

October 13, 2020

City of Mississauga Planning and Building Department 300 City Centre Drive Mississauga, ON L5B 3C1

Attention: Mr. David Breveglieri Planner

Re: Proposed Rights-Of-Way Package Lakeview Village - Mississauga

Dear David

Further to LCPL's submission of the Lakeview Village Street Hierarchy and Right-Of-Way Study, dated April 2020 and subsequent comments received from City staff on June 26, 2020, a virtual workshop took place on July 23, 2020 with over 40 attendees from the City, Region, and Lakeview Team taking part.

As a result of this workshop and subsequent X-Section materials received from the City on August 20, 2020, the LCPL team has re-visited their proposed road x-sections, incorporating the City's comments where possible, while striving to maintain the strong desire for **compact complete streets**.

An overview of the revised x-sections and the design rationale for the various road elements was the topic of a further workshop with the City, Region, and Lakeview Team on September 24, 2020.

The attached package provides the presentation that was utilized to drive discussion on September 24<sup>th</sup>, which has been edited to include additional x-sections, as well as several supporting documents. The enclosed includes the following:

- 1. Design Element Summary Pages
- 2. September 24<sup>th</sup> Presentation
- 3. Appendix A Road Design Standards City vs. Lakeview
- 4. Appendix B 2-D Composite Plan and Utility Location Plan
- 5. Appendix C Detailed Response Matrix to City Comments June 26, 2020
- 6. Appendix D AutoTurn Analysis for Articulated Buses and Standard Buses

LAKEVIEW COMMUNITY PARTNERS | 2173 TURNBERRY RD, BURLINGTON, ONTARIO L7M 4P8 | TEL 905.336.5545 | MYLAKEVIEWVILLAGE.COM











The primary design elements that have been the subject of discussions to-date include urban design, sidewalks, tree corridors (incl Hydro Road special treatment), cycle tracks, dimensioning of splash pads/buffers/curbs/parking lane widths, travel lane widths, curb radii, utility corridors, and school pick-up drop-off zones. A summary sheet for each of these ten design elements is attached.

As part of the City's review of all the attached materials, the Lakeview Team believes that it is very important to emphasize that Lakeview Village is planned and designed as an urban, compact, pedestrian and cycling focused community that is intended to reinforce and attract the variety of activities, linkages and social gathering opportunities within a vibrant and attractive public realm that is commonly found in the great urban places locally and throughout the world.

A critical component to achieving this ideal urban setting is the implementation of **compact complete streets**. Lakeview is not a suburban community and the application of standards that are derived from traditional suburban developments is detrimental to the ability to deliver the community that Mississauga deserves.

It is important to understand the common features that make great urban streets – streets that are compact, safe, attractive and complete. Size does matter and it is fundamentally based on a balanced approach to integrating multiple functions and objectives, without needlessly optimizing the size of each individual element.

These great urban street features include the following:

- Minimized vehicular travel lane widths which results in reduced vehicular speeds;
- Reduced corner radii which results in reduced crossing distances, slower vehicle turning speeds and reduced intersection areas;
- Innovative approaches to healthy street tree planting conditions;
- Compact building face to building face distances that frame the street and reinforce a pedestrian scaled character;
- Street furniture and paving features that reinforce the desired character;
- Vibrant, multi-use boulevard spaces that respond to adjacent land uses and promote social gathering.

These important attributes cannot be achieved if the emphasis is on maximizing the individual components that make up the street right-of-way in isolation of the overall objective.

TACC





LAKEVIEW COMMUNITY PARTNERS | 2173 TURNBERRY RD, BURLINGTON, ONTARIO L7M 4P8 | TEL 905.336.5545 | MYLAKEVIEWVILLAGE.COM





2

The following summarizes the items that need to be agreed on in order to achieve **compact complete streets** in Lakeview:

3

- 1. Wider sidewalk widths (2.0m vs. 1.8m on minor collector and local residential) vs. wider tree corridors
- 2. Special tree corridor configuration on Hydro Road north of Street A
- 3. Cycle track locations (ie not within roadway of Streets B and D and F)
- 4. Splash pad width of .75m measured to back of curb
- 5. No mountable curb between travel and parking lanes
- 6. Travel lane widths less than 3.3m (ie 3.0m for local roads and 3.25m for minor collectors)
- 7. Curb radii widths less than 12m for different intersection configurations
- 8. Utility Corridor on one-side of the road
- 9. School Pick-Up/Drop-Off Zones to be permitted within roadway (ie. not required on-site)

This study strives to achieve a balance in providing complete streets that effectively function from a connectivity, engineering, public gathering and streetscape character standpoint and is achieved within a compact, urban right-of-way that delivers the type of urban community that will make Lakeview Village a model of forward-thinking city building.

We look forward to continuing our work with all levels of City and Region staff, to achieve this goal.

Sincerely, Lakeview Community Partners Limited

Brian Sutherland

Brian Sutherland Vice-President, Argo Development Corporation

LAKEVIEW COMMUNITY PARTNERS | 2173 TURNBERRY RD, BURLINGTON, ONTARIO L7M 4P8 | TEL 905.336.5545 | MYLAKEVIEWVILLAGE.COM

**\*Greenpark** 



BRANT**HAVEN** 



# LAKEVIEW VILLAGE ROW RESPONSE PACKAGE | EXECUTIVE SUMMARY OCTOBER 2020

# **URBAN DESIGN** | Critical Components of Compact Streets



**URBAN CONTEXT** 

Lakeview Village is planned and designed as an urban, compact, pedestrian, and cycling focused community. It is not a suburban community and the application of standards that are derived from traditional suburban developments is detrimental to achieving this vision.



# STREET WALL

With an expanded right-of-way, building face to building face distances are increased, and the benefits of a compact street environment are diminished, resulting in streets that are less pedestrian-scaled and more prone to increased vehicular speeds. There is a direct correlation between a sense of street enclosure to decreased vehicular speeds.

# **CANOPY COVERAGE**

The City's proposed increase to rights-of-way widths would result in less tree canopy coverage as a percentage of the paved area, resulting in a greater urban heat island and a reduced sense of enclosure. The visual impact of street trees is diminished from a streetscape character standpoint, as well.



# **IMPERMEABLE SURFACE**

As a result of the widened rights-of-way, the impermeable paved surface area will also increase, further adding to the urban heat island effect and diminishing the streetscape character. The increase in the paved surface area will negatively impact stormwater capture and result in increased maintenance costs to the city.



# TRAVEL LANES

Wider, open streets are proven to encourage faster vehicular speeds. Increased speeds make the street more hostile to pedestrians and cyclists. Higher speed collisions significantly increase harm to those involved.



# **INTERSECTIONS & CORNER RADII**

Expanded rights-of-way widths increase pedestrian crossing distances, which impacts the safety and walkability of the community, particularly for seniors, children, and those with disabilities.

# **SIDEWALKS**

The updated cross-sections attached reflect a minimum sidewalk width of 2.0m for the major collector roads and 1.8m on the local roads and minor collector roads. These revisions were made to achieve compact streets and in many cases to generate wider tree corridors. Both the 1.8m and 2.0m sidewalk widths meet the City standards and the provincial AODA standards. Should the City feel strongly about 2.0m sidewalks within the local and minor collector roads, then width could be taken from the tree corridors (which exceed the minimum tree corridor widths). From an environmental standpoint, LCPL's preference is to put the width into the soft landscaped surfaces rather than hard surfaces. See Pedestrian Network response Section B on page 3 of the Response Matrix.



# 2.00m Sidewalk

2.00 -

SIDEWALK

HYD

STREET LINE

1.80m Sidewalk (Low-Traffic) (w. vegetated zones on either side)







# **1.80m Sidewalk (High-Traffic)** (w. additional paving on either side)



# **TREE CORRIDORS**

Tree corridor widths were revised to reflect the City's desire for a minimum width of 2.5m for trees in sod and a minimum width of 2.0 for trees in soil cells. The location of each of these tree elements can be seen on page 43 of the Presentation. Assuming that the City is in agreement with the location of the trees in soil cells, the Lakeview Team believes this item has been fully addressed. See response to Forestry comments in Section I, page 16, of the Response Matrix.

### **Tree Species**

Species that are appropriate for the climate and urban environment

# **Soil Composition**

Specified soil compositions to maximize tree health + growth

# Soil Volume

The provision of a continuous soil trench. Where ROW widths are tight, or the surface treatment is paved, the use of soil-cell

### Structure supporting paving system (Soil-Cell)







2.5m+ Trees in Sod 2.0m Trees in Soil Cell 2.5m+ Trees in Soil Cell (Due to Adjacent Building Uses)

# **HYDRO ROAD** | Special Character Street

Hydro Road, the main character avenue into Lakeview Village where it will directly link Lakeshore Road East with Lakeview Square and the waterfront, is intended to create a unique pedestrian promenade environment within an expanded boulevard along the west side of the street. This promenade will feature a double row of staggered street trees (planted within soil cells) and utilize both raised planters and at grade tree openings, decorative paving, unique lighting (pedestrian standards and inground lighting features), street furniture (seating, bike racks), LID functions and public art. The Lakeview Team does not believe it can achieve the same distinctive result and effect by integrating expanded sodded boulevards with double rows of trees on both sides of the street.









# **CYCLE TRACKS**

Where cycle tracks are proposed, they have been revised from single tracks to dual tracks. The dual tracks are 3.0m in width as per the City's desired minimum width and are buffered from the adjacent travel/parking lanes by a concrete/paver splash pad.

The location of the cycle tracks are primarily in a north-south direction linking commuter cyclists from Lakeshore Road to the Lakefront and vice-versa. Multi-use trails within the parks (Aviator Park and Lakefront Park) along with mixed-traffic-lanes provide recreational cycling corridors for west-east travel.

See responses in Section A and C of the Response Matrix.





# DIMENSIONING

# **PARKING LANES**

Parking lane widths have not changed and remain at 2.4m width measured to face of curb. This is consistent with the City's comments of June 26th, 2020 which identified 2.4m minimum to face of curb (see item K-8 on Page 18 of the Response Matrix).

# **SPLASH PADS / BUFFERS**

Splash pads/buffers are proposed on both sides of the Major **Collector Roads and Minor Collector Roads. The Lakeview Team** recognizes the City's concern regarding the potential for "dooring" of cyclists by parked vehicles and our x-sections have been revised to reflect a 0.75m width measured to the back of curb (i.e. 1.0m measured to face of curb as per OTM Book 18). Splash pads/ buffers are not proposed on any local streets.





**BELMAR, LAKEWOOD, CO** 2.40m Layby Parking to Face of Curb



**ORENCO STATION, HILLSBORO, OR** 2.40m Layby Parking to Face of Curb



2.40m Layby Parking to Face of Curb

# **CURBS**

# **CONCRETE CURBS**

Sections have been revised to show a barrier curb with narrow gutter. Initial details comprise a barrier curb with narrow gutter (OPSD 600.080) lined with a row of concrete pavers as part of the gutter.

As noted on page 18 of the Response Matrix, the Lakeview Team sees this as a detailed design issue which will not impact the ROW widths as the adjacent lanes, including layby parking, are measured to face of curb and the 0.75m splash pad is measured to back of curb.



### OPSD 600.080 DETAIL Barrier Curb with Narrow Gutter



WEST DON LANDS, TORONTO, ON Special Curb & No Gutter

# **MOUNTABLE CURBS**

Mountable curbs are not being proposed due to the following concerns:

- Impact runoff capture for use within the adjacent LID's
- Unnecessarily impact the ability to create compact streets
- Would require curb cuts along the travel lane to direct drainage into the bioswales and with a continuous gutter grade along the curbs, the drainage will likely by-pass the curb cuts making them less effective

It is important to note that the West Village road designs do not include the mountable curb for the same reasons noted above.

# See response K-3 on page 21 of the Response Matrix.





# ORENCO STATION, HILLSBORO, OR No Mountable Curb

# **TRAVEL LANES**

The travel lane widths have been revised from those in the April 2020 ROW Package. While the April 2020 ROW Package showed 3.35m lanes for transit routes and 3.3m lanes for non-transit routes, the revised sections reflect a narrowing of travel lane widths for roads with slower posted speeds. This was done to create travel lanes which would cause drivers to naturally slow down through the creation of compact complete street design.

The travel lanes proposed are as follows:

a. Transit Routes

3.35m width (as per City) 40km/h posted speed b. Major Collector Roads

3.30m width (as per City) 40km/h posted speed

c. Minor Collector Roads

3.25m width 30km/h posted speed

d. Local Roads

3.00m width 30km/h posted speed

Each of these widths proposed by the Lakeview Team meets the TAC Design Guidelines for Canadian Roads which specifies a practical minimum travel lane width of 2.7m. See Road Design response Section K on page 18 of the Response Matrix.



# LANE WIDTH ADJUSTMENT FACTOR FORMULA

"Standard" Lane Width

• 3.60m | Lane Width Factor 1.000

Lakeview Village Lane Widths

- 3.30m | Lane Width Factor 0.966
- 3.25m | Lane Width Factor 0.961
- 3.00m | Lane Width Factor 0.933

The proposed lane widths in Lakeview Village will not have a noticeable impact on the capacity of the roadways. The reduced lane widths will have an overall positive impact for all road users. From a safety perspective, narrower lanes reduce speeds, shorten mid-block pedestrian crossing distances, and generally make for a better environment for non-auto modes. See Section K-2 on page 18 of the Response Matrix.

