# **Agenda**



# **General Committee**

Date

2015/12/02

Time

9:00 AM

Location

Civic Centre, Council Chamber,

300 City Centre Drive, Mississauga, Ontario, L5B 3C1 Ontario

**Members** 

Bonnie Crombie Mayor

Jim Tovey Councillor - Ward 1

Karen Ras Councillor - Ward 2

Chris Fonseca Councillor - Ward 3

John Kovac Councillor - Ward 4

Carolyn Parrish Councillor - Ward 5

Ron Starr Councillor - Ward 6

Nando Iannicca Councillor - Ward 7

Matt Mahoney Councillor - Ward 8

Pat Saito Councillor - Ward 9 (CHAIR)

Sue McFadden Councillor - Ward 10

George Carlson Councillor - Ward 11

Contact

Sacha Smith, Legislative Coordinator, Legislative Services

905-615-3200 ext. 4516

sacha.smith@mississauga.ca

#### Find it online

http://www.mississauga.ca/portal/cityhall/councilcommittees



#### INDEX - GENERAL COMMITTEE - NOVEMBER 18, 2015

- 1. <u>CALL TO ORDER</u>
- 2. APPROVAL OF AGENDA
- DECLARATION OF CONFLICT OF INTEREST
- 4. PRESENTATIONS
- 4.1. Councillors Saito and Mahoney to present the AODA 10th Anniversary Champion Award to the following recipients:

Clement Lowe Rabia Khedr Diana Simpson Aliya Yusuf

- 5. <u>DEPUTATIONS</u>
- 5.1. Item 6.1 Bob Topping, Consultant with respect to the Accessibility Design Standards.
- 5.2. Diana Simpson, Accessibility Coordinator and Ashley Travassos, Communications Advisor with respect to the Accessibility Promotional Video.
- 6. <u>MATTERS TO BE CONSIDERED</u>
- 6.1. City of Mississauga 2015 Facility Accessibility Design Standards

NOTE: To support corporate waste reduction efforts, Appendix 1 to the report is available in the online General Committee Agenda at  $\frac{\text{http://www.mississauga.ca/portal/cityhall/generalcommittee}}{\text{http://www.mississauga.ca/portal/cityhall/generalcommittee}}.$ 

- 6.2. Expansion of the Provincial Greenbelt Plan Area
- 6.3. Request for an Exemption to the Animal Care and Control By-law 0098-04, as amended, for the Keeping of Budgies, Chickens, Dogs, Ducks, Peacocks, Pheasants, Pigeons, Rabbits and Roosters at 2681 Mississauga Road (Ward 8)
- 6.4. All-Way Stop Mineola Road East and Crossfield Bend (Ward 1)

# INDEX - GENERAL COMMITTEE - NOVEMBER 18, 2015 CONTINUED

6.5.	All- Way Stop - John Watt Boulevard and Baskerville Run (Ward 11)
6.6.	Parking For Restricted Period Semenyk Court (Ward 6)
6.7.	Lower Driveway Boulevard Parking-Black Walnut Trail (Ward 10)
6.8.	School Bus Loading Zone - Ellengale Drive (Ward 6)
6.9.	Assumption of Municipal Works (Wards 1 and 4)
6.10.	MiWay Seniors One Dollar Cash Fare Off-Peak Pilot Program
6.11.	Street Lighting Operations and Maintenance Service Agreement between the Region of Peel and the City of Mississauga
6.12.	Single Source Contract Award to Enersource Power Services Inc. and Enersource Corporation for the Provision of Street Lighting Services (Procurement FA.49.627-15)
6.13.	Proposed closure of part of public road and Surplus Land Declaration - City-Owned lands on Beechwood Avenue between 916 and 928 Beechwood Avenue (Ward 1)
6.14.	City Standards for IT Systems and Acquisition of Support and Maintenance Services for Standard Systems (File Ref: FA.49.647-15)
6.15.	2015 Third Quarter Financial Update
7.	ADVISORY COMMITTEE REPORTS
7.1.	Governance Committee Report 5-2015 November 16, 2015
7.2.	Public Vehicle Advisory Committee Report 6-2015 November 19, 2015
7.3.	Accessibility Advisory Committee Report 5-2015 November 23, 2015
7.4.	Museums of Mississauga Advisory Committee Report 4-2015 November 24, 2015
7.5.	Traffic Safety Council Report 8-2015 November 25, 2015
7.6	Diversity and Inclusion Advisory Committee Report

8.	COUNCILLORS' ENQUIRIE	
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- 9. <u>OTHER BUSINESS/ANNOUNCEMENTS</u>
- 10. <u>CLOSED SESSION</u>
- 10.1. (Pursuant to Subsection 239 (2) of the Municipal Act, 2001)

  The security of the property of the municipality or local board City of Mississauga Lease for Square One Older Adult Centre
- 10.2. (Pursuant to Subsection 239 (2) of the Municipal Act, 2001)
  The security of the property of the municipality or local board Partnership with the Peel
  District School Board (PDSB) for a lit artificial turf sport field and all-season track at
  Clarkson Park (P-073, Ward 2)
- 10.3. (Pursuant to Subsection 239 (3.1) of the Municipal Act, 2001) Educational Session Climate Change
- 11. <u>ADJOURNMENT</u>

- 1. <u>CALL TO ORDER</u>
- 2. APPROVAL OF AGENDA
- 3. <u>DECLARATION OF CONFLICT OF INTEREST</u>
- 4. <u>PRESENTATIONS</u>
- 4.1. AODA 10th Anniversary Champion Award

Councillors Saito and Mahoney to present the AODA 10<sup>th</sup> Anniversary Champion Award to the following recipients:

Clement Lowe Rabia Khedr Diana Simpson Aliya Yusuf

- 5. <u>DEPUTATIONS</u>
- 5.1. Item 6.1 Bob Topping, Consultant with respect to the Accessibility Design Standards.
- 5.2. Diana Simpson, Accessibility Coordinator and Ashley Travassos, Communications Advisor with respect to the Accessibility Promotional Video.
- 6. MATTERS TO BE CONSIDERED
- 6.1. City of Mississauga 2015 Facility Accessibility Design Standards

Corporate report dated November 17, 2015 from the Commissioner of Corporate Services and Chief Financial Officer with respect to the City of Mississauga – 2015 Facility Accessibility Design Standards.

NOTE: To support corporate waste reduction efforts, Appendix 1 to the report is available in the online General Committee Agenda at <a href="http://www.mississauga.ca/portal/citvhall/generalcommittee">http://www.mississauga.ca/portal/citvhall/generalcommittee</a>.

#### **RECOMMENDATION**

- That the report of the Commissioner of Corporate Services and Chief Financial
   Officer dated November 17, 2015 and entitled "City of Mississauga 2015 Facility
   Accessibility Design Standards" be received for information.
- 2. That the City of Mississauga 2015 Facility Accessibility Design Standards as attached in Appendix 1 be endorsed by General Committee as the City's resource on best practices for universal facility accessibility design.

#### 6.2. <u>Expansion of the Provincial Greenbelt Plan Area</u>

Corporate Report dated November 10, 2015 from the Commissioner of Community Services with respect to the expansion of the Provincial Greenbelt Plan Area.

#### RECOMMENDATION

- That Council endorse the expansion of the Provincial Greenbelt Plan Area, by requesting that the Province of Ontario designate City-owned and Credit Valley Conservation-owned parcels along the Credit River as Urban River Valley (URV), as outlined in the report titled "Expansion of the Provincial Greenbelt Plan Area" dated November 10, 2015 from the Commissioner of Community Services.
- 2. That Council request the Region of Peel to include the designation of two Region-owned parcels of land located to the Northwest of Britannia Rd. W. and Old Creditview Rd. as URV lands (Land Registry Pins 132030420, 132030438).
- 3. That Council request the Region of Peel to forward the request to the Province of Ontario for designation of all the parcels identified in this report as Urban River Valley (URV) lands as established in the 2008 guidelines for growing the Provincial Greenbelt.
- 4. That Council requests the Province of Ontario to consider designating provinciallyowned properties along the Credit River within Mississauga as URV lands, as outlined in this report.

6.3. Request for an Exemption to the Animal Care and Control By-law 0098-04, as amended, for the Keeping of Budgies, Chickens, Dogs, Ducks, Peacocks, Pheasants, Pigeons, Rabbits and Roosters at 2681 Mississauga Road (Ward 8)

Corporate report dated November 18, 2015 from the Commissioner of Transportation and Works with respect to the request for an exemption to the Animal Care and Control Bylaw 0098-04, as amended, for the keeping of budgies, chickens, dogs, ducks, peacocks, pheasants, pigeons, rabbits and roosters at 2681 Mississauga Road (Ward 8).

#### RECOMMENDATION

That the request for an Exemption to the Animal Care and Control By-law 0098-04, as amended, to permit the keeping of budgies, chickens, dogs, ducks, peacocks, pheasants, pigeons, rabbits and roosters at 2681 Mississauga Road, be denied, as outlined in the report from the Commissioner of Transportation and Works, dated November 18, 2015 and entitled "Request for an Exemption to the Animal Care and Control By-law 0098-04, as amended, for the Keeping of Budgies, Chickens, Dogs, Ducks, Peacocks, Pheasants, Pigeons, Rabbits and Roosters, 2681 Mississauga Road, Ward 8".

#### 6.4. All-Way Stop - Mineola Road East and Crossfield Bend (Ward 1)

Corporate report dated November 18, 2015 from the Commissioner of Transportation and Works with respect to an all-way stop at Mineola Road East and Crossfield Bend (Ward 1).

#### RECOMMENDATION

That an all-way stop control not be implemented at the intersection of Mineola Road East and Crossfield Bend as the warrants have not been met.

#### 6.5. All- Way Stop - John Watt Boulevard and Baskerville Run (Ward 11)

Corporate report dated November 18, 2015 from the Commissioner of Transportation and Works with respect to an all-way stop at John Watt Boulevard and Baskerville Run (Ward 11).

#### RECOMMENDATION

That an all-way stop control not be implemented at the intersection of John Watt Boulevard and Baskerville Run as the warrants have not been met.

#### 6.6. Parking For Restricted Period - Semenyk Court (Ward 6)

Corporate report dated November 18, 2015 from the Commissioner of Transportation and Works with respect to parking for restricted period on Semenyk Court (Ward 6).

#### RECOMMENDATION

That a by-law be enacted to amend The Traffic By-law 555-00, as amended, to implement a thirty (30) minute parking limit on the east side of Semenyk Court from a point 46 metres (151 feet) south of Central Parkway West to a point 13 metres (43 feet) southerly thereof.

#### 6.7. Lower Driveway Boulevard Parking-Black Walnut Trail (Ward 10)

Corporate report dated November 18, 2015 from the Commissioner of Transportation and Works with respect to lower driveway boulevard parking on Black Walnut Trail (Ward 10).

#### RECOMMENDATION

That a by-law be enacted to amend The Traffic By-law 555-00, as amended, to implement lower driveway boulevard parking between the curb and sidewalk, at any time on the north, east and west side (outer circle) of Black Walnut Trail.

#### 6.8. <u>School Bus Loading Zone - Ellengale Drive (Ward 6)</u>

Corporate report dated November 18, 2015 from the Commissioner of Transportation and Works with respect to the school bus loading zone on Ellengale Drive (Ward 6).

#### RECOMMENDATION

That a by-law be enacted to amend The Traffic By-law 555-00, as amended, to remove the existing school bus loading zone on Ellengale Drive located from a point 35 metres (115 feet) north of Chada Avenue (north intersection) to a point 75 metres (246 feet) southerly thereof.

#### 6.9. <u>Assumption of Municipal Works (Wards 1 and 4)</u>

Corporate report dated November 18, 2015 from the Commissioner of Transportation and Works with respect to the assumption of Municipal Works (Wards 1 and 4).

#### **RECOMMENDATION**

1. That the City of Mississauga assume the municipal works as constructed by the developer under the terms of the Servicing Agreement for CD.06.FER, Fernbrook Homes (Burnhamthorpe) Limited, (lands located south of Highway 403, east of Hurontario Street, north of Burnhamthorpe Road East and west of Central Parkway Drive), in Z-28 and that the Letter of Credit in the amount of \$97,087.02 be returned to the developer.

CD.06.FER (Ward 4)

2. That the City of Mississauga assume the municipal works as constructed by the developer under the terms of the Servicing Agreement for H-OZ 04/003, Fernbrook Homes (Burnhamthorpe) Limited, (lands located south of Highway 403, east of Hurontario Street, north of Burnhamthorpe Road East and west of Central Parkway Drive), in Z-28 and that the Letter of Credit in the amount of \$165,338.18 be returned to the developer.

H-OZ 04/003 (Ward 4)

That the City of Mississauga assume the municipal works as constructed by the developer under the terms of the Servicing Agreement for H-OZ 07/005, F.S. Port Credit Development Limited, (lands located south of the Queen Elizabeth Way, east of Hurontario Street, north of Lakeshore Road East and west of Cawthra Road), in Z-O7 and that the Letter of Credit in the amount of \$75,477.75 be returned to the developer.

H-OZ 07/005 (Ward 1)

#### 6.10. <u>MiWay Seniors One Dollar Cash Fare Off-Peak Pilot Program</u>

Corporate report dated November 19, 2015 from the Commissioner of Transportation and Works with respect to the MiWay Seniors One Dollar Cash Fare Off-Peak Pilot Program.

#### RECOMMENDATION

That the report entitled "MiWay Senior's One Dollar Cash Fare Off-Peak Pilot Program" to General Committee dated November 19, 2015 from the Commissioner of Transportation and Works be received for information.

6.11. <u>Street Lighting Operations and Maintenance Service Agreement between the Region of Peel and the City of Mississauga</u>

Corporate report dated November 16, 2015 from the Commissioner of Transportation and Works with respect to the Street Lighting Operations and Maintenance Service Agreement between the Region of Peel and the City of Mississauga.

#### **RECOMMENDATION**

- That a by-law be enacted to authorize the Commissioner of Transportation and Works and the City Clerk to execute and affix the corporate seal on behalf of the The Corporation of the City of Mississauga to the Street Lighting Operations and Maintenance Service Agreement, and any ancillary document or future amendments, with the Regional Municipality of Peel in a form satisfactory to the City Solicitor.
- 2. That a copy of the subject report be forwarded to the Region of Peel for information.
- 6.12. Single Source Contract Award to Enersource Power Services Inc. and Enersource

  Corporation for the Provision of Street Lighting Services (Procurement FA.49.627-15)

Corporate report dated November 9, 2015 from the Commissioner of Transportation and Works with respect to the Single Source Contract Award to Enersource Power Services Inc. and Enersource Corporation for the provision of Street Lighting Services (Procurement FA.49.627-15).

#### RECOMMENDATION

- 1. That Enersource Power Services Inc. (EPS) and Enersource Corporation (EC) be designated as single source vendor for the provision of street lighting services for an initial 5-year term from January 1, 2016 to December 31, 2020 with the option to renew for a further 5-year term from January 1, 2021 to December 31, 2025.
- 2. That the Purchasing Agent be authorized to execute an agreement with EPS and EC for the provision of street lighting services including:

- a) Operation and maintenance services in the estimated amount of \$8,500,000 (excluding tax) based on an initial 5-year term from January 1, 2016 to December 31, 2020 subject to annual budget approval by Council.
- b) Capital services in the estimated amount of \$4,895,000.00 (excluding tax) for various street lighting projects (including Design and Engineering Services, Capital Programs and Special Services) based on an initial 5-year term from January 1, 2016 to December 31, 2020 subject to annual budget approval by Council.
- 3. That the Purchasing Agent be authorized to negotiate and execute amendments to the agreement for operation services and capital services where necessary to accommodate growth, inflation and extraordinary adjustments for which funding is approved in the budget.
- 6.13. Proposed closure of part of public road and Surplus Land Declaration City-Owned lands on Beechwood Avenue between 916 and 928 Beechwood Avenue (Ward 1)

Corporate report dated November 9, 2015 from the Commissioner of Corporate Services and Chief Financial Officer with respect to the proposed closure of part of public road and Surplus Land Declaration – City-Owned Lands on Beechwood Avenue between 916 and 928 Beechwood Avenue (Ward 1).

#### **RECOMMENDATION**

- 1. That a by-law be enacted authorizing the closure of part of public road on Beechwood Avenue, south of Lakeshore Road East, west of Cawthra Road containing an area approximately 766 square metres (8,245 square feet), legally described as Unnamed Street, Plan C19, between Lots 11 and 12, on a Plan of Subdivision of Lot 11, Conc. 3, South of Dundas Street deposited at the Land Registry Office for the Land Titles Division of Peel (No. 43) as Plan C19, in the City of Mississauga, Regional Municipality of Peel, in Ward 1.
- 2. That the City lands described as Unnamed Street, Plan C19, between Lots 11 and 12, Plan C19, be declared surplus to the City's requirements.
- 3. That Realty Services staff be authorized to proceed to dispose of the subject lands to be declared surplus, at fair market value.
- 4. That all steps necessary to comply with the requirements of Section 2.(1) of City Notice By-law 215-08 be taken, including giving notice to the public by posting a

notice on the City of Mississauga's website for a two week period, whereby the expiry of the two week period will be at least one week prior to the execution of an agreement for the sale of the subject lands under Delegated Authority.

# 6.14. <u>City Standards for IT Systems and Acquisition of Support and Maintenance Services for Standard Systems (File Ref: FA.49.647-15)</u>

Corporate report dated November 10, 2015 from the Commissioner of Corporate Services and Chief Financial Officer with respect to City Standards for IT Systems and Acquisition of Support and Maintenance Services for Standard Systems (File Ref: FA.49.647-15).

#### RECOMMENDATION

- 1. That the updated City Standards for IT Systems as listed in Appendix 1 of the report dated November 10, 2015 from the Commissioner of Corporate Services and Chief Financial Officer entitled City Standards for IT Systems and Acquisition of Support and Maintenance Services for Standard Systems, be approved.
- 2. That the Purchasing Agent be authorized to negotiate and execute agreements to cover 2016 annual support and maintenance for City Standard IT Systems which have been approved as Standards as set out in Appendices 1 and 2 attached to this report, where the estimated cost may exceed \$100,000.

#### 6.15. <u>2015 Third Quarter Financial Updated</u>

Corporate report dated November 18, 2015 from the Commissioner of Corporate Services and Chief Financial Officer with respect to the 2015 Third Quarter Financial Update.

#### RECOMMENDATION

- That the "2015 Third Quarter Financial Update" report dated November 18, 2015, from the Commissioner of Corporate Services and Chief Financial Officer, including appendices 1 to 3, be approved.
- 2. That up to \$88,616 of the year-end surplus be approved for transfer to the Operating Budget Reserve (Account #305145).
- 3. That the necessary by-laws be enacted.

#### 7. ADVISORY COMMITTEE REPORTS

#### 7.1. Governance Committee Report 5-2015 November 16, 2015

#### RECOMMENDATIONS

#### GOV-0020-2015

- 1. That Rule 1 of the Council Code of Conduct (the "Code"), as set out in Appendix 1, be amended by removing subsections a., c. and h, placing them under the general heading of "Key Principles that Underlie the Code of Conduct" and re-lettering the remaining subsections of Rule 1, so that the Code to the end of Rule 1 reads as set out in Appendix 2.
- 2. That similar amendments be made to the Codes of Conduct for members of Local Boards.

(GOV-0020-2015)

#### GOV-0021-2015

- That an off-site strategic session takes place in the first quarter of 2016 for members of Council to consider what it might take to become recognized as a leader in municipal governance and commit to taking the steps necessary to achieve that goal.
- 2. That a retreat planning subcommittee of Governance Committee be established and that Councillor Saito, Councillor Ras, Councillor Tovey, Sandy Milakovic and John Magill be appointed to the subcommittee.

(GOV-0021-2015)

#### GOV-0022-2015

WHEREAS there is currently a prohibition against Councillors resigning their Council seat to take a seat at federal and provincial levels of governments only; and

WHEREAS City of Mississauga Councillors are currently entitled to receive severance pay even if of their own choosing they resign their Council seat prior to the conclusion of that term of Council;

BE IT THEREFORE RESOLVED that the City of Mississauga shall not pay severance to an elected or appointed office holder if that person is elected or appointed to another office at any level of government, including another municipality, or if choosing to return to paid employment for an organization or business before his/her term of office with the City is completed; AND

That the necessary by-laws be enacted. (GOV-0022-2015)

#### GOV-0023-2015

That the Corporate Report entitled "Elected Official Expense Policy information report" dated November 3, 2015 from the Commissioner of Corporate Services and Chief Financial Officer, be received and that the matter regarding the definition of teams be referred to staff for review and report back to Governance Committee.

(GOV-0023-2015)

#### GOV-0024-2015

- 1. That the Corporate Report dated August 25, 2015 from the Director, Legislative Services and City Clerk entitled 2014 Municipal Election, 2015 Municipal By-Election Review and technology options of future Municipal Elections be received.
- 2. That the Ministry of Municipal Affairs and Housing be requested to do the following:
  - a. Address concerns related to the accuracy of the Voters' List with the Municipal Property Assessment Corporation and that the Ministry insist on a lower acceptable margin of error with respect to the Voters' List.
  - b. Specify the parameters for the administration of internet voting in the *Municipal Elections Act, 1996*.
- 3. That staff be requested to prepare amendments to the City of Mississauga's Records Retention By-law 537/96 to align with section 88 of the *Municipal Elections Act, 1996*.

(GOV-0024-2015)

#### GOV-0025-2015

That the Report dated October 30, 2015, from the Director of Legislative Services and City Clerk providing an update on the financial and administrative impact of Ranked Choice Voting, be received for information.

(GOV-0025-2015)

#### GOV-0026-2015

That the memorandum dated November 6, 2015 from the Legislative Coordinator with respect to the 2016 Governance Committee Meeting Dates be received for information. (GOV-0026-2015)

#### 7.2. Public Vehicle Advisory Committee Report 6-2015 November 19, 2015

#### **RECOMMENDATIONS**

#### PVAC-0044-2015

- That the report from the Commissioner of Transportation and Works, dated October 14, 2015 and entitled "Consultant's Review of the Taxi Plate Issuance Model", be received;
- 2. That the Public Vehicle Advisory Committee consider Appendix 1 to the report from the Commissioner of Transportation and Works, dated October 14, 2015 and entitled "Consultant's Review of the Taxi Plate Issuance Model", when Council has approved a framework to address the regulation of transportation network companies.

(PVAC-0044-2015)

#### PVAC-0045-2015

That the memorandum dated October 23, 2015 from the Legislative Coordinator with respect to Recommendation PVAC-0042-2015, be received. (PVAC-0045-2015)

#### PVAC-0046-2015

That the memorandum dated October 16, 2015 from the Legislative Coordinator with respect to the 2016 Public Vehicle Advisory Committee meeting dates, be received. (PVAC-0046-2015)

#### PVAC-0047-2015

That the Public Vehicle Advisory Committee (PVAC) Action List, updated for the November 19, 2015 meeting of PVAC, be received. (PVAC-0047-2015)

#### PVAC-0048-2015

That the letter dated November 2015 from Mayor Crombie to the Premier of Ontario regarding New and Emerging Transportation Services, be received. (PVAC-0048-2015)

#### PVAC-0049-2015

That the email dated November 14, 2015 from Peter Pellier, Taxi Industry with respect to the Hara Associates report, be received and forwarded to staff for consideration. (PVAC-0049-2015)

#### PVAC-0050-2015

That the letter dated November 14, 2015 from Ron Baumber, Accessible Taxi Owner/Operator regarding the Hara Associates report recommendations, be received and forwarded to staff for consideration. (PVAC-0050-2015)

#### PVAC-0051-2015

That the email dated November 18, 2015 from Tahir Iqbal, Taxi Industry regarding new taxi plate issuance and unattended to issues, be received and forwarded to staff for consideration.

(PVAC-0051-2015)

#### PVAC-0052-2015

That the matter of the Public Vehicle Licensing By-law 420-04, as amended specifically pertaining to the licensing of taxi and limousine drivers and demerit points, be referred back to staff for a report at a future Public Vehicle Advisory Committee meeting. (PVAC-0052-2015)

# 7.3. Accessibility Advisory Committee Report 5-2015 November 23, 2015

#### **RECOMMENDATIONS**

#### AAC-0036-2015

That the deputation and associated memorandum dated November 23, 2015 from the Community and Neighbourhood Development Unit, Recreation Division with respect to the Inclusion Resource Team, be received for information. (AAC-0036-2015)

#### AAC-0037-2015

That the memorandum dated October 8, 2015 from Darlene Utarid, Business Analyst, Facilities and Property Management with respect to a Crohns and Colitis Canada 'GoHere' Initiative update, be received for information. (AAC-0037-2015)

#### AAC-0038-2015

That the memorandum dated October 23, 2015 from Karen Morden, Legislative Coordinator with respect to Recommendation AAC-0027-2015, pertaining to employment opportunities for persons with developmental and intellectual disabilities, be received for information.

(AAC-0038-2015)

#### AAC-0039-2015

That the letter dated October 23, 2015 from Frank Dale, Regional Chair and Chief Executiv Officer, Region of Peel with respect to telephone or video conference participation by appointed Members of Municipal Accessibility Advisory Committees, be received for information.

(AAC-0039-2015)

#### AAC-0040-2015

That the document regarding the Principles for the Canadians With Disabilities Act, as referenced by the Barrier-Free Canada website, be received for information. (AAC-0040-2015)

#### AAC-0041-2015

Memorandum dated October 16, 2015 from Karen Morden, Legislative Coordinator with respect to the 2016 Accessibility Advisory Committee meeting dates, be received for information.

(AAC-0041-2015)

#### AAC-0042-2015

That the invitation to the third annual Dec 3<sup>rd</sup> Tribute (formerly the Abilities Awards) to be held on December 3, 2015, be received for information. (AAC-0042-2015)

#### AAC-0043-2015

That the Pending Work Plan Items chart, updated for the November 23, 2015 Accessibility Advisory Committee meeting, be received. (AAC-0043-2015)

#### AAC-0044-2015

That the Corporate Policies and Procedures Subcommittee report dated October 19, 2015, be received for information.

(AAC-0044-2015)

#### AAC-0045-2015

That the Promotional Awareness Subcommittee report dated October 19, 2015, be received for information.

(AAC-0045-2015)

#### AAC-0046-2015

- That the PowerPoint presentation regarding Trail Development Within Sawmill Valley Trail, P-161 to the Facility Accessibility Design Subcommittee on October 26, 2015, be received;
- 2. That subject to the comments on the presentation, the Facility Accessibility Design Subcommittee is satisfied with the design of Trail Development Within Sawmill Valley Trail, P-161, as presented.

