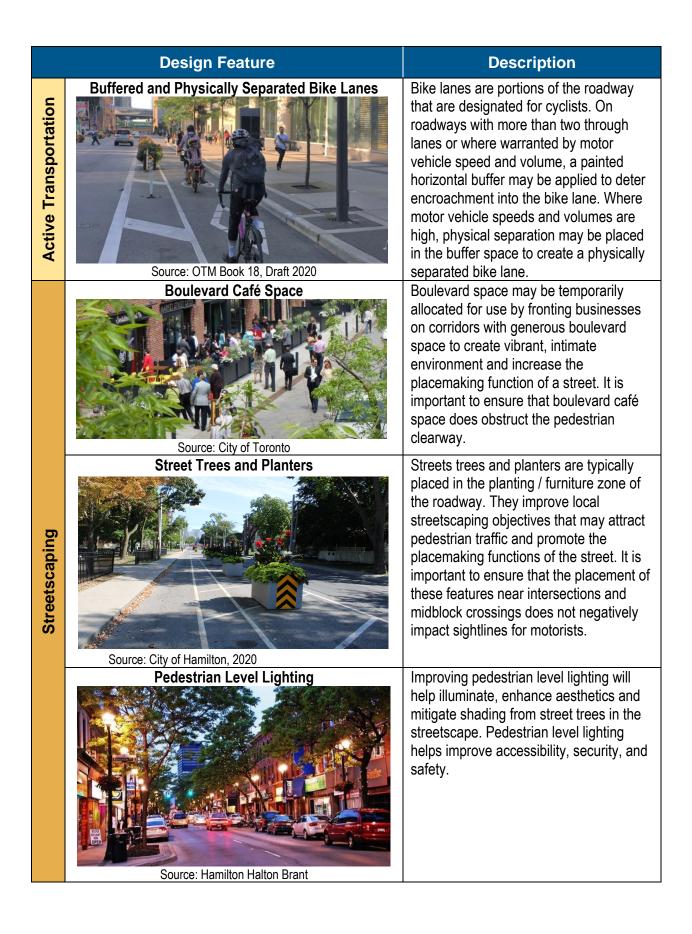
	Design Feature	Description
Speed Management	Tighter curb radii Physical radius Effective radius Source: OTM Book 18, Draft 2020	Reducing or 'tightening' curb radii at intersections forces motorists to reduce their speed when turning, giving them more time to check mirrors, blind spots, and crossings for vulnerable road users. Mountable truck aprons with larger curb radii may be implemented at intersection locations that support infrequent turning movement by larger vehicles such as trucks or transit vehicles.
Curbside Management	Burger Offen Book 10, Draft 2020 Introduce Curbside Management For a state of the product of t	Curbside management is a set of strategies to organize competing curbside uses such as on-street parking, cycling infrastructure, transit, and pick-up/drop- off. Designing curbside space using such strategies can alleviate conflicts between various users and guide the use of limited space efficiently. The introduction of parking laybys, designation of specific loading zones through pavement markings, and providing alternative spaces for loading or parking off of main streets are examples of curbside management strategies
	Identify Loading Zones	Loading zones are curbside spaces designated for the use of short-term delivery and loading. These locations are typically documented in local bylaw and signed in the boulevard. Optional hatched pavement markings may be used to further delineate these locations and deter motor vehicles encroachment when parked.



Appendix "E" to Item 2 of Public Works Committee Report 21-001 Page 6 of 9



Appendix "E" to Item 2 of Public Works Committee Report 21-001 Page 7 of 9



Appendix "E" to Item 2 of Public Works Committee Report 21-001 Page 8 of 9

	Design Feature	Description
Streetscaping	Street Furniture With the streets Design Manual, 2018	Adding street furniture, such as street benches, bike racks, and trash receptacles enhances the aesthetics of the streetscape. Having accessible street furniture encourages pedestrians to use the space to rest and socialize and to keep the area clean from litter.
Other	Road Diets (Repurpose Existing Curb to Curb Space)	 Road diets include any roadway retrofit project where roadway space is reallocated to support other modes, particularly cycling infrastructure. Strategies to allocate more space for other modes include: Reducing lane widths toward accepted minimums Converting a 4-lane cross-section to a 2-lane cross-section with a centre-left turn lane Removing on-street parking on one side of the street
	Source: Region of Waterloo Consider Utility Realignment if Feasible Store and a store an	Where existing above ground utilities located in the boulevard present a sightline obstruction or barrier to implementation of boulevard infrastructure, a decision may be made to move utilities if feasibly as part of a major road reconstruction project.