Maximum 3.00m Lane Widths for all Streets with a Posted Speed Limit of 40km/h or Less		Minimum (m)	Target (m)	Maximum (m)
Through Lane	60km/h or more	3.0	3.0	3.5
	50km/h		3.0	3.3
	40km/h or less		3.0	3.0

CITY OF TORONTO | Lane Width Dimensions Road Engineering Design Guidelines - 2.0 Lane Widths

# LAKEVIEW VILLAGE

SPEED



# **CURB RADII**

While curb radii were not identified as an issue in the City's June 26th comments, it was raised subsequently by City staff to be a potential issue. The Lakeview figures contained in the April 2020 submission, as well as the current ROW Package identify a curb radii of 8.0m at all intersections except for the two 12.0m radii locations shown on the plan below. This has been proposed from a safety standpoint to promote slower vehicle speeds through intersection turns, as well as to reduce pedestrian crossing distances/times at the intersections. Examples of smaller curb radii are presented on pages 6,9, 13 & 16 of the attached Presentation and discussion took place on this item as part of the September 24th workshop.



\*8.0m Corner Radii Proposed at All Other Intersection Roundings



Larger corner radii increase turning velocity, pedestrian crossing distances, and negatively impact pedestrian and cyclist safety. Turning Velocity Summary R8.0m = ~21.0km/h R12.0m = ~24.0km/h







# SUTER BROOK VILLAGE, PORT MOODY, BC 8.00m Curb Radii

# **UTILITY CORRIDOR**

Significant discussion has taken place to date between the Lakeview Team and City/Region staff. As identified in the Response Matrix (Appendix C) and shown on the attached Utility Location Plan (Appendix B), all buildings/blocks can be serviced by a joint utility corridor on one side of the roadway with only seven (7) instances where road crossings would be needed to service a building from the far side of the roadway.

Given that there will be over 100 buildings to be serviced within Lakeview Village, the Lakeview Team believes it would be unnecessarily excessive to incorporate joint utility corridors on both sides of the road, in order to accommodate 7 crossings.

The attached Utility Location Plan has been updated, as requested by the Region of Peel, to show anticipated service locations to each building. As demonstrated, ample room exists for these connections given the large block sizes.

It is important to note that a joint utility corridor on one side of the roadway was approved for West Village. LCPL is looking to the City to advise the Utility Companies that this arrangement will be utilized for Lakeview Village as well.

Please reference Utility Location Plan located in Appendix B and Response Matrix response F-1 on page 13.





# SCHOOL PICK-UP/DROP-OFF

School Pick-Up and Drop-Off zones have been identified within the adjacent roadways, along with bus zones and parking laybys.

It is the objective of Lakeview Village to prioritize sustainable travel behaviours from day-one, in particular the use of active transportation for accessing local services. This objective is reflected in the Mississauga Official Plan policies for the Lakeview Waterfront Major Node Character Area (LWMNCA) which provides high-level direction on community objectives for the Lakeview Village project.

At this early stage, implementing an urban school design that accommodates a dedicated parent drop-off will enable the unnecessary use of the automobile and undermine other measures to promote walking and cycling to and from school. Although automotive drop-off is to be discouraged, there remains the ability for curbside drop-off for the occasional/necessary trip (ex. a student has a large school project) that will provide safe and practical access.

It is anticipated that all future students (grades K-8) will live within the Lakeview Village and Rangeview lands and will be within walking distance of the proposed public school. This is supported by the PDSB re-zoning comments which identified that the Lakeview Village lands alone will generate 718 students grades K-5 and 308 students grades 6-8. Given this assessment, it is likely that few, if any students, will be coming from beyond the limits of the LWMNCA. In other words, the compact built form and density planned for the LWMNCA generates a tighter catchment area for the proposed school compared to a typical suburban school, thus reinforcing the ability for walking and cycling. As such, parent automobile drop-off is not anticipated to be a necessity to support the function of the proposed school in terms of accommodating transportation needs for future students.

Lakeview Village represents an opportunity to proactively design for healthy, sustainable transportation behaviours and, in this instance, the proposed urban school concept will contribute to a culture of walking and biking for young people and their families. The proposed urban school design without an on-site parent automobile drop-off is therefore appropriate and desirable.







# LAKEVIEW VILLAGE

**ROW DISCUSSION** 

SEPTEMBER 24, 2020 (WITH ADDITIONAL ROW SECTIONS)

# GREAT COMPACT URBAN STREETS

# Why it's important

What are the fundamental components and principles

How do we get there I Proposed street sections

# **COMPLETE STREETS**

" Streets that are designed to be safe for everyone : people who walk, bicycle, take transit, or drive, and **people of all ages and abilities.** 

A Complete Streets policy ensures that transportation planners and engineers consistently design and operate the entire street network for **all road users,** not only motorists. "

# **STREETSCAPE COMPONENTS**











# SUTER BROOK VILLAGE, PORT MOODY • 18.5m commercial street right-of-way • 2.4m layby parking (to curb face) • parking on both sides • 5.7m vehicular travel lanes (2-way) • generally, 22m building face separation









# ORENCO STATION, HILLSBORO, OREGON

- 18.25m right-of-way
- 21m building face separation
- 2.75m vehicular lanes
- 2.4m layby parking (includes 0.3m gutter)
- 3m-7.6m corner curb radii (approx. 12m at 4 lane arterial road)
- allowance for sidewalk dining









OPEN.

# WESBROOK VILLAGE, UBC, VANCOUVER

S REPAIR

SALES RENTA

- 18.5m neighbourhood collector with transit
- 16.9m local street with parking on both sides
- 2.4m layby parking on collectors / 1.85m layby parking on local streets
- 6.0m local street shared travel lane (2-way)
- 6-7m corner curb radii along main neighbourhood collector

in he d































# **NOT LAKEVIEW** CATHEDRALTOWN | CATHEDRAL HIGH ST, MARKHAM, ON
### **RESEARCH + BEST PRACTICE**



# **NOT LAKEVIEW** TRAFALGAR LANDING | OAKVILLE, ON

### **RESEARCH + BEST PRACTICE**







# **NOT LAKEVIEW** TRAFALGAR LANDING | OAKVILLE, ON





# **GUIDING PRINCIPLES**





### **PRINCIPLES OF A COMPACT STREETSCAPE**









### **IMPERMEABLE SURFACES**









### **STREET TREES**

### **Tree Species**

Species that are appropriate for the climate and urban environment

### Soil Composition

Specified soil compositions to maximise tree health + growth.

### Soil Volume

The provision of a continuous soil trench. Where ROW widths are tight, or the surface treatment is paved, the use of soil-cell

### Structure supporting paving system (Soil-Cell)







20.50m

### **TRAVEL LANES - MINOR COLLECTORS**



**City's Proposed Minor Collector** 10.0m (+1.1m) 3.50m Lane (+0.25m) \*(+3.75km/h) T. • • • • CURB & GUTTER CURB & GUTTER SIDEWALK SIDEWALK CURB & GUTTER 24.90m



### LAKEVIEW VILLAGE



\*Global Street Design Guide / Safe Streets Save Lives

### **INTERSECTIONS + CORNER RADII**



R8.0m = ~21.0km/h R12.0m = ~24.0km/h

# **DISCUSSION ITEMS**

### **1. Cycle Track Locations**

- 2. Splashpad 1.0m width to face of curb as per OTM Book 18
- **3. Curb -** Special Lakeview curb detail envisioned; Barrier Curb combined with brick border No roll curb adjacent to parking lane
- 4. Parking Lane Width 2.4m measured to edge of gutter as per TAC Manual
- 5. Travel Lane Width Varies based on road classification and vehicle speed (3.0m, 3.25m, 3.3m, and 3.35m when on bus route)
- 6. Tree Cell Locations
- 7. Curb Radii 8m vs. 12m
- 8. Utility Corridor One side of street only

### **CYCLE TRACK LOCATIONS**







### **CURB / PARKING LANE**

Ontario Provincal Standard Drawing -Barrier Curb with Narrow Gutter

0.25M Special Curb Detail Specific to Lakeview

No roll curb





Orenco Station

Rolling Mills Road, West Don Lands





### **CURB TYPE / SPLASH PAD**

0.75M Major Collector

0.75M Minor Collector

0.0M Local Road

OTM Book 18 specifies 1.0m buffer between parking lane and cycle track measured to face of curb.

TAC specifies min 0.6m when cycle track adjacent to parking. Width of 0.75m buffer plus curb meets/exceeds these criteria while maintaining compact streets





Creating a sense of identity through the detail-design of the streetscape elements.



Textured Paving



Unique Design Elements



### **TRAVEL LANE**

3.35M Bus Route

3.30M Major Collector

3.25M Minor Collector

3.00M Local Road



### Transportation Association of Canada (TAC) Travel Lane Dimensions

For Design Speeds less than **60km/hr** 

Practical Lower Limit **2.7m** Recommended Lower Limit **3.0m** Recommended Upper Limit **3.7m** Practical Upper Limit **4.0m** 

When Buses and Large Trucks regularily use a lane, **3.3m** minimum recommended regardless of speed.



### **TREE CORRIDOR**

There may be trees in soil cells where adjacent open space / building typologies warrant plaza or hardscape surface treatments.

Eg. Lakeview Square or at entrances to mid-rise residential buildings.



2.0m+ (Soil Cell)
2.50m+ Sod
2.50m+ Soil Cell
(Due to Adjacent Building Uses)

### **CURB RADII**

**City standard** is 8m for Local and Minor Collector, 12m for Major Collector

**NACTO** standard is 4.5m maximum to slow speeds through intersection turns.

Curb radii of 8.0m for Lakeview is proposed through out to encourage slower turn speeds through intersections and to minimize pedestrian crossing distance / time.

\* Larger corner radii increase turning velocity, increase pedestrian crossing distances, and negatively impact pedestrian and cyclist safety.

Turning Velocity Summary

R8.0m = ~ 21.0km/h R12.0m = ~ 24.0km/h



### **UTILITY CORRIDOR**

The majority of buildings on the site can be serviced by a utility corridor on one side of the road. Of the 100+ buildings, less than 10 would require a road crossing for utility service.



# **STREET SECTIONS**

### **DESIGN STANDARDS**

	Element	City Suggestion	Lakeview Standard	Rationale
1	Sidewalk	2.0m+	2.0m Major Collectors	Meets City suggested width
			1.8m Minor Collectors 1.8m Local Roads	Exceed City of Mississauga and AODA minimum width of 1.5m. Reduction to 1.8m for Minor Collector and Local Streets assist in maintaining compact streets. All sidewalks located at edge of ROW so additional width is available in frontage zone.
2	Splashpad	1.Om	0.75m Major Collectors 0.75m Minor Collectors 0.0m Local Roads	OTM Book 18 specifies 1.0m buffer between parking lane and cycle track measured to <u>face of curb.</u> TAC specifies min 0.6m when cycle track adjacent to parking. wWidth of 0.75m buffer plus curb meets/exceeds these criteria while maintaining compact streets.
3	Curb Type	0.5m Curb + Gutter 0.5m Roll Curb between Through Lane and	Special Curb Detail Specific to Lakeview, with consideration to no concrete gutter. No roll curb	Assists in creating a sense of place and identity Roll curb would intercept storm runnoff into parking layby, reducing runoff capture to bio-retention LID features.
		Purking Lune		
4	Tree Corridor	2.5m+ planting / grass 2m hardscape	2.5m+ Trees in Sod 2.5m+ Trees in Soil-Cell 2.0m+ Trees in Soil-Cell	Meets City suggested minimum width. Corridor to be wider where possible Where adjacent uses warrent hadscape surface treatment. Meets City minimum width.
5	Bike Lanes	1.5m single cycle tracks		
		3.0m dual cycle track	3.0m dual cycle tracks 3.0m dual cycle tracks proposed within adjacent parks	3.0m dual cycle tracks proposed on Promenade, G, H, and I - geared towards N-S commuter cycling from Lakeshore Road to the Waterfront. Major E-W commuter circulation along Street A 3.0m multi-use trails or 3.0m dual cycle tracks within Ogden Park, Aviator Park and Waterfront Park - geared towards E-W recereational cycling

### **DESIGN STANDARDS**

	Element	City Suggestion	Lakeview Standard	Rationale
6	Travel Lane	3.3 without bus route, 3.5m with bus route	3.3m Major Collector Road. 3.25m Minor Collector 3.35m Minor Collector with Bus Route 3.0m Local Road	Roads meet or exceed TAC minimum of 3.0m for design speeds <60km/hr Reduction of non-bus lanes to 3.25m reflect narrower street widths and slower posted speeds (30km/hr) 3.35m travel lanes for bus routes carried as per City direction in April 2019. Reduction of non-bus lanes to 3.25m reflect narrower street widths and slower posted speeds (30km/hr)
7	Parking Lane	2.4m	2.4m	Measured from face of curb
8	Curb Radii	12m	8m	City standard is 8m for Local and Minor Collector, 12m for Major Collector NACTO standard is 4.5m maximum to slow speeds through intersection turns. Curb radii of 8.0m for Lakeview is proposed through out to encourage slow- er turn speeds through intersections and to minimize pedestrian crossing distance / time
9	Utility Corridor	Both sides of road	One side of road	Majority of buildings on the site can be serviced by a utility corridor on one side of the road. Of the 100+ buildings, less than 10 would require a road crossing for utility service. See Utility Layout drawing.