(AAC-0046-2015)

#### AAC-0047-2015

- 1. That the PowerPoint presentation regarding Off Road Trail (ORT) #11 to the Facility Accessibility Design Subcommittee on October 26, 2015, be received;
- 2. That subject to the comments on the presentation, the Facility Accessibility Design Subcommittee is satisfied with the design of Off Road trail (ORT) #11, as presented. (AAC-0047-2015)

#### AAC-0048-2015

- That the memorandum dated October 26, 2015 from Lawrence Franklin, Urban Designer, Development and Design Division, Planning and Building with respect to referral of Region of Peel projects to the Facility Accessibility Design Subcommittee, be received;
- 2. That the matter be referred to staff to investigate the appropriate processes in referring Regional projects to the Mississauga Facility Accessibility Design Subcommittee and report back and report back at a future meeting. (AAC-0048-2015)
- 7.4. Museums of Mississauga Advisory Committee Report 4-2015 November 24, 2015

#### **RECOMMENDATIONS**

#### MOMAC-0017-2015

That the Update from John Linton, TCI Consultants, with respect to the Museums and Heritage Planning Strategic Plan to the Museums of Mississauga Advisory Committee dated November 24, 2015 be received.

(MOMAC-17-2015)

#### MOMAC-0018-2015

That the Interim Recommendations for Staff from the Community Vision Task Group and the Engagement and Outreach Task Group, as part of the Museums of Mississauga Advisory Committee's Work Plan, be deferred to the next MOMAC meeting on January 19, 2016.

(MOMAC-18-2015)

#### MOMAC-0019-2015

That the Memorandum from Stuart Keeler, Manager, Museums and Chief Curator, dated November 6, 2015, entitled *Museums of Mississauga Deaccession Artifacts from the Collections*, be received for information.

(MOMAC-0019-2015)

#### MOMAC-0020-2015

That the Memorandum dated November 12, 2015 from Stuart Keeler, Manager, Museums and Chief Curator, Museums of Mississauga entitled *Museums Update from Manager, Museums & Chief Curator*, be received.

(MOMAC-0020-2015)

#### MOMAC-0021-2015

That the Museums of Mississauga Mission and Key Messages/Education Feedback from Stuart Keeler, Manager, Museums and Chief Curator be deferred to the next MOMAC meeting on January 19, 2016.

(MOMAC-0021-2015)

#### MOMAC-0022-2015

That the Memorandum from Mumtaz Alikhan, Legislative Coordinator, dated November 13, 2015, with respect to the 2016 Museums of Mississauga Advisory Committee Meeting Schedule amending the time to be 6:00 p.m., be received.

(MOMAC-0022-2015)

#### MOMAC-0023-2015

That the Diversity and Inclusion Training to be set for next year by Stuart Keeler, Manager, Museums & Chief Curator, to the Museums of Mississauga Advisory Committee dated November 24, 2015, be received.

(MOMAC-0023-2015)

## 7.5. Traffic Safety Council Report 8-2015 November 25, 2015

#### **RECOMMENDATIONS**

#### TSC-0150-2015

- 1. That the warrants for a crossing guard in front of Lancaster Public School has been met.
- 2. That Transportation and Works be requested to review the signage on Redstone Road and Netherwood Road in the vicinity of Lancaster Public School.
- 3. That the Peel District School Board be requested to review the operation of the Kiss & Ride and Dismissal Program at Lancaster Public School
- 4. That the Traffic Safety Council, approach the Principal of Lancaster Public School regarding the Walk to School Program.

(Ward 5)

(TSC-0150-2015)

#### TSC-0151-2015

That the request for a crossing guard at the intersection of Hush Lane and Second Line for Students attending Hush Lane and Second Line for the students attending Meadowvale Village Public School be denied as warrants are not met.

(Ward 11)

(TSC-0151-2015)

#### TSC-0152-2015

- 1. That the request for a crossing guard at the intersection of Paisley Boulevard and Pollard Drive, for students attending St. Jerome Catholic School be denied as the warrants are not met.
- 2. That Transportation and Works be requested to review signage on Paisley Boulevard in the vicinity of St. Jerome Catholic School.

(Ward 7)

(TSC-0152-2015)

#### TSC-0153-2015

That the report from the Manager of Parking Enforcement with respect to parking enforcement in school zones for the month of October 2015 be received for information. (TSC-0153-2015)

#### TSC-0154-2015

That the WildeWood Award for School Zone Safety Award be awarded to the following schools

which: have demonstrated that they have a team of staff and/ or volunteers that deserve to be

recognized for the efficient operation of the School Zone Safety (Kiss & Ride) Program and promote and/or encourage active transportation to and from school:

- Plum Tree Park Public School
- Shelter Bay Public School
- Canadian Martyrs Catholic School
- St. Gertrude Catholic School

(Wards 4, 5 and 9)

(TSC-0154-2015)

#### TSC-0155-2015

That the City of Mississauga Advisory Committees Role and Rules dated November 2015, be received for information.

(TSC-0155-2015)

#### TSC-0156-2015

- 1. That Transportation and Works be requested to:
  - a) review the feasibility of installing flashing 40 KM school zone signage in front of St. Marcellinus and Mississauga Secondary School, from 7:00 a.m. to 9:00 a.m. and from 2:00 p.m. to 4:00 p.m.
  - b) implement a "No Stopping" driveway prohibitions at Mississauga Secondary School.
- 2. That Parking Enforcement be requested to enforce the "No Stopping" prohibitions on Courtneypark Drive between Mavis Road and the entrance to St. Marcellinus Catholic School driveway.

- 3. That Peel Regional Police be requested to continue to enforce "No U-turn" violations on Courtneypark Drive at Spinnaker Circle.
- 4. That the Peel District School Board be requested to review the operation of the Kiss and Ride at Mississauga Secondary School.
- 5. That the Principal of Mississauga Secondary School be requested to:
  - a) advise students and parents to use the east entrance on McLaughlin Road
  - b) remind students to cross at the controlled intersection in the afternoon dismissal.
- 6. That STOPR be requested to:
  - a) advise school bus drivers not to block the sidewalk when entering and exiting school property at Mississauga Secondary School.
  - b) advise school bus drivers to load students only in the designated areas.
- 7. That the request for a crossing guard at the intersection of Envoy Drive and Othello Court (Tabbyman Walk) be denied as warrants are not met.

(Ward 11) (TSC-0156-2015)

#### TSC-0157-2015

- 1. That Parking Enforcement be requested to enforce "No Stopping" prohibitions opposite of Meadowvale Secondary School on Edenwood Drive.
- That the Principals of Meadowvale Secondary School and Edenwood Middle School be requested to consider changing their school entrance and dismissal times to be offset by 15 minutes,

(Ward 9) (TSC-0157-2015)

#### TSC-0158-2015

- 1. That the request for a crossing guard at the intersection of Forest Avenue and Cayuga Avenue, for the students attending Forest Avenue Public School and Mentor College, be denied as warrants are not met.
- 2. That Transportation and Works be requested to review signage on Forest Avenue in front of Forest Avenue Public School and Mentor College.
- 3. That Parking Enforcement be requested to enforce "No Stopping" prohibitions from 3:00 p.m. to 3:30 p.m. on Forest Avenue in front of Forest Avenue Public School and Mentor College once signage is in place.
- 4. That the request for a crossing guard at the intersection of Forest Avenue and Briarwood Avenue, (East and South Legs), for the students attending Mentor College,

be denied as the warrants are not met.

5. That the Principal of Mentor College be Advised of Section 176 of the *Highway Traffic Act* which stipulates, that no one other than a crossing guard display a stop sign and that crossing guards must be employees of a municipality.

(Ward 1)

(TSC-0158-2015)

#### TSC-0159-2015

That the Action Items List from the Transportation and Works Department for the month of October 2015 be received for information. (TSC-0159-2015)

7.6 Diversity and Inclusion Advisory Committee Report 1-2015 November 18, 2015

#### DIAC-0001-2015

That Councillor Sue McFadden be appointed Chair of the Diversity and Inclusion Committee for the term ending November 2018, or until a successor is appointed. (DIAC-0001-2015)

#### DIAC-0002-2015

That Councillor Ron Starr be appointed Vice-Chair of the Diversity and Inclusion Committee for the term ending November 2018, or until a successor is appointed (DIAC-0002-2015)

#### DIAC-0003-2015

That Pervez Akhter, Kris Noakes, Hanoz Kapadia, E. Justin Ratnarajah, and Davan Seebarran be appointed to the Diversity and Inclusion Advisory Committee subcommittee who will work with staff on the Multicultural Media and Advertising Strategy. (DIAC-0003-2015)

#### DIAC-0004-2015

That the deputation from the Diversity and Inclusion Charter of Peel, Regional Diversity Roundtable, be received and that further discussion related to the potential endorsement of the Charter be deferred to a future meeting of the Diversity and Inclusion Advisory Committee.

(DIAC-004-2015)

#### DIAC-0006-2015

That the presentation from the Raj Chopra and Maureen Brown regarding the Mississauga Diversity Program, be received.

(DIAC-006-2015)

#### DIAC-0007-2015

- That the report entitled "Community Recognition Program, Policy and Process for Requests in Support of Community Campaigns and Special events," be received.
- 2. That the Diversity and Inclusion Advisory Committee support the current policy and practice related to proclamations.
- 3. That the Diversity and Inclusion Advisory Committee support the current practice related to the lighting of the Clock Tower requiring all requests to go to Council.
- 4. That the matter of flag raisings be referred to staff for further review and investigation and to report back to a future the Diversity and Inclusion Advisory Committee meeting.

(DIAC-007-2015)

#### DIAC-0008-2015

That the request from Mississauga Gives to light the clock tower to commemorate "Giving Tuesday" on December 1, 2015, be supported. (DIAC-0008-2015)

#### DIAC-0009-2015

That the Memorandum from Diana Rusnov, Manager, Legislative Services, dated November 12, 2015, with respect to the results of the Diversity and Inclusion Advisory Committee's Priorities and Vision and Action Plan exercise, be received. (DIAC-0009-2015)

#### 8. COUNCILLORS' ENQUIRIES

#### 9. OTHER BUSINESS/ANNOUNCEMENTS

#### 10. <u>CLOSED SESSION</u>

10.1. (Pursuant to Subsection 239 (2) of the Municipal Act, 2001)

The security of the property of the municipality or local board – City of Mississauga Lease for Square One Older Adult Centre

- 10.2. (Pursuant to Subsection 239 (2) of the Municipal Act, 2001)

  The security of the property of the municipality or local board Partnership with the Peel District School Board (PDSB) for a lit artificial turf sport field and all-season track at Clarkson Park (P-073, Ward 2)
- 10.3. (Pursuant to Subsection 239 (3.1) of the Municipal Act, 2001) Educational Session Climate Change
- 11. <u>ADJOURNMENT</u>

# City of Mississauga

# **Corporate Report**



Date: November 17, 2015

To: Chair and Members of General Committee

From: Gary Kent, Commissioner of Corporate Services and Chief Financial Officer

Originator's files:

Meeting date:

2015/12/02

# **Subject**

City of Mississauga - 2015 Facility Accessibility Design Standards

## Recommendation

- 1. That the report of the Commissioner of Corporate Services and Chief Financial Officer dated November 17, 2015 and entitled "City of Mississauga 2015 Facility Accessibility Design Standards" be received for information.
- 2. That the City of Mississauga 2015 Facility Accessibility Design Standards as attached in Appendix 1 be endorsed by General Committee as the City's resource on best practices for universal facility accessibility design.

# Background

The Accessibility for Ontarians with Disabilities Act (AODA, 2005) has the goal of creating an accessible community by 2025. In celebration of the 10th Anniversary of the AODA, the Province has outlined "The Path to 2025: Ontario's Accessibility Action Plan. The Plan states that we need to reach higher to go beyond the requirements of the AODA and its standards. The City of Mississauga – 2015 Facility Accessibility Design Standards is one of the ways the City can go beyond the minimum built environment standards to create an accessible community for all.

One of the initiatives in the City's Accessibility Plan is to monitor provincial regulations regarding the accessible built environment, and to make revisions to the Mississauga Accessibility Design Handbook as required. On December 27, 2013, Ontario Regulation 368/13 was filed to amend the new 2012 Building Code, O. Reg. 332/12. The effective date of the amendment is January 1, 2015. The amended requirements substantially enhance accessibility in newly constructed buildings and existing buildings that are to be extensively renovated.

On January 1, 2013, the Integrated Accessibility Standards Regulation (IASR, O. Reg. 191/11), under the Accessibility for Ontarians with Disabilities Act (AODA), was amended to include new

Originators files:

standards governing the design of public spaces (O. Reg. 413/12). The standards outline new requirements for municipalities to incorporate into the design of public spaces beginning in 2016.

These requirements apply to contracts signed after January 1, 2013 and cover the following areas;

- Recreational Trails and Beach Access Routes
- Outdoor Public-Use Eating Areas (e.g. rest stops or picnic areas)
- Outdoor Play Spaces (e.g. playgrounds)
- Exterior Paths of Travel (e.g. sidewalks, ramps, stairs, curb ramps, accessible/audible pedestrian signals)
- Accessible parking (on and off-street)
- Obtaining Services (e.g. services counters, waiting areas)
- Maintenance (of accessibility-related equipment and features in public spaces).

Accessibility reviews of City building projects by the Facility Accessibility Design Subcommittee of the Accessibility Advisory Committee and the Accessibility Coordinator began in 2006. This process will continue. The IASR includes requirements to consult with the Accessibility Advisory Committee regarding trails, playgrounds, exterior paths of travel, and on-street parking. The City of Mississauga – 2015 Facility Accessibility Design Standards will be used as a tool to assist the Facility Accessibility Design Subcommittee in their expanded role.

The Mississauga Accessibility Design Handbook has been a useful guiding tool for the past 10 years exposing designers, planners, project managers, consultants and the community to the principles of universal accessibility design and how universal design principles can be incorporated into design practices. A revision to the Mississauga Accessibility Design Handbook was completed in 2007 to reflect Ontario Building Code amendments. Universal accessibility design is now standard practice and expected in our buildings and built spaces. However, we have moved beyond an accessibility guideline to a universal accessibility design standard.

With substantial accessibility updates in the AODA and the Ontario Building Code, which were effective as of January 1, 2015, a complete revision of the Mississauga Accessibility Design Handbook was necessary. A consultant was hired to assist with this process.

A team of staff representing all Departments was formed to review the revised document.

The City of Mississauga – 2015 Facility Accessibility Design (FAD) Standards was reviewed by the Accessibility Advisory Committee and their input has been incorporated into the Standards.

General Committee 2015/11/17

Originators files:

#### Comments

The City of Mississauga – 2015 Facility Accessibility Design Standards is based on the City of London's Facility Accessibility Design Standards. The City of London's document was used in 2005 to create the original Mississauga Accessibility Design Handbook.

The Accessibility Advisory Committee, Accessible Built Environment Staff and Steering Committees have recommended that the title of the document be changed to "City of Mississauga – 2015 Facility Accessibility Design Standards (from Accessibility Design Handbook guidelines) to demonstrate the City's commitment to continue to support full accessibility in the City's outdoor and indoor spaces.

The 2015 FAD Standards identifies requirements related to sensory loss such as vision and hearing loss and includes some of the following enhancements:

- Larger dimensional requirements for larger wheelchairs and scooters
- An appendix that refers to slip resistance materials
- An appendix that provides further resources that are helpful in making design decisions
- Additional sections such as: therapeutic pools, spray pads, wayfinding, information systems, pedestrian signals,
- The concept of technical infeasibility in renovation situations

The City of Mississauga – 2015 Facility Accessibility Design Standards includes General Characteristics that apply to most facility projects, Site Characteristics and Building Characteristics. The document will be published as a tagged PDF and accessible web document and will be made available on the City's website.

# Strategic Plan

The Belong Pillar includes the goal: to ensure affordability and accessibility. The City of Mississauga – 2015 Facility Accessibility Design Standards assists with accomplishing that goal.

# **Financial Impact**

The City of Mississauga – 2015 Facility Accessibility Design Standards will assist project designers internal and external to the City of Mississauga to ensure accessibility criteria are incorporated into their designs before they are built versus retrofitting after a project is complete. This is a much more cost effective approach.

# Conclusion

The City of Mississauga – 2015 Facility Accessibility Design Standards is a comprehensive tool to assist planners, architects, project managers and the community at large to build universally accessible environments that can be enjoyed by all who live, work, travel and play in Mississauga.

2015/11/17

4

Originators files:

# **Attachments**

Appendix 1: City of Mississauga - 2015 Facility Accessibility Design Standards

G. Kent.

Gary Kent, Commissioner of Corporate Services and Chief Financial Officer

Prepared by: Diana Simpson, Accessibility Coordinator

# 2015 Facility Accessibility Design Standards





## **ACKNOWLEDGEMENTS**

December, 2015

#### Re: City of Mississauga 2015 Facility Accessibility Design Standards

The City of Mississauga is pleased to present the 2015 Facility Accessibility Design Standards (formerly the Mississauga Accessibility Design Handbook). This updated document outlines City-wide standards that build a universally-designed and accessible community for residents, visitors and employees.

#### What's new

- changes to the Ontario Building Code 2012 (including 2015 accessibility updates);
- the Accessibility for Ontarians with Disabilities Act's (AODA) Accessibility Standards for the Design of Public Spaces (O. Reg. 413/12);
- larger dimensional requirements of wheelchairs and scooters;
- requirements related to sensory disability (i.e. vision and hearing loss); and
- additional sections: therapeutic pools, spray pads, wayfinding and information systems.

These standards are applied to all new and/or renovated City owned, leased or operated facilities. In addition to our municipal facilities, we encourage their use throughout the community.

We would like to thank and recognize contributions of:

- The City of London for its generous permission to use the City of London 2015 Facility Accessibility Design Standards (FADS 2015) as the basis for this standard.
- The City of Mississauga's Accessibility Advisory Committee, Accessibility Coordinator and the Accessible Built Environment Staff Committee.
- Mr. Bob Topping and other staff of DesignABLE Environments Inc. (www.designable.net) who have been instrumental in creating this resource.





These standards are a key component of the City's vision for acessibility to make Mississauga a great place to live, work, travel and play for everyone. They reflect our corporate values of Trust, Quality and Excellence and ensure Mississauga is a place where everyone belongs.

Janice M. Baker, FCPA, FCA
City Manager and Chief Administrative Officer



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4.1	Access and Circulation	4.3	Other Amenities	4.4	Systems and Controls
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4.1.8	Windows, Glazed Screens		Meeting Rooms		Therapeutic Pools/Public
	and Sidelights	4.3.6	Waiting and Queuing Areas		Spas and Spray Pads
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		4.4.5	Public Telephones		
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		_	Information Systems		
			Card Access, Safety and		
			Security Systems		
		4.4.12	Glare and Light Sources		
			Acoustics		

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## 1.0 INTRODUCTION

This standard addresses accessibility requirements for the design and construction of new facilities, as well as the retrofit, alteration or addition to existing facilities, owned, leased or operated by the City of Mississauga. This standard particularly addresses the needs of persons with disabilities, including, but not limited to, persons using a mobility aid, hearing loss, vision loss/no vision, cognitive disability, persons who are deaf-blind and persons with limited stamina and/or dexterity.

This standard is intended to encompass the intent of the Ontario Human Rights Code, in terms of respecting the dignity of persons with *disabilities*. "The phrase 'respects their dignity' means to act in a manner which recognizes the privacy, confidentiality, comfort, autonomy and self-esteem of persons with *disabilities*, which maximizes their inclusion and which promotes full participation in society." (Ontario Human Rights Commission)

This standard incorporates the belief in universal design that recognizes the broad diversity of people who use *facilities*. Universal design is defined as:

"The design of products and environments to be usable by all people, to the greatest extent possible, without the need for adaptation or specialized design."

The universal design philosophy is structured around the seven **DESIGN PRINCIPLES LISTED BELOW**. (Refer to Appendix A for further information on the universal design principles and their guidelines.)

This standard reflects minimum dimensional criteria required for adult persons. Prior to the design stage of a project, special consideration should be given to the function of the *facility* and the patrons who will use it. A review and upgrade of this standard may be required in some instances, particularly if a *facility* is designed primarily for the use of a particular type of user, such as children or older persons.

Where conflicts exist between scoping and/or dimensional requirements of this standard and legislation enacted by the federal or provincial governments', the most accommodating requirements shall apply (i.e. the requirement(s) that will result in the most accommodating environment but never less than the minimum requirements of the current Ontario Building Code).

The Facilities and Property
Management Division of the
City of Mississauga shall review
and/or update this standard as
necessary, to reflect technological
advancement and new construction
practices, as well as changes to the
barrier-free design requirements
of various codes and standards

such as the Ontario Building Code (OBC), Accessibility for Ontarians with Disabilities Act (AODA), and the CSA Standard B651 - Accessible Design for the Built Environment.

This standard recognizes the concept of equivalent facilitation as a means to encourage new and innovative design ideas and solutions. Departures from particular technical and scoping requirements of this standard by the use of other designs and technologies are encouraged when the alternatives will provide substantially equivalent or greater access to the usability of the element and/or facility. Design departures from information provided and referenced in this standard should be carefully assessed to determine the validity of the application and may require review by the Accessibility Coordinator.

Dimensions used in this standard are in metric units. Nearest imperial equivalent dimensions are in parentheses.

For the purposes of this standard, words and terms in *italics* have their meanings defined in Section 2.0.

The City of Mississauga encourages all users of this standard to provide feedback, as well as to make proposals for changes, additions and/or deletions. A proposed Change Order Form is included in Appendix B of this standard.

#### 1. EQUITABLE USE:

The design is useful and marketable to people with diverse abilities.

#### 2. FLEXIBILITY IN USE:

The design accommodates a wide range of individual preferences and abilities.

#### 3. SIMPLE AND INTUITIVE USE

Use of the design is easy to understand, regardless of the user's experience, knowledge, language skills, or current concentration level.

#### 4. PERCEPTIBLE INFORMATION:

The design communicates necessary information effectively to the user, regardless of ambient conditions or the user's sensory abilities.

#### **5. TOLERANCE FOR ERROR:**

The design minimizes hazards and the adverse consequences of accidental or unintended actions.

#### 6. LOW PHYSICAL EFFORT:

The design can be used efficiently and comfortably with a minimum of fatigue.

#### 7. SIZE AND SPACE FOR APPROACH AND USE:

Appropriate size and space are provided for approach, reach, manipulation and use, regardless of user's body position, size, posture or mobility.

#### The Principles of **UNIVERSAL DESIGN**

© NC State University, The Center for Universal Design

#### **GRAPHIC CONVENTIONS**

Dimensions that are not marked maximum or minimum are absolute, unless otherwise indicated.

#### **GENERAL TERMINOLOGY**

**comply with** Meet one or more specifications of this standard.

**if ... then** Denotes a specification that applies only when the conditions described are present.

**may** Denotes an option or alternative.

**shall** Denotes a mandatory specification or requirement.

**should** Denotes an advisory specification or recommendation.

#### **DEFINITIONS**

**Access aisle**: An accessible pedestrian space between elements, such as parking spaces, seating and desks, that provides clearances appropriate for the use of the elements.

**Accessible**: Describes a site, building, facility or portion thereof that complies with this standard.

**Accessible element**: An element specified by this standard (for example, telephone, controls etc.).

Accessible route: A continuous unobstructed path connecting accessible elements and spaces of a facility. Interior accessible routes may include corridors, floors, ramps, elevators, platform lifts and clear floor spaces at fixtures. Exterior accessible routes may include parking access aisles, curb ramps, crosswalks at vehicular ways, walkways, ramps and platform lifts.

**Accessible space**: Space that complies with this standard.

**Adaptable**: The ability of a certain building space or element, such as kitchen counters, sinks, and grab bars, to be added or altered so as to accommodate the needs of individuals with or without disabilities or to accommodate the needs of persons with different types or degrees of disabilities.

**Adaptable Seating**: A fixed seat in an assembly occupancy located adjacent to an access aisle with a removable, foldable or no armrest to allow a person to transfer from one side into the fixed seating area from the access aisle.

**Addition**: An expansion, extension, or increase in the gross floor area of a facility.

**Administrative Authority**: A governmental agency that adopts or enforces regulations and guidelines for the design, construction, or alteration of buildings and facilities.

**Alteration**: A change to a facility that affects or could affect the usability of the *facility* or part thereof. Alterations include, but are not limited to, remodelling, renovation, retrofitting, rehabilitation, reconstruction, historic restoration, resurfacing of circulation paths or vehicular ways, changes or rearrangement of the structural parts or elements, and changes or rearrangement in the plan configuration of walls and full-height partitions. Normal maintenance, painting or wallpapering, or changes to mechanical or electrical systems are not alterations, unless they affect the usability of the building.

**Area of rescue assistance**: An area which has direct access to an exit, where people who are unable to use stairs may remain temporarily in safety to await further instructions or assistance during emergency evacuation.

**Assembly area**: A room or space accommodating a group of individuals for recreational, educational, political, social, civic or amusement purposes, or for the consumption of food and drink.

**Assistive Device**: See Mobility Assistive Device.

Attic or Roof space: The uninhabitable portion of a building or structure which is immediately below the roof and wholly or partially within the roof framing. (Mississauga Zoning ByLaw)

**Automatic door**: A door equipped with a power-operated mechanism and controls that open and close the door automatically upon receipt of a momentary actuating signal. The switch that begins the automatic cycle may be a photoelectric device, floor mat, or manual switch. (See Power-assisted door)

**Board room** or **Conference room** or **Meeting room**: A room used for meetings, which accommodates six or more people.

**Boarding Pier**: A portion of a pier where a boat is temporarily secured for the purpose of embarking or disembarking.

**Boat Launch Ramp**: A sloped surface designed for launching and retrieving trailered boats and other water craft to and from a body of water.

**Boat Slip**: That portion of a pier, main pier, finger pier, or float where a boat is moored for the purpose of berthing, embarking, or disembarking.

**Building**: A structure occupying an area greater than ten square metres, consisting of a wall, roof and floor or any of them, or a structural system serving the function thereof, including all plumbing, fixtures and service systems appurtenant thereto; or a structure occupying an area of ten square metres or less that contains plumbing, including the plumbing appurtenant thereto; or structures designated in the Ontario Building Code.

<u>Circulation path</u>: An exterior or interior way of passage from one place to another for pedestrians, including, but not limited to, walkways, hallways, courtyards, stairways, and stair landings.

**Clear**: Unobstructed.

<u>Clear floor space</u>: The minimum unobstructed floor or ground <u>space</u> required to accommodate a single, stationary wheelchair, scooter or other mobility device, including the user.

**Closed-circuit telephone**: A telephone with dedicated line(s), such as a house phone, courtesy phone or phone that must be used to gain entrance to a *facility*.