Appendix "E" to Item 2 of Public Works Committee Report 21-001 Page 9 of 9

	Design Feature	Description
Other	<image/> <image/> <text></text>	When a bicycle lane or cycle track crosses a transit stop practitioners may consider incorporating the bicycle facility into the transit platform. Designers should take care to minimize conflicts with passengers boarding, alighting or waiting for transit. The bicycle facility should feature a ramp up to the platform to slow cyclists as they approach the conflict area. It is also recommended that the area where passengers board and alight be surrounded by bright yellow tactile paving. This clearly defines the conflict zone for all users, including those who are visually impaired.

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CITY OF HAMILTON

2021

ADVISORY COMMITTEES

BUDGET SUBMISSION

KEEP HAMILTON CLEAN & GREEN ADVISORY COMMITTEE

PART A: General Information

ADVISORY COMMITTEE MEMBERS (Voting & Non-Voting):

Felicia Van Dyke (Chair)
Lennox Toppin (Vice Chair)
Leisha Dawson
Theresa Movre
Brenda Duke
Heather Donison
Sue Dunlop (HWDSB Representative)
Kerry Jarvi (BIAAC Representative)
Marisa DiCenso (HWCDSB Representative)
Paulina Szczepanski (HWCDSB Youth Representative)
Jen Baker (Environmental Representative)
Steve Watts (Environmental Representative)
Councillor Nrinder Nann (Council Representative)

MANDATE:

Reporting through the Public Works Committee, the Keep Hamilton Clean & Green (KHCG) Committee will provide input and advice to staff and Council on engaging citizens to take greater responsibility for improving our community environments. The KHCG's focus is to encourage behaviours and attitudes conducive to a clean, healthy and safe community through leadership and action.

The KHCG Committee will provide input and guidance to City staff, Council and other stakeholders on community involvement, private sector involvement and identification of resources to sustain Clean & Green Hamilton programs and initiatives that aim to beautify our community, promote environmental stewardship and prevent litter, illegal dumping and graffiti.

PART B: Strategic Planning

STRATEGIC OBJECTIVES:

Litter

- Support the development and marketing of a coordinated cigarette litter prevention program.
- Lead the promotion and collaboration with community partners for the implementation of Team Up to Clean Up.
- Administer Keep America Beautiful Community Appearance Index survey in 2021.
- Support and promote City and community litter remediation and prevention initiatives.

Illegal Dumping

• Support the development of educational and communication tools to prevent illegal dumping.

Graffiti

• Support stakeholder engagement strategies and victim assistance initiatives with prevention and remediation tools.

Beautification

- Recognize volunteer contributions to beautification initiatives and projects that support the Clean & Green Hamilton Strategy.
- Support neighbourhood beautification and greening initiatives as needed.

Environmental Stewardship

• Support and promote the engagement of citizen volunteers in programs and initiatives that encourage ecological integrity and minimize human impact on natural habitats and ecosystems on public and private properties.

ALIGNMENT WITH CORPORATE GOALS:

Please check off which Council approved Strategic Commitments your Advisory Committee supports			
1) Community Engagement & Participation	~	2) Economic Prosperity & Growth	
3) Healthy & Safe Communities	~	4) Clean & Green	~
5) Built Environment & Infrastructure	~	6) Culture & Diversity	
7) Our People & Performance			

PART C: Budget Request

INCIDENTAL COSTS:	
Meeting Expenses	\$500
Keep America Beautiful Affiliate Fee / Training and Development	\$1,600
SUB TOTAL	\$2,100

SPECIAL EVENT/PROJECT COSTS:

SUB TOTAL	\$16,150
Clean & Green Neighbourhood Grants	\$6,000
Volunteer recognition	\$600
Graffiti	\$2,000
Team Up to Clean Up	\$5,050
Cigarette Litter Prevention	\$2,500

TOTAL COSTS	\$18,250

Funding from Advisory Committee Reserve (only available to Advisory	\$0
Committees with reserve balances)	

TOTAL 2021 BUDGET REQUEST (net of reserve funding)	\$18,250
PREVIOUS YEAR (2020) APPROVED BUDGET	\$18,250

CERTIFICATION:

Please note that this document is a request for a Budget from the City of Hamilton Operating budget. The submission of this document does not guarantee the requested budget amount. Please have a representative sign and date the document below.

Representative's Name:	Felicia Van Dyke (Chair)
Signature:	felicin Unbik
Date:	December 8, 2020
Telephone #:	Staff Liaison Diane Butterworth ext. 5089