### LOCAL ROAD

Local roads serve as the finer grain street network within Lakeview Village and are intended to provide a comfortable pedestrian experience with relatively low levels of local vehicular traffic. Two lanes of traffic are accomodated with parking on one side. The local road's right-of-way width is **18.0 metres** with a proposed speed limit of **30km/h**.

Dependant on adjacent uses, the character of these streets are that of an urban residential district with a variety of hard and softscape frontage zones depending on the adjacent building typology.

Streets D and H are designated a 'Character' streets with a a unique sense of character and materiality that will be shown later in the document.





Local Road - Character

Local Road





### STREETS C, E, J AND G + NORTH OF STREET A - LOCAL ROAD



TOWN HOMES 3M FRONT GARDENS 3M FRONTAGE 3M FRONTAGE 1.8M SIDEWALK 2.75M STREET TREE 2.4M PARKING / LID 3.00M TRAVEL LANE 3.00M TRAVEL LANE

2.75M STREET TREE1.8M SIDEWALK3M FRONTAGE

## MID / HIGH RISE

## **STREETS C, E, J AND G + NORTH OF STREET A - LOCAL ROAD**



18M RIGHT-OF-WAY

### STREETS C, E, J AND G + NORTH OF STREET A - LOCAL ROAD WITH CITY PROPOSED CROSS SECTION OVERLAY



RIGHT-OF-WAY

**+** 2.5M





**3M** FRONTAGE **1.8M** SIDEWALK 2.75M STREET TREE 0.25M CURB 2.4M PARKING / LID **3.00M** TRAVEL LANE **3.00M** TRAVEL LANE 025M CURR 2.75M STREET TREE **1.8M** SIDEWALK CYCLE TRACK

### **STREET D - LOCAL ROAD (CHARACTER)**



RIGHT-OF-WAY

### STREET D - LOCAL ROAD (CHARACTER) WITH CITY PROPOSED CROSS SECTION OVERLAY



RIGHT-OF-WAY

**+** 4.0M

### **STREET H, SOUTH OF LAKEVIEW SQUARE - LOCAL ROAD (CHARACTER)**



# HOTEL/COMMERCIAI

# **VARIES** FRONTAGE

1.8M SIDEWALK
2.75M STREET TREE
2.4M PARKING / LID
3.00M TRAVEL LANE
3.00M TRAVEL LANE
0.25M CLIRB
2.75M STREET TREE

1.8M SIDEWALK

# LAKEVIEW SQUARE
### STREET H, SOUTH OF LAKEVIEW SQUARE - LOCAL ROAD (CHARACTER)



#### STREET H, SOUTH OF LAKEVIEW SQUARE - LOCAL ROAD (CHARACTER) WITH CITY PROPOSED CROSS SECTION OVERLAY



RIGHT-OF-WAY

**1.5**M

#### MINOR COLLECTOR

Minor collector roads also provide key Connections between Lakeview Village districts.

They further break down the community structure into smaller blocks and serve as key circulation routes. The proposed minor collector road right-of-way width is 22.0 metres with a proposed speed limit of 30km/h.

Additional variations on the typical configuration accommodate site specific and desired character conditions.

Street H is designated as a 'Character' street



Minor Collector



#### **STREET G - MINOR COLLECTOR**



MID / HIGH RISE **3M** FRONTAGE

1.8M SIDEWALK 2.25M STREET TREE 0.75M SPLASH PAD 0.25M CURB 2.4M PARKING / LID

**3.25M** TRAVEL LANE

3.25M TRAVEL LANE

0.25M CURB 0.75M SPLASH PAD

**3.0M** DUAL BIKE

**2.25M** STREET TREE**1.8M** SIDEWALK

**3M** FRONTAGE

MID / HIGH RISE



#### STREET G - MINOR COLLECTOR WITH CITY PROPOSED CROSS SECTION OVERLAY



RIGHT-OF-WAY

**+** 3.9M

#### **STREET B / AVIATOR PARK**

A

2.3

#### **STREET B - MINOR COLLECTOR**



MULTI-USE TRAIL

AVIATOR PARK

# **1.8M** SIDEWALK**2.55M** STREET TREE

0.75M SPLASH PAD 0.25M CURB 2.4M PARKING / LID

**3.25M** TRAVEL LANE

**2.4M** PARKING / LID

**2.55M** STREET TREE**1.8M** SIDEWALK

**3M** FRONTAGE

#### **STREET B - MINOR COLLECTOR**



#### STREET B - MINOR COLLECTOR WITH CITY PROPOSED CROSS SECTION OVERLAY



RIGHT-OF-WAY

**2.5**M



#### **NEW HAIG / STREET I - MINOR COLLECTOR (CHARACTER SOUTH OF STREET A)**



## COMMERCIAL/OFFICE

# 3M FRONTAGE 1.8M SIDEWALK 2.0M STREET TREE 3.0M DUAL BIKE 0.75M SPLASH PAD 0.25M CORB 3.35M TRAVEL LANE 3.35M TRAVEL LANE 2.4M PARKING / LID 0.25M CURB 0.75M SPLASH PAD

- HUID

**2.5M** STREET TREE**1.8M** SIDEWALK

**3M** FRONTAGE

#### **NEW HAIG / STREET I - MINOR COLLECTOR (CHARACTER SOUTH OF STREET A)**



#### NEW HAIG / STREET I - MINOR COLLECTOR (CHARACTER SOUTH OF STREET A) WITH CITY PROPOSED CROSS SECTION OVERLAY



RIGHT-OF-WAY

**2.3**M

#### **STREET A, EAST OF STREET H - MINOR COLLECTOR**



## MID / HIGH RISE

# **3M** FRONTAGE

# **1.8M** SIDEWALK**2.15M** STREET TREE

0.75M SPLASH PAD

**3.35M** TRAVEL LANE

**3.35M** TRAVEL LANE

**2.4M** PARKING / LID 0.25M CURB 0.75M SPLASH PAD

**3.0M** DUAL BIKE

**2.15M** STREET TREE**1.8M** SIDEWALK

### WATERWAY COMMON

#### **STREET A, EAST OF STREET H - MINOR COLLECTOR**



#### STREET A, EAST OF STREET H - MINOR COLLECTOR WITH CITY PROPOSED CROSS SECTION OVERLAY



RIGHT-OF-WAY

**2.0**M

#### **STREET F / OGDEN - MINOR COLLECTOR**



### OGDEN PARK

# **1.8M** SIDEWALK**2.55M** STREET TREE

**0.75M** SPLASH PAD

2.4M PARKING / LID

**3.25M** TRAVEL LANE

3.25M TRAVEL LANE

2.4M PARKING / LID 0.25M CURB 0.75M SPLASH PAD

**2.55M** STREET TREE

**1.8M** SIDEWALK

**3M** FRONTAGE

MID / HIGH RISE

#### **STREET F / OGDEN - MINOR COLLECTOR**



#### STREET F / OGDEN - MINOR COLLECTOR WITH CITY PROPOSED CROSS SECTION OVERLAY



RIGHT-OF-WAY

**2.5**M

#### **MAJOR COLLECTOR**

Major collector roads provide primary connections between Lakeview Village districts and community functions, such as parks, recreation centres, and other facilities.

They largely define the community structure, serve as the primary inter-district circulation routes, and accommodate transit. The proposed major collector road right-of-way width is **26.0 metres** with a proposed speed limit of **40km/h**.



Major Collector

Major Collector - Character





#### LAKEFRONT PROMENADE + STREET A - MAJOR COLLECTOR WITH BUS ROUTE



MID / HIGH RISE 3M FRONTAGE 2M SIDEWALK 5.15M STREET TREE 0.75M SPLASH PAD 0.25M CURB 3.35M TRAVEL LANE 3.35M TRAVEL LANE

**2.4M** PARKING / LID 0.25M CURB 0.75M SPLASH PAD

**3.0M** DUAL BIKE

**2.75M** STREET TREE**2M** SIDEWALK

OPEN SPACE

#### LAKEFRONT PROMENADE + STREET A - MAJOR COLLECTOR WITH BUS ROUTE



#### LAKEFRONT PROMENADE + STREET A - MAJOR COLLECTOR WITH BUS ROUTE WITH CITY PROPOSED CROSS SECTION OVERLAY



RIGHT-OF-WAY

**+** 1.8M

#### HYDRO ROAD / STREET H - MAJOR COLLECTOR (CHARACTER)



MID / HIGH RISE 3M FRONTAGE 2M SIDEWALK 3M STREET TREE 3.0M DUAL BIKE 0.25M CURB 2.4M PARKING / LID 3.30M TRAVEL LANE

## **3.30M** TRAVEL LANE

0.25M CURB

0.75M SPLASH PAD

## **5.0M** STREET TREE

2M SIDEWALK 3M FRONTAGE MID / HIGH RISE

#### HYDRO ROAD / STREET H - MAJOR COLLECTOR (CHARACTER)



#### HYDRO ROAD / STREET H - MAJOR COLLECTOR (CHARACTER) WITH CITY PROPOSED CROSS SECTION OVERLAY



RIGHT-OF-WAY

**+** 3.9M

# THANKYOU

# APPENDIX A ROAD DESIGN STANDARDS CITY vs. LAKEVIEW

# DESIGN STANDARDS

Element	City Suggestion	Lakeview Standard	Rationale
Sidewalk	2.0m+	2.0m Major Collectors	Meets City suggested width
		1.8m Minor Collectors 1.8m Local Roads	Exceed City of Mississauga and AODA minimum width of 1.5m. Reduction to 1.8m for Minor Collector and Local Streets assist in maintaining compact streets. All sidewalks located at edge of ROW so additional width is available in frontage zone.
Splashpad	1.Om	0.75m Major Collectors 0.75m Minor Collectors 0.0m Local Roads	OTM Book 18 specifies 1.0m buffer between parking lane and cycle track measured to <u>face of curb.</u> TAC specifies min 0.6m when cycle track adjacent to parking. wWidth of 0.75m buffer plus curb meets/exceeds these criteria while maintaining compact streets.
Curb Type	0.5m Curb + Gutter 0.5m Roll Curb between Through Lane and Parking Lane	Special Curb Detail Specific to Lakeview, with consideration to no concrete gutter. No roll curb	Assists in creating a sense of place and identity Roll curb would intercept storm runnoff into parking layby, reducing runoff capture to bio-retention LID features.
Tree Corridor	2.5m+ planting / grass 2m hardscape	2.5m+ Trees in Sod 2.5m+ Trees in Soil-Cell 2.0m+ Trees in Soil-Cell	Meets City suggested minimum width. Corridor to be wider where possible Where adjacent uses warrent hadscape surface treatment. Meets City minimum width.
Bike Lanes	1.5m single cycle tracks		
	3.0m dual cycle track	3.0m dual cycle tracks 3.0m dual cycle tracks proposed within adjacent parks	3.0m dual cycle tracks proposed on Promenade, G, H, and I - geared towards N-S commuter cycling from Lakeshore Road to the Waterfront. Major E-W commuter circulation along Street A 3.0m multi-use trails or 3.0m dual cycle tracks within Ogden Park, Aviator Park and Waterfront Park - geared towards E-W recereational cycling
	Element Sidewalk Sidewalk Splashpad Curb Type Tree Corridor Bike Lanes	ElementCity SuggestionSidewalk2.0m+Splashpad1.0mCurb Type0.5m Curb + GutterO.5m Roll Curb between Through Lane and Parking LaneTree Corridor2.5m+ planting / grass 2m hardscapeBike Lanes1.5m single cycle tracks 3.0m dual cycle tracks	LementCity SuggestionLakeview StandardSidewalk2.0m+2.0m Major Collectors 1.8m Minor Collectors 1.8m Local RoadsSplashpad1.0m0.75m Major Collectors 0.75m Minor Collectors 0.0m Local RoadsCurb Type0.5m Curb + Gutter D.5m Roll Curb between Through Lane and Parking LaneSpecial Curb Detail Specific to Lakeview, with consideration to no concrete gutter. No roll curbTree Corridor2.5m+ planting / grass 2.5m+ planting / grass 2.5m+ Trees in Soil-Cell 2.0m+ Trees in Soil-Cell 2.0m+ Trees in Soil-Cell 3.0m dual cycle tracks 3.0m dual cycle tracks proposed within adjacent parks



	Element	City Suggestion	Lakeview Standard	Rationale
6	Travel Lane	3.3 without bus route, 3.5m with bus route	3.3m Major Collector Road. 3.25m Minor Collector 3.35m Minor Collector with Bus Route 3.0m Local Road	Roads meet or exceed TAC minimum of 3.0m for design speeds <60km/hr Reduction of non-bus lanes to 3.25m reflect narrower street widths and slower posted speeds (30km/hr) 3.35m travel lanes for bus routes carried as per City direction in April 2019. Reduction of non-bus lanes to 3.25m reflect narrower street widths and slower posted speeds (30km/hr)
7	Parking Lane	2.4m	2.4m	Measured from face of curb
8	Curb Radii	12m	8m	<ul> <li>City standard is 8m for Local and Minor Collector, 12m for Major Collector NACTO standard is 4.5m maximum to slow speeds through intersection turns.</li> <li>Curb radii of 8.0m for Lakeview is proposed through out to encourage slower turn speeds through intersections and to minimize pedestrian crossing distance / time</li> </ul>
9	Utility Corridor	Both sides of road	One side of road	Majority of buildings on the site can be serviced by a utility corridor on one side of the road. Of the 100+ buildings, less than 10 would require a road crossing for utility service. See Utility Layout drawing.