**Common use**: Refers to those interior and exterior rooms, *spaces* or *elements* that are made available for the use of a restricted group of people (for example, occupants of a homeless shelter, the occupants of an office *building*, or the guests of such occupants).

**Cross slope**: The slope that is perpendicular to the direction of travel. (See *running slope*)

**Crosswalk:** a) That part of a highway at an intersection that is included within the connections of the lateral lines of the sidewalk on opposite sides of the highway measured from the curbs or, in the absence of curbs, from the edges of the roadway; or

b) Any portion of a roadway at an intersection or elsewhere distinctly indicated for pedestrian crossing by signs or by lines or other markings on the surface. (from the Traffic By-law 555-2000)

**<u>Curb ramp</u>**: A short ramp cutting through a curb or built up to a curb.

**Depressed curb**: A continuous area where a curb is lowered to the same level as the adjacent roadway, resulting in a seamless transition between a pedestrian *walkway* and a vehicular route.

**Detectable warning surfaces**: A standardized surface feature built into or applied to walking surfaces or other *elements* to warn persons with vision loss/no vision of hazards on a *circulation path*. These are also known as: "Tactile Ground Indicators (TGI)" or "Tactile Warning Surface Indicators (TWSI)".

**Disability**: Any restriction or lack of ability to perform an activity in the manner or within the range considered normal for a human being.

**Driveway**: An internal roadway, that is not a street, private road, CEC - private road, internal road or lane, which provides vehicular access from a street, private road, CEC - private road, to parking or loading spaces. (Mississauga Zoning ByLaw)

**Dwelling Unit**: A single unit which provides a kitchen or food preparation area, in addition to rooms and spaces for living, bathing, sleeping, and the like. Dwelling units include a single family home or a townhouse used as a transient group home; an apartment building used as a shelter; guestrooms in a hotel that provide sleeping accommodations and food preparation areas; and other similar facilities used on a transient basis. For the purposes of these guidelines, use of the term "Dwelling Unit" does not imply the unit is used as a residence.

Egress, Means of: A continuous and unobstructed way of exit travel from any point in a facility to a public way. A means of egress comprises vertical and horizontal travel and may include intervening room *spaces*, doorways, hallways, corridors, passageways, balconies, ramps, stairs, enclosures, lobbies, horizontal exits, courts and yards. An accessible means of egress is one that complies with this standard and does not include stairs, steps or escalators. Areas of rescue assistance, protected lobbies or protected elevators may be included as part of an accessible means of egress.

**Element**: An architectural or mechanical component of a building, facility, space or site (e.g., telephone, curb ramp, door, drinking fountain, seating or water closet).

**Entrance**: Any access point into a building or facility used for the purposes of entering. An entrance includes the approach walkway, the vertical access leading to the entrance platform, the entrance platform itself, vestibules (if provided), the entry door(s) or gate(s), and the hardware of the entry door(s) or gate(s).

**Elevated Play Component**: A play component that is approached above or below grade and that is part of a composite play structure consisting of two or more play components attached or functionally linked to create an integrated unit providing more than one play activity.

**Facility or Facilities**: All or any portion of buildings, structures, site improvements, complexes, equipment, roads, walkways, passageways, parks, parking lots or other real or personal property located on a site.

**Gangway**: A variable sloped pedestrian *walkway* that links a fixed structure or land with a floating structure. Gangways which connect to vessels are not included.

**Ground floor**: Any occupiable floor less than one storey above or below grade with direct access to grade. A facility always has at least one ground floor and may have more than one ground floor, as where a split-level entrance has been provided or where a facility is built into a hillside.

**Ground Level Play Component:** A play component that is approached and exited at the ground level.

**Guard:** A safety railing used as a barrier to prevent encroachment or accidental falling from heights.

**Handrail:** A component which is normally grasped by hand for support at stairways and other places where needed for the safety of pedestrians.

**Heritage Facility**: A facility or portions thereof designated under the Ontario Heritage Act, or identified in the inventory of heritage resources for the City of Mississauga . (See *Public Heritage Facility*)

**Impairment**: Any loss or abnormality of psychological, physiological or anatomical structure or function.

Landscaped Area: Any outdoor area on a lot, located at grade, including the landscaped buffer area, that is suitable for the growth and maintenance of grass, flowers, shrubs, trees and other landscape features, and may include walkways, berms, retaining walls and outdoor amenity areas, but shall not include, driveways, aisles, ramps or internal roads, parking areas whether surfaced or not, curbs, any open space beneath or within any building, structure or part thereof, or any exterior garbage storage or handling area. (Mississauga Zoning ByLaw)

**Marked crossing**: A crosswalk or other identified *path* intended for pedestrian use in crossing a *vehicular way*.

#### Mezzanine or Mezzanine floor:

That portion of a *storey* which is an intermediate floor level, placed within the *storey* and having *occupiable space* above and below its floor.

**Mobility Assistive Device**: A mobility assistive device as defined in section 2 of Ontario Regulation 191/11 (Integrated Accessibility standards) made under the Accessibility for Ontarians with Disabilites Act, 2005.

**Multifamily Dwelling**: Any building containing more than two dwelling units.

**Multi-Use Trail**: A multi-use trail managed by a public authority (Mississauga Zoning ByLaw). A multi-use trail means that part of a highway, boulevard or city right-of-way that is designated by authorized signs for shared use by cyclists, pedestrians and in-line skaters, in accordance with Traffic By-law Schedule 35 or the Parks By-law. (128-09). A multi-use trail shall be designed, constructed and maintained to minimize impacts on the natural environment and may include mitigative structures, such as raised boardwalks and footbridges (Mississauga Zoning ByLaw). See also Recreational Trail.

**Occupiable**: A room or enclosed space designed for human occupancy in which individuals congregate for amusement, educational or similar purposes, or in which occupants are engaged at labour, and which is equipped with means of egress, light and ventilation.

**Open space:** Large-scale tracts of land without visible evidence of residential, commercial or industrial development. These areas may be privately or publicly owned and are generally left in a natural state and not programmed for active recreation. The benefits of open lands typically extend beyond the immediate area and usually provide community-wide benefits.

**Operable portion**: A part of a piece of equipment or appliance used to insert or withdraw objects, or to activate, deactivate, or adjust the equipment or appliance (for example, coin slot, push button, handle).

**Park**: Land that is privately or publicly held that has been developed for multiple recreational and leisure-time uses. This land benefits the entire community and balances the demands of the public for outdoor recreational facilities and other amenities, such as recreational trails, picnic areas, playgrounds, water features, spaces for free play and leisure.

<u>Parking Space For</u> Persons With

**Disabilities**: An unobstructed rectangular area exclusive of any aisle or driveway for the temporary parking of a motor vehicle, for persons with disabilities. (Mississauga Zoning ByLaw)

**Path:** See Path of Travel

**Pathway:** See Path of Travel

**Path of Travel:** A continuous, unobstructed way of pedestrian passage, including but not limited to walkways and sidewalks, curb ramps and other interior or exterior pedestrian ramps, clear floor paths through lobbies, corridors, rooms, parking access aisles, elevators and lifts, or a combination of these elements.

**Play Area**: A portion of a site containing play components designed and constructed for children

Play Equipment/Component: A structure that is designed and used for play and recreation (Mississauga Zoning ByLaw). An element intended to generate specific opportunities for play, socialization, or learning. Play components may be manufactured or natural, and may be stand alone or part of a composite play structure.

**Power-assisted door**: A door used for human passage that has a mechanism that helps to open the door or relieves the opening resistance of a door, upon the activation of a switch or a continued force applied to the door itself.

**Private open space**: Privately owned land areas within a subdivision, generally smaller in scale than open space, which have been left free from structures, parking lots and roads. These types of areas generally benefit only the residents or employees of the particular subdivision and usually remain in private ownership.

**Public Heritage Facility**: A facility or portions thereof designated under the Ontario Heritage Act, or identified in the inventory of heritage resources for the City of Mississauga and that is open and accessible to the public. (See Heritage Facility)

**Public use:** Describes interior or exterior rooms or *spaces* that are made available to the general public. *Public use* may be provided at a *facility* that is privately or publicly owned.

**Ramp**: A walking surface which has a *running slope* greater than 1:20 (5%).

**Recreational Trail:** Public pedestrian trails that are intended for recreational and leisure purposes. Note that a *multi-use trail* is one type of Recreational Trail and must adhere to all recreational trail requirements in addition to those specific to *multi-use trails*. (Refer also to definition of *Multi-Use Trail*)

**Retrofit:** See Alteration.

**Running slope**: The slope that is parallel to the direction of travel. (See *Cross slope*)

**Service entrance**: An entrance intended primarily for delivery of goods or services and not intended for use by the public.

**Service room**: A room provided in a *building* to contain equipment associated with *building* services.

**Service space**: A space provided in a *facility* to facilitate or conceal the installation of *facility* service *facilities* such as chutes, ducts, pipes, shafts or wires.

**<u>Signage</u>**: Displayed verbal, symbolic, *tactile* and pictorial information.

**<u>Site</u>**: A parcel of land bound by a property line or a designated portion of a public right-of-way.

**Site improvement**: Landscaping, paving for pedestrian and *vehicular ways*, outdoor lighting, recreational *facilities* added to a *site*.

#### Sleeping accommodations:

Rooms in which people sleep, for example, a dormitory.

**Space**: A definable area (e.g. room, toilet room, hall, assembly area, entrance, storage room, alcove, courtyard or lobby).

**Storey**: The portion of a building, structure or part thereof, that is situated between the top of any floor and the top of the floor next above it, and if there is no floor above it, that portion between the top of the floor and the ceiling above it (Mississauga Zoning ByLaw). If such portion of a building does not include occupiable space, it is not considered a storey for the purposes of this standard. There may be more than one floor level within a storey, as in the case of a mezzanine or mezzanines.

**Structural frame**: The columns and the girders, beams, trusses and spandrels having direct connection to the columns and all other members which are essential to the stability of the *building* as a whole.

**TDD** (Telecommunication Device for the Deaf): See *Text telephone*.

**TTY** (Teletypewriter): See *Text telephone*.

**Tactile**: Describes an object that can be perceived using the sense of touch.

**Technically infeasible**: Means, with respect to an alteration of a building or a facility, that it has little likelihood of being accomplished, because:

- existing structural conditions would require moving or altering a load-bearing member which is an essential part of the *structural* frame; or
- other existing physical or site constraints prohibit modification or addition of necessary elements, spaces or features which are in full and strict compliance with the minimum requirements for new construction.

**Temporary structure**: A facility that is not of permanent construction but that is extensively used, or is essential for *public use* for a period of time. Examples of temporary facilities covered by this standard include, but are not limited to, reviewing stands, bleacher areas, temporary kiosks, temporary health screening services or temporary safe pedestrian passageways around a construction site. Structures and equipment directly associated with the actual processes of construction, such as scaffolding, bridging, materials hoists, or construction trailers, are not included.

#### Text telephone (TTY):

Machinery or equipment that employs interactive text-based communication through the transmission of coded signals across the standard telephone network. Text telephones can include, for example, devices known as TDDs (telecommunication display devices or telecommunication devices for deaf persons) or computers with special modems. Text telephones are also called TTYs, an abbreviation for teletypewriter.

**Transfer Device**: Equipment designed to facilitate the transfer of a person from a wheelchair or other mobility device to and from an amusement ride seat. (MADH)

**Universal Design Prinicples**: The principles by which the environment can be designed in order to accommodate the abilities of all (Mississauga Official Plan).

**Vehicular way**: A route intended for vehicular traffic, such as a street, driveway or parking lot, within the boundary of the *site*.

**Walkway**: An exterior pathway with a prepared surface intended for pedestrian use, including general pedestrian areas, such as plazas and courts, within the boundary of the *site*.

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# 3.0 SCOPE, APPLICATION AND ENFORCEMENT

#### **GENERAL**

The requirements of this standard shall be

- mandatory for all newly constructed and retrofitted facilities owned, leased or operated by the City of Mississauga; and
- encouraged for all other facilities, whether new or retrofitted.

Exceptions: This standard does not apply to

- residential occupancies;
- buildings of Group F Division 1 occupancy, as defined by the Ontario Building Code (latest edition with all amendments);
   and
- buildings which are not intended to be occupied on a daily or fulltime basis, including, but not limited to, automatic telephone exchanges, pump houses and substations.

#### **GENERAL APPLICATION**

All areas of newly designed or newly constructed *facilities* and altered portions of existing *facilities* shall comply with Sections 4.1 to 4.4 of this standard, unless otherwise provided in this section or as modified in Section 4.5, Facility-Specific Requirements.

Exceptions: The requirements of Sections 4.1 to 4.4 do not apply to

- service rooms
- elevator machine rooms
- janitor rooms
- service spaces
- crawl spaces
- attic or roof spaces.

# APPLICATION BASED ON FACILITY USE

The specific facility types listed in Section 4.5 shall, in addition to all of the provisions specified in Section 4.1 to 4.4, comply with the additional design requirements specified in Section 4.5.

Where a facility contains more than one use covered by a special application section, each portion shall comply with the requirements for that section in addition to all other general provisions.

# WORK AREAS AND EMPLOYEE-DESIGNATED AREAS

All facilities shall be accessible for employees, as well as patrons/ users. All areas intended for use by employees shall be designed and constructed to comply with this standard.

#### **TEMPORARY FACILITIES**

This standard applies to temporary facilities, as well as permanent facilities.

## RETROFITTING, ALTERATIONS AND ADDITIONS

Each addition to an existing facility shall be regarded as an alteration.

Each space or element added to the existing facility shall comply with the applicable provision(s) of this standard.

Except where the provision of accessible features is technically infeasible, no alteration shall decrease or have the effect of decreasing accessibility or usability of an existing facility to below the requirements for new construction at the time of alteration.

If existing elements, spaces or common areas are altered, then each such altered element/ space/feature/area shall comply with all applicable provisions. If the applicable provision for new construction requires that an element/space/feature/area be on an accessible route and the altered element/space/feature/area is not on an accessible route, this route shall be altered to become accessible.

If alterations of single elements, when considered together, amount to an alteration of a room or space in a facility, the entire space shall be made accessible.

No alteration of an existing element, space or area of a facility shall impose a requirement for greater accessibility than that which would be required for new construction.

If an escalator or stairs are proposed as a means of access where none existed previously, and major structural modifications are necessary for such installations, then a means of accessible access shall also be provided.

If a planned *alteration* entails alterations to an *entrance*, and the *facility* has an *accessible entrance*, the *entrance* being altered is required to be *accessible*.

If the alteration work is limited solely to the electrical, mechanical or plumbing system, or to hazardous material abatement, or to automatic sprinkler retrofitting, and does not involve the alteration of any *elements* or *spaces* required to be *accessible* under these guidelines, then this standard does not apply (except for alarms, public telephones and assistive listening systems).

An alteration that affects the usability of or access to an area containing a primary function shall be made to ensure that, to the maximum extent feasible, the route of travel to the altered area, the restrooms, telephones and drinking fountains serving the altered area are readily accessible to and usable by individuals with disabilities.

Where the provision of accessible features is technically infeasible, and the standard allows a reduction of manoeuvring space from the requirements for new construction, the reduced dimensions are minimums. Where possible, larger manoeuvring spaces must be provided.

# 3.0 SCOPE, APPLICATION AND ENFORCEMENT

#### HERITAGE FACILITIES

This standard will apply to alterations to a Heritage Facility, however, under the Ontario Human Rights Code, there are allowances for modification to the defining features of a Heritage Facility which are deemed to alter the essential nature or substantially affect the viability of the enterprise. Public Heritage Facilities should be assessed for compliance to accessibility standards on an individual basis, to determine the most effective and least disruptive means of retrofit, where required. Consider the following general quidelines:

- Facilities and/or areas that are generally used independently by the public and have undergone extensive modernization should be permanently and fully accessible. This includes parking areas, reception areas, washrooms, food service areas and gift shops. It can also include walkways and garden areas. If accessibility is limited by non-heritage elements, those elements should be revised
- Facilities and/or areas which are used only by guided tour groups, through which assistance could easily be provided to open doors or to place a temporary ramp, could remain as existing or with minor temporary modifications.

- It is desirable to provide a complete experience of a Public Heritage Facility. If an accessible area or areas can be provided to fully experience a given site or facility context, access to the entire site or facility is not necessary.
- Access to above-grade and below-grade areas is not necessary if the context of those areas can be adequately provided on the accessible floor level.

If retrofit for accessibility of a main public entrance in a Heritage Facility would substantially threaten or destroy the historic significance of the facility, access shall be provided at an alternative entrance with directional signs at the main public entrance. The accessible entrance should have a notification system (if not generally used by the public) and remote monitoring (if security is an issue).

Safe egress from a *Heritage Facility* is required.

#### **EQUIVALENT FACILITATION**

In a retrofit situation where the requirements of a section of this standard are *technically infeasible* to implement, equivalent facilitation may be proposed.

Equivalent facilitation proposals shall be referred to the Division Manager of the Facilities Design and Construction Division of the City of Mississauga for review and approval on an individual basis.

#### **IMPLEMENTATION**

The Facilities and Property
Management Division of the
City of Mississauga, other City
departments, as well as contracted
consulting firms shall be responsible
for the application of the 2015
Facilities Accessibility Design
Standards when designing and
administering all construction and
renovation projects associated with
new facilities, as well as the retrofit,
alteration or addition to existing
facilities, owned, leased or operated
by the City of Mississauga.

Designing and constructing to this standard shall be included as a mandatory requirement in all City of Mississauga requests for proposals, tender documents and construction contracts.

#### **ENFORCEMENT**

The Facilities and Property
Management Division of the City
of Mississauga and other City
departments, through the project
management function, shall
ensure compliance to this standard
during the preplanning, design,
construction documents preparation
and contracts administrative phase.

# **4.0 DESIGN STANDARDS**

All areas of newly designed or newly constructed *facilities* and altered portions of existing *facilities* shall comply with this section, unless otherwise provided in Section 3.0.

Exceptions: This standard does not apply to

- residential occupancies;
- Buildings of Group F Division 1 occupancy, as defined by the Ontario Building Code (latest edition with all amendments); and
- buildings which are not intended to be occupied on a daily or fulltime basis, including, but not limited to, automatic telephone exchanges, pump houses and substations.

The requirements of this section apply to all areas of a facility except

- service rooms
- elevator machine rooms
- janitor rooms
- service spaces
- crawl spaces
- attic or roof spaces

The design elements in these stardards are organized by:
Access and Circulation; Washroom Facilities; Other Amenities; Systems and Controls; and Facility-Specific Requirements.

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# **4.1.1 SPACE AND REACH REQUIREMENTS**

### 4.1 ACCESS AND CIRCULATION

#### **RATIONALE**

The dimensions and manoeuvring characteristics of wheelchairs, scooters and other mobility devices are as varied as the people who use them. Traditionally, accessibility standards have taken a conservative approach to wheelchair manoeuvrability, reflecting the needs of a physically strong individual using a manual wheelchair. Such an approach excludes the many users without such a degree of strength or those using a larger mobility device. This standard more accurately reflects the vast array of equipment that is used by individuals to access and use facilities, as well as the diverse range of user ability. This standard incorporates more generous space requirements, particularly related to the dynamic movement of people using wheelchairs, scooters or other assistive devices.

#### **APPLICATION**

Space and reach range provisions for persons who use wheelchairs, scooters and other mobility devices shall comply with this section.

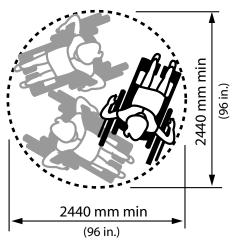


Figure 4.1.1.1 360° Turning Space

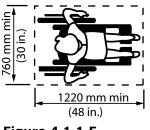


Figure 4.1.1.5
Clear Floor Space for Wheelchair

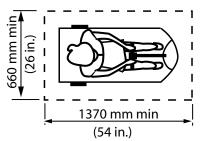


Figure 4.1.1.6
Clear Floor Space for Scooter

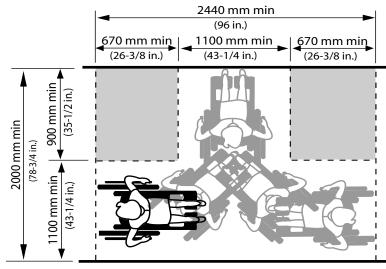


Figure 4.1.1.2 180° Turning Space

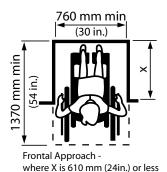


Figure 4.1.1.7 Clearances at Alcove

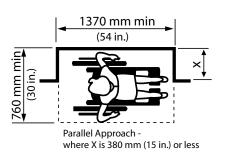


Figure 4.1.1.3
Clearances at Alcove

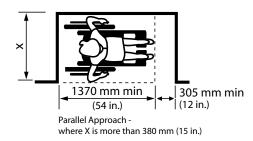


Figure 4.1.1.4
Clearances at Alcove

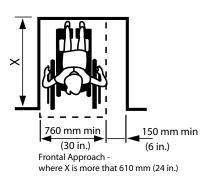


Figure 4.1.1.8
Clearances at Alcove

# 4.1.1 SPACE AND REACH REQUIREMENTS

# **DESIGN REQUIREMENTS**

The space required for a wheelchair to make a 360-degree turn is a clear floor space of 2440 mm (96 in.) in diameter (Figure 4.1.1.1) or for a 180-degree turn, as shown in Figure 4.1.1.2.

The minimum *clear floor space* or ground *space* necessary to accommodate the largest

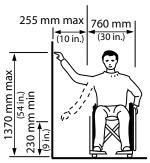


Figure 4.1.1.9 Side Reach

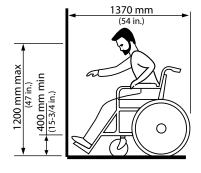


Figure 4.1.1.11 Forward Reach

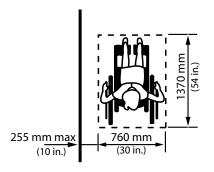


Figure 4.1.1.13 Side Reach - Maximum Distance to Wheelchair

dimensional requirement of a single, stationary wheelchair or scooter and its' occupant shall be 760 mm (30 in.)  $\times$  1370 mm (54 in.). (Refer to Figures 4.1.1.5 and 4.1.1.6)

The minimum clear floor space or ground space for wheelchairs or scooters may be positioned for forward or parallel approach to an object.

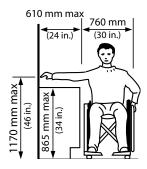


Figure 4.1.1.10 Side Reach over an Obstruction

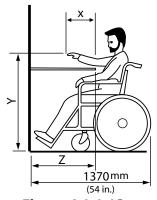


Figure 4.1.1.12
Forward Reach over an Obstruction

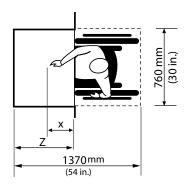


Figure 4.1.1.14
Forward Reach over an
Obstruction

Clear floor space or ground space for wheelchairs may be part of the knee space required under some objects.

One full, unobstructed side of the clear floor space or ground space for a wheelchair or scooter shall adjoin or overlap an accessible route or adjoin another wheelchair clear floor space. If a clear floor space is located in an alcove or otherwise confined on all or part of three sides, additional manoeuvring clearances shall be provided as shown in Figures 4.1.1.3, 4.1.1.4, 4.1.1.7 and 4.1.1.8.

The surface of *clear* floor or ground *spaces* for wheelchairs and scooters shall comply with 4.1.2.

If the *clear floor space* only allows forward approach to an object, the maximum high forward reach allowed shall be 1200 mm (47 in.). The minimum low forward reach is 400 mm (15-3/4 in.). Refer to Figure 4.1.1.11. If the high forward reach is over an obstruction, reach and clearances shall be as shown in Figures 4.1.1.12 and 4.1.1.13.

If the *clear floor space* allows parallel approach to an object, the maximum high side reach allowed shall be 1370 mm (54 in.) and the low side reach no less than 230 mm (9 in.) above the floor. Refer to Figure 4.1.1.9. If the side reach is over an obstruction, the reach and clearances shall be as shown in Figure 4.1.1.9 and 4.1.1.13. Notwithstanding these requirements, the Ontario Building Code requires all controls for the operation of facility services to be no more than 1200 mm (47 in.) above the floor for thermostats or manual pull station and 900 -1100 mm (35-1/2 - 43-1/4 in.) for all other controls including typical light switches.

NOTE: In Diagrams 4.1.1.12 and 4.1.1.14, X shall be less than or equal to 635 mm (25 in.): Z shall be greater than or equal to X.
When X is less than 510 mm (20 in.), then Y shall be 1220 mm (48 in.) maximum.
When X is 510 to 635 mm (20 to 25 in.), then Y shall be 1120 mm (44 in.) maximum.

# 4.1.2 GROUND AND FLOOR SURFACES

#### **RATIONALE**

Design decisions related to ground and floor surfaces will influence every person who enters the building. Irregular surfaces, such as cobblestones or pea-gravel finished concrete, are difficult for both walking and pushing a wheelchair. Slippery surfaces are hazardous to all individuals and especially hazardous for seniors and others who may not be sure-footed.

Glare from polished floor surfaces can be uncomfortable for all users and can be a particular obstacle to persons with vision loss/no vision by obscuring important orientation and safety features. Pronounced colour contrast between walls and floor finishes may be helpful for persons with vision loss/no vision, as are changes in colour/texture where a change in level or function occurs.

Patterned floors should be avoided, as they can create visual confusion.

Thick pile carpeting makes pushing a wheelchair very difficult. Small and uneven changes in floor level represent a further barrier to using a wheelchair but also present a tripping hazard to ambulatory persons.

Openings in any ground or floor surface such as grates or grilles can catch canes or wheelchair wheels.

#### **APPLICATION**

Ground and floor surfaces along all routes generally used by staff and public and within all areas generally used by staff and public shall comply with this section.

# **DESIGN REQUIREMENTS**

Ground and floor surfaces shall be stable, firm, slip-resistant and glare-free.

Changes in level, except for elevators and other elevating devices, shall conform to Table 4.1.2.

Carpets or carpet tile shall

- be securely fixed;
- have a firm cushion, pad or backing, where used;
- have a level loop, textured loop, level cut pile, or level cut/uncut pile texture with a maximum pad and pile height of 13 mm (1/2 in.); and
- have exposed edges fastened to floor surfaces with trim conforming to Table 4.1.2.

Gratings located in walking surfaces shall

- have spaces not greater than 13 mm (1/2 in.) wide in one direction; and
- be placed so that the long dimension is across the dominant direction of travel.

