









January 15, 2020

Mr. AJ Vance, P.Eng. Land Development Manager LJM Developments 28-1860 Appleby Line Burlington, ON L7L 0B7

Re: <u>Proposed Townhouse Development, 1110 Lorne Park Road, Mississauga, ON - Sight Line</u> Analysis (Revised)

Dear Mr. Vance,

TRANS-PLAN is pleased to submit this Sight Line Analysis Addendum. The study has been revised to address Metrolinx's comments on the 1<sup>st</sup> Submission, regarding the crash wall along Lorne Park Road. The proposed 7-unit townhouse development is located at 1110 Lorne Park Road in the City of Mississauga, Ontario. The site is located on the south side of Lorne Park Road, between the CN railway tracks and Albertson Crescent.

Our review addresses City of Mississauga submission requirements. Both the intersection and site driveways (for the residential units) were reviewed to demonstrate that sight lines would be acceptable / meet the required standards.

As requested by Metrolinx, a review of sightline at the intersection of Lorne Park Road and Albertson Crescent is conducted to assess the implication of a crush wall. The results indicated that the proposed 6m crash wall, as shown on the site plan, is acceptable. However, there would be no further opportunity to extend the crash wall easterly along Lorne Park Road due to driver sightlines at the intersection.

Sincerely,

Anil Seegobin, P.Eng.

Partner, Engineer

**Trans-Plan Transportation Inc.** Transportation Consultants



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**Traffic Analyst** 

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### **Transmittal Letter**

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### 1. INTRODUCTION

Trans-Plan has been retained by LJM Developments to complete a Sight Line Analysis Addendum in response to Metrolinx's comments on the 1<sup>st</sup> Submission (dated January 2, 2020). The proposed townhouse development is located at 1110 Lorne Park Road in the City of Mississauga.

Our sight Line Analysis Addendum includes the following study components:

- a review of the development proposal
- a review and assessment of the existing road network, including a field visit
- a review of sight access spacing requirements and a driver sight distance analysis
- a review of the crash wall with respect to sight-lines

### 2. RESPONSES TO CITY COMMENTS ON 2ND SUBMISSION

A Sight Line Analysis was conducted by Trans-Plan in October 25, 2019. This Sight Line Analysis Addendum has been conducted based on the 1st Submission Comments from the Metrolinx, dated January 2, 2020.

<u>Comment 1:</u> Section 5.3 of the subject Sight Line Analysis notes that "there might be negative impact on the visibility for vehicles travelling north on Albertson Crescent, looking west on Lorne Avenue" due to the presence of a crash wall – with degree of impact based on "the height, thickness and location" of the crash wall. As this analysis is not complete, it cannot be concluded that installation of a crash wall is not possible. Based on a cursory analysis of prevailing circumstances it would appear there are limited if any concerns in this regard. The analysis should be updated to fully assess the implications of a crash wall along the edge of Unit 1 assuming design parameters akin to the wall that has already been designed for this site.

An assessment of sightline at the intersection of Lorne Park Road and Albertson Crescent has been conducted. The results and conclusions have been provided in Table 3, Figure 3-4 and Section 6.4. Based on TAC guidelines, our review of the departure triangle at Lorne Park Road and Albertson Crescent (west leg), looking west, a crash wall shorter than 6.1m along Lorne Park Road is recommended.

<u>Comment 2:</u> Please clarify if a wooden acoustic (or other) fence is contemplated along Lorne Park Road and, if yes, have impacts to sightlines associated with same been assessed?

Another fence type is not contemplated at this time. A wooden acoustic (or other) fence would most likely has the same impact in terms of sightlines. Recommendations are provided in Section 6.4.

### 3. SITE LOCATION

The site location, shown in Figure 1, is located within a residential neighbourhood, Lorne Park, in the City of Mississauga. The site is located on the south side of Lorne Park Road, between the CN railway tracks and Albertson Crescent. The lot is currently unoccupied consisting of undeveloped ground and trees.

Located in the vicinity of the site are mainly residential uses mixed with retailers. A commercial plaza with a variety of restaurants and retailers is located on the north side of Lorne Park Road, just north of the site. A CN railway line (that runs north-south) is located just west the site. A one-story building containing M Salon and Spa is located just east of the site. Lakeshore Road is located approximately 500m east of the site.



### 4. PROPOSED DEVELOPMENT

A site plan of the proposed residential development is provided in Figure 2. The proposed development consists of 7 townhouse units with a total of 7 parking spaces (one driveway parking space each). Individual driveways for units 1 to 6 are proposed off Albertson Crescent and the driveway for unit 7 is proposed off Bramblewood Lane.

### 5. EXISTING CONDITIONS

### 5.1 Road Network

The roadways located in the study area under jurisdiction of the City of Pickering are described as follows:

**Lorne Park Road** is classified as a minor collector in the vicinity of our site, and runs in an east-west direction. It has two travel lanes; one in each direction. There is a posted speed limit of 50 km/h in the vicinity of the development.