APPENDIX B 2-D COMPOSITE PLAN & UTILITY LOCATION PLAN

# APPENDIX C DETAILED RESPONCE MATRIX CITY COMMENTS JUNE 26, 2020



September 28, 2020

# <u>RESPONSES TO CITY COMMENTS ON RIGHT-OF-WAY PACKAGE</u> (Written comments recieved June 26, 2020, verbal comments received July 23, 2020 and September 24, 2020)

#### **TABLE 1: GENERAL COMMENTS**

#### A. Road Classification

COMMENT	FIGURE	RESPO
COMMENT         1. The applicant is required to provide justification for the road classification changes from the Official Plan policies from the following streets are required:         a. Street H (from Street A to Street D) changed to local road         b. Street D (from Street G to Street H) changed to local road	FIGURE	RESPO Chapter 8 of the City's Official Plan states. Section 8.2.2.1, point c. and d. of the City of c. minor collectors and local roads will be de provide property access. To ensure safety, matters, the access locations to private prop d. minor adjustments to the basic right-of-w without further amendment to this Plan su
	Lord       Roard 18.0000         Lord       Roard 18.0000         Lord       Roard 18.0000         Lord       Roard 18.0000         Lord       Roard 18.0000	According to the OP, both a minor collector description although they are two separate r that "minor" adjustments can be made to the OP) so long as the role and function of the ro the OP, Minor Collectors are to have ROW Roads are to have a ROW of 17m to 20m. of Street 'H' south of Street 'A' falls within Lo
		From a mobility standpoint, the proposed La (22m ROW) fulfill the same functions: one la parking, sidewalks on both sides of the road, between the two cross-sections is the cycli make use of "mixed traffic lanes" instead of Regardless, both ROW widths have provision and pedestrians within the ROW.
		Although separation of automobile and cy introduced compared to cycle tracks, this is designated as local, as this section of Stree Village – Lakeview Square. This is envision

#### PROJECT NUMBER 17201

#### ONSE

f Mississauga's Official Plan:

esigned to accommodate low levels of traffic and to the efficient function of the thoroughfare and other perty will be controlled; and

vay widths and alignments for roads may be made ubject to the City being satisfied that the role and or adjustments to the basic right-of-way widths and nent to this Plan.

or and a local road are given the same functional road classifications. Furthermore, point d. indicates ne ROW widths (without further amendments to the road classification is maintained. As per Table 8.3 of V between 20-26m. Table 8.4 indicates that Local The proposed 18m ROW for the local road section ocal Road guidelines, as per the OPA.

akeview Village Local Roads and Minor Collectors ane of travel in each direction, one lane of on-street , and provisions for cycling traffic. The key difference ing infrastructure. The local road cross-section will of dedicated cycle tracks on both sides of the road. n for the efficient movement of automobiles, cyclists,

yclist traffic is 'lost' when mixed traffic lanes are s not a negative aspect of the portion of Street 'H' et 'H' is intended to lead into the heart of Lakeview ned as a high-pedestrian area, and the desire is to

	minimize the number of automobiles using the function of automobiles using the control of a cyclist. minimize the number of automobiles using the function of a cyclist. minimize the number of automobiles using the function of a cyclist. minimize the number of automobiles using the function of a cyclist. minimize the number of automobiles using the function of a cyclist. minimize the number of automobiles using the function of a cyclist. minimize the number of automobiles using the function of a cyclist. minimize the number of automobiles using the function of a cyclist.
continued	Much of the above reasoning / arguments interfaces with the waterfront. This street is activity, and the priority of automobile traffic welcoming and safer environment for pedest
	A Local Road right-of-way provides a more fronting along the north side of Street 'D' will waterfront park through a reduced setback. of the street that will affect a reduction in vel character street that will see a high intensity close relationship between street and building frame the street and contribute to the overall
	Should accessibility to the waterfront for cyc other north-south streets providing access to dedicated cycle tracks or bike path.
	We note that based on feedback received fr multi-use recreation trail previously propose 'D' has now been changed to a dual cycle tr park in addition to the Waterfront Trail.
2. Due to function, infrastructure requirements, and proximity to waterfront and the amenities along the waterfront, Street D is required to be minor collector road from Street G to Street I (shown in purple line)	Please see our response to Item No.1. Please also see our supporting comments f responses to the Table 2: Cross-Section Col

the roads within the higher-density Lakefront area. hese areas as well to further enforce the pedestrianiring bicycles and vehicles to share the same lane contributing factor to slowing down automobile traffic

can also be applied to Street 'D', which directly s meant to also have a high degree of pedestrian is lowered appropriately, so as to provide a more strians.

effective urban interface condition where buildings have a stronger relationship with the street and the This will result in a perceived reduction in the scale chicular speeds, which is critical to the safety of this / of pedestrian movement throughout. As well, the ng along a local road allows the architecture to better l streetscape character.

clists be questioned, in particular for Street H, most o the waterfront and Street 'D' all are designed with

from City staff on July 23<sup>rd</sup> and September 24<sup>th</sup>, the ed within the Lakefront Park lands parallel to Street track which will provide a cycling route through this

for Bicycle/Multi-Use Trail Network Item 1, and our omments for Street D

#### **B. Pedestrian Network**

COMMENT	FIGURE	RESP
<ol> <li>There are a number of proposed pedestrian promenades within blocks, which is welcomed. There are two points along Street F where the promenade on either side should be extended across the park space to complete gaps between them (shown as pink line).</li> <li>There are 7 points where the pedestrian promenades meet roadways where pedestrian are likely to cross mid-block. There should be provisions at these points for either pedestrian crossovers (PXOs) or uncontrolled crossings with safety provisions (i.e. break in parking with bump-out of boulevard), shown as pink square.</li> </ol>		Agreed Agreed: Sasaki has added these crossings Composite Surface Feature Plan according
3. On Street B and Street D, there are both sidewalks and multi-use trails, which is redundant. The configuration on these two roads should be changed to cycle tracks plus sidewalks. The sidewalks on the parkland side of each street should be widened.		<ul> <li>The Lakeview Team disagrees.</li> <li>The sidewalks and multi-use trails serve dift these as being redundant.</li> <li>The sidewalk is located within the right-of-wer The multi-use trail which is identified within both pedestrians and recreational cyclists.</li> <li>The cycle track system proposed by LCPL cyclist traffic and as a result, this system had to bring commuter cyclists from Lakeshore For the roads within a west-east orientation recreational cycling uses and pathways for mixed traffic lanes.</li> <li>One of the primary purposes of Aviator Par recreational cycling across the site (i.e. eas School. Given that the Aviator Park MUT we their parents to and from the urban school, location.</li> </ul>

#### ONSE

to the landscape plan and TMIG has updated the

ferent purposes and as a result we do not see

vay and provides a pathway for pedestrians.

the adjacent park lands, provides a pathway for

provides a pathway intended for more commuter as been primarily orientated on north-south streets Road down to the Lake and vise-versa.

, the cycle pathways have been identified as for this use have been provided via multi-use trails and

k along the north side of Street 'B' is to allow for st-west) for students to travel to and from the Urban vill provide a key pathway for school children and LCPL would prefer the MUT over the CT in this


	As noted above, the multi-use recreation t lands parallel to Street 'D' has now been o cycling route through this park in addition to
4. There should be multi-use trail connections on the east ends of streets A and B to the north-south multi-use trail along the river.	Agreed This has been shown on updated figures.
5. For sidewalks, the minimum width of 2.0 m shown in the plans is acceptable. Where there is room along parkland, and suggest that multi-use trail be changed to cycle tracks, so a wider sidewalk can be provided, 2.5 to 3.0 m is desirable.	While our April 2020 ROW package identifie cross-sections attached reflect a minimum s collector roads to achieve compact streets a corridors A minimum width of 2.0m has be
	Both the 1.8m and 2.0m sidewalk widths me AODA standards.
	It is acknowledged, however, that some area foot traffic associated with adjacent land use through Lakeview Square). As part of the si these areas will be supplemented with an ad sidewalk and curb) that will expand the walk pedestrian priority for the community.
	If the City feels strongly about 2.0m sidewal width could be taken from the tree corridors From an environmental standpoint, LCPL's landscaped surfaces rather than hard surfac
6. In higher pedestrian areas, such as where there may be street-facing commercial activity, then sidewalks should be wider, though alternatively pedestrian space on the private property can be provided.	Additional space for pedestrians in areas su ways. Utilizing tree pits within the tree corric between the trees which also assist in pede Please see in the attached Presentation, the Lakview Square where we are proposing the

trail previously proposed within the Lakefront Park changed to a dual cycle track which will provide a to the Waterfront Trail.

ed minimum sidewalk widths of 2.0m, the updated sidewalk width of 1.8m on the local roads and minor and in many cases to generate wider tree een maintained on the major collector roads.

eets the Ctiy design standards and the provincial

eas of the community will experience more intensive es (i.e. north side of Street 'D' and Street 'H' streetscape design program, the 1.8m sidewalks in djacent hardscape boulevard treatment (between kable zone width and continue to reinforce the

ks within the local and minor collector roads, then (which exceed the minimum tree corridor widths). preference is to put the width into the soft ces.

ich as the Square, can be provided in a number of for in these areas, provide hard paver surfaces strian movements.

e typical plan and section for Street D around s condition.



#### C. BICYCLE / MULTI-USE TRAIL NETWORK

COMMENT	FIGURE	RESP
1. On Street B and Street D, there are both sidewalks and multi-use trails, which is redundant. The configuration on these two roads should be changed to cycle tracks plus sidewalks. The sidewalks on the parkland side of each street should be widened (shown as yellow line).	Lokeshere Rood East	Please see our response to comment No.3 ur
2. There should be multi-use trail (MUT) connections on the east ends of streets A and B to the north- south MUT along the river.		Agreed This has now been reflected
3. If any boulevard along Lakeshore Road is being affected, then cycle tracks should be added, as is being done at Port Credit West Village. These would connect to the existing multi-use trail east of Hydro Road.		Agreed. This will be evaluated in conjunction Road.
4. The Waterfront Trail on the west side of the development should be more direct and more scenic by utilizing the proposed bridge, allow for a short connect to roundabout/Street A. It is suggested that it be rerouted there (shown as purple line).		Agreed. We show both the route currently sh
5. The routing of the Waterfront Trail on the east side of the development is unclear. Please clarify if the trail crosses over the channel south of the graphic? If not, it should cross over at the bridge, to connect with the new park under construction to the east, shown as purple circle.		Agreed, there are two crossings envisioned in figures.

# ONSE nder 'Pedestrian Network' with any road improvement designs for Lakeshore nown and the route across the bridge. this area. This has been clarified on the updated

6. Cycle tracks should continue along Street H, down to	The Lakeview Team disagrees.
Street D, as shown with black line.	The cycle track system proposed by LCPL pro cyclist traffic. Given the high pedestrian focus cycle track on Street 'H' has intentionally been
	During normal day events, the roadway will a cyclists, and the commuter cyclists will be rou
	During special events when Street H is closed
7. If other adjacent cycling connections are made, this	Acknowledged
instead of cycle tracks, shown as blue circle.	However, we will keep the cycle tracks along population density in the neighborhood and w
8. Connection to MUT should be provided east of Street I, shown as green line.	Agreed, these connections have now been sh
9. A MUT travelling from Lakeshore Rd E to Street 'D' along the waterfront park in addition to a double cycle track from Lakeshore Rd E to Street 'B' is proposed. Remove the MUT within future park and replace with a cycle track along Street F – sidewalks are already located within the Minor Collector.	As noted above, The cycle track system prop more commuter cyclist traffic and as a result, streets to bring commuter cyclists from Lakes
	Our current plan shows cycle tracks on all fou Lakefront Promenade, Street 'F', Street 'H', a
	Upon re-evaluation, the Lakeview Team belie these linkages and that the community would along/adjacent Street 'F' instead of cycle trac
	The Lakeview Team is proposing, as a result, between Lakeshore and Street 'B' and mainta recreational cyclists.
	The most likely routes for cyclists along Lakes waterfront in as quick and direct route as poss Lakefront Promenade, Street 'I' (New Haig) a within Ogden Park, in place of cycle tracks alo who wish to make connections to the waterfro setting. This will include the removal of the po between Lakeshore Road and Street 'B'. As path will be minimized somewhat to ensure the
	These cycling choices are strategic and comp comprehensive, experiential, and safe cycling

ovides a pathway intended for more commuter us of the Square (Street 'H' from 'A' down to 'D'), the en left off of this portion of Street 'H'.

ict as a mixed traffic lane for the recreational Ited off Street H south of 'A'.

d, cyclists should be directed to dismount.

Street 'G' as this area will have the highest vill generate the most cycling traffic.

nown on the updated figures.

osed by LCPL provides a pathway intended for this system has been orientated on north-south shore Road down to the Lake and vise-versa.

ur north-south primary linkages, namely on ind Street 'I'.

eves that cycle tracks are not warranted on all of be better served by a recreational cyclist pathway ks

, to eliminate the double cycle tracks on Street 'F' ain the MUT within the adjacent park for

shore Road who want to head south to the sible will be via the proposed cycle tracks along nd Street 'H' (Hydro). A proposed multi-use trail ong Street 'F', is intended to engage those cyclists ont and points in-between within a park-like reviously identified cycle track along Street 'F' well, within Ogden Park, the meandering of the ne cycling connections southward are efficient.

plementary and are intended to reinforce a experience for all levels.