#### 4.1 ACCESS AND CIRCULATION

- 4.1.4 Accessible Routes, Paths and Corridors
- 4.4.8 Detectable Warning Surfaces
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour

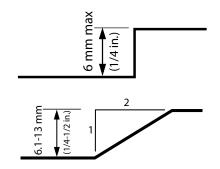


Figure 4.1.2.1
Changes in Level

Vertical Rise	Edge Treatment	
0 to 6 mm (0 - ¼ in.)	May be vertical	
6.1 mm to 13 mm (9/32 in. – ½ in.)	Bevel, maximum slope 1:2	
Over 13 mm (over ½ in.)  Treat as a sloped floor, ra		
	or curb ramp	

Table 4.1.2 Changes in Level

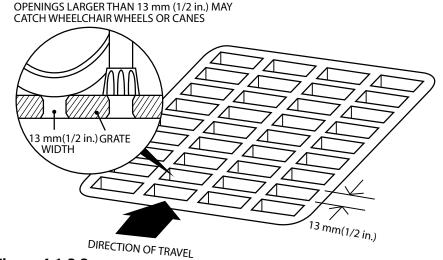


Figure 4.1.2.2
Grills and Gratings

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#### **RATIONALE**

The creation of pathways free from protruding objects or freestanding obstacles is important to all facility users. An object protruding from a wall above the detection range of a cane is dangerous for persons with vision loss/no vision or a pedestrian distracted by a conversation. The underside of stairways is a common overhead hazard. Temporary construction barriers can also be hazardous if their lower edge is too high to be detected by a person using a long white cane for mobility. Detectable warning surfaces around freestanding obstacles, such as light standards, are advantageous to anyone using a pathway.

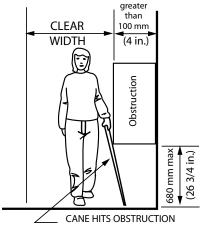
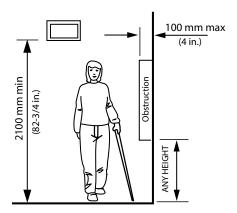


Figure 4.1.3.1
Limits of Protruding Objects



**Figure 4.1.3.2**<u>Limits of Protruding Objects</u>

# 4.1.3 PROTRUDING & OVERHEAD OBJECTS

#### **APPLICATION**

Protruding objects from a wall, ceiling or other location shall comply with this section.

## **DESIGN REQUIREMENTS**

Objects protruding from walls with their leading edges between 680 mm (26-3/4 in.) and 2100 mm (82-3/4 in.) from the floor shall protrude not more than 100 mm (4 in.) into pedestrian areas, such as *walkways*, halls, corridors, passageways or aisles.

Objects attached to a wall with their leading edges at or below 680 mm (26-3/4 in.) from the floor may protrude any amount.

Freestanding objects shall not have any overhang of more than 300 mm (11-3/4 in.) between 680 mm (26-3/4 in.) and 2100 mm (82-3/4 in.) from the ground or floor.

The maximum height of the bottom edge of freestanding objects with a *space* of more than 300 mm (11-3/4 in.) between supports shall be 680 mm (26-3/4 in.) from the ground or floor.

Protruding objects shall not reduce the *clear* width required for an *accessible route* or manoeuvring *space*.

The minimum *clear* headroom in pedestrian areas, such as *walkways*, halls, corridors, passageways, or aisles, shall be 2100 mm (82-3/4 in.).

A detectable *guard*, guardrail or other barrier having its leading edge at or below 680 mm (26-3/4 in.) from the floor shall be provided where the headroom of an area adjoining an *accessible route* is reduced to less than 2100 mm (82-3/4 in.).

- 4.1.4 Accessible Routes, Paths and Corridors
- 4.4.8 Detectable Warning Surfaces
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour

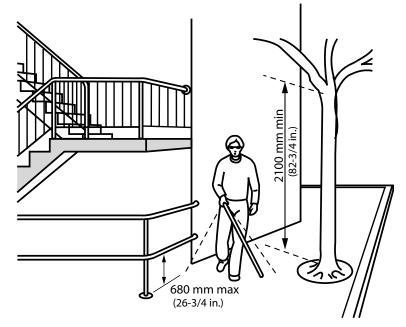


Figure 4.1.3.3
Overhead Obstructions

# **4.1.4 ACCESSIBLE ROUTES, PATHS & CORRIDORS**

#### **RATIONALE**

Routes of travel through a facility should address the full range of individuals that may use them. They must provide the *clear* width necessary for persons using wheelchairs or scooters, those pushing strollers or those travelling in pairs. Consideration should be given to the width and maneuverability of mobility devices, such as wheelchairs and scooters. While a corridor may be wide enough for a person to drive a scooter in a straight line, it may not be possible to make a turn around a corner. The preferred minimum width for primary accessible routes is 1830 mm (72 in.).

Strong colour contrasts and/or tactile *pathways* set into floors may be used to assist individuals with vision loss/no vision to negotiate an environment.

Edge protection that guards a change in level is an important safety feature for all users.

#### **APPLICATION**

Wherever possible, all routes, *paths* and corridors shall comply with this section.

At least one accessible route complying with this section shall be provided within the boundary of the site from accessible parking spaces, passenger-loading zones (if provided), and public streets or sidewalks to the accessible facility entrance they serve. The accessible route shall, to the maximum extent feasible, coincide with the route for the general public.

At least one accessible route shall connect accessible buildings, facilities, elements and spaces that are on the same site. It is preferable to have all routes accessible.

Except where essential obstructions in a work area would make an accessible route hazardous, an accessible route shall connect accessible entrances with all accessible spaces and elements within the facility. An accessible route complying with this section shall be provided within all normally occupiable floor areas.

Exceptions: The provision of an accessible route does not apply

- to service rooms
- to elevator machine rooms
- to janitor rooms
- to service spaces
- to crawl spaces
- to attic or roof spaces
- to high-hazard industrial occupancies
- within portions of a floor area with fixed seats in an assembly occupancy where these portions are not part of an accessible route to spaces designated for wheelchair use; or
- within a suite of residential occupancy.

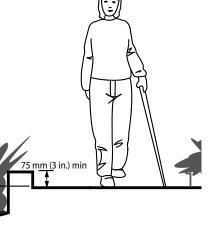


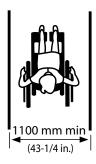
Figure 4.1.4.1
Edge Protection

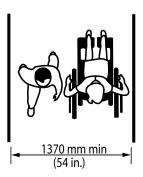
 $> 200 \, \text{mm}$ 

#### 4.1 ACCESS AND CIRCULATION

Accessible routes are permitted to include *ramps*, *curb ramps*, stairs (alongside ramps), elevators or other elevating devices (as permitted in 4.1.15) where a difference in elevation exists.

A walkway or pedestrian bridge connecting two barrier-free storeys in different buildings shall form part of an accessible route and shall comply with this section.





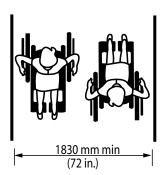


Figure 4.1.4.2 Access Widths

#### **DESIGN REQUIREMENTS**

The minimum *clear* width of an *accessible route* shall be 1100 mm (43-1/4 in.) except

- at doors refer to 4.1.6;
- where additional manoeuvring space is required at doorways (See 4.1.6);
- at U-turns around obstacles less than 1220 mm (48 in.) wide, it shall be 1220 mm (48 in.);
- for exterior routes, it shall be 1500 mm (59 in.). This can be reduced to 1220 (48 in.) where the route connects to a curb ramp to serve as a turning space at the top of the ramp;
- where space is required for two wheelchairs to pass, it shall be 1830 mm (72 in.); and
- at secondary circulation routes within open office areas, where systems-furniture work station clusters are used, it shall be 920 mm (36 in.).

Where accessible routes less than 2000 mm (78-3/4 in.) wide terminates at a dead end, a turn space in compliance with 4.1.1 shall be provided at the dead end.

Entrance to an exterior path of travel must provide a minimum clearance of 950 mm (37-1/2 in.) (whether entrace includes gate, offset gates, bollard, or other entrance design).

Accessible routes shall

- have a running slope not steeper than 1:20 (5%) or be designed as a ramp in compliance with 4.1.9;
- have a cross slope not steeper than 1:50 (2%); and
- where the accessible route incorporates a curb ramp, the curb ramp portion of the accessible route shall comply with 4.1.10.

Every accessible route less than 1830 mm (72 in.) wide shall be provided with an unobstructed passing space of not less than 1830 mm (72 in.) in width and 1830 mm (72 in.) in length, located not more than 30 meters (98 ft. 5 in.) apart.

# **4.1.4 ACCESSIBLE ROUTES, PATHS & CORRIDORS**

Except at stairs and at elevated platforms such as performance areas or loading docks, where the edge(s) of an *accessible* route, *path* or corridor is not level with the adjacent surface, the edge(s) shall be protected

- by a colour contrasting curb of at least 75 mm (3 in.) high where the change in level is between 200 mm (7-7/8 in.) and 600 mm (23-5/8 in.); and
- by a guard which meets the requirements of the Ontario Building Code where the change in level is greater than 600 mm (23-5/8 in.).

Where there is a change in direction along an *accessible route* and the intended destination of the route is not evident, directional signage shall be provided.

All portions of an accessible route shall be equipped to provide a minimum level of illumination of 50 lux (4.6 ft-candles). Exception: In outdoor park settings where routes are not normally illuminated, additional illumination is not required.

Accessible routes shall incorporate level rest areas spaced no more than 30 metres (98ft. - 5in.) apart.

Recreational trails need flexibility in locations of rest areas (i.e. 30 to 90 m (98 ft. - 5 in. to 295 ft. - 3 in.) apart.)

Consultation with the Municipal Accessibility Advisory Comittee, the public and persons with disabilities regarding the design and location of rest areas along exterior paths of travel must be undertaken as required by the AODA Accessibility Standard for the Design of Public Spaces.

Designated areas for snow piling to be provided at exterior accessible routes, located away from pedestrian routes.

#### **RELATED SECTIONS**

- 4.1.2 Ground and Floor Surfaces
- 4.1.7 Gates, Turnstiles and Openings
- 4.1.9 Ramps
- 4.1.10 Curb Ramps
- 4.2.3 Elevated Platforms
- 4.4.7 Signage
- 4.4.8 Detectable Warning Surfaces
- 4.4.12 Glare and Light Sources
- 4.4.13 Lighting
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour

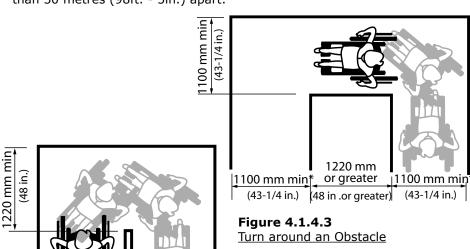


Figure 4.1.4 in.)

Figure 4.1.4 in.)

Figure 4.1.4 in.)

Figure 4.1.4 in.)

Figure 4.1.4.4 Turn around an Obstacle

Figures 4.1.4.3 and 4.1.4.4 illustrate interior routes. Dimensions marked \* to be increased to 1500 mm (59 in.) at exterior routes.

# 4.1.5 ENTRANCES

#### **RATIONALE**

Design decisions concerning entrances will have an immediate impact on the independence and dignity of everyone entering a facility. Entrances that address the full range of individuals using the facility promote a spirit of inclusion that separate accessible entrances do not. Features such as canopies can limit the influence of weather conditions on this already busy area and also make an entrance more obvious to a person with a cognitive disability or someone unfamiliar with the facility.

#### **APPLICATION**

All entrances used by staff and/ or the public shall be accessible and comply with this section. In a retrofit situation where it is technically infeasible to make all staff and public entrances accessible, at least 50% of all staff and public entrances shall be accessible and comply with this section. In a retrofit situation where it is technically infeasible to make all public entrances accessible, the primary entrances used by staff and the public shall be accessible.

Accessible public entrances must be provided in a number at least equivalent to the number of exits required by the Ontario Building Code. (This paragraph does not require an increase in the total number of public entrances required for a facility.)

An accessible public entrance must be provided to each tenancy in a facility.

In police stations and municipal courts subject to 4.5.8 and 4.5.9, public *entrances* that are secured shall be *accessible*, as required in 4.5.8 and 4.5.9.

If direct access is provided for pedestrians from an enclosed parking garage to a *facility*, at least one direct *entrance* from the parking garage to the *facility* must be *accessible*.

If access is provided for pedestrians from a pedestrian tunnel, walkway or pedestrian bridge, at least one entrance to the facility from each tunnel, walkway or bridge must be accessible.

#### 4.1 ACCESS AND CIRCULATION

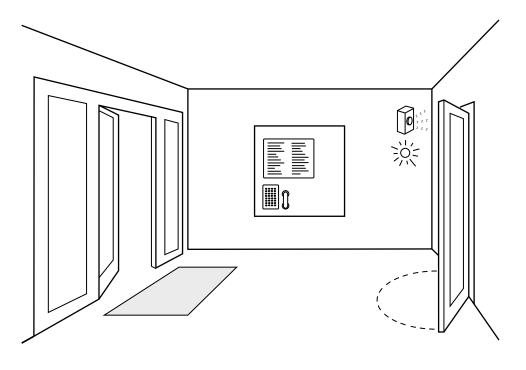
If the only *entrance* to a *facility* or tenancy is a *service entrance*, that *entrance* shall be *accessible*.

Entrances which are not accessible shall have directional signage complying with 4.4.7 which indicates the nearest accessible entrance.

Accessible entrances shall be identified with signage complying with applicable provisions of 4.4.7.

Accessible entrances shall be served by an accessible route in compliance with 4.1.4.

- 4.1.1 Space and Reach Requirements
- 4.1.6 Doors
- 4.1.7 Gates, Turnstiles and Openings
- 4.1.8 Windows, Glazed Screens and Sidelights
- 4.4.2 Controls and Operating Mechanisms
- 4.4.7 Signage
- 4.4.10 Information Systems
- 4.4.11 Card Access, Safety and Security Systems
- 4.4.13 Lighting



#### **RATIONALE**

Sufficiently wide doorways are advantageous to individuals using wheelchairs or scooters, pushing strollers, or making a delivery. However, a raised threshold at the base of the door could impede any one of these same individuals. This same group, with the addition of children, seniors or even someone carrying packages, would have difficulty opening a heavy door and would benefit from some form of automatic door opener. Where permitted and where feasible, entrances without doors are preferred.

Independent use of doors is desirable. Reliance on assistance from others to open doors is not an *accessible* or dignified solution.

Careful thought to the direction of the door swing can enhance the usability and limit the hazard to other pedestrians. Sliding doors can be easier for some individuals to operate, and can also require less wheelchair manoeuvring space. Doors that require two hands to operate are not considered to be accessible. Revolving doors are not accessible for persons using wheelchairs and strollers (unless they are very large revolving doors i.e. Credit Valley Hospital entrance). Also, the coordination required to use such doors may be difficult for children or a person with a cognitive disability.

Glazed doors can present a hazard to all individuals and especially those with vision loss/no vision. The inclusion of colour-contrast strips across the glass, mounted at eye level, as well as colour-contrasting door frames and door hardware, will increase the safety and visibility of a glazed door for a person with vision loss/no vision.

# 4.1.6 DOORS

#### **APPLICATION**

All doors used by staff or the public shall comply with this section. In a retrofit situation where it is technically infeasible to make all doors accessible, at least one door at each accessible space shall comply with this section.

Exception: Doors not requiring full user passage, such as shallow closets, may have the *clear* opening reduced to 510 mm (20 in.) minimum.

Each door that is an *element* of an *accessible route* shall comply with this section.

Each door required by 4.4.1 (Emergency Exits, Fire Evacuation and Areas of Rescue Assistance) shall comply with this section.

Where a door system incorporates multiple door leafs at a single location, at least one of the door leafs shall comply with this section.

Power operators shall be provided at the following door locations:

- entrances required by 4.1.5 including both inner and outer vestibule doors (where provided);
- washrooms that include an accessible toilet stall;
- universal washroom;
- change rooms that contain accessible toilet and shower facilities, as well as a private accessible change room; and
- intermediate doorways across primary circulation routes within a facility. Exception: Doors that are held-open using electromagnetic hold-open devices.

Mats and mat sinkages at doors shall comply with this section.

Revolving doors or turnstiles shall not be the only means of passage at an accessible entrance or along an accessible route. An accessible gate or door shall be provided adjacent to the turnstile or revolving door and shall be designated to facilitate the same use pattern.

Context	Floor <i>Space</i> Required (in mm)		
	Depth	Width	Space beside latch
Side-hinged door - Front approach (Figure 4.1.6.3)			
Pull side	1525 (60 in.)	1600 (63 in.) (*1525 (60 in.))	600 (23-5/8 in.)
Push side	1370 (54 in.)	1250 (49-1/4 in.) (*1220 (48 in.))	300 (11-3/4 in.)
Side-hinged door - Latch-side approach (Figure 4.1.6.2)			
Pull side	1370 (54 in.) (*1220 (48 in.))	1600 (63 in.) (*1525 (60 in.))	600 (23-5/8 in.)
Push side	1370 (54 in.) (*1100 (43-1/4 in.))	1525 (60 in.)	600 (23-5/8 in.)
Side-hinged door - Hinge-side approach (Figure 4.1.6.1)			
Pull side	2440 (96 in.) (*1525 (60 in.))	2440 (96 in.) (*1525 (60 in.))	600 (23-5/8 in.)
Push side	1370 (54 in.) (*1100 (43-1/4 in.))	1830 (72 in.)	450 (17-3/4 in.)
Sliding door (Figure 4.1.6.4)			
Front approach	1370 (54 in.)	1550 (61in.)	300 (11-3/4 in.)
Side approach	1370 (54 in.) (*1100 (43-1/4 in.))	2150 (84-5/8 in.)	600 (23-5/8 in.)

**Table 4.1.6** Manoeuvring Space at Doors

In retrofit situations where it is technically infeasible to provide the required clearances at doors, the clearances may be reduced as shown by the asterix (\*).

# **4.1.6 DOORS**

Frameless glass doors and/or sidelights shall not be used.

Door hardware on all doors throughout a facility (not only those deemed *accessible*), shall comply with the door hardware requirements of this section.

#### **DESIGN REQUIREMENTS**

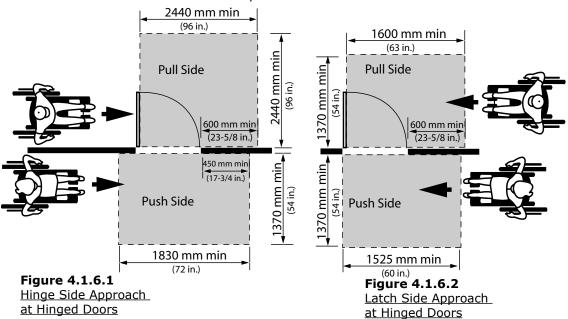
Where permitted, rooms without doors are preferred.

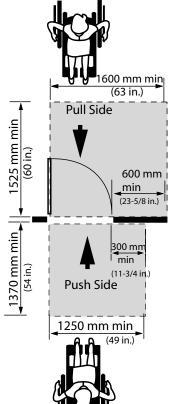
Accessible doors shall be on an accessible route that complies with 4.1.4.

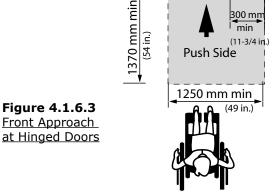
The minimum *clear* opening of doorways shall be 950 mm

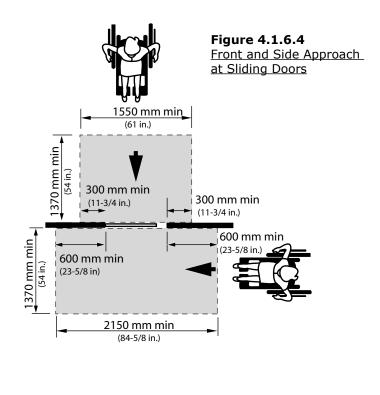
#### 4.1 ACCESS AND CIRCULATION

(37-1/2 in.), measured between the face of the door and the opposite door stop with the door open 90 degrees. In a retrofit situation where it is *technically infeasible* to provide this clearance, the minimum *clear* opening of doorways may be reduced to 860 mm (33-3/4 in.).









# DESIGN REQUIREMENTS (Continued)

Doors shall have level wheelchairmanoeuvring *space* on both sides of the door. Unless equiped with a power door operator, doors shall have a *clear space* beside the latch, as described in Table 4.1.6.

Exception: The *clear space* is not required on the inactive side of a door, where access is provided from one side only - such as to a closet.

The required *clear space* beside the latch is to be unobstructed for the full height of the door.

The minimum space between two hinged or pivoted doors in series shall be 1525 mm (60 in.), plus the width of any door swinging into the space.

# 4.1.6 DOORS

Where doors in a series do not align, a turn circle of at least 1525 mm (60 in.) shall be provided within the vestibule area, clear of any door swing. (See figure 4.1.6.6)

Thresholds shall

- be not more than 13 mm (1/2 in.) high; and
- where over 6 mm (1/4 in.) high, be bevelled at a maximum slope of 1:2 (50%).

Door hardware (operating devices such as handles, pulls, latches, and locks) shall

- be operable by using a closed fist;
- not require fine finger control, tight grasping, pinching, or twisting of the wrist to operate; and
- be mounted between 900 mm (35-1/2 in.) and 1100 mm (43-1/4 in.) from the floor.

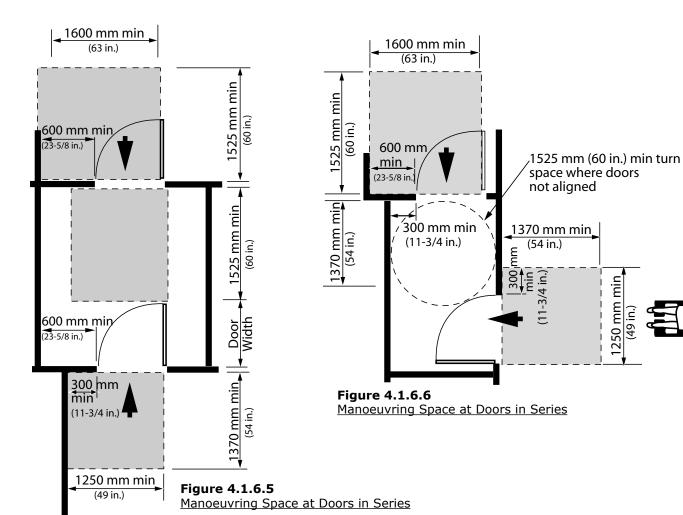
Operating hardware on sliding doors shall be exposed and usable from both sides when sliding doors are fully open.

The maximum door opening force for pushing or pulling open a door shall be no more than

- 38 N (8.5 lb.) for exterior hinged doors;
- 22 N (4.6 lb.) for interior hinged doors; and
- 22 N (4.6 lb.) for sliding or folding doors.

Door closers shall be adjusted to the least pressure possible, but never more than the opening forces noted in this section.

The sweep period of door closers shall be adjusted so that, from an open position of 90 degrees, the door will take not less than 3 seconds to move to a semi-closed position of approximately 12 degrees.



# 4.1.6 DOORS

Power-assisted swinging doors shall

- take not less than 3 seconds to move from the closed to the fully open position; and
- require a force of not more than 66 N (13.8 lb.) to stop door movement.

Permanent mats and metal gratings at entrances and in vestibules shall be sunk level with the floor, so as not to create a tripping hazard. Occasional mats (e.g. runners used in bad weather) should be level with the floor surface and/or have a gently bevelled edge, so as not to create a tripping hazard.

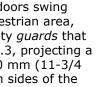
Where manually-activated power door operators are provided they shall

- be clearly visible
- be located to allow a person using a wheelchair or scooter to stop immediately adjacent to the control (refer to 4.1.1) and in a location that is logical and does not require the user to go around the door or an obstacle after activated:
- be located at least 600 mm (23-5/8 in.) from any inside corner;
- be located on the latch side of the door
- where the door opens towards the user, the controls shall be located not less than 600 mm (23-5/8 in.) and not more than 1525 mm (60 in.) beyond the door swing
- incorporate controls that are:
  - minimum 150 mm (5-7/8 in.) in diameter, located with its centre 1000 - 1100 mm (39-3/8 - 43-1/4 in.) above the finished ground/floor surface; OR
  - configured as a vertical bar that is at least 50 mm (2 in.) wide, which can be activated between 200 mm (7-7/8") and 900 mm (35-1/2 in.) above the finished ground/floor surface
- incorprate the International Symbol of Access for Persons with Disabilities:
- where pressure-sensitive mats, overhead beams or proximity scanners are used to detect traffic, incorprate systems that will detect individuals using wheelchairs or scooters; and

where exterior doors swing open into a pedestrian area, incorporate safety guards that comply with 4.1.3, projecting a minimum of 300 mm (11-3/4 in.) beyond both sides of the open door. (See Figure 4.1.6.8)

Where doors are not equipped with a closing device, the edge of door shall be colour contrasted to the face of the door. (See Figure 4.1.6.9)

Doors and/or door frames shall incorporate pronounced colour contrast, to differentiate them from the surrounding environment. Door handles and other operating mechanisms shall incorporate pronounced colour contrast, to differentiate them from the door itself.



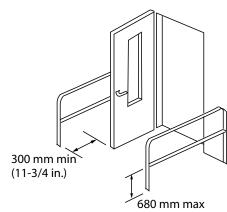


Figure 4.1.6.7 Examples of Accessible Hardware

Figure 4.1.6.8 **Detectable Safety Guards** 

(26-1/2 in.)

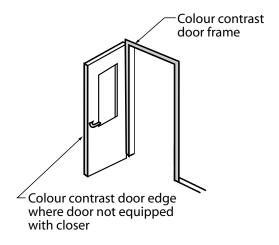


Figure 4.1.6.9 Colour Contrast at Doors

#### 4.1 ACCESS AND CIRCULATION

Where a door incorporates glazing or is fully glazed, it shall comply with Section 4.1.8 (Windows, Glazed Screens and Sidelights).

- 4.1.1 Space and Reach Requirements
- 4.1.7 Gates, Turnstiles and Openinas
- 4.1.8 Windows, Glazed Screens and Sidelights
- 4.4.2 Controls and Operating Mechanisms
- 4.4.7 Signage
- 4.4.10 Information Systems
- 4.4.11 Card Access, Safety and Security Systems

**RATIONALE** 

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#### Gates and turnstiles should address the full range of users that may pass through them. Single-bar gates designed to be at a convenient waist height for ambulatory persons are at neck and face height for children and chest height for persons who

use wheelchairs or scooters.

Revolving turnstiles are a physical impossibility for a person in a wheelchair to negotiate. They are also difficult for persons using canes or crutches, or persons with poor balance. An adjacent opening of an *accessible* width is essential for wheelchair access, as well as access for those using other mobility devices, strollers, walkers or delivery carts.

#### **APPLICATION**

Gates, turnstiles and openings shall comply with this section.