**Albertson Crescent** is classified as a local road and runs in a north-south direction. It has two travel lanes; one in each direction. The assumed speed limit is 40 km/h.

**Bramblewood Lane** is classified as a local road and generally runs in an east-west direction. It has two travel lanes: one in each direction and terminates in a cul-de-sac. The assumed speed limit is 40 km/h.

Albertson Crescent forms two unsignalized intersections with Lorne Park Road and Bramblewood Lane, respectively.

### 5.2 Transit Service

The area near the site is served by MiWay, which operates Route 23 within the study area. Route 23, Lakeshore, runs mainly in an east-west direction from Monday to Sunday, between Clarkson Go station and Long Branch Go Station. Route 23 provides stop at Port Credit Go Station, too. The nearest bus stops are located on Lakeshore Road West and Lorne Park Road, approximately 450m east of the proposed site.

### 6. SITE PLAN REVIEW

### 6.1 Driveway Spacing

Transportation Association of Canada's (TAC) Geometric Design Guidelines for Canadian Roads defines the minimum spacing for low volume driveways to be a minimum of 1m apart. Table 1 summarized the spacing requirement and proposed spacing. The source information is provided in Appendix A.

Table 1 – Driveway Spacing

Driveway	Standard Spacing (m)	Proposed Spacing (m)
Proposed driveways off Albertson Crescent	Minimum 1.0m between adjacent driveways	1.0m - 4.1m
The intersection of Lorne Park Road and Albertson Crescent	Minimum 2.0m from street	4.7 m
The intersection of Albertson Crescent and Bramblewood Lane	corner	3.5m - 10.4m

Sources: TAC Figure 8.9.2



The spacing between proposed accesses are 1.0m and 4.7m, and spacing with street corners are from 3.5m to 4.7m, so the TAC guidelines have been met.

### 6.2 Driveway Width

Based on the TAC, design standards for commercial land uses detail maximum driveway widths for a one-way entrance / exit to be 3.0m to 4.3m. For this site, the proposed driveway width is 3.0 m, which generally meets the requirement. Appendix A contains an excerpt from the standard.

### 6.3 Sight Distance Review

A driver sight distance review was conducted to measure the available site distance for (i) the intersection of Lorne Park Road and Albertson Crescent, (ii) the intersection of Albertson Crescent and Bramblewood Lane and (iii) proposed driveways. A field visit and driver sight distance measurements were conducted by Trans-Plan staff. Survey methodology is summarized as follows:

- The sight distance measurements were conducted on Tuesday, October 22, 2019 with clear weather conditions
- The following locations were measured:
  - Looking west and east along Lorne Park Road at Albertson Crescent (west leg)
  - Looking south and north along Albertson Crescent at Bramblewood Lane
  - Looking south and north along Albertson Crescent from proposed Driveway Locations (Future driveways of unit 3-4 and unit 5-6)
  - Looking west and east along Bramblewood Lane from the proposed Driveway Location (Future driveway of unit 7)
- Two surveyors were present at the site and measured the sight distance using a measuring wheel
- Noted physical obstructions (natural features) and limiting factors, such as horizontal and vertical bends along the roadway

Minimum sight distance requirements were obtained from the Table 9.9.4 & Table 9.9.6, Transportation Association of Canada (TAC) Manual, based on an assumed design speed of 70 km/h for Lorne Park Road (obtained from a posted speed limit of 50km/h) and a design speed of 50 km/h for Albertson Crescent and Bramblewood Lane (based on posted speed limit of 40km/h). Details of the review are summarized in Table 2. Photographs taken from the proposed driveway location are provided in Appendix B.



Table 2 – Sight Distance Review Summary

Location	Direction	Available Sight Distance (m)	Criteria	Required Sight Distance (m)	Requirement Met? (Y / N)
			SSD	105	
Looking along	West	~170	Calculated	125.1	Yes
Looking along Lorne Park Road			Design	130	
(from Albertson			SSD	85	
Crescent)	East	~410	Calculated	108.4	Yes
			Design	110	
			SSD	65	No
Looking along Albertson	North	~70	Calculated	104.3	(due to end of the
Crescent			Design	105	road)
(from	South	~130	SSD	65	Yes
Bramblewood Lane)			Calculated	90.4	
			Design	95	
	North	~20 (unit3&4) ~40 (unit 5&6)	SSD	65	No (due to end of the road)  No (however, presence of horizontal bend with lower vehicle travel speeds)
Looking along			Calculated	104.3	
Albertson			Design	105	
Crescent	South	~70 (unit3&4) ~60 (unit 5&6)	SSD	65	
(from accesses of unit 3-6)			Calculated	90.4	
,			Design	95	
			SSD	65	No
Looking along Bramblewood	East ~	~25	Calculated	104.3	(due to end of the
			Design	105	road)
Lane (from the			SSD	65	No
access of unit 7)	West	~80	Calculated	90.4	(however, presence o horizontal bend with
	West 50		Design	95	lower vehicle travel speeds)

Source: TAC Table 9.9.4 & Table 9.9.6

The available sight distance looking west and east along Lorne Park Road is approximately 170m and 410m, respectively, with no obstructions blocking the view until near the adjacent intersections, which



meet the minimum sight distance required for a turning movement from a full stop at the access point, according to the TAC guidelines.