10. What is the rational for not continuing the Double Cycle Track on Street "F" from Street "B" to Street "D"? Remove reference to MUT within future Park. A need for MUT will be determined through future park design process. Cycle track should be accommodated within the Street ROW. Pedestrian Network illustrates a multi- use trail along Street 'B' and Street 'D' but the cross section (Appendix A, Figure 3 and 6) does not show where the MUT will be in relation to the boulevard (shown as red line).	See our response to comment No.9 above.
11. Pedestrian and Cyclist Network illustrate trails along Serson Creek, they are labelled differently (multi- use trail versus park trail), please keep trail labels alike across all plans. This trail is to be determined based off of comments provided as park of Serson Creek Design Brief not yet approved by the City of Mississauga.	Agreed The Composite Surface Feature Plan has be associated multi-use trail.
12. Cycle tracks as shown are generally sufficient though will require some extra width where adjacent to parking. They should be a minimum of 2.0 m wide (one- way) or 3.5 m wide (two-way) if immediately adjacent to the curb, or 1.5 m and 3.0 m wide respectively if adjacent to the splash pad/buffer.	Our latest x-sections reflect dual cycle tracks pad/buffer. These meet the minimum widths
13. For cycle tracks/multi-use trails, a minimum 0.5 m wide splash pad/buffer is desired. A 1.0 m wide splash pad/buffer is required if there is adjacent parking, or if the road has more than one lane in each direction.	We recognize the City's concern regarding th vehicles and our x-sections have been revise are adjacent to parking. It is important to note that this 0.75m pad wid guide suggested buffer width of 1.0m measur
14. The buffer width and material should be shown in the drawings, and can be concrete, bricks, or pavers (something that contrasts with the asphalt).	Agreed. Concrete/Pavers has been reflected on the ι . Confirm this has been reflected. What mate

en coordinated with drawings for Serson Creek and

with a width of 3.0m adjacent to a 0.75m splash requested by the City.

he potential for "dooring" of cyclists by parked ed to reflect a 0.75m splashpad when Cycle Tracks

dth meets the OTM Book 18 - Cycling Facilities red from cycle track to face of curb.

updated x-sections



#### C. TRANSIT NETWORK

COMMENT	FIGURE	RES
<ol> <li>What are the proposed land/building uses surrounding the bus stops which are located at the following site intersections:         <ul> <li>On Lakefront Promenade at Street 'B'</li> <li>On Street 'A' at Street 'F'</li> <li>On Street 'I' at Street 'B'</li> </ul> </li> </ol>	N/A	<ul> <li>Park/Highrise Residential</li> <li>Park/Highrise Residential</li> <li>Employment/School/Highrise Residential</li> </ul>
2. What is the distance between the above proposed future bus stops? MiWay's stop spacing standard entails an approximate distance of 400 metres between local stops.		The distance between proposed bus stops are
3. All future proposed bus stops are to be located at protected intersections (i.e. 4-way stops or signalized intersections).		TMIG will continue discussions with MiWay.Separate coordination meetings with MiWay wTMIG will initiate.
4. All future proposed bus stops must follow our updated standards as attached within this e-mail. For stops located adjacent to a bike trail/path please also refer to the attached draft standard drawings. Note: MiWay has finalized these standard drawings and we are in the process of going through the approvals with the City. Draft standards will be updated once final copy approval is obtained.		Agreed We don't believe these updated standards we The bus-stops shown in the Composite Surfac
<ul> <li>5. For the proposed bus stop on Street 'l' at Street 'B':</li> <li>Northbound stop does not have a platform; please also incorporate space for a 15 metre concrete pad as per our draft standard drawings.</li> </ul>		Agreed The bus-stops shown in the Composite Surfac
6. Southbound stop is located far side – please move this stop nearside at the stop bar of the protected intersection on Street 'I' at Street 'B'.		Agreed The bus-stops shown in the Composite Surfac
<ul> <li>7. Articulated bus Auto turn analysis must be completed at the following locations:</li> <li>Lakefront Promenade / Street 'A' (roundabout)</li> <li>Street 'A' / Street 'I' (Note: please adjust on-street parking accordingly)</li> </ul>		Acknowledged An auto-turn analysis has been included in Ap and standard buses. As you will note, both bus can travel unimpede

SPONSE
a in the near rest of 400ms C00ms
e in the range of 400m-600m.
vouid be beneficial.
ere circulated to the LCPL Team.
ce Feature Plan have been updated accordingly.
ce Feature Plan have been updated accordingly.
ce Feature Plan have been undated accordingly
ce realare rian nave been updated accordingly.
opendix D of this package for both articulated buses
ed through the roundabout.

	Bus travel through the Street A/Street I inte a bit of a challenge for both bus types, with this intersection will need to be reviewed discussed with T&W and MiWay include: • Moving offset stop bars back +/-10m • Flaring of pavement width at the inte
8. Please be advised that MiWay will require nearside bus stops that adhere to the above mentioned requirements at Lakeshore Road East (on Lakefront Promenade and on Street 'I').	Agreed The bus-stops shown in the Composite Sur
9. As per recommendations outlined in the Lakeshore Road Transportation Master Plan and Implementation Study, along Lakeshore Road East, where there currently are no shelters/no land that is available to implement a shelter at the existing stops, MiWay requires the protected space for a future bus shelter/concrete pad that adhere to MiWay standards.	This will be reviewed in conjunction wi improvements by LCPL.
10. The existing stops adjacent to the Inspiration Lakeview site must also be relocated to the stop bar of intersections (i.e. Stop #0439, #0440, and #2744).	This will be reviewed in conjunction wi improvements by LCPL.
11. In the initial submission, Hydro Road was designated as part of the transit path, MiWay will need to change transit reviewer comments provided to pertain to Street 'I' instead of Hydro Road (i.e. 3.5 metre lane widthetc.).	Understood We note that it is expected that transit will f Lakeshore Rd. This connection is constrain

ersection and the Street A/Street H intersection poses h it being worse for the articulated bus.. The design of d in light of transit turning. Potential solutions to be

m from typical locations tersection

rface Feature Plan have been updated accordingly.

rith the design of any proposed Lakeshore Road

rith the design of any proposed Lakeshore Road

follow Hydro Road until Street 'l' can be connected to ned by property ownership.

#### D. PARKING

COMMENT	FIGURE	RE
1. Parking lanes are all 2.4m, generally the City uses 2.5m as a minimum when a parking lane is beside a bike lane for door swing – this would apply to having a cycle track with minimal buffer immediately adjacent to the parking lane.	N/A	2.4m parking widths were requested by the 15, 2019. It is important to note that, the City's Road De "Layby parking width to be a minimum (2.4-2 Our updated sections reflect this 2.4m parkin
2. At the March 12, 2020, meeting with LT to discuss the Lakeview development, it was indicated that on-street parking would be paid parking, even though the city will be moving to a minimum standard for pay and display parking machines in favour of a mobile parking app, locations within the ROW for parking pay and display machines will be required. Machines are usually located so that drivers do not have to cross cycle tracks to access machines.		Understood We believe the parking pay and display ma where drivers don't have to cross the cycle tr This will be addressed at the detailed design
3. In current configuration drivers parking and exiting their vehicles will need to cross the cycle track and grass/tree corridor to access the sidewalk which may be difficult during winter due to snow rows from winter maintenance and cycle traffic during the summer months.		Agreed This would be the case anywhere in Missis parking.

#### SPONSE

City in its consolidated comments to LCPL on April

Design Comment #8 below indicates that: 2.6) metres from curb face to back of curb"

ng lane width to face of curb.

achines can be accommodated and placed in areas racks to access them.

stage.

ssauga where cycle tracks are located adjacent to



#### E. MUNICIPAL SERVICES - REGION OF PEEL

COMMENT	FIGURE	RE
1. <u>Infrastructures within contaminated land:</u> Based on the Peer Reviewer recommendation / MECP and Geotechnical Report requirements, the designer will determine if any specialized pipes, pipe gaskets, insulations & waterproofing seals for the manhole/structures, and soil remedial (soil capping) details will be required for the infrastructure proposed in the contaminated lands within the development. Remedial details for the infrastructure installation in the contaminated lands are not yet finalized. The details must be completed and available in order to finalize the R.O.W sections	N/A	There are no specialized pipes, pipe gaskets, manhole structures. The soil capping details currently being reviewed/discussed with City
<ul> <li>2. <u>Standard clearance to Region's infrastructure:</u></li> <li>Watermain – 2.5m horizontal and 0.5m vertical from other infrastructures</li> <li>Watermain – 0.6m from cables and electric poles and 1.2m from structures</li> <li>Sanitary main - 2.0m if depth is less than 5.0m and 3.0m if depth is more than 5.0m.</li> <li>The barrel to barrel (edge to edge) clearances between infrastructures/utilities must be maintained as per MECP, PUCC and Region's criteria requirements (within R.O.W)</li> </ul>		The proposed rights-of-way, in order to achie total width of between 6.0m -6.7m. Placing s paved portion of the right-of-way while m challenging. We cannot maintain the requested sanitary barrel. We have maintained a minimum 0.9 which would allow for future excavation of the Urbantech would like to discuss reducing th storm sewers with the Region for this proje Region, and City T&W staff is suggested as t
<ul> <li>3. Proposing Non-typical Regional/ Municipal standards and non-approved (special) materials:</li> <li>Watermains are proposed under paved areas instead of in green areas (Blvd).</li> <li>No watermain replacement corridor is provided; future watermain replacement?</li> <li>Separation distance (horizontally and vertically) from additional infrastructures such as the District Energy pipes and the Vacuum waste pipes within R.O.W.</li> <li>Protection of infrastructure from contamination within the R.O.W.</li> <li>The above items will cause additional operational and maintenance to Region's Water, Wastewater and Waste Management Operation and Maintenance Divisions. Acceptance from Divisions on the above proposals will be required as to move forward on finalizing the R.O.W sections.</li> </ul>		<ul> <li>Watermain are generally in the boulevard us Street B, F, and Local Roads, where there is sub-surface utilities and the proposed right-or green areas of the boulevard everywhere ar Peel Region has accepted watermain beneat</li> <li>The ROW will be utilized for STM, SAN, utilic contain all standard services. These locat corridor and will be further investigated at de is not a Peel Region standard, and this is Mississauga Standard right of ways.</li> <li>Separation distance between WM, SAN, a drawings.</li> <li>Protection from contaminated is provided by the second service of the second service of the second service of the second service of the second second service of the second second</li></ul>

#### SPONSE

insulations, or waterproofing seals proposed for the are outlined in reports prepared by EXP and are Staff.

eve compact streets, only have two travel lanes for a sanitary and storm sewers and catch basins in the naintaining the Region's standard offsets will be

offsets when measuring from the outside edge of m clearance between outside barrel (san to storm) e sanitary pipes by use of vertical trench box.

ne standard required offsets between sanitary and ect. A joint meeting between the Lakeview Team, the best forum for discussion.

under cycle tracks, except for three cross-sections no space in the boulevards. Due to the number of f-way layout, we can not place the watermain in the nd would like to discuss this issue with the Region. th the pavement in other municipalities (Brampton) ities, LID, and landscaping but certain row's do not tions can potentially accommodate a replacement etailed design. We note that a replacement corridor not accounted for in any of the current City of

and STM and DE/ENVAC have be shown on the

till cap. This can be deferred to detailed design.

<b><b>♦TMIG</b></b>
ATY:LININTERNATIONAL COMPANY

<ul> <li>4. <u>Initial review comments on the R.O.W sections:</u></li> <li>Standard clearances to Region's infrastructure are to be maintained.</li> <li>Watermain is running parallel almost at the same elevation of the Bio-Retention trenches. Standard horizontal clearance is required between watermain and Bio-Retention trenches.</li> <li>Show building and underground parking setbacks, F.F &amp; U.F elevations and long and short services on R.O.W. sections</li> <li>Show online valve &amp; box and the online valve in chambers for the watermain</li> <li>It is preferred to cut straight instead of step cut for the soil cap limit.</li> <li>1.2m Frost depth to be reconsidered and revise the force main depth accordingly</li> <li>The comments must be addressed accordingly.</li> </ul>	<ul> <li>We will do our best to maintain the minimum of not be possible everywhere and would like to Region.</li> <li>Where possible we are maintaining a 2.5m cl offset cannot be met a minimum 0.5m vertica be provided in accordance with MECP stand that the purpose of the bio-retention trench is entering into the storm sewer via subdrains designed to infiltrate the native subgrade while</li> <li>Building and parking garage elevations are new Adding long and short services to the cross-service connection drawings.</li> <li>Agreed, VC's have been added to the cross-service Straight cut of the till cap will require a much the detailed design stage.</li> <li>The FM is at 1.20m depth.</li> </ul>
<ul> <li>5. <u>Additional approval clearance requirements</u></li> <li>Nonapproved material if required – Material Approval Committee Clearance?</li> <li>Nonstandard clearances if required – PUCC Committee Clearance?</li> <li>If all the services cannot be accommodated as per the Region's requirements within the given R.O.W, can the R.O.W be increased?</li> <li>To be determined what additional approvals are needed and if increased R.O.Ws are required.</li> </ul>	Acknowledged

clearances from the Region infrastructure, but it may discuss reductions of standard clearances with the

learance with the Bio-retention trenches. Where this al clearance above the subdrain within the trench will lards at detailed design. It should be clarified here to provide quality treatment of surface water before within the trenches. These trenches are not being nich could impact the watermain placement.

not available at this stage.

sections will make the ROW cross-sections cluttered. l lateral within the right-of-way in a separate set of

-sections. (local roads excepted) deeper excavation. This matter can be discussed at

#### F. UTILITIES

COMMENT	FIGURE	RESP
1. Based on a preliminary review of the proposed cross- sections, the City and utility agencies will require the joint utility corridor on both sides of the road to adequately service the development area. This will likely result in increasing the ROW widths. Additionally, Attachment A outlines comments provided by utilities that participate in the PUCC approval process. The applicant is required to include the following setbacks and requirements as part of future submissions.		The LCPL Team does not agree. The Lakev family development with a large number of pr
	N/A	The attached Utility Corridor Layout Plan der by a joint utility corridor on one side of the crossings would be needed to service a build
		Given that there will be over 100 buildings to would be overkill and unnecessary to incorpo to accommodate 7 crossings.
		The attached Utility Corridor Layout Plan has to show anticipated service locations to each these connections given the large block sizes
		LCPL is looking to the City to advise the Util for Lakeview Village as well.
		It is important to note that a joint utility corrido Village.