# **DESIGN REQUIREMENTS**

Where gates or openings are provided through fences or screens to *public use* areas, such openings shall be *accessible* (i.e., a minimum of 950 mm (37-1/2 in.) wide, to allow free passage for persons who use a wheelchair or scooter. (Note: Hardware should be suitable for autonomous use, and any closing device should not be spring-loaded).

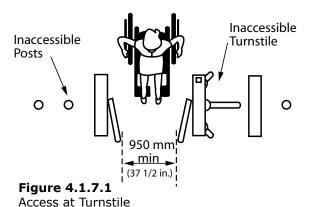
Where turnstiles or other ticketing control devices are utilized which are not *accessible*, a gate or opening which is *accessible* shall be provided in the same location and shall incorporate the International Symbol of Access for Persons with Disabilities.

# 4.1.7 GATES, TURNSTILES AND OPENINGS

Turnstiles shall incorporate a pronounced colour contrast to differentiate them from the surrounding environment.

Where gates are incorporated into a chain-link fencing system, the poles at either side of the gate shall incorporate a pronounced colour contrast from the fence and the surrounding environment.

- 4.1.1 Space and Reach Requirements
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.1.6 Doors
- 4.1.8 Windows, Glazed Screens and Sidelights
- 4.4.2 Controls and Operating Mechanisms
- 4.4.7 Signage
- 4.4.10 Information Systems
- 4.4.11 Card Access, Safety and Security Systems



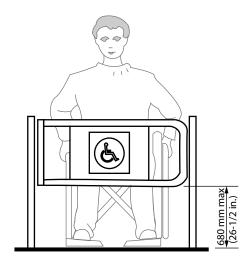


Figure 4.1.7.2 Access at Turnstile

# 4.1.8 WINDOWS, GLAZED SCREENS & SIDELIGHTS

#### **RATIONALE**

Broad expanses of glazing in screens, sidelights and doors can be difficult to detect. While this may be a particular concern to persons with vision loss/no vision, it is possible for anyone to walk into a clear sheet of glazing especially if they are distracted or in a hurry.

Persons who use wheelchairs or scooters experience the *facility* from a seated position thereby lowering their eye level and reach range. This necessitates the need for lower sill heights and easily reached operating mechanisms. Window controls and operating devices should also respect the limitations of hand strength or dexterity encountered with different types of *disabilities*, including arthritis.

#### **APPLICATION**

Windows, glazed screens, fullyglazed sidelights, fully-glazed doors and vision panels in doors shall comply with this section.

Frameless glass doors and/or sidelights shall not be used.

#### **DESIGN REQUIREMENTS**

Fully-glazed doors and sidelights at exterior *entrances* or vestibules, as well as fully-glazed interior doors, screens and sidelights shall be marked with a continuous opaque strip that

- is colour and brightness contrasted to the background of the door;
- is at least 50 mm (2 in.) wide;
- is located across the width of the door at a height of 1350 to 1500 mm (53-1/8 to 59 in.) above the finished floor; and
- may incorporate a logo or symbol provided such logo or symbol does not diminish
  - the opacity of the strip;
  - the width of the strip;
  - the colour and brightness contrast of the strip to the background of the door; and
  - the continuity of the strip across the width of the door.

Optionally, a second row of decals, or a continuous strip, a minimum 50 mm (2 in.) wide and of highly contrasting colour to the background shall be provided, mounted with its centreline between 1170 mm (46 in.) and 1220 mm (48 in.) above the floor or ground.

Where decals are used, they shall be located at a maximum of 150 mm (5-7/8 in.) from centre to centre. The decals can either be 50 mm (2 in.) square or round, and/or of a special design (e.g., a logo) provided the solid portion of the decals provides a high colour contrast and is easy to identify by persons with vision loss/no vision.

Where etched or patterned glass is used, decals or stripes of a highly contrasting colour shall still be provided.

Where frameless glass vision panels are used, exposed edges shall be identified with a vertical safety stripe, applied to cap the ends of each exposed glass panel.

#### 4.1 ACCESS AND CIRCULATION

Where viewing windows or vision panels are provided,

- the sill height shall be no more than 760 mm (30 in.) from the floor; and
- where horizontal transoms are incorporated, the transoms shall not be located between 1060 mm (42 in.) and 1220 (48 in.) from the floor.

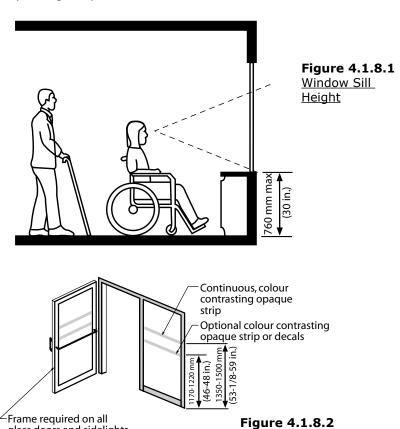
In facilities with operable windows, window opening hardware shall

- be mounted between 400 mm (15-3/4 in.) and 1200 mm (47 in.) from the floor;
- be operable using one hand;
   and
- not require fine finger control, tight grasping, pinching, or twisting of the wrist to operate.

#### **RELATED SECTIONS**

- 4.1.1 Space and Reach Requirements
- 4.4.2 Controls and Operating Mechanisms

Fully Glazed Doors, Sidelights and Vision Panel Markings



glass doors and sidelights

#### **RATIONALE**

Traditionally, ramps have been synonymous with wheelchair accessibility. However, ramps can be problematic in providing accessibility. Ramps can be difficult and dangerous to negotiate. Also, the physical space required for ramps makes them cumbersome to integrate into a facility. However, where a change in level already exists or cannot be avoided, a properly designed *ramp* can provide access for those using wheelchairs or scooters, pushing strollers or moving packages on a trolley.

The design of the ramp is critical to its usefulness and safety. A steeply inclined ramp is difficult to ascend when using a wheelchair, and can increase the risk of the wheelchair tipping backwards. Descending a steep ramp can also be hazardous. Any cross slope will further increase the effort required to negotiate the ramp. Manoeuvring space at the top and bottom are also important factors in a ramps usability. Level areas at points along a long ramp enable an individual to rest.

Textured surfaces, edge protection and handrails all provide important safety features. Heated surfaces are recommended to address the safety concerns associated with snow and ice.

#### **APPLICATION**

Any part of an accessible route with a slope steeper than 1:20 (5%) shall be considered a ramp and shall comply with this section.

#### **DESIGN REQUIREMENTS**

Accessible ramps shall be on an accessible route complying with 4.1.4.

Figure 4.1.9.1

# **4.1.9 RAMPS**

Where an accessible ramp is located in a barrier-free path of travel serving a building entrance, signage in compliance with 4.4.7 shall be installed to indicate the location of the accessible ramp and the accessible entrance.

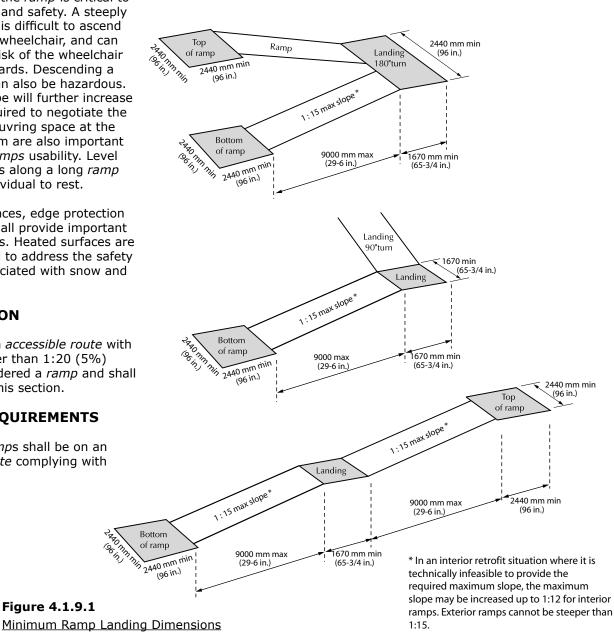
The running slope shall be between 1:20 (5%) and 1:15 (6.7%). In an interior retrofit situation where it is technically infeasible to provide a ramp with a running slope between 1:20 (5%) and 1:15 (6.7%), a running slope not steeper than 1:12 (8%) may be used for interior ramps. Exterior ramps cannot

be steeper than 1:15 (6.7%). Shallower slopes are preferred.

The maximum cross slope of ramp surfaces shall be 1:50 (2%).

Ramps shall have level landings at the top and bottom of each run and also where the ramp changes direction.

The maximum horizontal length between landings shall not exceed 9 m (29'-6").



# **4.1.9 RAMPS**

#### Landings shall

- be at least as wide as the widest ramp run leading to it:
- have a minimum size not less than 2440 x 2440 mm (96 x 96 in.) if located at the top or bottom of a ramp or if served by a doorway. (In a retrofit situation where creating a suitably sized landing is technically infeasible, the required landing size may be reduced to 1670 x 1670 mm.  $(65-3/4 \times 65-3/4 \text{ in.}));$
- where an intermediate landing at the switchback of a U-shaped ramp (Refer to Figure 4.1.9.1), have a length not less than 1670 mm (65-3/4 in.) and a

- width not less than 2440 mm (96 in.). In a retrofit situation where creating a suitably sized landing is technically infeasible, the required landing width may be reduced to 2120 mm (84in);
- where there is a change of 90 degrees or more in the direction of the ramp, have a length not less than 1670 mm (65-3/4 in.) and a width no less than the width of the ramp; and
- where an intermediate landing at a straight ramp (Refer to Figure 4.1.9.1), have a length not less than 1670 mm (65-3/4 in.).

Ramp and landing surfaces shall be firm, stable, and slip-resistant.

#### 4.1 ACCESS AND CIRCULATION

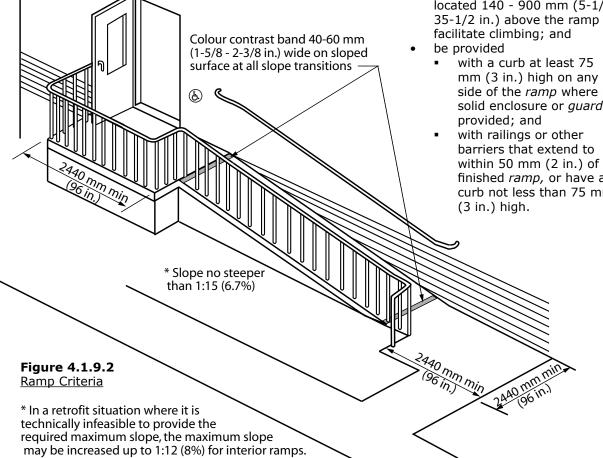
At slope transitions, ramps shall have a 40 - 60 mm (1-5/8 - 2-3/8 in.) wide colour-contrasted strip across the width of the ramp, located on the sloped surface.

Outdoor ramps and their approaches shall be designed so that water will not accumulate on walking surfaces.

Ramps and landings forming part of a ramp shall be protected by a wall or guard on both sides.

Where a guard is provided, it shall

- comply with the requirements of the Ontario Building Code;
- have a minimum height of 1070 mm (42-1/8 in.) measured vertically from the ramp surface to the top of the quard;
- be designed so that no member located 140 - 900 mm (5-1/2 -35-1/2 in.) above the ramp will facilitate climbing; and
  - mm (3 in.) high on any side of the ramp where no solid enclosure or *quard* is provided; and
  - barriers that extend to within 50 mm (2 in.) of the finished ramp, or have a curb not less than 75 mm (3 in.) high.



Exterior ramps cannot be steeper than 1:15 (6.7%).

# **DESIGN REQUIREMENTS** (Continued)

Ramps shall be equipped with handrails which:

- are on both sides;
- comply with 4.1.12;
- are continuous on the inside of switchback (U-shaped) or L-shaped ramps;
- extend horizontally at least 300 mm (11-3/4 in.) beyond the top and bottom of the ramp and return to the wall, floor, or post;
- measure between 865 mm (34 in.) and 920 mm (36 in.) from the ramp surface to the top of the handrail, except handrails not meeting these requirements are permitted if installed in addition of the required handrail;

# **4.1.9 RAMPS**

- have a width between at least one set of handrails of 950 mm
   1200 mm (37-1/2 to 48 in.); and
- terminate to a wall, floor, post or other manner that will not obstruct pedestrian travel or create a hazard.

Where ramps are greater than 2200 mm (86-5/8 in.) wide, one or more intermediate handrails which are continuous between landings must be provided and located so that there is 900 mm (35-1/2 in.) between at least one set of handrails.

EXCEPTION: Where a *ramp* serves as an aisleway for fixed seating, the requirement for *ramp handrails* does not apply.

Designated areas for snow piling to be provided at exterior ramps, located away from pedestrian routes.

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.1.6 Doors
- 4.1.10 Curb Ramps
- 4.1.12 Handrails
- 4.4.7 Signage
- 4.4.8 Detectable Warning Surfaces
- 4.4.12 Glare and Light Sources
- 4.4.13 Lighting
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour

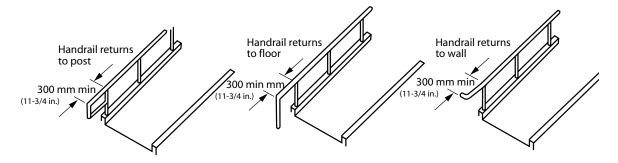
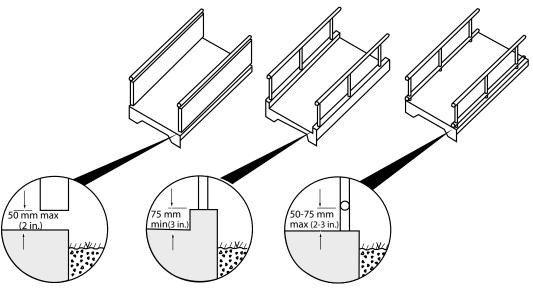


Figure 4.1.9.3
Horizontal Handrail
Extensions



**Figure 4.1.9.4**Edge Protection at Ramps

# 4.1.10 CURB RAMPS

#### **RATIONALE**

In the interest of moving people safely and efficiently off a roadway, the design of curb ramps is very important. The same issues related to the slopes of ramps apply equally to slopes of curb ramps. A welldesigned curb ramp can be spoiled by an uneven or gapped transition between the road surface and curb ramp. Flared sides on the curb ramp eliminate the hazard of pedestrians stepping off of an edge. While a smooth transition and minimal slope are ideal for someone in a wheelchair, they are a potential hazard to an individual with vision loss/no vision who may not notice the transition from sidewalk to street. Textured surfaces become an important safety feature in this scenario.

Snow accumulation at curb ramps should be removed completely after each snow fall.

#### **APPLICATION**

Curb ramps complying with this section shall be provided wherever any path of travel crosses a curb.

#### **DESIGN REQUIREMENTS**

Accessible curb ramps shall be on an accessible route complying with 4.1.4.

Accessible curb ramps shall align with the safe pedestrian crossing route across the vehicle roadway.

The running slope shall be between 1:50 and 1:20 (2%-5%). In a retrofit situation where it is technically infeasible to achieve

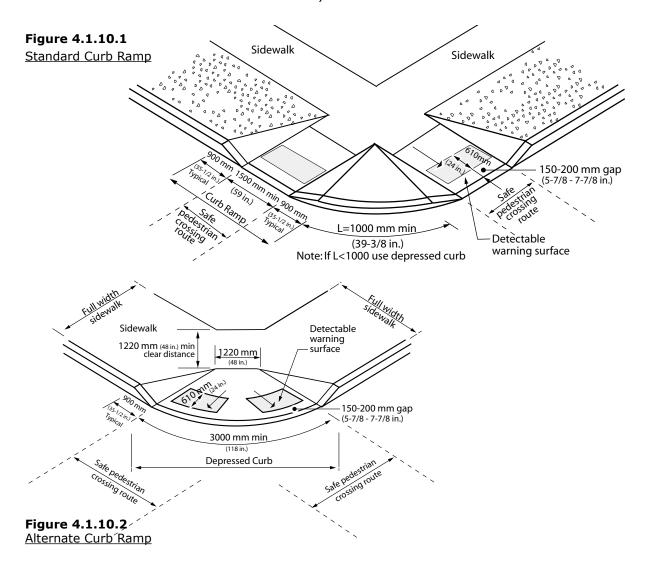
#### 4.1 ACCESS AND CIRCULATION

these slopes, a *running slope* no steeper than 1:12 (8%) may be used. The maximum cross slope shall be no more than 1:50 (2%).

The minimum width of *curb ramps*, exclusive of flared sides, shall be 1500 mm (59 in.), except where the Depressed Curb configuration is used (Refer to Figure 4.1.10.2), where the minimum width at the top of the ramp may be reduced to 1220 mm (48 in.).

Flared sides shall typically be 900 mm (35-1/2 in.) as illustrated, measured at the curb location, with a slope not more than 1:12 (8.3%) where pedestrians are likely to walk across them.

Curb ramp configuration shall be as illustrated in Figures 4.1.10.1 to 4.1.10.7.



# 4.1.10 CURB RAMPS

# **DESIGN REQUIREMENTS** (Continued)

The maximum cross fall of gutters and road surfaces immediately adjacent to *curb ramps* shall be 1:20 (5%).

Curb ramps at pedestrian crosswalks shall be wholly contained within the area designated for pedestrian use.

Surfaces of *curb ramps* shall

- be slip-resistant; and
- incorporate a truncated dome detectable warning surface
  - in compliance with 4.4.8;
  - be located at the bottom portion of the *curb ramp*;
  - 610 mm (24 in.) in depth, starting 150-200 (5-7/8 to 7-7/8 in) back from the edge of the curb;
  - extending the entire width of the ramp; and
  - have a smooth transition from the ramp and adjacent surfaces.

Designated areas for snow piling to be provided at all curb ramps, located away from pedestrian routes. Depressed Curbs:

Where a *depressed curb* is provided on an exterior *path of travel*, the depressed curb shall

- have a maximum running slope of 1:20 (5%);
- be aligned with the direction of travel; and
- where provided at a pedestrian crossing, it shall incorporate a flat-topped domes or cones detectable warning surface that
  - complies with section 4.4.8;
  - is located at the bottom portion of the depressed curb that is flush with the roadway;
  - is set back 150 200 mm (5-7/8 - 7-7/8 in.) from the curb edge; and
  - is a minimum of 610 mm (24 in.) in depth.



- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.4.8 Detectable Warning Surfaces
- 4.4.12 Glare and Light Sources
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour

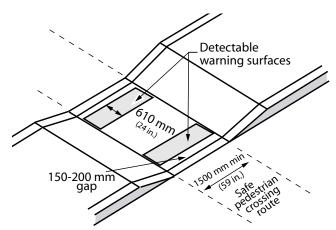


Figure 4.1.10.3

<u>Curb Ramp at Narrow</u>

Median Sidewalk Crossing

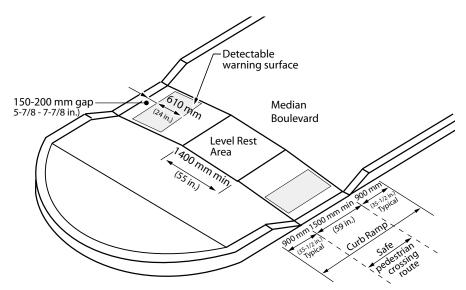


Figure 4.1.10.4

<u>Curb Ramp at Wide</u>

<u>Median Sidewalk Crossing</u>

# **4.1.10 CURB RAMPS**

#### 4.1 ACCESS AND CIRCULATION

at Pavement

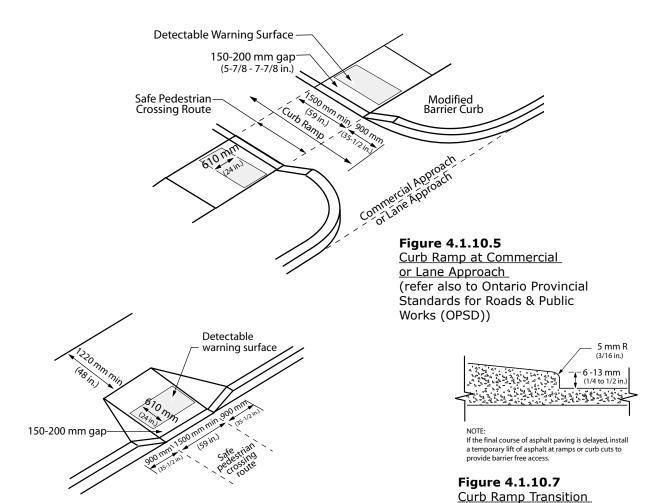


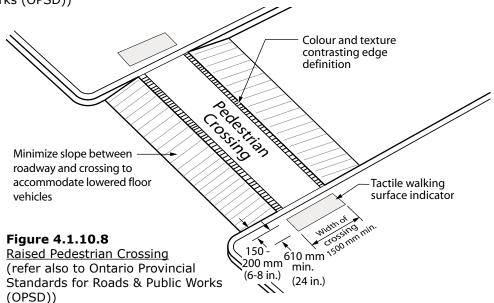
Figure 4.1.10.6

Curb Ramp at

Mid-Block Crossing

(refer also to Ontario Provincial Standards for Roads &

Public Works (OPSD))



# **4.1.11 STAIRS**

#### **RATIONALE**

Stairs that are comfortable for many adults may be challenging for children, seniors or persons of short stature. Poorly designed nosings can present tripping hazards, particularly to persons with prosthetic devices or those using canes. Cues to warn a person with vision loss/no vision of an upcoming set of stairs are vitally important.

The appropriate application of *handrails* will aid all users navigating stairways.

#### **APPLICATION**

Interior and exterior stairs shall comply with this section. In a retrofit situation

- stairs need not comply if they connect levels that are accessible by an elevator, ramp or other accessible means of vertical access; and
- dimensional changes to steps and landings are not required however all other design requirements must be met.

#### **DESIGN REQUIREMENTS**

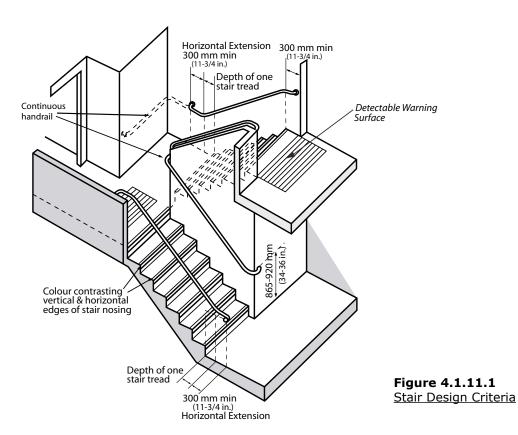
A flight of stairs shall

- have uniform riser heights (rise) and uniform tread depths (run);
- have a rise not more than 180 mm (7 in.) and not less than 125 mm (4-7/8 in.) high;
- have a run not more than 355 mm (14 in.) and not less than 280 mm (11 in.) deep, measured from riser to riser;
- incorporate detectable warning surfaces in compliance with 4.4.8.;
- have tread surfaces that are slip-resistant; and
- have no open risers.

Nosings shall

- project not more than 25 mm (1 in.);
- have no abrupt undersides;
- have a curved or bevelled leading tread edge of between 6 mm (1/4 in.) and 10 mm (3/8 in.);
- where projecting, be sloped to the riser at an angle not less than 60 degrees to the horizontal;
- be illuminated to a level of at least 100 lux (9.2 ft-candles);
- have a slip-resistant finish; and
- have the horizontal surface of the stair nosing in colour contrast with the remainder of the tread.

Stairs shall incorporate *detectable* warning surfaces in compliance with with 4.4.8.



# **4.1.11 STAIRS**

Handrails for stairs shall

- comply with 4.1.12;
- be installed on both sides;
- be of uniform height, ranging between 865 mm (34 in.) and 920 mm (36 in.) above the stair nosing;
- have a continuous inside handrail on switchback stairs;
   and
- extend at the bottom of the stairs for a distance of one tread depth beyond the first riser, then horizontally not less than 300 mm (11-3/4 in.), at a height ranging between 865 mm (34 in.) and 920 mm (36 in.) above the floor;
- extend horizontally at the top of the stairs not less than 300 mm (11-3/4 in.), at a height ranging between 865 mm (34 in.) and 920 mm (36 in.) above the floor; and
- return to the wall, or post in a manner that will not obstruct pedestrian travel or create a hazard.

Stairs and landings forming part of a stair shall be protected by a wall or *guard* on both sides.

Where a *guard* is provided, it shall

- comply with the requirements of the Ontario Building Code;
- have a minimum height of 900 mm (35-1/2 in.) measured vertically to the top of the guard from a line drawn through the outside edge of stair nosings; and
- have a minimum height of 1070 mm (42-1/8 in.) around landings.

Where stairs are greater than 2200 mm (86-5/8 in.) wide, one or more intermediate *handrails* which are continuous between landings must be provided and located so that they are no more than 1650 mm (65 in.) apart and there is 900 mm (35-1/2 in.) between at least one set of *handrails*.

Designated areas for snow piling to be provided at exterior stairs, located away from pedestrian routes.

# 4.1 ACCESS AND CIRCULATION

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.1.6 Doors
- 4.1.12 Handrails
- 4.4.7 Signage
- 4.4.8 Detectable Warning Surfaces
- 4.4.12 Glare and Light Sources
- 4.4.13 Lighting
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour

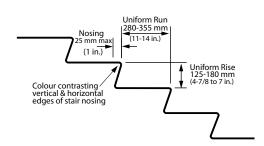


Figure 4.1.11.2 Stair Tread Criteria

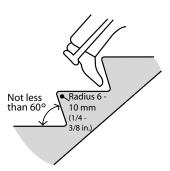


Figure 4.1.11.3 Raked Riser

# 4.1.12 HANDRAILS

#### **RATIONALE**

In the design of handrails, consideration must be given to the range of hands that will grasp them. A handrail profile should be graspable for an adult hand as well as a child or a person with arthritis. The same is true for the heights of handrails.

Extensions of the handrails at the top and bottom of stairs, along with the use of a contrasting colour, provide important cues for a person with vision loss/no vision, and provide a support to ensure a safe and stable gait before ascending or descending the stairs. A continuous handrail with no interruptions ensures that a handhold will not be broken.

The *clear space* between the wall and *handrail* is also essential, as it must provide a *clear* area for the hand and knuckles but must not offer enough space into which an arm may slip during a fall or stumble on the stairs.

#### **APPLICATION**

Handrails shall comply with this section.