The available sight distance looking south along Albertson Crescent is approximately 130m, with no obstructions blocking the view until near the adjacent intersections, which meet the minimum sight distance requirements. The site distance of approximately 70m looking north along Albertson Crescent due to the geometry limit.

The available sight distance from the proposed driveways looking right are 70m, 60m and 25m for the accesses of unit 3-4, unit 5-6 and unit 7, respectively. There're no obstructions blocking the view until the end of the roads.

The available sight distance from the proposed driveways looking left are 40m, 60m and 80m for unit 3-4, unit 5-6 and unit 7, respectively. All of the sight distances encounter a reduction in visibility from the intersection to the bend, but is expected to operate acceptably as vehicles would travel around bends at low speeds of around ~20km/h. The area is also expected to generate low traffic volumes which is favourable for the available site distance to the west.

### 6.4 Departure Sight Triangle Review

A clear sight triangle review was conducted to assess the sight distance for a stopped driver on Albertson Crescent to depart from the intersection and turn right into Lorne Park Road.

Figure 9.9.2 from TAC is referred in our review. Distance  $a_1$  is measured by Trans-Plan during field visit, and distance b is design sight distance for the vehicle turning right from Albertson Crescent. A departure sight triangle of passenger vehicle is shown in Figure 3. A design sight distance of 130m was used to for passenger vehicle. The clear sight triangle is hatched in red, and no obstructions higher than driver's eye height (approximately 1m) should be located within the area.

According to TAC standards, the passenger car is appropriate as a design vehicle at an intersection of two local residential roads, but it is good practice to check the ability of intersection to accommodate the occasional truck. Therefore, to be conservative, a departure sight triangle for single-unit truck is provided in Figure 4. Design sight distance of 170m was used for sing-unit truck (due to the required time for trucks to make a left or right turn from the minor approach). Source information is provided in Appendix A.

Table 3 summarized the statistics of departure sight triangles. Source information is provided in Appendix A.

Table 3 – Statistics of Departure Sight Triangles

Design Vehicle	Distance a <sub>1</sub> (m)	Distance b (m) (Design Sight Distance)	Maximum length of crash wall along Lorne Park Road (m)
Passenger Car	10	130	13.3
Single-unit truck	10	170	6.1

A crash wall is requested by Metrolinx to be extended along the north edge of Unit 1 of the development. In order to provide sufficient departure sightline, crash wall is not recommended to be located inside the departure sight triangle.



The results indicate that the crash wall should not be extended more than 13.3m along Lorne Park Road when passenger vehicle is considered as design vehicle. However, when a single-unit truck is considered as the design vehicle, the crash wall could be 6.1m or less in length. To be conservative, we recommend a crash wall length of 6.1m to provide clear departure sight length for a single-unit truck.

As shown in Figure 2, the proposed 6m crash wall does not encroach within the sight triangle, and driver sightline visibility is maintained. Driver visibility would be impacted if the crash wall were extended any further east on Lorne Park Road other than as shown on the site plan.

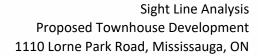
A wooden acoustic (or other) fence, located within the departure sight triangle along Lorne Park Road, would most likely has the same impact in terms of sightline, unless the decorative fence was fairly low in height (0.5m or less).

### 7. CONCLUSIONS AND RECOMMENDATIONS

This Sight Line Analysis for the proposed townhouse development located at 1110 Lorne Park Road in the City of Mississauga is summarized as follows:

- The proposed townhouse development consists of 7 dwelling units with individual driveways. A total of 7 resident parking spaces is proposed. Individual driveways for units 1 to 6 are proposed off Albertson Crescent and the driveway for unit 7 is proposed off Bramblewood Lane.
- The review of driveway spacing and width indicates the future driveways design meets the TAC Design Criteria.
- A field visit and driver sight distance measurements were conducted by Trans-Plan staff on Tuesday, October 22, 2019 during daytime hours. The sight distance was measured from the two existing intersections and proposed locations of future driveways
- The sight distance review indicates that there are adequate driver sightlines for vehicles to safely enter and exit the site through the roadways in the study area (Lorne Park Road, Albertson Crescent and Bramblewood Lane), with a proper view of oncoming traffic.
- Based on TAC guidelines, our review of the departure triangle at Lorne Park Road and Albertson Crescent (west leg), looking west, a crash wall of approximately 6.1m or less in length along Lorne Park Road is recommended.
- The proposed crash wall is not expected to have any negative impact on visibility. However, driver
  visibility would be impacted if the crash wall were extended any further east on Lorne Park Road
  other than as shown on the site plan.
- Additionally, land features (fencing or vegetation) within the above-mentioned departure sight triangle should be kept fairly low (0.5m or less) to maintain driver sight distance at the intersection.