#### ONSE

view development is not a typical suburban singleroperties, driveways and utility connections.

emonstrates that all buildings/blocks can be serviced roadway with only seven (7) instances where road ding from the far side of the roadway.

to be serviced within Lakeview Village, we believe it porate joint utility corridors on both sides of the road,

been updated, as requested by the Region of Peel, h building. As demonstrated, ample room exists for s.

lity Companies that this arrangement will be utilized

or on one side of the roadway was approved for West



#### **G. STORMWATER MANAGEMENT**

COMMENT	FIGURE	RE
1. Please provide a stand-alone LID network figure	N/A	Acknowledged.
indicating which streets and sides are proposed with LID features.		This figure will be provided as part of the FSR. Feature Plan.
2. The LID features are to be proposed in		Acknowledged.
available/permanent locations in consideration with other ROW uses including parking, driveways, intersection design, street trees, underground utilities, etc.		The location of LID network has been determ driveways, parking lane, trees, etc.).
3. Plan view locations of/drainage to LID		Acknowledged
features will be required through the FSR and detailed design to demonstrate how they receive and treat ROW drainage.		This figure will be provided as part of the FSF
4. Please note, surface utility features such as		Acknowledged
hydrants, street lighting, signage, etc. are not permitted in an LID feature which may result in fragmentation of linear LIDs proposed.		Hydrants, streetlights, signage will not be place
5. Conceptual cross-sections and engineering sections		Acknowledged
are not consistent with regards to LIDs proposed. Comments provided are based on the engineered sections		Conceptual and ROW sections will be update
6. Please identify if the proposed SWM tree pits are intended to contribute towards meeting the overall SWM criteria or provide supplemental stormwater management.		Please note that Tree Pits will no longer be p areas between trees in the boulevard will be
<ul> <li>7. T&amp;W supports the use of tree pits for additional stormwater management based on the following:</li> <li>a. proposed on select streets/portion of streets considering where they might be most successful</li> </ul>		Please note that Tree Pits will no longer be p
b. if the tree pits receive pre-treated stormwater, the design/function of the LID is demonstrated to be technically satisfactory.		
8. SWM tree pits are not encumbered by utilities such as hydrants, etc.		Please note that Tree Pits will no longer be p
9. It is acceptable to Forestry staff		Forestry comments have been addressed be

# SPONSE . The LIDs are also shown on the Composite Surface nined in consideration with other ROW features (i.e. submission. ced within the LID features. ed to ensure they are consistent with each other. proposed for stormwater management. Bio-retention used for SWM. roposed for SWM. roposed for SWM. low.

10. At this time it is unclear, how drainage from the road would be pre-treated and conveyed to the proposed tree pits.	Please note that Tree pits will no longer be p
11. Through the FSR, details of the LID features will be required to confirm sizing/depths, sub-drain connection, etc.	Acknowledged, these details are provided in
12. Should OGS units be proposed, consideration for sizing and placement in the treatment train requires further discussion with City staff.	Acknowledge. Sizing of OGS will be determi
13. Compliance to utility off-sets for storm sewers/box culverts, sanitary and other infrastructure (i.e. Envac) is to be confirmed/demonstrated.	Clearance between LID and other utilities, pa
14. Off-set of storm sewers and LIDs to soil cap are to be to the satisfaction of Environmental Services, currently off- sets are shown to inside of pipe but requirement is outside of pipe.	Acknowledged. Clearance to soil cap has been proposed by by the City

#### H. ENVIRONMENTAL MANAGEMENT

COMMENT	FIGURE	RESP
1. Unimpacted soil cap of 1.0 m thickness horizontal and 0.5 m thickness below invert of underground infrastructure should be measured from outside diameter of each pipe. Diagrams provided by TMIG show soil cap measured from inside diameter of pipes. Otherwise, soil cap shown correctly.	N/A	Acknowledged The ROW x-sections now appropriately show infrastructure.

proposed for stormwater management. the FSR. ined during the FSR submission. articularly ENVAC, has been confirmed. / EXP and these details are currently being reviewed

### PONSE

v 1.0m clearance between the soil cap and all other

#### I. FORESTRY

COMMENT	FIGURE	RE
1. Trees in sodded boulevard: minimum width is 2.5m.	N/A	<ul> <li>Trees in sodded boulevard will have a minim</li> <li>Wider tree in sod corridors have been identif</li> <li>Lakefront Promenade and Street A (2</li> <li>Street H (5m and 3m)</li> <li>Street B and Street F (2.55m)</li> <li>All local streets (2.75m)</li> <li>It is important to note that, if the City feels minor collector roads, in many cases, the accommodate.</li> </ul>
2. Trees in sodded boulevards are to be planted a min of 1.25m to 1.5m (1.5m is preferred) from the back of the curb.		Acknowledged. All trees will be planted minir
3. Amended boulevard treatment (trees in soil cells) are not to be used for storm water treatment.		Acknowledged. Stormwater treatment will be
4. Amended boulevard treatment require a setback form the back of the curb in the form of a 0.75m splash pad (see Streetscape Feasibility Study).		Amended boulevard treatments with 2.0m m of H), H (south of A) and portions of Street D An amended boulevard set back from the reflected on the updated x-sections with the
		If the City feels strongly about showing a spl reduced to 2.0m. The end result will be a nar
5. Final amended boulevard treatment must include unit paving per the City standard; sod is not an acceptable alternative.		Acknowledged
6. Unencumbered tree corridor (above and below ground).		Acknowledged. Please note that there will not be any util connections have to cross the boulevard to hydrants are proposed between trees per the
7. Sodded boulevard: 2.5m tree corridors are to be unencumbered by utilities; all utilities to be setback a min 1.2m from the base of the truck of the tree.		Acknowledged. All trees are proposed 1.2m
8. Amended boulevard treatment: all utilities are to be setback 0.3m from the minimum 2m wide tree corridor.		Acknowledged. All trees are proposed 0.30m
9. All trees are to be setback a min of 3m from underground parking structures		Acknowledged. Based on the ROW cross-se the edge of the parking garage assuming the

#### ESPONSE

ium width of 2.5m ïed for: 2.75m)

strongly about 2.0m sidewalks within the local and width may be taken from these tree corridors to

num 1.25m from the back of the curb.

provided by bio-retention areas

inimum widths are proposed for Streets G, I, A (east ).

curb in the form of a 0.75m splash pad has been e exception of Street H (south of A) and Street D. In odth is shown as 2.75m.

lashpad on Streets H and D, the tree corridor can be rrower tree cell, with the same surface treatment.

ities below the tree corridor except where service o service development blocks. Light poles and fire e City Standards.

from the edge of Joint Utility Trench (JUT).

n from the edge of Joint Utility Trench (JUT).

ections, the tree corridor will be a minimum 3m from a parking garage is set 1m from the property line.

#### J. CULTURAL PRIORITIES

COMMENT	FIGURE	RE
1. Culture's priorities for the Lakeview Village development		Agreed
are to:		A creative industry cluster within the Innovation
<ul> <li>Enable creative industry and cultural uses in the innovation corridor, cultural hub and within the parkland area south of those sites and Ogden Park         <ul> <li>Open Space and Park Plan</li> <li>Innovation Corridor: LV-04</li> <li>Cultural Hub: LV-01 and LV-02</li> <li>Parkland: OS-12, OS-13, OS-15 and OS-16</li> </ul> </li> </ul>	N/A	feasible.
<ul> <li>Creative industry is to include, but not be limited to:         <ul> <li>A creative industry cluster with a hub building at its core</li> <li>Film, television and music enterprises</li> <li>Interactive digital media</li> <li>Complementary information and communications technology</li> </ul> </li> </ul>		
<ul> <li>Cultural uses are to include, but not be limited to:         <ul> <li>Cultural infrastructure (public art, cultural hub)</li> <li>Musical performances (outdoor amphitheatre, buskers)</li> <li>Festivals &amp; events (art festivals, farmer's markets)</li> </ul> </li> </ul>		
<ol> <li>Roadways around cultural infrastructure and performance, festivals and events spaces will have the most impact on realization of these priorities. These roadways include:</li> </ol>		Agreed
• Street 'I' (New Haig), south end		
• Street 'H' (Hydro), <i>south end along Lakeview Square</i>		
<ul> <li>Street 'D', between Street 'F' (Ogden) and Street 'I'</li> </ul>		
• Street Street 'C', between Street 'H' and Street 'I		
Culture comments for specific streets provided in Table 1.		





#### K. ROAD DESIGN

COMMENT	FIGURE	RESPONSE	
1. Number of lanes on Major Collector roadways to be determined in conjunction with traffic studies.	N/A	Acknowledged. The number of lanes on Major Collector roadways are sufficient to supposed development.	
2. Lane widths for Major Collectors to be minimum of 3.5 m.		Per comments from the City in April 15, 2019, the minimum lane widths are to be 3.30m ( transit routes). These widths have been reflected in our updated x-sections for the major colle (ie Lakefront Promenade, Street A, Street H)	
		For minor collectors we have utilized a travel lane width of 3.25m	
		For local roads we have utilized a travel lane width of 3.0m	
		TMIG has reviewed several Canadian design standards and additional articles that provide guregard to choosing lane widths that are context-sensitive while still allowing for effective flow of traffic.	
		For example, it is important to note that for all three road classifications, the proposed travel la	
		meet the TAC Geometric Design Guide for Canadian Roads standard, which references a minimum travel lane width of 2.7m (all proposed lane widths exceed this standard).	
		During the workshop on September 24th the concern was raised by a City staff member potential for reduced traffic capacity as a result of reduced through lane widths.	
		A review of the City of Toronto's Road Engineering Guidelines (Section 2.0 – Lane Wid provided recommended lane widths for urban streets that are in line with those being Lakeview Village. The Toronto guidelines recommend lane widths between 3.0m and 3. "Lane widths should vary depending on the speed limit of a road segment. Wider lanes on roads with higher speed limits", indicating that roads with lower speed limits should be narrower travel lanes. A lane width of 3.0m is recommended for roads with a posted 40km/h or less, as per "Table 2.4.1.A Lane Width Dimensions" provided in the Toronto excerpt of which is provided as <b>Figure 1</b> .	
		Figure 1 – City of Toronto Recommended Through Lane Widths	
		60km/h or more         3.0         3.5         x         +1         +           50km/h or less         40km/h or less         3.0         3.0         3.0         3.0         3.0         x         +	

ervice the

(3.35m for ector roads

juidance in f vehicular

ane widths a practical

about the

Guideline) oposed for and states, e allowable signed with ed limit of ndards, an

In regard to lane widths impacting capacity of a ro make the following reference to the Highway Cap Capacity Manual indicates that there are no impac 3.0m when traffic flow is interrupted by intersection
This is further corroborated by a study done by conducted a literature search of recent research a resulting from lane narrowing. This study found:
"The measured saturation flow rates are similar for widths below 10 feet, there is a measurable decreas geometric and traffic signalization conditions re in urban street capacity when through lane [emphasis added]
For reference: 10 feet is approximately 3.05m, and
TMIG also reviewed the HCM 2000 guide directly consideration when modifying the base saturation for intersection for analysis purposes. As seen in <b>F</b> ind the lane width is only one of many factors that effective the lane width is only one of many factors the lane width is only one of many factors the lane width is only one of many factors the lane width is only one of many factors the lane width is only one of many factors the lane width is only one of many factors the lane width is only one of many factors the lane width is only one of many factors the lane width is only one of many factors the lane width is only one of many factors the lane width is only one of many factors the lane width is only one of many factors the lane width is only one of many factors
Using the Lane Width adjustment factor formula pr in <b>Figure 2</b> ), the following factors were calculated fo Village:
<ul> <li>0.933 for 3.0m lane width</li> <li>0.961 for 3.25m lane width</li> <li>0.966 for 3.3m lane width</li> </ul>
Based on these factors, the lane widths in Lakev saturation flow rate of a given roadway or intersect its "standard" lane width, which produces a lane wid rate calculation).
Querell, TMIC entiringted that the proposed langu
impact on the capacity of the roadways. The reduce
impact for all road users. From a safety perspective
pedestrian crossing distances, and generally make

oad, the Toronto Road Engineering Guideline also bacity Manual, an industry standard, *"The Highway* cts to capacity when reducing lane widths down to s."

 the Florida Department of Transportation which across the US on impacts to urban street capacity

r lane widths between 10 feet and 12 feet. For lane se in saturation flow rate. **Thus, so long as all other emain constant, there is no measurable decrease** widths are narrowed from 12 feet to 10 feet".