# Smooth wall finish (1-3/16 to 1-9/16 in.) Smooth wall finish (2 in.)

Figure 4.1.12.1 Handrail

#### **DESIGN REQUIREMENTS**

Handrails shall

- be mounted 865 920 mm
   (34-36 in.) high, measured
   vertically from a line drawn
   through the outer edges of the
   stair nosings or from the surface
   of a ramp, except handrails not
   meeting these requirements are
   permitted if installed in addition
   to the required handrail;
- have a circular section 30-40 mm (1-3/16 in. 1-9/16 in.) in diameter or any non-circular shape, with a graspable portion that has a perimeter not less than 100 mm (4 in.) and not more than 125 mm (5 in.) whose largest cross-sectional dimension is not more than 45 mm (1-3/4 in.);
- be free of any sharp or abrasive elements;
- have continuous gripping surfaces, without interruption by newel posts, other construction elements, or obstructions that can break a handhold;
- have a clear space between the handrail and the wall or guard of
  - at least 50 mm (2 in.); or
  - at least 60 mm (2-3/8 in.) where the wall has a rough surface;
- extend parallel to the floor or ground surface a minimum distance of 300 mm (11-3/4 in.) beyond the beginning or end of a stair or ramp section; and

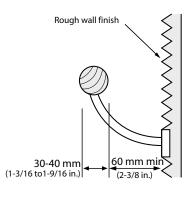


Figure 4.1.12.2 Handrail at Rough Wall

 terminate to a wall, floor, post or other manner that will not obstruct pedestrian travel or create a hazard.

A recess containing a handrail shall extend at least 450 mm (17-3/4 in.) above the top of the rail.

Handrails and their supports shall be designed and constructed to withstand the loading values obtained from the nonconcurring application of

- a concentrated load of not less than 0.9 kN (200 lb.) applied at any point and in any direction;
- a uniform load of not less than 0.7 kN/m (47 lb./ft.) applied in any direction to the handrail.

Handrails shall incorporate a pronounced colour contrast, to differentiate them from the surrounding environment.

- 4.1.1 Space and Reach Requirements
- 4.1.9 Ramps
- 4.1.11 Stairs
- 4.4.15 Texture and Colour

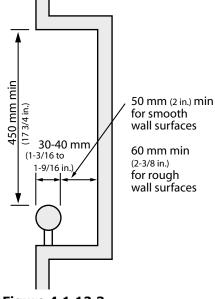


Figure 4.1.12.3 Handrail in Recess

# 4.1.13 ESCALATORS

#### 4.1 ACCESS AND CIRCULATION

#### **RATIONALE**

Boarding and stepping off of an escalator can be challenging for many persons who could have difficulty with the timing or agility. In addition, any lack of contrast on the edge of steps makes it difficult to determine the position of the steps or judge their speed. Detectable warning surfaces extending in front of the escalator provide warning to any pedestrian, especially someone with vision loss/no vision. Contrasting colour strips on stair edges are also necessary.

#### **APPLICATION**

Escalators shall comply with this section.

Where escalators are provided, an alternate *accessible route* shall also be provided in the same vicinity as the escalator.

In a building in which an escalator or inclined moving walkway provides access to any floor level above or below the entrance floor level, an interior barrier-free path of travel shall be provided to that floor level.

The route from the escalator or inclined moving walkway to the barrier-free *path of travel* shall be clearly indicated by appropriate signs.

In a building in which a moving walkway provides access between areas on the same floor level, a barrier-free *path of travel* shall be provided between the areas served by the *walkway*.

### **DESIGN REQUIREMENTS**

Escalator installations shall include high definition (colour contrast) of tread edges and nosing.

Detectable warning surfaces in compliance with 4.4.8 shall be provided at the head and foot of the escalator.

The surface of escalator treads shall be in a matte finish, to minimize reflected glare.

Lighting over escalators shall be a minimum of 200 lux (18.4 ft-candles), evenly distributed, from a low-glare light source.

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.4.7 Signage
- 4.4.8 Detectable Warning Surfaces
- 4.4.12 Glare and Light Sources
- 4.4.13 Lighting
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour

#### **RATIONALE**

The buttons used on elevators need to address a range of functional issues, including reach, dexterity and vision loss/no vision, as discussed in 4.4.2 and 4.4.15. More specific to elevators is the need to provide audible cues for individuals with vision loss/no vision to identify different floor levels, as well as the direction of travel. These are, in fact, of benefit to anyone who uses the elevator. Adequate door-closing delays provide individuals using mobility devices additional time to reach, enter or exit the elevator car. The installation of a mirror can assist individuals using mobility devices to back out of an elevator where there is not sufficient space to turn around.

#### **APPLICATION**

One passenger elevator complying with this section shall serve each level, including *mezzanines*, in all multi-storey facilities, unless exempted below. If more than one elevator is provided, each passenger elevator shall comply with this section.

Freight elevators shall not be required to meet the requirements of this section, unless the only elevators provided are used as combination passenger and freight elevators for use by the public and employees.

Elevator access is not required:

- in elevator pits, elevator penthouses, mechanical rooms, piping or equipment catwalks;
- when accessible ramps in compliance with 4.1.9 are used in lieu of an elevator;
- to levels of fire halls and ambulance stations not served by grade-level entry, which do not contain public use facilities; and
- when platform lifts (wheelchair lifts) in compliance with 4.1.15 and applicable Provincial Codes are used in lieu of an elevator, only under the following conditions:
  - to provide an accessible route to a performing area in an assembly occupancy;

# 4.1.14 ELEVATORS

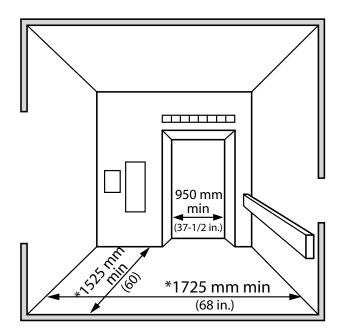


Figure 4.1.14.1 Elevator Cab

\* In high-use public facilities, increase minimum dimensions to  $2030 \times 1525 \text{ mm}$  (80 x 60 in.) with a clear door opening width of at least 1065 mm (42 in.)

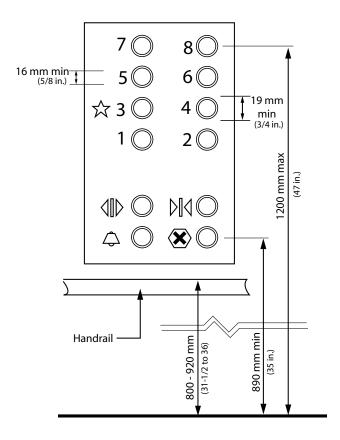


Figure 4.1.14.2 Control Panel

# 4.1.14 ELEVATORS

- to comply with wheelchair viewing position lineof-sight and dispersion requirements of 4.3.2;
- to provide access to incidental occupied spaces and rooms that are not open to the general public and which house no more than five persons, including, but not limited to, equipment control rooms and projection booths; and
- to provide access to raised judges' benches, clerks' stations, speakers' platforms, jury boxes and witness stands or to depressed areas, such as the well of a court.

# **DESIGN REQUIREMENTS**

Accessible elevators shall be on an accessible route in compliance with 4.1.4.

Accessible elevators shall be identified by signage incompliance with applicable provisions of 4.4.7.

Elevators shall be automatic and be provided with a two-way automatic-levelling device to maintain the floor level to  $\pm$  13 mm (1/2 in.).

Power-operated horizontally sliding car and landing doors opened and closed by automatic means shall be

The *clear* width for elevator doors shall be minimum 950 mm (37-1/2 in.). In a retrofit situation where it is *technically infeasible* to provide a *clear* width of 950 mm (37-1/2 in.), the *clear* elevator door width may be reduced to 900 mm (35-1/2 in.). In high-use public facilities, the door clear opening width should be not less than 1065 mm (42 in.).

Doors shall be provided with a door re-opening device that will function to stop and reopen the car door and an adjacent hoist way door to minimum 950 mm (37-1/2 in.), in the event the car door is obstructed while closing. This re-opening device shall also be capable of sensing an object or person in the path of a closing door at a nominal  $125 \pm 25$  mm ( $5 \pm 1$  in.) and  $735 \pm 25$  mm ( $29 \pm 1$  in.) above the floor without requiring contact for activation.

Elevator doors should remain fully open for minimum 8 seconds. This time may be reduced by operation of the door-close button.

The minimum distance between the walls or between wall and door, excluding return panels, shall not be less than 1725 x 1525 mm (68 in. x 60 in.). In facilities with high public use, such as arenas, libraries or entertainment

# 4.1 ACCESS AND CIRCULATION

complexes, the distance between walls or between wall and door shall be 2030 x 1525 mm (80 in. x 60 in.). Exception: In a retrofit situation where it is technically infeasible to install an appropriately sized elevator, a LU/LA (Limited Use/Limited Application) elevating device with a platform length of at least 1525 mm (60 in.), may be used. For City of Mississauga facilities, on a go forward basis, LU/LA's shall not be installed in new buildings or major renovations. Instead, an elevator is recommended.

Car controls shall be readily accessible from a wheelchair upon entering an elevator.

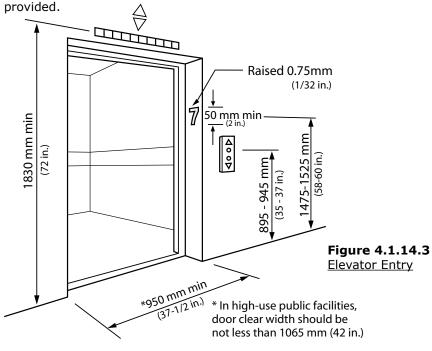
Floor register buttons in elevator cabs shall

- be a minimum 19 mm (3/4 in.) in size and may be raised, flush or recessed. The depth of flush or recessed buttons when they are being operated shall not exceed 10 mm (3/8 in.); and
- be provided with visual and momentary audible indicators to show when each call is registered. The visual indicators shall be extinguished when each call is answered.

All car control buttons shall be designated by Grade 2 Braille characters and by raised standard alphabet characters for letters, Arabic characters for numbers, and standard symbols. Markings shall be a minimum of 16 mm (5/8 in.) high and raised a minimum of 0.75 mm (1/32 in.), placed immediately to the left of the buttons to which they apply.

Exception: Where the call buttons are mechanical, the raised markings may be on the buttons.

Emergency car controls and dooroperating buttons shall be grouped together at the bottom of the control panel. The centre line of the alarm button and the emergency stop switch shall be not less than 890 mm (35 in.) above the floor. The centre line of the highest floor button shall be no higher than 1200 mm (47 in.) above the floor. Other controls may be located where it is convenient.



#### 4.1 ACCESS AND CIRCULATION

# **DESIGN REQUIREMENTS** (Continued)

An indicator shall be provided in the car to show the position of the car in the hoist way, by illuminating the indicator corresponding to the landing at which the car is stopped or passing. Indication characters shall be on a contrasting colour background and a minimum of 16 mm (5/8 in.) high.

Floors of elevator cabs shall have a firm and slip-resistant surface that permits easy movement of wheelchairs or scooters.

Handrails shall be provided on all non-access walls at a height of 800 to 920 mm (31-1/2 to 36 in.) with a *space* of 40 to 45 mm (1-9/16 to 1-3/4 in.) between the rails and wall.

The illumination at the car controls and landing sill shall be not less than 100 lux (10 ft-candles).

The centre line of hall call buttons shall be  $920 \pm 25$  mm ( $36 \pm 1$  in.) above the floor. Buttons shall be a minimum of 20 mm (13/16 in.) in size, mounted one above the other.

Hall visual indication shall be provided to show each call that is registered and that is extinguished when the call is answered.

Hall or in-car lanterns shall be provided. The centre line of the fixture shall be a minimum of 1830 mm (72 in.) above the floor. An audible signal shall be provided when the elevator stops at the landing. Visual *elements* shall be a minimum of 60 mm (2-3/8 in.) in the smallest direction.

All elevator hoist way *entrances* shall have raised Arabic numerals and Braille floor designations provided on both jambs. The characters shall be a minimum of 50 mm high (2 in.) and raised at least 0.75 mm (1/32 in.) and shall be placed on both sides of the door jambs, with the centreline at 1500  $\pm$  25 mm (59  $\pm$  1 in.) from the floor.

# 4.1.14 ELEVATORS

As the car stops at a floor, the floor and direction of travel shall be announced using voice-annunciation technology.

Elevators shall be linked by an emergency call system to a monitored location within the facility with two-way communication ability. The highest operable portion of the 2-way communication system shall be a maximum of 1200 mm (47 in.) above the floor of the car. It shall be identified by a raised symbol and lettering located adjacent to the device. The symbol shall be a minimum of 38 mm (1-1/2 in.) high and raised a minimum of 0.75 mm (1/32 in.). Permanently attached plates are acceptable. If the system uses a handset, then the length of the cord from the panel to the handset shall be minimum 735 mm (29 in.). Additionally, the handset shall be equipped with a receiver that generates a magnetic field in the area of the receiver cap, and the handset shall have a volume control and shall comply with CSA Standard T515. If the system is located in a closed compartment, the compartment door and hardware shall conform to 4.4.2. The emergency intercommunication system shall not require voice communication.

Lighting in elevator cabs shall be minimum 100 lux (9.2 ft-candles), measured at the floor level and at the same lighting level as the adjacent lobby *space*.

Mirrors shall not be used below a height of 2000 mm (78-3/4 in.) within elevator cabs as a finish material on the wall opposite the door.

Where the dimension of elevator cabs is less than 1500 mm (59 in.) in any direction, an angled mirror shall be provided above a height of 2000 mm (78-3/4 in.) on the wall opposite the door, to assist persons who use wheelchairs to back out.

Floor finishes within elevator cabs shall comply with 4.1.2.

Where an elevator serves only two floors, it shall be programmed to move automatically, without the need to activate in-car control buttons.

Elevator doors shall incorporate pronounced colour contrast, to differentiate them from the surrounding environment.

There shall be a pronounced colour contrast between the car sill and the facility floor.

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.1.6 Doors
- 4.1.12 Handrails
- 4.1.15 Platform Lifts
- 4.4.2 Controls and Operating Mechanisms
- 4.4.7 Signage
- 4.4.9 Public Address Systems
- 4.4.11 Card Access, Safety and Security Systems
- 4.4.12 Glare and Light Sources
- 4.4.13 Lighting
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour

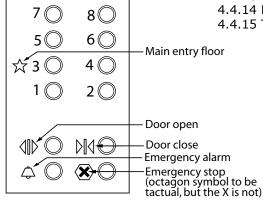


Figure 4.1.14.4
Tactile Symbols

# 4.1.15 PLATFORM LIFTS

#### **RATIONALE**

Platform lifts are typical in retrofit applications. Elevators that are used by all facility users are preferred to platform lifts which tend to segregate persons with disabilities and limit space at *entrance* and stair locations. Furthermore, independent access is often compromised, as platform lifts are often controlled by key operation. Whenever possible, grading or integrated elevator access should be incorporated to avoid the use of lifts.

If there are no suitable alternatives, lifts must be selected to permit the spatial requirement of larger mobility devices such as scooters.

#### **APPLICATION**

Accessible platform lifts shall comply with this section.

Platform lifts may only be used in lieu of an elevator or *ramp* where allowable under 4.1.14. Exception: Where it is *technically infeasible* to install an elevator, LU/LA (Limited Use/Limited Application) elevating device, or other *accessible* means of change of level.

#### **DESIGN REQUIREMENTS**

Accessible platform lifts shall

- be on an accessible route complying with 4.1.4;
- be identified with signage complying with applicable provisions of 4.4.7;
- comply with CSA standard CAN/ CSA B355 (latest edition); and
- facilitate unassisted entry, operation, and exit from the lift.

The platform size shall be no less than  $890 \times 1525 \text{ mm}$  (35 x 60 in.).

The platform shall incorprate safety wheel-guards along all exposed edges.

The doors to the platform lift shall comply with 4.1.6.

Controls and operating mechanisms shall comply with 4.4.2.

Platform lifts shall be linked by an emergency call system to a monitored location within the facility, with two-way communication ability. The highest operable portion of the two-way communication system shall be a maximum of 1200 mm (47 in.) from the floor of the platform. If the

#### 4.1 ACCESS AND CIRCULATION

system uses a handset, then the length of the cord from the panel to the handset shall be at least 735 mm (29 in.). If the system is located in a closed compartment, the compartment door and hardware shall conform to 4.4.2.

Floor finishes within platform lifts shall comply with 4.1.2 and 4.4.14.

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.1.6 Doors
- 4.1.12 Handrails
- 4.1.14 Elevators
- 4.4.2 Controls and Operating Mechanisms
- 4.4.7 Signage
- 4.4.9 Public Address Systems
- 4.4.11 Card Access, Safety and Security Systems
- 4.4.12 Glare and Light Sources
- 4.4.13 Lighting
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour

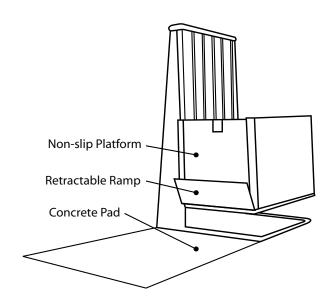


Figure 4.1.15.1 Vertical Platform Lift

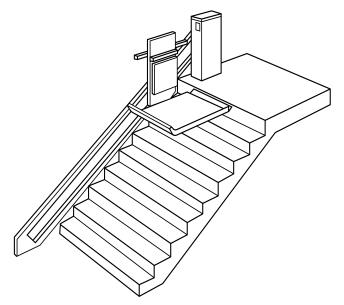


Figure 4.1.15.2
Inclined Platform Stair-Lift

# 4.2.1 TOILET FACILITIES

#### **RATIONALE**

As an integral feature of a facility, washroom facilities should accommodate the range of people that will use the space. Although many persons with disabilities use toilet facilities independently, some may require assistance. Where the individual providing assistance is of the opposite gender then typical gender-specific washrooms are awkward and an individual washroom is preferred.

Parents and caregivers with small children and strollers may also benefit from a large, individual washroom with toilet and change facilities contained within the same space.

Circumstances such as wet surfaces and the act of transferring between toilet and wheelchair or scooter can make toilet facilities accident-prone areas. An individual falling in a washroom with a door that swings inward could prevent his or her own rescuers from opening the door. Due to the risk of accidents, design decisions such as door swings and material finishes have safety implications and therefore make toilet *facilities* a prime location for emergency call switches. The appropriate design of all features will increase the usability and safety of all toilet facilities.

The identification of washrooms involves design issues that must be considered. For children or someone who cannot read text, a symbol or pictogram is preferred. A person with vision loss/no vision would also benefit from accessible *signage*. Features such as colour-contrasting door frames and door hardware will also increase accessibility.

#### **APPLICATION**

Where toilet facilities are provided, each public or common use toilet facility shall comply with this section. Other toilet rooms provided for the use of occupants of specific spaces (i.e. a private toilet room for the occupant of a private office) shall be adaptable.

In a retrofit situation where it is technically infeasible to make existing public or common use toilet facilities accessible, the installation of at least one universal washroom per floor and in compliance with 4.2.7, located in the same area as existing toilet facilities, will be permitted in lieu of modifying existing toilet facilities to be accessible.

In addition to any accessible public or common use toilets, at least one universal washroom in compliance with 4.2.7 shall be provided in all public buildings and on every floor level in assembly areas where the floor incorporates common or public use washroom facilities containing four or more toilet and/or urinal fixtures.

The minimum number of universal washrooms per building shall be as shown on Table 4.2.1.

The minimum number of accessible toilet stalls within washrooms shall comply with 4.2.2.

If individual washrooms are not visible from the common or *public use* washrooms, directional *signage* in compliance with 4.4.7 shall be provided.

For public buildings, washrooms that open onto after hours public outdoor or indoor space is beneficial.

Where bathing facilities are provided on a site, in conjunction with or in addition to toilet facilities, each such public or common use bathing facility shall comply with this section in addition to 4.2.8, 4.2.9, and other applicable sections of this standard.

For single-user portable toilet units clustered at a single location, a minimum of 5% but no less than one toilet unit in compliance with this section shall be provided at clusters wherever typical inaccessible units are provided. (Exception: Portable toilet units at construction *sites* used exclusively by construction personnel are not required to comply with this section.)

Where a universal washroom is provided primarily for the use of persons of both genders with physical disabilities, in lieu of facilities for persons with physical disabilities in washrooms used by the general public, the individual washroom shall be provided on the same floor level within 45 m (147 ft. 8 in.) of the washrooms used by the general public.

Number of storeys in Building	Minimum number of Universal Washrooms per <i>Building</i>
1 to 3	1
4 to 6	2
Over 6	3, plus 1 for each additional increment of 3 storeys in excess of 6 storeys

**Table 4.2.1**<u>Minimum number of Universal Washrooms</u>
<u>per building</u>

# **4.2.1 TOILET FACILITIES**

# **DESIGN REQUIREMENTS**

Accessible toilet facilities shall

- be on an accessible route complying with 4.1.4;
- be identified with signage complying with applicable provisions of 4.4.7;
- incorporate a clear floor space to allow a person in a wheelchair to make a 180degree turn; and
- incorporate even illumination throughout of at least 200 lux (20 ft-candles).

All entrance doors to *accessible* toilet rooms shall

- comply with 4.1.6;
- not swing into the clear floor space required for any fixture;
- have a minimum 1700 mm (67 in.) clearance between the inside face of an in-swinging entrance door and the outside face of an adjacent toilet stall.

Accessible fixtures and controls within toilet and bathing rooms shall

- be on an *accessible route* complying with 4.1.4.
- have a minimum clearance of 1400 mm (55 in.) between the outside face of the accessible stall and any wall-mounted fixture or obstruction, with a preferred clearance of 1525 mm (60 in.).

#### 4.2 WASHROOM FACILITIES

#### **RELATED SECTIONS**

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.1.3 Protruding and Overhead Objects
- 4.1.6 Doors
- 4.2.2 Toilet Stalls
- 4.2.3 Toilets
- 4.2.4 Lavatories
- 4.2.5 Urinals
- 4.2.6 Washroom Accessories
- 4.2.7 Universal Washrooms
- 4.2.8 Bathtubs
- 4.2.9 Showers
- 4.2.10 Grab Bars
- 4.4.2 Controls and Operating Mechanisms
- 4.4.7 Signage
- 4.4.12 Glare and Light Sources
- 4.4.13 Lighting
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour

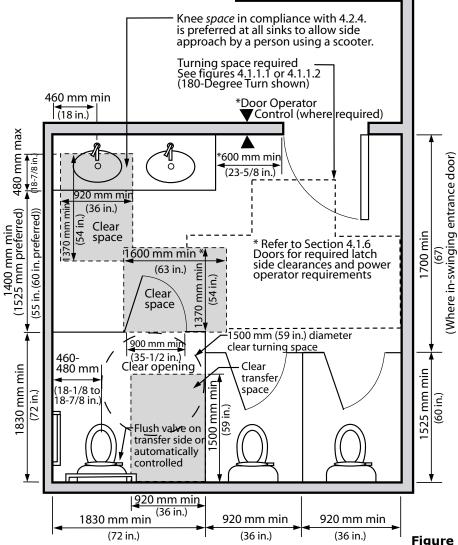


Figure 4.2.1.1
Washroom Dimensions

Refer to Section 4.2.2 Toilet Stalls for accessible toilet stall requirements.

#### **RATIONALE**

Manoeuvrability of a wheelchair or scooter is the principal consideration in the design of an *accessible* stall. The increased size of the stall is required to ensure there is sufficient *space* to facilitate proper placement of a wheelchair or scooter to accommodate transfer onto the toilet fixture. Not only is *space* required for mobility equipment, there may also be instances where an individual requires assistance and the stall will have to accommodate a second person.

Door swings are normally outward for safety reasons and *space* considerations, but this makes it difficult to close the door once inside. A handle mounted part way along the door makes it easier for someone to close the door behind them.

Minimum requirements for non-accessible toilet stalls are included to ensure that persons who do not use wheelchairs or scooters can be adequately accommodated within any toilet stall. Universal features include accessible hardware and a minimum stall width to accommodate persons of large stature or parents with small children.

# **APPLICATION**

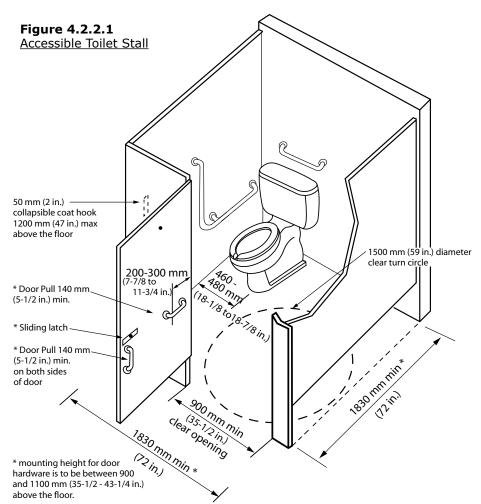
Accessible toilet stalls shall comply with this section.

Where toilet stalls are provided in a toilet or bathing *facility*, then the number of *accessible* toilet stalls designated to accommodate persons with *disabilities* shall comply with Table 4.2.2.

# **4.2.2 TOILET STALLS**

All other toilet stalls within a *facility* (i.e., those considered to be non-accessible) shall be minimum 920 mm (36 in.) wide by 1525 mm (60 in.) long, and shall incorporate door-locking mechanisms in compliance with this section.

At least one toilet stall within each non-accessible washroom shall be designated as an ambulatory toilet stall and shall comply with the ambulatory stall requirements of this section.



# of toilet stalls within the washroom	Required # of accessible toilet stalls
1 - 5	1
5 - 16	2
17 - 20	3
21 - 30	4
over 30	5 plus 1 for each additional increent of 10

Table 4.2.2 Number of Accessible Toilet Stalls

# **4.2.2 TOILET STALLS**

# **DESIGN REQUIREMENTS**

Accessible toilet stalls shall

- be on an *accessible route* in compliance with 4.1.4.
- have internal dimensions at least 1830 x 1830 mm (72 x 72 in.);
- have a clear turning space within the stall of at least 1500 mm (59 in.) in diameter;
- have a toilet fixture in compliance with 4.2.3;
- be equipped with a collapsible coat hook mounted not more than 1200 mm (47 in.) above the floor on a side wall and projecting not more than 50 mm (2 in.) from the wall; and
- have a minimum 920 mm
   (36 in.) x 1500 mm (59 in.)
   clear transfer space on one side
   of the toilet fixture.

Where more than one accessible toilet stall is provided within a toilet or bathing facility, the stalls shall be configured with the clear transfer space (i.e., the open space beside the toilet) on opposite sides of the toilet fixtures.

Every toilet stall door shall

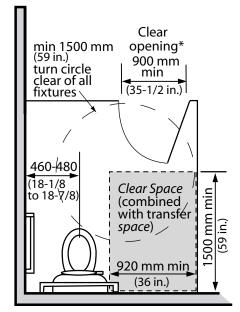
- be capable of being locked from the inside;
- incorporate hardware that is capable of being released from the outside in case of an emergency;
- incorporate door hardware that is:
  - is operable with one hand, using a closed fist;
  - does not require fine finger control, tight grasping, pinching, or twisting of the wrist;
  - requires a force of not more than 22 N (4.9 lb.) to activate (e.g., sliding bolt or lever); and
  - mounted between 900 mm (35-1/2 in.) and 1100 mm (43-1/4 in.) above the floor.