In summary, the proposed crash wall of 6m in length along Lorne Park Road, as shown on the site plan, is acceptable for meeting driver sightline requirements at the adjacent intersection of Albertson Crescent (west leg). The proposed development is acceptable from a traffic perspective and should be approved.





Respectfully submitted,

Anil Seegobin, P.Eng. Partner, Engineer

Trans-Plan Transportation Inc.

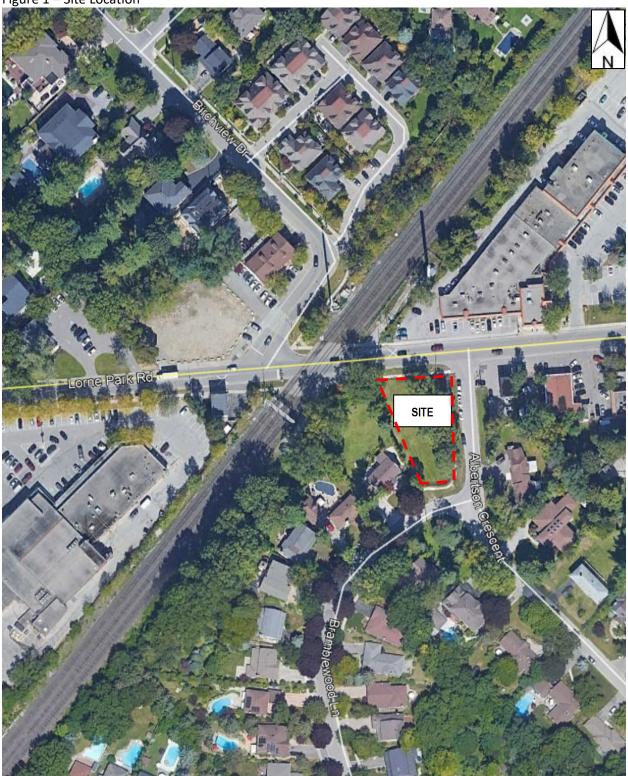
**Transportation Consultants** 

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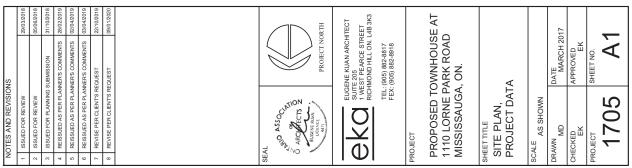
Jing Min, E.I.T. Traffic Analyst