12 feet is approximately 3.66m.

to review the common factors that are taken into low rate to best reflect the in-situ elements of a road **igure 2**, an excerpt from Chapter 16 of HCM 2000, ct the saturation flow rate.

ovided in Exhibit 16-7 of HCM 2000 (provided here or the varying proposed road widths within Lakeview

view Village will only marginally impact the overall tion. As a reference point, HCM 2000 uses 3.6m as 1th factor of 1.0 (i.e. no impact on the saturation flow

vidths in Lakeview Village will not have a noticeable ed lane widths, however, will have an overall positive e, narrower lanes reduce speeds, shorten mid-block for a better environment for non-auto modes.

	Figure 2 – HCM 2000 Chapter 16 Exc	cerpts – Lane Width Adjus	tment Factor
	<b>DETERMINATION OF SATURATION FLOW</b> A saturation flow rate for each lane group is of The saturation flow rate is the flow in vehicles per the lane group assuming that the green phase were g/C = 1.0. $s = s_o N f_w f_{HV} f_g f_p f_{bb} f_a f_L$	<b>/ RATE</b> computed according to Equation 16-4. r hour that could be accommodated by e displayed 100 percent of the time (i.e. $LU f_{LT} f_{RT} f_{Lpb} f_{Rpb}$ (16-	4)
	where s = saturation flow rate for the subj all lanes in the lane group, veh/l s <sub>o</sub> = base saturation flow rate per lan N = number of lanes in the lane grou $f_w$ = adjustment factor for lane width $f_{HV}$ = adjustment factor for lane width $f_g$ = adjustment factor for heavy veh $f_g$ = adjustment factor for the exister activity adjacent to the lane grou $f_{bb}$ = adjustment factor for the blockin the intersection area, $f_a$ = adjustment factor for area type, $f_{LU}$ = adjustment factor for lane utiliz $f_{LT}$ = adjustment factor for lane utiliz $f_{RT}$ = adjustment factor for right turns i $f_{RT}$ = adjustment factor for right turns $f_{Lpb}$ = pedestrian adjustment factor for	ect lane group, expressed as a total for h, ne, pc/h/ln, up, n (3.6 m width is base condition), nicles in the traffic stream, grade, nce of a parking lane and parking up, ng effect of local buses that stop within ation, in the lane group, s in the lane group, r left-turn movements, and actor for right-turn movements.	See Exhibit 16-7 for formulas. For default values refer to Chapter 10.
	Base Saturation Flow Rate		
	Computations begin with the selection of a bas passenger cars per hour per lane (pc/h/ln), and adju conditions. The adjustment factors are given in Ex	se saturation flow rate, usually 1,900 ist this value for a variety of shibit 16-7.	
	Adjustment for Lane Width The lane width adjustment factor, $f_w$ , account lanes on saturation flow rate and allows for an incr Standard lane widths are 3.6 m. The lane width fac lane widths greater than 4.8 m, or an analysis using Note that use of two narrow lanes will always resu single wide lane, but in either case, the analysis sho is actually used or expected to be used. In no case calculated for widths less than 2.4 m.	as for the negative impact of narrow reased flow rate on wide lanes. ctor may be calculated with caution for g two narrow lanes may be conducted. It in a higher saturation flow rate than ould reflect the way in which the widt should the lane width factor be	Do not use width < 2.4 m for calculations or a h
	Exhibit 16-7. Adjust	MENT FACTORS FOR SATURATION	I FLOW RATE
	Factor Formula	Definition of Variables	Notes
	Lane Width $f_w = 1 + \frac{(W - 3.6)}{9}$	W = lane width (m)	$W \ge 2.4$ if $W > 4.8$ , a two-lane analysis may be considered

3. Dimensions for curb and gutter to be included at 0.2m and 0.3m, respectively.	As identified in our ROW presentation to Cir interested in incorporating a special curb deta comprise a barrier curb with narrow gutter (C as part of the gutter.
	The Lakeview Team sees this as a detailed on a sees this as a detailed on a second sec
	The City's suggested road x-sections dated A travel lanes and the parking lanes as per Cit mountable curbs was not raised in the Ctiy's that they have not incorporated this mountab that they would:
	<ul> <li>Impact runoff capture for use with</li> </ul>
	Un-necessarily impact the ability
	Figure LID-2 from the FSR (see page 33 of the direction of flow from the parking layby into curb, the road has a continuous slope from the curb transitions back to the standard road wi the curb cut location shown in the figure. This bioretention swale.
	Introducing the mountable curb would require into the bioswale feature and with a continuo likely by-pass the curb cuts making them I described above.
	It is important to note that the West Village ro for the same reasons noted above. Assuming believe this item has been addressed.
4. Signalized intersections will require daylight triangles, not corner rounding.	Acknowledged. The LCPL Team is not curr Lakeview Village development. Signalized int
5. Road design to conform to TAC Geometric Design Guide for Canadian Roads.	Acknowledged
6. Splash pads to be a minimum 0.75m.	Our updated x-sections reflect a splash pad w Splash pads are not utilized on the local road
7. Minimum centreline radius of not less than 12m to any change in direction.	Acknowledged

ity staff on September 24<sup>th</sup>, the Lakeview Team is il to assist in creating a sense of place. Initial details OPSD 600.080) lined with a row of concrete pavers

design issue which will not impact the ROW widths f curb and the 0.75m splashpad is measured to back

ugust 20, 2020 show a mountable curb between the ty standard 2230.031. While the need for including comments of June 26<sup>th</sup>, the Lakeview Team notes le curb within their road x-sections due to concerns

thin the adjacent LID's

to create compact streets

his Response Matrix) provides a detail which shows o the bioswale feature. By eliminating the mountable e road crown to the parking layby curb. As the layby idth, a low point in the gutter is naturally created at s forces the drainage through the entire length of the

e curb cuts along the travel lane to direct drainage ous gutter grade along the curbs, the drainage will less effective than they would be in the scenario

bad designs also do not include the mountable curb that the City is in agreement with this approach, we

ently proposing signalized intersections within the ersections are anticipated on Lakeshore Road.

idth of 0.75m on all major and minor collector roads.

8. Layby parking width to be a minimum (2.4-2.6) metres from curb face to back of curb.	Acknowledged. We provide a minimum lay-l curb.
9. Storage and taper lengths to be determined through traffic studies.	Acknowledged
10. Lane configurations at intersection will be determined through traffic studies	Acknowledged
11. Signalized/unsignalized intersections and controls to be determined through traffic studies.	Acknowledged

#### L. URBAN DESIGN

COMMENT	FIGURE	RE
1. Ensure that the entire boulevard infrastructure has been considered and shown on the plans / sections such as bus shelters and all MiWay infrastructure, street lights, traffic light poles and associated cabinets or pedestals, parking meters, cycling infrastructure, etc.	N/A	Acknowledged. We have shown the location of bus pads; cabinets, and pedestals will be shown at the o
2. Clearly label and dimension the entire tree corridor. It is misleading when the tree corridor is dimensioned as 2m with a 0.6m grass strip beside it. It should clearly be shown as 2.6m.		Acknowledged.
3. Tree corridors are to be unencumbered by utilities. Remove all proposed utilities from beneath the street tree corridor and ensure that all min. setbacks to utilities are achieved.		Please note that there will not be any utilit connections have to cross the boulevard to hydrants are proposed between trees per the
4. Street trees in sodded boulevards shall be 2.5m wide minimum (refer to Urban Forestry's comments).		Acknowledged
5. Amended boulevard treatment (soil cells with paving) to be provided on Street H south of Waterway Commons. The min. width of the street tree corridor for this treatment is 2m.		Acknowledged Amended boulevard treatments (soil cells wi (east side), Street A (east of H), and on portio
6. Amended boulevard treatment may be considered for the north side of Street D.		Acknowledged
7. Amended boulevard shall be the ultimate street tree installation along Lakeshore.		Acknowledged
8. Show the cycle track buffer (dimension).		Acknowledged. The cycle tracks proposed are 3.0m wide wi curb. (as per OTM Book 18)

by parking lane width of 2.40m measured to front of

#### SPONSE

however, the location of streetlights, light poles, detailed design stage.

ties below the tree corridor except where service service development blocks. Light poles and fire city Standards.

ith paving) are also proposed on Street G, Street I ons of Street D

ith a 0.75m buffer between cycle track and back of

9. Provide all proposed underground garage setbacks dimensions. The proposed minimum setback from an above or below grade parking structure inclusive of external above grade access stairwells to a lot line of 1.0m is not supported at this time. Underground Parking Garage setbacks to the municipal boulevard lot line shall be coordinated with the road sections to ensure that the street trees corridors have adequate setbacks to the building and garage location.	The location of underground garages from the Based on the ROW cross-sections, the tree parking garage assuming the parking garage
10. Above grade underground garage setbacks to remain as per the base zoning requirements.	Acknowledged
11. Hydro Road has been identified as the Village's main street. The applicant committed to establishing a main street character along Hydro Road by adding a second	City staff and the Lakeview Team are in agr the main character avenue into Lakeview Vi with Lakeview Square and the waterfront.
row of trees on each side of the road. One row of trees has been shown within private lands (east side) however it has been provided on top of an underground garage with an approx. 2m setback to a building façade. The proposed underground garage and building location do not support a sustainable tree in that location and requires a 3m setback of the underground garage to facilitate the second row of trees	Our design intent is to create a unique pede boulevard along the west side of the stree staggered street trees (planted within soil cell openings, decorative paving, unique light features), street furniture (seating, bike rack achieve a strong presence at the top of th community and the lake.
Second fow of frees.	The Lakeview Team does not believe it can integrating expanded sodded boulevards with type of design response is quite common an character avenue that is unique to Lakeview
	Details of the Lakeview Team's concept for Sheet for Hydro Road, which can be found n
12. Hydro Road's alternative ROW section proposes a zigzag sidewalk pattern within the tree corridor which is not supported (refer to Urban Forestry's comments).	Please note that the zigzag pattern is not the sidewalk is clearly shown adjacent to the tree
13. The applicant shall ensure that the vacuum waste network connecting to the pier will not be too much of a distance for it to function.	Acknowledged.
14. Street D (Waterfront road) and Street H (south of Waterway Common) through Lakeview Square shall be designed with special streetscape treatments.	Acknowledged

e property line has not been determined at this stage.

corridor will be a minimum 3m from the edge of the is set 1m from the property line.

reement that it is important to signify Hydro Road as llage where it will directly link Lakeshore Road East

estrian promenade environment within an expanded et. This promenade can feature a double row of ls) and utilizing both raised planters and at grade tree ting (pedestrian standards and in-ground lighting ks), LID functions and public art. In doing so, it will ne community and draw people into the hub of the

n achieve the same distinctive result and effect by n double rows of trees on both side of the street. This nd will not have the impact that is desired for a main Village.

Hydro Road are enclosed in the attached Summary ear the beginning of this document.

e sidewalk. It is pavement stone between trees. The e corridor and is parallel to the property line.

15. The District Energy conduit is only 1.3m away from the underground parking garage. Confirm that this is sufficient.	Acknowledged. We can confirm that the clearance provided is
16. Gas line is setback from ROW inconsistently, ranging from 0.3 to 1 m. Please clarify the rationales.	Please note that the 1m clearance is for the c which requires a wider clearance.
17. The width of the sharrow shall be confirmed with T&W as they are typically 4 m in width.	Please note that the minimum Mixed traffic la OTM is 3m. We meet our exceed this 3m wid

#### M. CMS – PARK ASSETS

COMMENT	FIGURE	RE
1. More clarification required for the difference between character areas and any different conditions along the boulevard adjacent to all park frontages	N/A	We believe the x-sections contained in the at
2. Additional cross sections are required to illustrate the boulevard conditions on all streets adjacent to future parkland, including on-street parking, multi- use trail locations, and cycle track locations.		Agreed. See the x-sections contained in the a
3. Cross sections must illustrate where MUT are located in relation to the ROW, even when located outside of the ROW on private property or future parkland.		Agreed. See the x-sections contained in the a
4. Provide clarification on the differences in Waterfront Trail and MUT within Waterfront Park (width, use, etc.)		As noted above, the MUT within the Watefron track.

s sufficient.

dedicated steel gasmain to the District Energy plant,

lane width requirement per Table 4.1 of Book 18 of dth.