Figure 4.2.2.2

Accessible Toilet Stall with
In-Swinging Door

Accessible toilet stall doors shall

- provide a clear opening of at least 900 mm (35-1/2 in.) with the door in the open position.
   In a retrofit situation where it's technically infeasible to provide the required clear opening, the clear opening may be reduced to 860 mm (33-3/4 in.);
- swing outward, unless additional clear floor space of at least 920 mm x 1500 mm (36 in. x 59 in.) is provided within the stall and does not interfere with the arc of the door swing;
- be aligned with the clear transfer space adjacent to the toilet fixture;
- be equipped with gravity hinges so that the door closes automatically;
- be provided with a "D"-type contrasting-coloured door pull, at least 140 mm (5-1/2 in.) long, on the inside of an outswinging door, located so that the centre line is between 200 and 300 mm (7-7/8 in. and 11-3/4 in.) from the hinged side of the door mounted between 750 850 mm (29-1/2 33 in.); and
- be provided with a "D"-type contrasting-coloured door pull at least 140 mm (5-1/2 in.) long, on both sides of the door, located near the latchmounted between 750 850 mm (29-1/2 33 in.);



# 4.2 WASHROOM FACILITIES

Designated ambulatory toilet stalls shall

- be at least 1500 mm (59 in.) deep and 920 - 940 mm (36 -37 in.) wide;
- have the toilet fixture centred between the partition walls;
- have a door that provides a clear opening width of at least 810 mm (32 in.), which swings out unless the minimum stall dimensions are not located within the door swing;
- be equipped with gravity hinges;
- have latch-side pulls in compliance with this section; and
- be equipped with L-shaped grab bars on both sides of the toilet in compliance with 4.2.3 and 4.2.10.

Toilet stall partitions and doors shall be colour-contrasted with the surrounding environment.

Where an airport style (doorfree) washroom entry is used, the set back wall shall be painted a contrasting colour for easier depth perception and entry wayfinding.

Toilets, flush controls and other *elements* shall be designed to meet the requirements of 4.2.3.

## **RELATED SECTIONS**

- 4.1.1 Space and Reach Requirements
- 4.1.3 Protruding and Overhead Objects
- 4.1.6 Doors
- 4.2.3 Toilets
- 4.2.6 Washroom Accessories
- 4.2.10 Grab Bars
- 4.4.2 Controls and Operating Mechanisms
- 4.4.13 Lighting
- 4.4.15 Texture and Colour

\* In a retrofit situation opening may be reduced to 860 mm (33-3/4 in.)

#### **RATIONALE**

Automatic flush controls are preferred. If flushing mechanisms are not automated, then consideration must be given to the ability to reach a switch and the hand strength or dexterity required to operate it. Lever style handles on the transfer side of the toilet facilitate these considerations.

Appropriate placement of grab bars makes sitting and standing or transfers between the toilet and a mobility device safer.

#### **APPLICATION**

Accessible toilets shall comply with this section. Wall-mounted toilets are preferred except where weight requirements dictate otherwise.

# **DESIGN REQUIREMENTS**

Toilet fixtures shall have

- the top of the seat 460 mm (18 in.) above the floor;
- no spring-activated seat;
- a back support where there is no seat lid or tank; and
- the tank top securely attached.

Toilets shall be located between 460 and 480 mm (18 to 18-7/8 in.) away from the adjacent wall measured from the centre line of the toilet to the surface of the wall.

A clear transfer space, minimum 920 mm (36 in.) wide and 1500 mm (59 in.) deep from the edge of the water closet designed to permit a wheelchair or scooter to back into a clear space beside a toilet fixture, shall be provided on one or both sides of the toilet fixture in all accessible toilet stalls (see 4.2.2.) and in universal washrooms (see 4.2.7.).

# 4.2.3 TOILETS

The *clear* transfer *space* shall be clear of obstructions (such as garbage bins or baby change tables). Exception: Sanitary napkin disposal units may be installed within the transfer space provided they are recessed or protrude not more than 100 mm (4 in.) into this space.

Toilet flush controls shall be

- hand operated by use of a closed fist with a force of not more than 22N; and
- located on the transfer side of the toilet; or
- be electronically automatically controlled

Hand-operated flush controls shall comply with 4.4.2.

Where an *accessible* toilet is located adjacent to a wall it shall be equipped with grab bars that

- comply with 4.2.10;
- are L-shaped with 760 mm (30 in.) long horizontal and vertical components mounted with the horizontal component 750 mm (29-1/2 in.) above the floor and the vertical component 150 mm (5-7/8 in.) in front of the toilet bowl; and
- be at least 600 mm (24 in.) in length, mounted horizontally on the wall behind the toilet, from 840 mm (33 in.) to 920 mm (36 in.) above the floor, and, where the water closet has a water tank, be mounted minimum 150 mm (5-7/8 in.) above the tank.

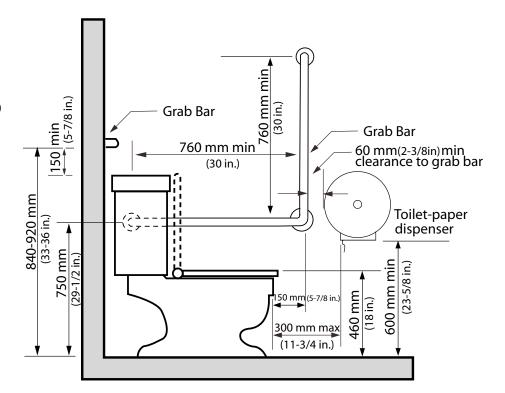


Figure 4.2.3.1

Grab Bar Configuration

# 4.2.3 TOILETS

Note: An optional drop-down grab bar in compliance with this section may be provided on the transfer side of the toilet.

Where provided, a drop-down grab bar shall:

- be mounted on the wall behind the water closet
  - with the horizontal component 750 mm (29-1/2 in.) above the finished floor; and
  - not less than 390 mm (15-3/8 in.) and not more than 410 mm (16-1/8 in.) from the centre line of the water closet;
- not require a force of more than 22.2 N to pull it down;
- be at least 760 mm (30 in.) in length:
- be installed to resist a load of at least 1.3 kN applied vertically or horizontally;
- be not less than 35 mm (1-3/8 in.) and not more than 40 mm (1-1/2 in.) in diameter;
- have a slip-resistant surface.

Where an accessible toilet stall is not located adjacent to a wall it shall be equipped with drop-down grab bars on each side that

- comply with 4.2.10;
- are at least 760 mm (30 in.) long;
- are mounted on the wall behind the toilet with the horizontal component 750 mm (29-1/2 in.) above the finished floor and 390 - 410 mm (15-3/8 - 16-1/8 in.) from the centre line of the toilet; and
- one grab bar will have the toilet paper dispenser attached.

Designated ambulatory toilet stalls shall have L-shaped grab bars on both sides in compliance with this section.

Toilet-paper dispensers shall be

- wall mounted;
- located below the grab bar;
- in line with or not more than 300 mm (11-3/4 in.) in front of the toilet seat;
- not less than 600 mm (23-5/8 in.) above the floor;
- contrasting in colour to the wall.

Note: Single large roll dispensers are preferred, as it can be difficult to reach the outside roll of conventional double roll dispensers.

#### 4.2 WASHROOM FACILITIES

- 4.1.1 Space and Reach Requirements
- 4.2.2 Toilet Stalls
- 4.2.10 Grab Bars
- 4.4.2 Controls and Operating Mechanisms
- 4.4.13 Lighting
- 4.4.15 Texture and Colour

# 4.2.4 LAVATORIES

#### **RATIONALE**

The accessibility of lavatories will be greatly influenced by their operating mechanisms. While faucets with remote-eye technology may initially confuse some individuals, their ease of use is notable. Individuals with hand strength or dexterity difficulties can use lever-style handles. For an individual in a wheelchair, a lower counter height and clearance for knees under the counter would be required. This lower counter may also serve children. The insulating of hot water pipes protects the legs of an individual using a wheelchair. This is particularly important when a disability impairs sensation such that the individual would not sense that their legs were being burned. The combination of shallow sinks and higher water pressures can cause unacceptable splashing at lavatories.

#### **APPLICATION**

All lavatories shall comply with this section. In a retrofit situation where it is *technically infeasible* to have all lavatories comply with this section, at least one lavatory in each *accessible* washroom shall comply.

#### **DESIGN REQUIREMENTS**

Lavatories shall

- be on an accessible route complying with 4.1.4;
- be mounted so that the minimum distance between the centre line of the fixture and the side wall is 460 mm (18-1/8 in.);
- have the top located between 820 mm (32-1/4 in.) and 840 mm (33 in.) above the floor:
- have a knee space of at least
  - 920 mm (36 in.) wide;
  - 735 mm (29 in.) high at the front edge;
  - 685 mm high (27 in.) at a point 205 mm (8-1/8 in.) back from the front edge; and
  - 350 mm (14 in.) high over the distance from a point 300 mm (11-3/4 in.) from the front the lavatory to the wall;
- have a minimum clear floor space 760 mm wide (30 in.) and 1370 mm (54 in.) deep, of which a maximum of 480 mm (18-7/8 in.) in depth may be under the lavatory;
- have hot water and drain pipes insulated if they abut the clearances noted above, limit the water temperature to a maximum of 43 degrees Celsius (100 degrees F), or use offset drain pipes so they do not enter into the kneespace below the lavatory; and

# 4.2.4 LAVATORIES

- have soap and towel dispensers that are
  - located to be accessible to persons who use wheelchairs or scooters (i.e., not having to reach over the lavatory to access the devices) located so that the dispensing height is between 900 1100 mm (35-1/2 43-1/4 in.) above the floor and located not more than 610 mm (24 in.) from edge of the lavatory;
  - operable with one hand;
  - colour-contrasted from the surrounding environment; and
  - in compliance with 4.4.2.

Faucets and other controls shall

- be in compliance with 4.4.2;
- have lever-style handles (not self-closing) operable with a closed fist, or be electronically controlled; and
- be located so that the distance from the centre line of the faucet to the edge of the basin, or where the basin is mounted in a vanity, to the front edge of the vanity is not more than 485 mm (19-1/8 in.).

The front apron of a vanity shall have a minimum clearance of 760 mm (30 in.) wide by 735 mm (29 in.) high.

Shelves or other projections shall;

- be located as not to present a hazard to children or persons with vision loss/no vision;
- be located not more than 200 mm (8 in.) above the surface of the lavatory;
- be not more than 1100 mm (43-1/4 in.) above the finished floor; and
- project no more than 100 mm (4 in.) from the wall.

Where mirrors are provided at lavatories or vanity units, they shall comply with 4.2.6.

#### 4.2 WASHROOM FACILITIES

- 4.1.1 Space and Reach Requirements
- 4.4.2 Controls and Operating Mechanisms
- 4.4.13 Lighting
- 4.4.15 Texture and Colour

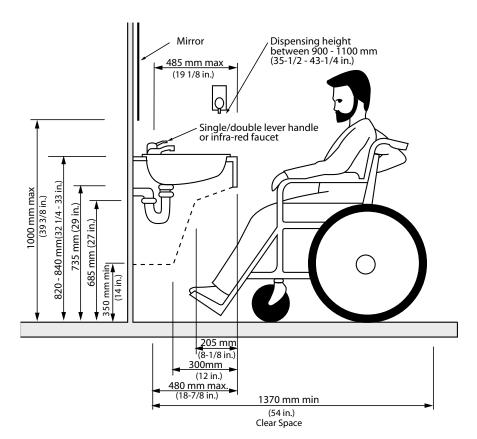


Figure 4.2.4.1
Lavatory Criteria

#### **RATIONALE**

A clear floor space is required in front of urinals to manoeuvre a mobility device. The provision of grab bars may assist an individual in rising from a seated position and to steady themselves. Floor-mounted urinals accommodate children and persons of short stature as well as enable easier access to drain personal care devices. Flush controls should be lever-style or automatic (preferred).

Strong colour contrasts between the urinal, the wall and the floor will assist persons with vision loss/no vision.

#### **APPLICATION**

Where urinals are provided in an accessible toilet or bathing facility, at least one shall comply with this section.

## **DESIGN REQUIREMENTS**

Urinals shall

- be designed at floor level with no step in front of the fixture;
- be wall-mounted with an elongated rim located no higher than 430 mm (17 in.) above the finished floor or floor-mounted with the rim at the finished floor level;
- be at least 345 mm (13-1/2 in.) deep, measured from the outer face of the urinal rim to the back of the fixture;
- have a clear floor space of 810 mm x 1370 mm (32 in. x 54 in.) provided in front of the urnial to allow for a forward approach that shall adjoin or overlap an accessible route which complies with 4.1.1.

Urinals shall be at least 345 mm (13-1/2 in.) deep, measured from the outer face of the urinal rim to the back of the fixture.

# **4.2.5 URINALS**

Where privacy screens are provided

- they shall be mounted at least 460 mm (18 in.) from the centre line of the urinal;
- they shall incorporate a pronounced colour contrast, to differentiate them from the surrounding environment, with a vertical outer edge that contrasts with the screen and the surrounding environment; and
- there shall be a clearance of at least 50 mm (2 in.) from the grab bar.

Urinals shall have grab bars installed on each side that

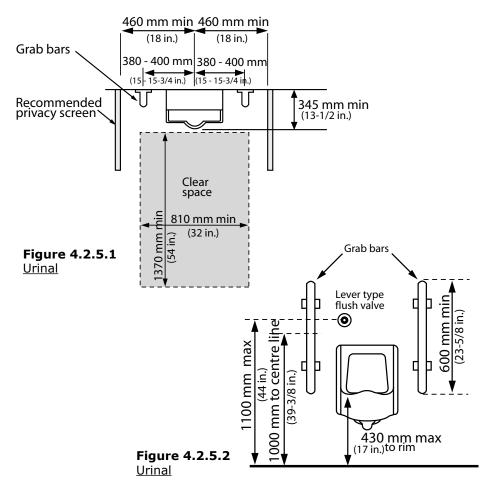
- comply with 4.2.10;
- are not less than 600 mm (23-5/8 in.) long;
- are mounted vertically
  - not less than 380 mm (15 in.) and not more than 400 mm (15-3/4 in.) from the centre line of the urinal; and
  - has its centre line 1000mm above the inished floor

Flush controls shall be handoperated or automatic, mounted at no more than 1100 mm (43-1/4 in.) above the finished floor, and shall comply with 4.4.2.

Where a washroom contains more than two urinals, one urinal shall be provided specifically for children that is

- installed with the rim no higher than 430 mm (17 in.) from the finished floor: or
- floor-mounted, with the rim level at the finished floor

- 4.1.1 Space and Reach Requirements
- 4.4.2 Controls and Operating Mechanisms
- 4.4.13 Lighting
- 4.4.15 Texture and Colour



# 4.2.6 WASHROOM ACCESSORIES

#### 4.2 WASHROOM FACILITIES

#### **RATIONALE**

Design issues related to washroom accessories include the hand strength and dexterity required to operate mechanisms. Reaching the accessories is another concern. Accessories that require the use of two hands to operate can present difficulties for a range of persons with disabilities when the ability to reach or balance is impaired. Section 4.4.2 addresses operating mechanisms in greater detail.

#### **APPLICATION**

Where washroom accessories such as hand-operated dispensers, hand-dryers, buit-in garbage receptacles, etc. are provided in a toilet or bathing facility, they shall comply with this section. In a retrofit situation where it is technically infeasible to make all washroom accessories comply with this section, at least one of each type of washroom accessory shall comply in all accessible toilet or bathing facilities.

# **DESIGN REQUIREMENTS**

Each type of washroom accessory provided, unless otherwise specified in 4.2.2 and 4.2.4, shall have operable portions and controls mounted between 900 mm (35-1/2 in.) and 1200 mm (47 in.) above the floor.

The operable controls and mechanisms of washroom accessories shall comply with 4.4.2.

Where mirrors are provided, at least one shall be

- mounted with its bottom edge not more than 1000 mm (39-3/8 in.) from the floor; and
- have a minimum mirror height of 1000 mm (39-3.8 in.)

Tilt mirrors shall not be used.

- 4.1.1 Space and Reach Requirements
- 4.1.3 Protruding and Overhead Objects
- 4.4.2 Controls and Operating Mechanisms
- 4.4.13 Lighting
- 4.4.15 Texture and Colour

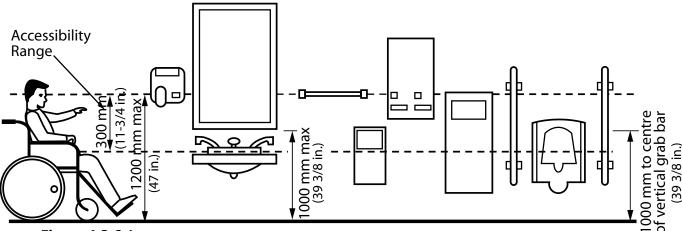


Figure 4.2.6.1
Washroom Accessories

# 4.2.7 UNIVERSAL WASHROOMS

#### **RATIONALE**

The provision of a separate individual washroom is advantageous in a number of instances. For an individual using a wheelchair, the extra *space* provided with a separate washroom is preferred to an accessible stall. Should an individual require an attendant to assist them in the washroom then the complication of a woman entering a men's washroom or vice versa is avoided. This same scenario would apply to a parent with a young child of a different gender.

In the event of an accident or fall by a single individual in this form of washroom, an emergency call switch and a means of unlocking the door from the outside are important safety features.

#### **APPLICATION**

Universal washrooms shall comply with this section.

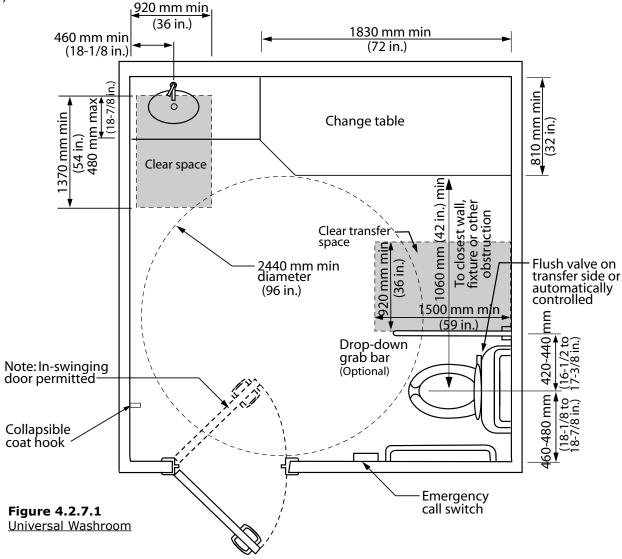
At least one universal washroom, in addition to any *accessible public use* or *common use* toilets, shall be provided

- · in all public buildings; and
- on every floor level in assembly buildings where the floor incorprates common or public use washroom facilities containing four or more toilet and/or urinal fixtures.

The minimum number of universal washrooms per building shall be:

- 1 for buildings 1 3 storeys;
- 2 for buildings 4 6 storeys; or
- 3 for buildings over 6 storeys, plus 1 for each additional increment of 3 storeys.

If universal washrooms are not visible from the *public use* or *common use* toilets, directional *signage* complying with 4.4.7 shall be provided.



# 4.2.7 UNIVERSAL WASHROOMS

# **DESIGN REQUIREMENTS**

Universal washrooms shall

- be on an accessible route in compliance with 4.1.4; and
- be identified with signage in compliance with applicable provisions of 4.4.7.
- wheelchair to turn within an open space that has a diameter of not less than 2440 mm (96 in.). In a retrofit situation where providing the required turning space is technically infeasible, the turning space may be reduced to not less than 2130 mm (84 in.) with priority given to allow enough clear space between the toilet and the lavatory;
- be equipped with a door that
  - complies with 4.1.6;
  - is equipped with a power operator;
  - can be locked from the inside
    - with a closed fist;
    - without tight grasping, pinching or twisting of the wrist; and
    - with a force less than 22 N (5lbf)

- has latch operating and locking mechanisms located not less than 900 mm (35-1/2 in.) and not more than 1000 mm (39-3/8 in.) above the floor;
- where equipped with a power locking mechanism, have:
  - a push-to-lock button on the inside;
  - a push-to-unlock button on the inside that also activates the power door operator;
  - signage indicating the door locking/unlocking procedures installed next to the locking/ unlocking buttons;
  - a sign on the inside that is illuminated with the word "LOCKED" when the door is locked;
  - a sign on the outside that is illuminated with the words "IN USE" when the door is locked
- can be released from the outside or other means provided for door to be opened from the outside in case of emergency;

#### 4.2 WASHROOM FACILITIES

- be provided with a lavatory conforming to 4.2.4;
- be equipped with a toilet fixture conforming to 4.2.3;
- be equipped with flush controls and other elements conforming to 4.2.3;
- be equipped with grab bars conforming to 4.2.3 and 4.2.10;
- have fixture clearances conforming to 4.2.3 and 4.2.4;
- provided with a clear transfer space adjacent to the toilet fixture, as required by 4.2.3;
- be equipped with
  - a collapsable coat hook mounted not more than 1200 mm (47 in.) from the floor on a side wall and projecting not more than 50 mm (2 in.) from the wall;
  - a mirror and washroom accessories complying with 4.2.6.
  - a shelf mounted not more than 1200 mm (47 in.) above finished floor;
- have lighting controlled by a motion sensor; and
- where provided, drop-down grab bars shall comply with 4.2.3.

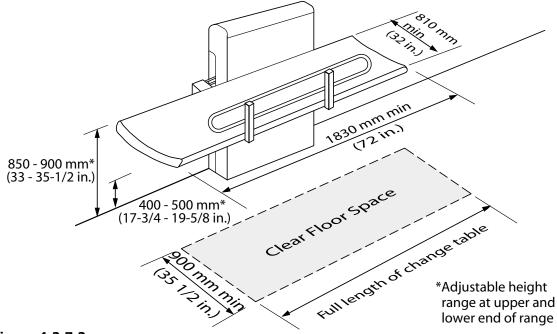


Figure 4.2.7.2 Adult Change Table

# **DESIGN REQUIREMENTS** (Continued)

Universal washrooms shall incorporate an emergency call system linked to an on-site central monitoring location. The emergency call (where applicable) shall also

- be equipped with audible and visual signals both inside and outside washroom;
- be activated by a control device inside washroom typically within reach of the toilet; and
- have a sign that reads IN THE EVENT OF EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE in letters at least 25 mm (1 in.) high with a 5 mm (1/4 in) stroke and that is posted above the emergency button.

For park washrooms, where there is no connection to a central monitoring location, localized visual and audible alarms shall be provided.

# 4.2.7 UNIVERSAL WASHROOMS

Universal washrooms shall incorporate a change table

- at least 810 mm (32 in.) wide by 1830 (72 in.) long;
- with an adjustable surface height range of 450 - 500 mm (17-3/4 in. to 19-5/8 in.) at low range and 850 - 900 mm (33 -35-1/2 in.) at high range;
- with an adjacent clear floor space not less than 900 mm (35-1/2 in.) along the entire length of the change table;
- designed to carry a minimum load of 1.33 kN (300 lbs.);
- located on an accessible route in compliance with 4.1.4; and
- if of the fold-down type, have no operable portions higher than 1200 mm (47 in.).

Exception: Where another universal washroom with an adult-sized change table is provided on the same floor level within 45m (147 ft. 8 in.).

Exception: A fixed adult change table may be installed in a park washroom building.

#### **OPTIONAL:**

be equipped with a fold-down grab bar at least 760 mm
 (30 in.) in length at the open side of the toilet, mounted 420 - 440 mm (16-1/2 - 17-3/8 in.) from the centre line of the toilet and 630 - 690 mm (24-3/4 - 27-1/8 in.) above the floor.

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.1.3 Protruding and Overhead Objects
- 4.1.6 Doors
- 4.2.3 Toilets
- 4.2.4 Lavatories
- 4.2.5 Urinals
- 4.2.6 Washroom Accessories
- 4.2.10 Grab Bars
- 4.4.2 Controls and Operating Mechanisms
- 4.4.7 Signage
- 4.4.11 Card Access, Safety and Security Systems
- 4.4.12 Glare and Light Sources
- 4.4.13 Lighting
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour

# **4.2.8 BATHTUBS**

#### **RATIONALE**

Bathtubs can present a slipping hazard. Slip-resistant surfaces are an important feature and will benefit any individual, including those with *disabilities*. Grab bars also provide stability. Operating systems are subject to limitations in hand strength, dexterity and reach.

#### **APPLICATION**

Where bathtubs are provided, all bathtubs shall comply with this section. In a retrofit situation where it is *technically infeasible* to have all bathtubs comply with this section, at least 10%, but never less than one, in each bathing *facility* shall comply with this section.

#### **DESIGN REQUIREMENTS**

Accessible bathtubs shall be on an accessible route complying with 4.1.4.

Accessible bathtubs shall have

- a clear floor space at least 920 mm wide (36 in.) along the full length of the bathtub (the lavatory can encroach a maximum of 300 mm (11-3/4 in.) into this space, provided the available clear floor space complies with 4.2.4);
- faucet handles of the lever type that are not spring-loaded, or are automatically operable;
- faucet handles that are located so as to be usable by a person seated in the bathtub;
- faucets and other controls mounted not more than 450 mm (17-3/4 in.) above the bathtub rim;
- a shower head complying with 4.2.9;
- unless the bathtub is freestanding, be equipped with an "L" shaped grab bar and a vertical grab bar conforming to 4.2.10 mounted on the wall
  - where each leg of the "L" being at least 920 mm (36 in.) in length;
  - with the legs of the "L" being separated by a 90 degrees;

- with the horizontal leg of the "L" being located 150 -200 mm (5-7/8 - 7-7/8 in.) above and parallel to the rim of the bathtub;
- with the vertical leg of the "L" being located 300 -450 mm (11-3/4 -17-3/4 in.) from the control end of the tub;
- with a vertical grab bar which is at least 1220 mm (48 in.) long, mounted vertically at both ends of the tub adjacent to the clear floor space, with the lower end 180 280 mm (7 11 in.) above the bathtub rim; and
- located within 150 mm (5-7/8 in.) from the edge of the tub.