Source: Google Maps



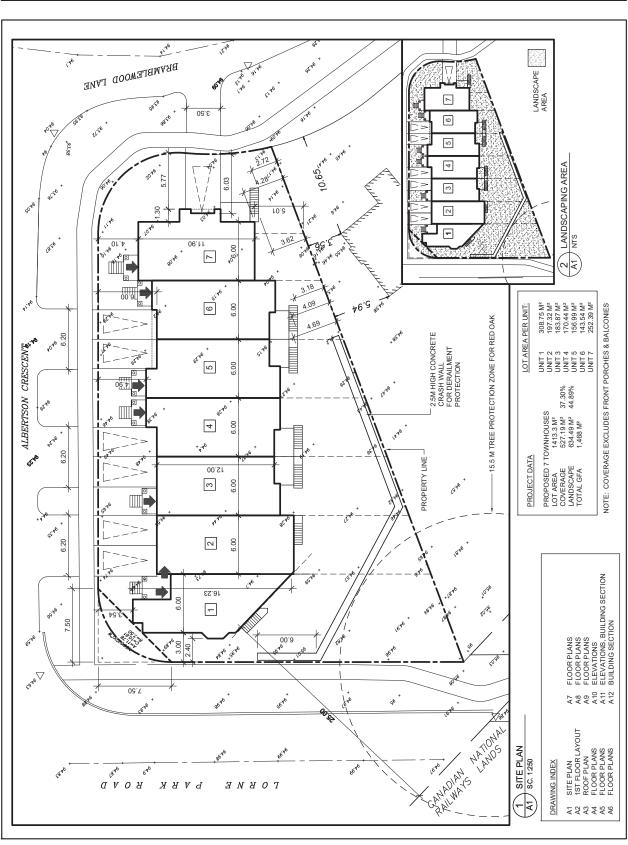
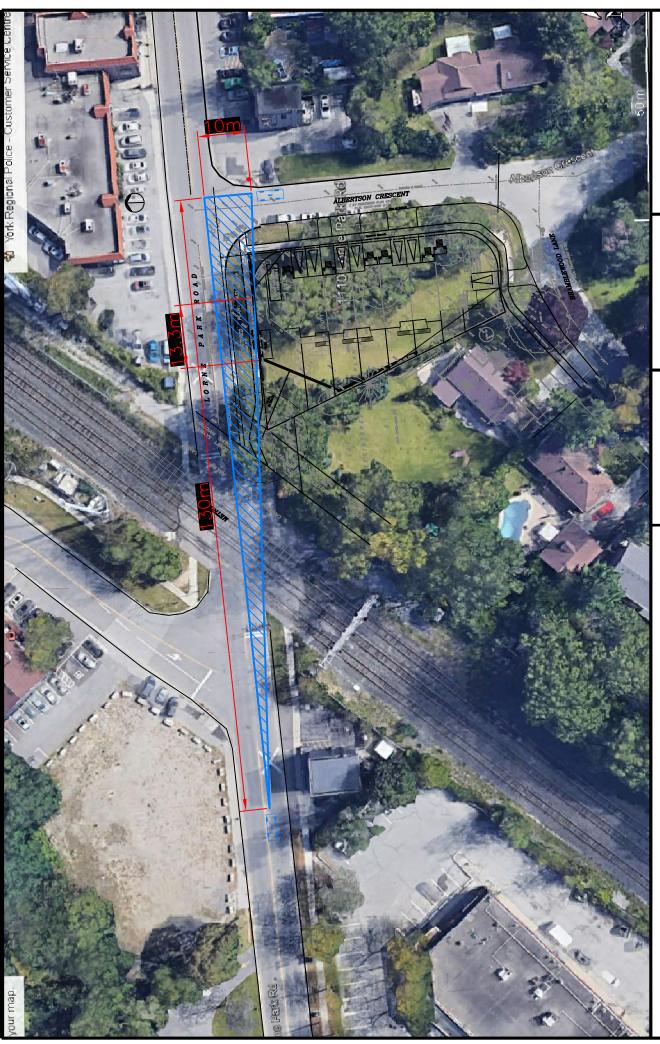


Figure 2: Site Plan



# Figure 3 - Departure Sight Triangle, Passenger Car

PROPOSED TOWNHOUSE DEVELOPMENT

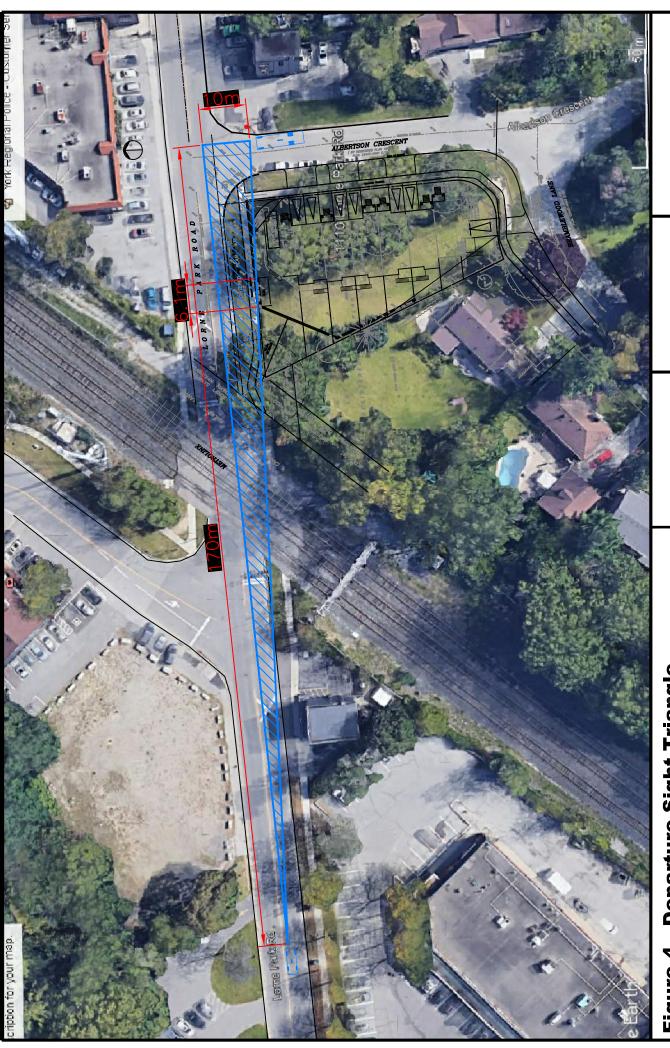
1110 LORNE PARK ROAD MISSISSAUGA, ONTARIO