#### SPONSE

tached Presentation provides this clarification

attached Presentation

attached Presentation

nt Park has been revised to reflect a 3.0m dual cycle



#### TABLE 2: CROSS SECTION COMMENTS

#### A. STREET 'C', BETWEEN STREETS 'H' AND 'I'

COMMENT	FIGURE	RE
<ol> <li>Is proposed as a local road</li> <li>Culture considers Street 'C' between Streets 'H' and 'I' to be part of the "cultural precinct," as shown with a blue line.</li> </ol>		Agreed Agreed
3. During Street 'D' closures, Street 'C' will likely accommodate cycling and vehicular access to the south end of the neighborhood.		Agreed, Street 'C' is designed with mixed traf
4. As indicated in the Streetscape Composite Plan (May 2020), access in the proposed parking structures at the base of the mixed use cultural hub is provided from Street 'C' as well as Street 'D'.		Agreed
5. Alternate routing for cycle track infrastructure could be provided along Street 'C' to enable efficient movement across the neighbourhood for people working and visiting the cultural hub, institutional and employment spaces.		Please see our previous response to commen

SPONSE
fic lane lanes to accommodate cyclist traffic.
nt No.1 and 2 under "Street Classification" for details.

#### B. STREET 'D', BETWEEN STREETS 'F' (OGDEN) AND 'I'

COMMENT	FIGURE	RES
<ol> <li>Is proposed as a local road – character.</li> <li>Will play a unique role in the neighbourhood, especially</li> </ol>		Agreed Acknowledged
for cultural purposes along the section between Streets 'F' and 'I' (shown with a blue line).	Connected	
3. The section of Street 'D' between Streets 'F' and 'I' can be considered part of a "cultural precinct" that includes Lakeview Square, parkland, the mixed use cultural hub on Blocks 19 and 20 and the southern portion of the Innovation Corridor (shown encircled in a red line).		Acknowledg
4. Within this section of Street 'D', dedicated lay-by loading zones and pick up and drop off should be provided on the south side of the street to facilitate activities such as food truck, pick up and drop off, and loading/servicing for festivals, events and performances, and cultural infrastructure. The dedicated loading zones would be best located between Streets 'H' and 'I', and on the south side of Street 'D' east of Ogden Park and West of Lakeview Square to not impede view corridors to the lake (shown encircled in a light blue line).	BRE TO THE RET OF THE	The Lakeview Team disagrees with the locatin While these assets are very important, we bel cultural lands to accommodate festival/event requirement for this infrastructure will be greate Ample space has been identified conceptual adjacent to Street 'D' to better accommodate e mobilization, etc. Based on our workshop discussion on July 23 now supportive of this approach
5. An access point from Street 'D' into the park will need to be created to facilitate access to the amphitheatre. This access point could be created at the head of Street 'H' where it intersects with Street 'D'. The amphitheatre should also be serviced within the park by an internal access road.		Agreed. This internal access road access point will be o



6. Smart pole infrastructure should also be included on both sides of Street 'D' between Streets 'F' and 'I' to animate the cultural precinct. The smart poles can support public art, cultural programming and performance by installing digital screens, electrical outlets, Wi-Fi hotspots, etc.	We very much agree and look forward to we the city to advance this opportunity
7. During festivals, events and performances, which could be held frequently during the summer months, hundreds to thousands of people could visit the "cultural precinct" at the same time. Use of the cycling facilities may be restricted to ensure the safety of visitors. To allow cyclists unimpeded access to cycling infrastructure during most events, consider integrating cycling into Street 'D' by creating a cycle track within the right-of-way as previously noted and changing the designation of the multi-use trail to be pedestrian only.	As noted above, the LCPL Team disagrees w D. During special events, we strongly encourage area would be directed to dis-mount. Street 'D' is a local road that doesn't generate a regular basis. Therefore, a cycle track with As noted above, based on feedback received multi-use recreation trail previously proposed has now been changed to a dual cycle track in addition to the Waterfront Trail.
<ul> <li>8. During larger scale events, Street 'D' between Streets</li> <li>'F' and 'l' may be closed to car traffic and pedestrianized.</li> <li>This will further restrict cycling access, and so consider</li> <li>providing alternate routing for cycle tracks along Street 'C'.</li> </ul>	Please note that Street 'C' is provided with n closed. Alternative cycling routes in the area and cycle tracks along Street 'I'.
9. Consider paving this section of road differently to indicate a change in its character and use, and to clearly identify where the road would periodically become pedestrian-only.	Acknowledged
<ul> <li>10. Clarify the condition along Local Road Street "D" and demonstrate boulevard conditions including:</li> <li>a. Add Cycle Track within the ROW of Street "D"</li> <li>b. Remove MUT within Park</li> </ul>	As noted above, based on feedback received multi-use recreation trail previously propose 'D' has now been changed to a dual cycle t park in addition to the Waterfront Trail.
11. The City is requiring a Cycle Track be added to Street "D" so a MUT is not required along Street "D" abutting Lakefront Park. The conflict between pedestrians and cyclists is proposed to be high in the area between the road and the proposed Lakefront Park (a destination park). A cycle path and proposed sidewalk within Street "D" right- of-way should eliminate possible conflicts.	Please see our previous response.

orking with Culture/Parks/T&W/Smart City groups at

with the notion of incorporating a cycle track on Street

ge that Street D be closed , and any cyclists in this

te a lot of cycling traffic from within the community on hin the ROW is not required.

d from City staff on July 23<sup>rd</sup> and September 24<sup>th</sup>, the d within the Lakefront Park lands parallel to Street 'D' < which will provide a cycling route through this park

nixed traffic lanes that cyclist can use if Street 'D' is a include MUT in Ogden Park and along Street 'D',

d from City staff on July 23<sup>rd</sup> and September 24<sup>th</sup>, the ed within the Lakerfront Park lands parallel to Street track which will provide a cycling route through this

12. On-Street Parking facilities should be provided this	We are providing parking lanes on the north s
street to serve both the adjacent building and uses and	
should be provided on the north side of the street.	

#### C. STREET 'H' (HYDRO), BETWEEN STREETS 'C' AND 'D'

COMMENT	FIGURE	RES
<ol> <li>Is proposed as a local road – character.</li> <li>Is proposed as a local road – character.</li> <li>Culture considers the south end of Street 'H' between Street 'C' and Street 'D' (as shown with a blue line) to be part of a "cultural precinct".</li> </ol>	AND HILLING OF THE REAL PLANE	Agreed
<ul> <li>3. Culture recommends that Street 'H' is closed to car traffic when events such as art markets, farmers markets or festivals are happening in Lakeview Square.</li> <li>Pedestrianizing the street can increase pedestrian safety, and will create a loading and servicing area where trucks can pull up or remain parked during festivals and events.</li> <li>For instance, many farmers market vendors prefer to set up booths in front of small cube trucks, so that they can easily refresh market stalls with goods such as perishable food items.</li> </ul>		Agreed. Street 'H' will be designed as pedestrian centr strongly encourage that Street H be closed so be directed to dis-mount.
4. Smart pole infrastructure should also be included on both sides of Street 'H' between Streets 'C' and 'D' to animate the cultural precinct. The smart poles can support public art, cultural programming and performance by installing digital screens, electrical outlets, Wi-Fi hotspots, etc.		Agreed. See comment above regarding smart pole infr

#### side of the street.

#### SPONSE

ric road. As noted above, during special events, we outh of Street A, and any cyclists in this area would

rastructure on Street 'D'.

5. Consider paving this section of road differently to	Acknowledged
indicate a change in its character and use, and to clearly	
identify where the road would periodically become	
pedestrian-only.	

#### D. STREET 'F' (MINOR COLLECTOR)

COMMENT	FIGURE	RE
1. The Section for Street 'F' (Appendix A, Figure 5) demonstrates the cycle track but not the multi-use trail that appears to meeting the boulevard at multiple points along Street 'F'.	N/A	The alignment of the MUT in Ogden Park has Street 'B' (north of Street 'B', the MUT will be the Park and within the ROW it will be replace
2. More detail and separate sections must be provided for Street 'F' to demonstrate where the multi-use trail is located in relation to the cycle track, sidewalk, and parkland property line along the different sections of the road.		Acknowledged
3. Include a separate cycle track within the ROW from Street 'B' to Street 'D'.		Please note that the MUT within the park will is not sufficient commuter cycling demand in MUT is to provide a leisure route to traverse t and from the Urban School

#### SPONSE

s been updated. The MUT will now start south of within the ROW). The MUT will then veer off into ed with a 3m wide sidewalk.

I function as a cycling route along Street 'B'. There this area to warrant a dedicated cycle track. The the site, especially for parents/children travelling to



#### E. STREET 'B' (MINOR COLLECTOR)

COMMENT	FIGURE	RE
1. A MUT has been identified in Pedestrian and Bike Network, but the cross section, in Appendix A Figure 6 does not show this MUT. The cross section also does not show the open space on the north side of Street "B". An urban condition has been included on both sides of this cross section	N/A	Please note that the "engineered" cross-secti infrastructure in the right-of-way only. The sch package identify the MUT infrastructure within
2. In ROW package, page 19, it noted "Cycling and additional pedestrian movement accommodated in the adjacent Aviator Linear Park," cross section is required at this point to identify condition of park frontage in addition to Ogden Park frontage.		Acknowledged. The schematics of the roadways within the bo within the adjacent parklands.

#### F. STREET 'I' (NEW HAIG), BETWEEN STREETS 'C' AND 'D'

COMMENT	FIGURE	RE
<ul> <li>1. Is proposed as a local road – character.</li> <li>2. Culture considers the south end of Street 'l' between Street 'C' and Street 'D' to be part of the "cultural precinct," as shown with a blue line.</li> <li>Consider adding an additional entrance-way into Block 19 on the west side of Street 'l' for use when events have closed off Street 'D'.</li> </ul>	BRTH BRTH BRTH BRTH BRTH BRTH BRTH BRTH	Agreed

#### STREET 'I' BETWEEN STREETS B AND E

COMMENT	FIGURE	RESPONSE
1. Parking around school sites are generally restricted. Consideration for the building context on both sides of the		Acknowledged.
street should be reviewed if any on street parking facilities to serve the school are proposed.		

#### SPONSE

ions in the attached Appendix are for the hematics of the roadways within the body of this n the adjacent parklands.

ody of this package identify the MUT infrastructure

#### SPONSE

2. It should be noted that pick up and drop off facilities for all school sites should be provided on site and will be based upon an accompanying traffic study at the time of the school development. The Lakeview Team disagrees. This commo "urban school"

It is the objective of Lakeview Village to prioritize sustainable travel behaviours from day 1, in particular the use of active transportation for accessing local services. This objective is reflected in the Mississauga Official Plan policies for the Lakeview Waterfront Major Node Character Area (LWMNCA) which provides high-level direction on community objectives for the Lakeview Village project.

To achieve this, appropriate design and education measures will be instrumental. At this early stage, implementing an urban school design that actively discourages unnecessary parent automobile drop off is an important first step to communicate the intent of this community. Accommodating a dedicated parent drop off will enable the unnecessary use of the automobile in the future and undermine other measures to promote walking and cycling to and from school.

Although automotive drop off is to be discouraged, there remains the ability for curbside drop off for the occasional/necessary trip (for example, a student has a large school project or sprained ankle which makes walking or cycling less feasible or safe) that will provide a safe and practical access. The occurrence of these trips are expected to be less than for typical suburban schools and do not warrant a dedicated drop-off.

It is anticipated that all future students (from grades K-8) will live within the Lakeview Village and Rangeview lands and will be within walking distance of the proposed public school. This is supported by the PDSB re-zoning comments which identified that the Lakeview Village lands alone will generate 718 Kindergarten to Grade 5 students and 308 Grade 6-8 students. Given this assessment, it is likely that few, if any students, will be coming from beyond the limits of the LWMNCA as there is enough demand generated from just within the LWMNCA. In other words, the compact built form and density planned for the LWMNCA generates a tighter catchment area for the proposed school compared to a typical suburban school thus reinforcing the ability for walking and cycling.

As such, parent automobile drop off is not anticipated to be a necessity to support the function of the proposed school in terms of accommodating transportation needs for future students.

Lakeview Village represents an opportunity to proactively design for healthy, sustainable transportation behaviours and, in this instance, the proposed urban school concept will contribute to a culture of walking and biking for young people and their families. The proposed urban school design without an on-site parent automobile drop off is therefore appropriate and desirable.

This is supported in the York Region School Sites Design Guidelines (Page 28), which identifies that:

"The choice of type of facility to accommodate parent drop-offs and pick-ups depends largely on the site size. In a denser, more urban environment where buildings are set close to the street and a school site might be smaller than average, a layby along the school's street frontage could be preferable."

#### The Lakeview Team disagrees. This comment does not recognize the nature of the proposed

Schools within an urban bus loop (traditionally us for a bus loop to be sh	environment often de ed at suburban school ared with the parent
The York Region School	Sites Design Guidelir
"The dimensions of the expected vehicle volum school bus movements a <b>minimum curb length f</b>	drop-off and pick-up es and avoid spillove nd on the safety of chi or a layby or loop is

\* It should be noted that any non-standard cross sections will be subject to PUCC approval, Fire Operations approval, and review and approval of technical studies such as SWM, Traffic, Parking Strategy, etc...

\*\* Should the applicant require clarification or questions on the information provided above, it is suggested that a meeting with both the City and Region be scheduled to discuss

lo not have adequate space available on-site for a ls). Even if there is on-site space, it is not preferable drop-off and pick-up area, as the parked private operations.

nes (Page 29) also identifies that:

layby or loop must be sufficient to accommodate er onto the street and, consequently, impacts on ildren arriving by walking or cycling. **The suggested** 30 m for smaller elementary schools."





## APPENDIX D AUTOTURN ANALYSIS FOR ARTICULATED BUSES


