SCALE: 1:800 UNITS: m

Source: Site Plan by JSW+ Associates, dated January 7, 2020 & Google Maps



## Figure 4 - Departure Sight Triangle, Single-unit Truck

PROPOSED TOWNHOUSE DEVELOPMENT

1110 LORNE PARK ROAD MISSISSAUGA, ONTARIO





SCALE: 1:800 UNITS: m

Source: Source: Site Plan by JSW+ Associates, dated January 7, 2020 & Google Maps



## APPENDIX A

TAC Guidelines, Excerpt



collector roadways, while a 3.0 m minimum is the suggested dimension for both commercial and industrial land uses. If there is a need to provide parallel parking between driveways along the roadway, a spacing of 6.0 to 7.5 m is suitable. If the spacing provided is in the range of 3.0 to 5.0 m, the space may appear inviting to a driver wishing to park, but if used, severely hampers the operation of the driveways by reducing sight lines and interfering with the turning paths of the vehicles.

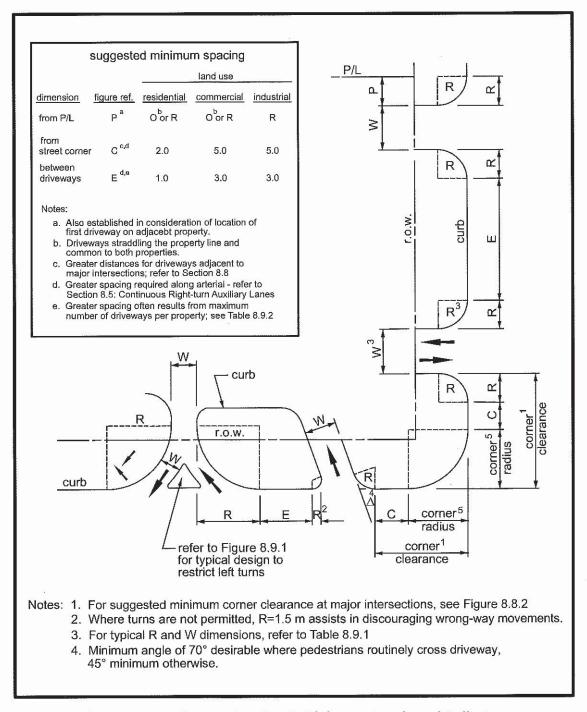


Figure 8.9.2: Driveway Spacing Guidelines – Locals and Collectors

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contrasting construction materials across the driveway assists in defining a pedestrian crossing zone to the driver.

The radius of the curb return style or the flare required to accommodate an equivalent turning radius is meaningful only when considered in combination with the width of the driveway throat.

### 8.9.5 WIDTH

The width of a two-way driveway is measured parallel to the road since turns are generally oriented at right angles. The dimension is typically measured beyond any entrance flare. The width of one-way driveways, which are normally skewed, is measured perpendicular to the driveway.

It is desirable to state suitable driveway widths as a design domain. Dimensions at the lower end of the domain are intended to define the minimum spatial and operational requirements. The maximum dimensions assist in preventing driveways from becoming unwieldy with large paved areas and poorly defined travel paths. The most appropriate width of a driveway is determined in combination with the radius of the curb return (or the design vehicle turning radius and flare dimensions, if a straight flared design is adopted), the desired operating characteristics such as turning speed, and physical limitations which may exist at the site.

**Table 8.9.1** provides a typical design domain for driveway throat widths and radii for both two-way and one-way operation. In locations where special vehicles such as long combination vehicles or similar vehicles are present, wider driveway throat dimensions or larger radii may be required.

Land Use Dimension (m) Residential Commercial Industrial Width (W)  $3.0^{a} - 4.3$  $4.5^{a} - 7.5$ 5.0 - 9.0- One way  $7.2^{a} - 12.0^{b}$  $9.0^{a} - 15.0^{b}$  $2.0^{a} - 7.3$ - Two way 3.0 - 4.54.5 - 12.0Right turn radius (R)

Table 8.9.1: Typical Driveway Dimensions

Notes:

- Minimum widths are normally used with radii at or near the upper end of the specified range
- Increased widths may be considered for capacity purposes; where up to 3 exit lanes and 2 entry lanes are employed, 17.0 m is the maximum width exclusive of any median
- c. Applicable to driveways only, not road intersections

### 8.9.6 ANGLE OF DRIVEWAY

Two-way driveways normally intersect the roadway curb at or near 90°. However, a minimum acute angle of 70°, as measured from the roadway curb line, normally operates in an acceptable manner.

For one-way driveways, where a skewed intersection assists in efficient traffic operation, skews in the range of 45° to 60° are appropriate in industrial areas where pedestrians are infrequent. For commercial and residential land uses, where pedestrian volumes are normally moderate to high, minimum skew angles in the range of 60° to 70° are preferred to improve the driver's visibility of the pedestrian, and vice versa, and to encourage lower turning speeds.



Table 9.9.4: Design Intersection Sight Distance - Case B1, Left Turn From Stop

Design Speed	Stopping Sight	Intersection Sight Distance for Passenger Cars		
(km/h)	Distance (m)	Calculated (m)	Design (m)	
20	20	41.7	45	
30	35	62.6	65	
40	50	83.4	85	
50	65	104.3	105	
60	85	125.1	130	
70	105	146.0	150	
80	130	166.8	170	
90	160	187.7	190	
100	185	208.5	210	
110	220	229.4	230	
120	250	250.2	255	
130	285	271.1	275	

Note: Intersection sight distance shown is for a stopped passenger car to turn left onto a two-lane highway with no median and grades 3% or less. For other conditions, the time gap should be adjusted and the sight distance recalculated.

Sight distance design for left turns at divided-highway intersections should consider multiple design vehicles and median width. If the design vehicle used to determine sight distance for a divided-highway intersection is larger than a passenger car, then sight distance for left turns will need to be checked for that selected design vehicle and for smaller design vehicles as well. If the divided-highway median is wide enough to store the design vehicle with a clearance to the through lanes of approximately 1 m at both ends of the vehicle, no separate analysis for the departure sight triangle for left turns is needed on the minor-road approach for the near roadway to the left. In most cases, the departure sight triangle for right turns (case B2) will provide sufficient sight distance for a passenger car to cross the near roadway to reach the median. Possible exceptions are addressed in the discussion of case B3.

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Table 9.9.6: Design Intersection Sight Distance – Case B2, Right Turn from Stop, and Case B3, Crossing Maneuver

Design Speed	Stopping Sight	Intersection Sight Distance for Passenger Cars		
(km/h)	Distance (m)	Calculated (m)	Design (m)	
20	20	36.1	40	
30	35	54.2	55	
40	50	72.3	75	
50	65	90.4	95	
60	85	108.4	110	
70	105	126.5	130	
80	130	144.6	145	
90	160	162.6	165	
100	185	180.7	185	
110	220	198.8	200	
120	250	216.8	220	
130	285	234.9	235	

Note: Intersection sight distance shown is for a stopped passenger car to turn right onto or to cross a two-lane highway with no median and with grades of 3% or less. For other conditions, the time gap should be adjusted and the sight distance recalculated.

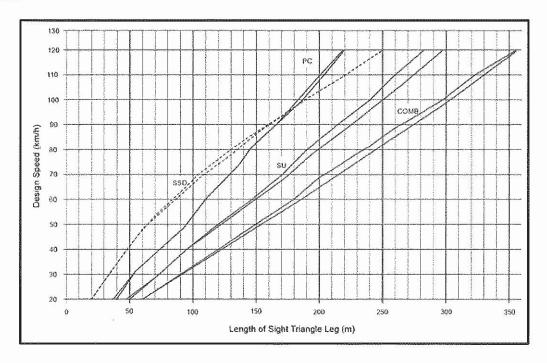


Figure 9.9.5: Intersection Sight Distance – Case B2, Right Turn from Stop, and Case B3, Crossing Maneuver (Calculated and Design Values Plotted)

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### 9.9.2.2 Departure Sight Triangles

A second type of clear sight triangle provides sight distance sufficient for a stopped driver on a minor-road approach to depart from the intersection and enter or cross the major road. **Figure 9.9.2** shows typical departure sight triangles to the left and to the right of the location of a stopped vehicle on the minor road.

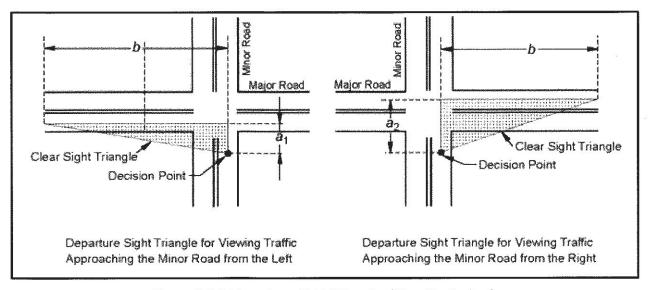


Figure 9.9.2: Departure Sight Triangles (Stop-Controlled)

Departure sight triangles should be provided in each quadrant of each intersection approach controlled by stop or yield signs. Departure sight triangles should also be provided for some signalized intersection approaches. Distance  $a_2$  in **Figure 9.9.2** is equal to distance  $a_1$  plus the width of the lane(s) departing from the intersection on the major road to the right. Distance  $a_2$  should also include the width of any median present on the major road, unless the median is wide enough to permit a vehicle to stop before entering or crossing the roadway beyond the median. The appropriate measurement of distances  $a_1$  and  $a_2$  for departure sight triangles depends on the placement of any marked stop line that may be present and may therefore vary with site-specific conditions.

The recommended dimensions of the clear sight triangle for desirable traffic operations where stopped vehicles enter or cross a major road are based on assumptions derived from field observations of driver gap-acceptance behaviour. <sup>66</sup> Providing clear sight triangles like those shown in **Figure 9.9.2** also allows the drivers of vehicles on the major road to see any vehicles stopped on the minor-road approach and to be prepared to slow or stop, if needed.

### 9.9.2.3 Intersection Control

The recommended dimensions of the sight triangles vary with the type of traffic control used at an intersection because different types of control impose different legal constraints on drivers and, therefore, result in different driver behaviour. Procedures to determine sight distances at intersections are presented below, according to different types of traffic control, as follows:

- Case A Intersections with no control
- Case B Intersections with stop control on the minor road

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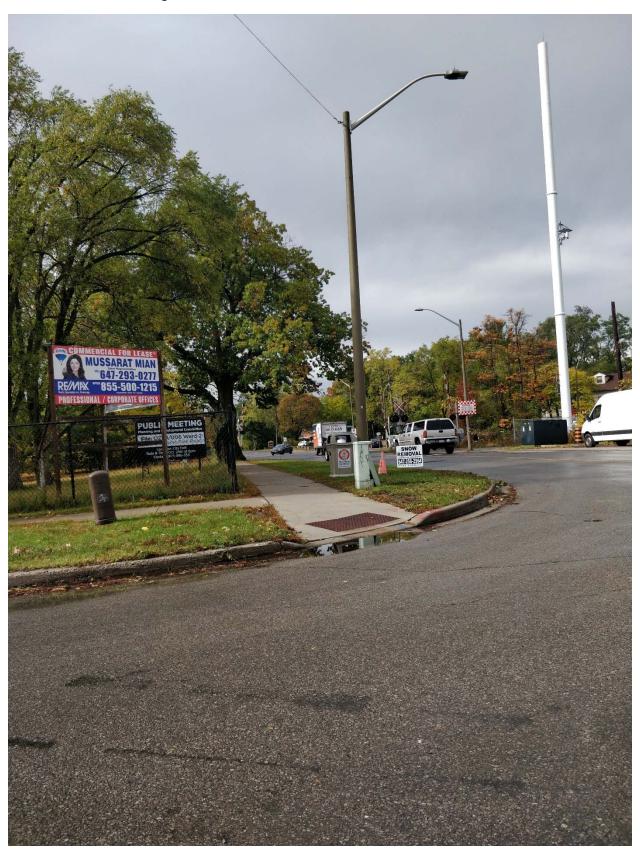


Site Photos

Albertson Crescent looking east on Lorne Park Road



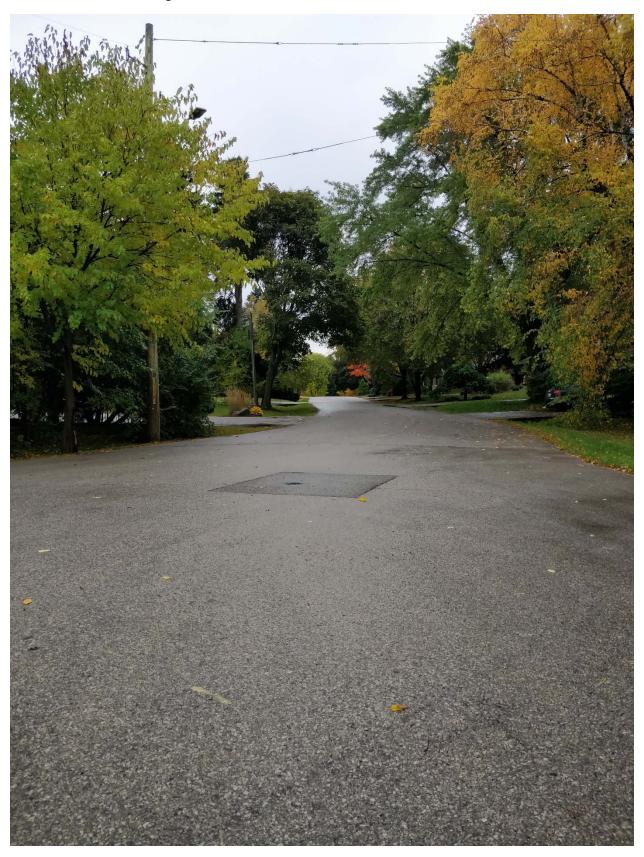
Albertson Crescent looking west on Lorne Park Road



Bramblewood Lane looking north on Albertson Crescent



Bramblewood Lane looking south on Albertson Crescent



Future driveways (unit 3-6) looking north on Albertson Crescent



Future driveways (unit 3-6) looking south on Albertson Crescent



Future driveway (unit 7) location looking east on Bramblewood Lane



Future driveway (unit 7) looking west on Bramblewood Lane