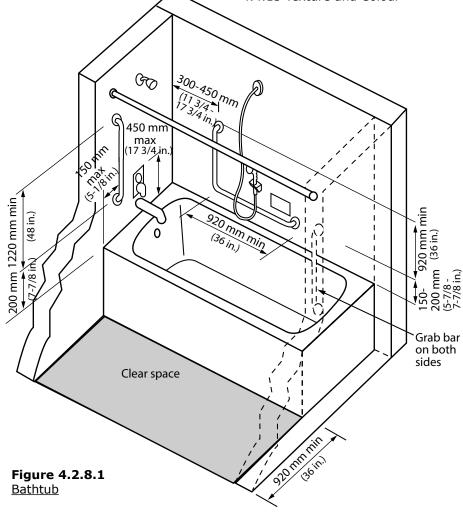
#### 4.2 WASHROOM FACILITIES

- controls equipped with a pressure-equalizing or thermostatic-mixing valve, operable from the seated position and in compliance with 4.4.2;
- soap holder(s) which can be reached from the seated position, ideally fully recessed;

Enclosures for bathtubs shall not

- obstruct controls;
- interfere with a person transferring from a wheelchair;
- have tracks mounted on the bathtub rim.

- 4.1.1 Space and Reach Requirements
- 4.2.6 Washroom Accessories
- 4.2.10 Grab Bars
- 4.4.2 Controls and Operating Mechanisms
- 4.4.13 Lighting
- 4.4.15 Texture and Colour



#### .2 WASHINGOM FACILITIES

#### **RATIONALE**

Roll-in or curbless shower stalls eliminate the hazard of stepping over a threshold and are essential for persons with disabilities who use wheelchairs or other mobility devices in the shower. Grab bars and non-slip materials are safety measures which will support any individual. Additional equipment such as a hand-held shower head or a water-resistant folding bench, may be an asset to someone with a disability but also convenient for others. Equipment that contrasts in colour from the shower stall itself will assist individuals with vision loss/no vision.

#### **APPLICATION**

Where showers are provided, at least one shower shall comply with this section.

Where more than 7 showers are provided, accessible showers shall be provided in conformance with Table 4.2.9.

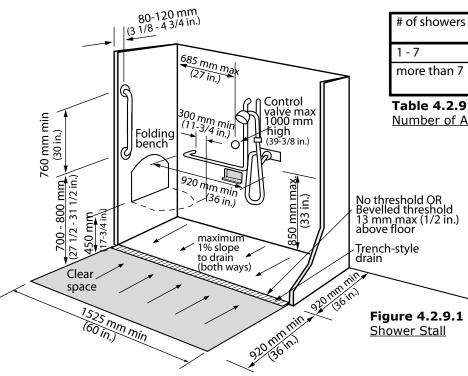
# **4.2.9 SHOWERS**

#### **DESIGN REQUIREMENTS**

Accessible showers shall

- be on an accessible route complying with 4.1.4;
- be at least 1525 mm (60 in.) in width and 920 mm (36 in.) in depth;
- have a clear floor space at the entrance to the shower of at least 920 mm (36 in.) in depth and the same width as the shower, except that fixtures are permitted to project into that space, provided access to the shower is not restricted;
- have a slip-resistant floor surface, sloped no steeper than 1:100 (1%);
- have
  - no threshold; or
  - a bevelled threshold not exceeding 13 mm (1/2 in.) above the finished floor;
- have a trench-style drain system across the entry to the shower that is colour contrasted to surrounding elements, or other measures to contain water within the shower area;

- be equipped with
  - a water-resistant wallmounted folding seat that is not spring-loaded; or
  - a water-resistant fixed seat that is
    - not less than 450 mm (17-3/4 in.) wide and 400 mm (15 in.) deep;
    - mounted 430 485 mm (17 - 19-1/8 in.) above the floor;
    - designed to carry a minimum load of 1.33 kN (300 lbs.); and
    - located within 500 mm (19-5/8 in.) of shower controls;
- be equipped with an L-shaped grab bar that
  - conforms to 4.2.10;
  - is located between the shower head and the controls;
  - is mounted horizontally 850 mm (33 in.) above the floor;
  - has a horizontal component at least 920 mm (36in.) long and a vertical component at least 760 mm (30 in.) long; and
  - is mounted so that the horizontal component overlaps the seat by at least 300 mm (12 in.).



**Table 4.2.9**Number of Accessible Showers

# **4.2.9 SHOWERS**

- be equipped with a vertical grab bar on each end wall that
  - is at least 760 mm (30 in.) in length;
  - is mounted 80 120 mm (3-1/8 - 4-3/4 in.) from the front edge, at a point 700 and 800 mm (27-1/2 and 31-1/2 in.) above the finished floor; and
  - conform to 4.2.10;
- be equipped with a pressureequalizing or thermostaticmixing valve in compliance with 4.4.2, located above the grab bar but no higher than 1000 mm (39-3/8 in.), maximum 685 mm (27 in.) from the seat wall;

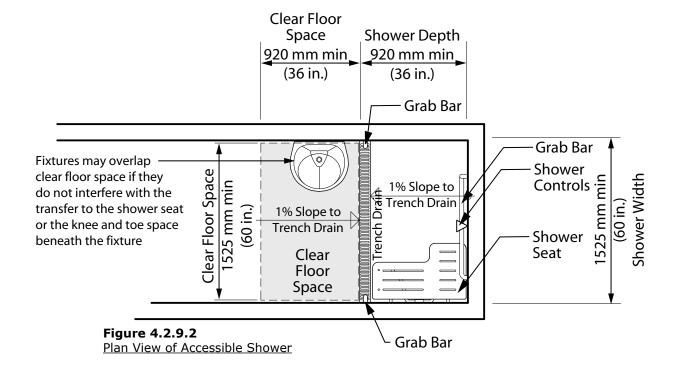
- have fully recessed soap holder(s) which can be reached from the seated position; and
- be equipped with a shower head
  - with at least 1525 mm (60 in.) of flexible hose that can be used both as a fixed position shower head and as a hand held shower head;
  - with shower spray unit that is reachable from the seated position; and
  - has an on/off control. Exception: The use of two fixed-height shower heads with the capability of adjusting the direction of water flow is permitted instead of a handheld spray unit in facilities that may be subject to vandalism. The height of the higher shower head to be 1825 mm (72 in.). The height of the lower shower head to be 1400 mm (55-1/8 in.). A valve to direct water between the shower heads, in compliance with 4.4.2, shall be located adjacent to the shower control/mixing valve.

#### 4.2 WASHROOM FACILITIES

Where the showerhead is mounted on a vertical bar, the bar shall be installed so as not to obstruct the use of the grab bar.

Enclosures for shower stalls shall not obstruct controls or obstruct transfer from a mobility device onto the shower seat.

- 4.1.1 Space and Reach Requirements
- 4.2.6 Washroom Accessories
- 4.2.10 Grab Bars
- 4.4.2 Controls and Operating Mechanisms
- 4.4.13 Lighting
- 4.4.15 Texture and Colour



# **4.2.10 GRAB BARS**

#### **RATIONALE**

Grab bars are an important feature to those who require assistance in standing up, sitting down or stability while standing. Transferring between toilet and wheelchair or scooter may be another scenario where grab bars are utilized.

#### **APPLICATION**

Grab bars shall comply with this section.

# **DESIGN REQUIREMENTS**

Grab bars shall

- be installed to resist a load of at least 1.3 kN (300 lb.), applied vertically or horizontally;
- be not less than 35 mm (1-3/8 in.) and not more than 40 mm (1-9/16 in.) in diameter;
- be free of any sharp or abrasive elements;
- be colour-contrasted with the surrounding environment; and
- have a slip-resistant surface.

Wall-mounted grab bars shall have a clearance of 50mm (2 in.) to the wall

Drop-down grab bars shall comply with 4.2.3.

Adjacent surfaces shall be free of any sharp or abrasive *elements*.

- 4.1.1 Space and Reach Requirements
- 4.2.3 Toilets
- 4.2.5 Urinals
- 4.2.7 Universal Washrooms
- 4.2.8 Bathtubs
- 4.2.9 Showers
- 4.4.13 Lighting
- 4.4.15 Texture and Colour

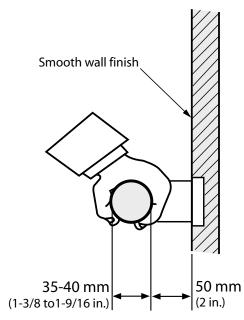


Figure 4.2.10.1 Grab Bar

# 4.3.1 DRINKING FOUNTAINS

#### **RATIONALE**

When planning the design of drinking fountains, one should consider the limited height of children and that of a person using a wheelchair or scooter. In the same respect, there may be individuals who have difficulty bending who would require a higher fountain. The operating system should account for limited hand strength or dexterity. The placement of the fountain is also important. Fountains should be recessed, to avoid protruding into the path of travel. Angled recessed alcove designs allow more flexibility and require less precision by a person using a wheelchair or scooter.

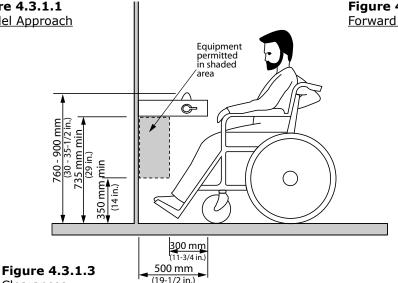
#### **APPLICATION**

Clearances

Where drinking fountains are provided on a floor level, at least one shall be accessible and shall comply with this section. Where

Angled alcoves allow more flexibility on — parallel approach 760-900 mm (30 - 35-1/2 in.) (to spout opening) 810 m Clear space 1370 mm min

Figure 4.3.1.1 Parallel Approach



more than one drinking fountain or water cooler is provided on a floor level, at least 50% shall be accessible and shall comply with this section.

Where only one drinking fountain is provided on a floor level, it shall incorporate components that are accessible to individuals who use mobility devices and to those who have difficulty stooping or bending.

# **DESIGN REQUIREMENTS**

Accessible drinking fountains shall

- be located on an accessible route complying with 4.1.4;
- be detectable by a cane at a level at or below 680 mm (26-3/4 in.) from the finished floor;
- be equipped with controls that are located on the front of the unit, or on both sides of the unit, easily operated from a wheelchair or scooter using
- Angled alcoves allow more flexibility on— forward approach Clear space
  - Figure 4.3.1.2 Forward Approach

#### 4.3 OTHER AMENITIES

- one hand with a force of not more than 22 N (4.9 lb.), or be automatically operable:
- be mounted with the spout between 760 mm (30 in.) and 900 mm (35-1/2 in.) above the finished floor; and
- project the water stream at least 100 mm (4 in.) high, and at a vertical angle of up to,
  - 30 degrees, where the spout is located less than 75 mm (3 in.) from the front of the fountain; or
  - 15 degrees, where the spout is located not less than 75 mm (3 in.) and not more than 125 mm (5-7/8 in.) from the front of the fountain.

Cantilevered drinking fountains shall

- have a clear floor space of at least 810 mm (32 in.) by 1370 mm (54 in.);
- have a knee space between the bottom of the unit and the floor of at least 810 mm (32 in.) wide, 500 mm (19-1/2 in.) deep and 735 mm (29 in.) high;
- have a toe clearance height of at least 350 mm (14 in.) above finished floor, from a point 300 mm (12 in.) back from the front edge to the wall; and
- have a depth at the base of the fountain of at least 700 mm (28 in.); and
- be recessed or otherwise located out of the circulation route.

Freestanding or built-in fountains not having a knee space shall have a clear floor space at least 1370 mm (54 in.) wide by 810 mm (32 in.) deep in front of the unit to accommodate a parallel approach.

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- Protruding and Overhead 4.1.3 Objects
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.4.13 Lighting
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour

#### **RATIONALE**

Designated viewing areas are required for individuals unable to use typical seating. Viewing areas need to provide adequate *space* to manoeuvre a mobility device as large as a scooter and should not be limited to one location. Designated companion seating should also be provided. Guards placed around a viewing area should not interfere with the line of sight of someone sitting in a wheelchair or scooter. A choice of seating locations and ticket price range should be available.

Providing only one size of seating does not reflect the diversity of body types of our society. Seating with increased legroom will better suit individuals that are taller. Seats with removable armrests (adaptable seating) are helpful for persons of larger stature as well as individuals using wheelchairs that prefer to transfer to the seat.

# 4.3.2 VIEWING POSITIONS

#### **APPLICATION**

In places of assembly occupancy with fixed seating, *accessible* wheelchair/scooter locations shall comply with this section and shall be provided in numbers as indicated by Table 4.3.2.

Adaptable seats shall be provided in compliance with Table 4.3.2.

Spaces for the storage of wheelchairs and other mobility assistive devices shall be provided to accommodate the users of the adaptable seats in compliance with Table 4.3.2.

Accessible wheelchair/scooter locations shall be an integral part of any seating plan. Seats shall be distributed in a manner that provides people with physical disabilities a choice of admission prices and lines of sight comparable to those for members of the general public.

## **DESIGN REQUIREMENTS**

Accessible wheelchair/scooter locations shall adjoin an accessible route complying with 4.1.4, without infringing on egress from any row of seating or any aisle requirement.

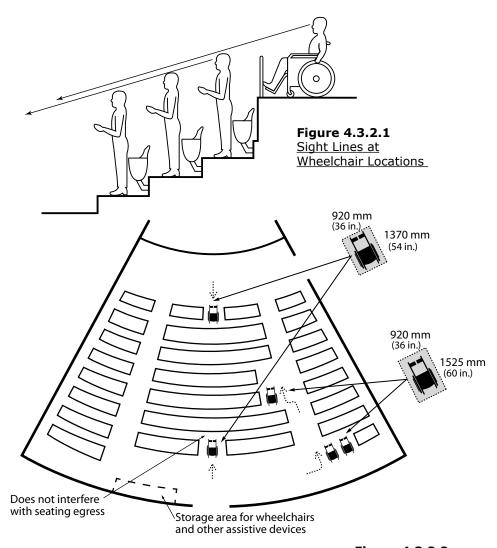


Figure 4.3.2.2

<u>Distribution of</u>

Wheelchair Locations

# 4.3.2 VIEWING POSITIONS

Accessible wheelchair/scooter locations shall be

- clear and level, or level with removable seats;
- not less than 920 mm (36 in.) wide, and
  - minimum 1525 mm (60 in.) long if approaching from the side; or
  - minimum 1370 mm (54 in.) if approaching from the front or back;
- where the seating capacity exceeds 100, provided in more than one location:
- arranged to have
  - at least 2 of the designated spaces side by side;
  - at least one fixed companion seat located beside
    - each group of designated spaces, if 2 or more designated spaces are arranged side by side in a group; and
    - each designated space that is not part of a group
  - located without infringing on egress from any row of seating or aisle; and
  - situated as part of the designated seating plan to provide choice of viewing location and clear view of the event taking place.

Fixed seats designated for adaptable seating shall be

- located without infringing on egress from any row of seating or aisle;
- equipped with moveable or removeable arm rest on the side of the seat adjoining the barrier-free path of travel; and
- situated as part of the designated seating plan to provide choice of viewing location and clear view of the event taking place.

Storage facilities for wheelchairs and other assistive devices shall

- have a minimum floor space of 810 mm (32 in.) by 1370 mm (54 in.) for each device;
- be located on the same level and as close as practicable to the designated seating spaces

#### 4.3 OTHER AMENITIES

- RELATED SECTIONS
- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.1.3 Protruding and Overhead Objects
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.4.6 Assistive Listening Systems
- 4.4.7 Signage
- 4.4.9 Public Address System
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour
- 4.4.16 Acoustics

Number of Fixed Seats in Seating Area	Minimum number of Spaces Required for Wheelchairs	Minimum number of Adaptable Seats	Minimum number of Storage Facilities for Wheelchairs
Up to 40	2	2	
41 - 80	3	4	2
81 - 100	4	5	
101 - 150	5		
151 - 200	6		
201 - 300	9	5% of all aisle	2 + 2 for every
301 - 400	12	seating additional 100 seats	
401 - 600	15		
Over 600	Not less than 3% of the seating capacity		

Table 4.3.2
Wheelchair Viewing Locations

#### **RATIONALE**

Elevated platforms, such as stage areas, speaker podiums, etc., should be *accessible* to all. A marked *accessible route* should be provided, along with safety features to assist persons who are visually impaired.

#### **APPLICATION**

Elevated platforms provided for use by the general public, clients, customers or employees shall comply with this section.

## **DESIGN REQUIREMENTS**

Elevated platforms shall

- be located on an accessible route that complies with 4.1.4;
- be capable of being illuminated to at least 100 lux (9.3 ft-candles) at floor level at the darkest point;

# 4.3.3 ELEVATED PLATFORMS

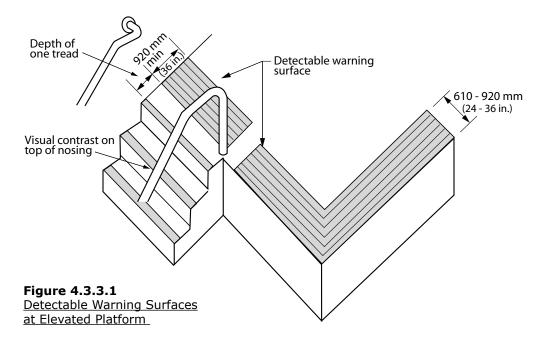
- be sized to safely accommodate wheelchairs and other mobility equipment in compliance with 4.1.1; and
- where more than 250 mm (10 in.) above the ground or floor surface and not protected by a guard, have a detectable warning surface.

A *ramp* shall be provided for stages in compliance with section 4.1.9.

The detectable warning surface on elevated platforms shall

- consist of flat-topped domes or cones in compliance with 4.4.8;
- be positioned parallel to the open platform edge, extending the full length of the platform; and
- be a minimum depth of 610 mm (24 in.) and a maximum of 920 mm (36 in.), flush from the open edge of the platform.

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.1.3 Protruding and Overhead Objects
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.1.9 Ramps
- 4.4.8 Detectable Warning Surfaces
- 4.4.13 Lighting
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour



# 4.3.4 CHANGE/DRESSING ROOMS

#### **RATIONALE**

In addition to accessible common use dressing rooms, a separate unisex dressing room is useful. This is valuable in a scenario where an attendant of the opposite sex or a parent is assisting a child. Sufficient space should be allowed for two people and a wheelchair, along with benches and accessories.

The provision of handrails along circulation routes from dressing rooms to pool, gymnasium and other activity areas, will be of benefit to many facility users.

#### **APPLICATION**

Where dressing rooms are provided for use by the general public, patients, customers, performers or employees, they shall comply with this section. In a retrofit situation where it is *technically infeasible* to have all dressing rooms comply with this section, 10% of dressing rooms, but never less than one, for each type of use in each cluster of dressing rooms shall be *accessible* and comply with this section.

At least one private *accessible* dressing room shall be provided within *accessible* change rooms at pools, gymnasiums and other applicable facilities.

# **DESIGN REQUIREMENTS**

Accessible dressing rooms, and accessible elements within accessible dressing rooms, shall be located on an accessible route complying with 4.1.4.

Accessible dressing rooms shall be labeled with the international symbol of accessibility.

Private accessible dressing rooms shall incorporate a clear floor space allowing a person using a wheelchair or scooter to make a 180-degree turn, accessed through either a hinged or sliding door. No door shall swing into any part of the required turning space within the private accessible dressing room. Turning space is not required within a private accessible dressing room accessed through a curtained opening of at least 950 mm (37-1/2 in.) wide, if clear floor space complying with section 4.1.1 renders the dressing room usable by a person in a wheelchair or scooter.

All doors to accessible dressing rooms shall be in compliance with 4.1.6. Outward swinging doors shall not constitute a hazard to persons using adjacent circulation routes.

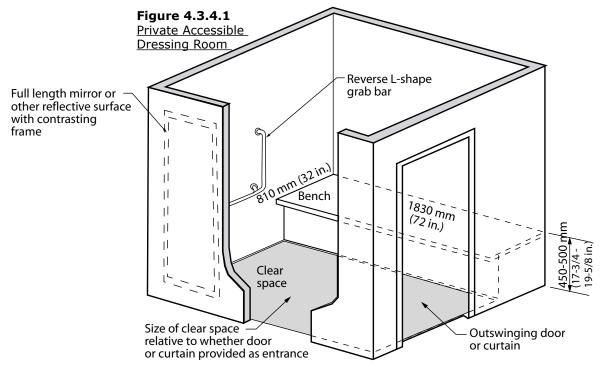
#### 4.3 OTHER AMENITIES

Every *accessible* dressing room shall have a 810 mm (32 in.) x 1830 mm (72 in.) bench fixed to the wall along the longer dimension. The bench shall

- be mounted 450 to 500 mm (17-3/4 in. to 19-5/8 in.) above the finished floor;
- have clear floor space at least 760 mm (30 in.) wide provided alongside the bench to allow a person using a wheelchair or scooter to make a parallel transfer onto the bench;
- be designed to carry a minimum load of 1.33 kN (300 lb.); and

Where coat hooks are provided, they shall be a collapsible-style projecting not more than 50 mm (2 in.) from the wall. At least two collapsible coat hooks shall be mounted no higher than 1200 mm (47 in.) above the floor, and immediately adjacent to the accessible bench. (Note: Coat hooks should NOT be located over the accessible bench or in areas that may cause a hazard.)

To enable transfer to the bench, grab bars similar to those in section 4.2.9 Showers shall be provided in a suitable location in the dressing room.



# 4.3.4 CHANGE/DRESSING ROOMS

# **DESIGN REQUIREMENTS** (Continued)

Where dressing rooms are provided in conjunction with showers, swimming pools, or other wet locations, they shall

- be designed with a slip-resistant floor surface that prevents the accumulation of standing water; and
- have a bench with a slipresistant seat surface installed to prevent the accumulation of water.

Where mirrors, or other reflective surfaces, are provided in dressing rooms of the same use, *accessible* dressing rooms shall incorporate a full-length mirror or other reflective surface measuring at least 460 mm (18 in.) wide by 1370 mm (54 in.) high and shall be mounted in a position affording a view to a person on the bench, as well as to a person in a standing position.

Dressing rooms shall incorporate even illumination throughout of at least 100 lux (10 ft-candles).

For open area large group change areas (such as locker rooms) refer to section 4.3.10.

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.1.3 Protruding and Overhead Objects
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.4.13 Lighting
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour

# 4.3.5 OFFICES, WORK AREAS & MEETING ROOMS

#### 4.3 OTHER AMENITIES

#### **RATIONALE**

Offices providing services or programs to the public should be *accessible* to all, regardless of mobility or functional profile. Furthermore, office and related support areas should be *accessible* to staff and visitors with varying levels of ability.

All persons, but particularly those with hearing loss/persons who are hard-of-hearing, would benefit from having a quiet acoustic environment - background noise from mechanical equipment such as fans, should be minimal. Telephone equipment for individuals with hearing loss may also be required.

The provision of assistive speaking devices is important for the range of individuals who may have difficulty with low vocal volume thus affecting production of normal audible levels of sound.

Tables and workstations should address the knee *space* requirements of an individual in a wheelchair. Circulation areas also need to consider the spatial needs of mobility equipment as large as scooters.

Natural coloured task lighting, such as that provided through halogen bulbs, is a design feature that will facilitate use by all, especially persons with vision loss/no vision.

In locations where reflective glare may be problematic, such as large expanses of glass with reflective flooring, consideration should be given to providing blinds that can be louvred upwards.

#### **APPLICATION**

Wherever offices, work areas or meeting rooms are provided for use by the general public, employees, clients or customers, they shall comply with this section.

Where multiple workstations are provided, at least 5% but not less than one shall have height adjustable worksurfaces.

# **DESIGN REQUIREMENTS**

Where offices, work areas and *meeting rooms* are provided for use by the general public, employees, clients or customers, they shall

- be located on an accessible route complying with 4.1.4;
- where equipped with a door, the door shall comply with 4.1.6;
- incorporate a clear floor space allowing a person using a wheelchair or scooter to make a 180-degree turn;
- incorporate an accessible route that connects the primary activity elements within the office, work area or meeting room;
- incorporate knee clearances below work surfaces that comply with 4.3.7;
- incorporate access to storage, shelving or display units in compliance with 4.3.9 for use by the general public, employees, clients or customers;
- provide a clear floor space that complies with 4.1.1 in front of all equipment such as photocopiers where such equipment is provided for use by the general public, employees, clients or customers;
- be equipped with an assistive listening system that complies with 4.4.6, where an assistive listening system is required;
- provide one of the following: gooseneck fixed microphone at designated seating area, cordless microphone or a personal voice amplification system.

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.1.8 Windows, Glazed Screens and Sidelights
- 4.3.7 Tables, Counters and Work Surfaces
- 4.3.9 Storage, Shelving and Display Units
- 4.4.2 Controls and Operating Mechanisms
- 4.4.4 Visual Alarms
- 4.4.6 Assistive Listening Systems
- 4.4.12 Glare and Light Sources
- 4.4.13 Lighting
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour
- 4.4.16 Acoustics

# 4.3.6 WAITING AND QUEUING AREAS

#### **RATIONALE**

Queuing areas for information, tickets or services should permit persons who use wheelchairs. scooters and other mobility devices as well as persons with a varying range of user ability to move through the line safely and conveniently.

Waiting and queuing areas need to provide space for mobility devices, such as wheelchairs and scooters. Queuing lines that turn corners or double back on themselves will need to provide adequate space to manoeuvre mobility devices. Providing *handrails* in queuing lines may be useful support for individuals and guidance for those with vision loss/no vision. The provision of benches in waiting areas is important for individuals who may have difficulty with standing for extended periods.

#### **APPLICATION**

In addition to the design requirements specified in 4.1 to 4.4, waiting and queuing areas shall comply with this section.

Figure 4.3.6.1

#### **DESIGN REQUIREMENTS**

Barriers at queuing areas shall be laid out in parallel, logical lines. The accessible *path of travel* between fixed queuing lines and barriers shall comply with 4.1.4.

Barriers at queuing areas, provided to streamline pedestrian movement, shall be firmly mounted to the floor, and should have rigid rails to provide support for waiting persons.

Where floor slots or pockets are included to receive temporary or occasional supports, such slots or pockets shall be level with the floor finish and have an integral cover, so as not to cause a tripping hazard.

Permanent queuing areas shall incorporate clearly defined floor patterns/colours/textures in compliance with 4.4.15, as an aid to guide persons with vision loss/no

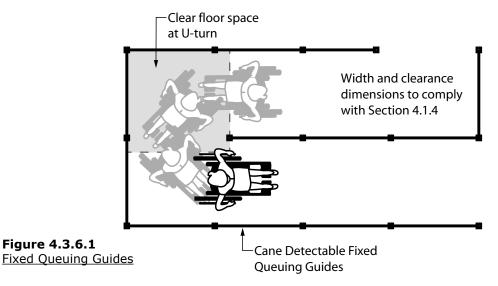
There shall be a pronounced colour contrast between ropes, bars or solid barriers used to define queuing areas and the surrounding environment.

Provide sufficiently clear floor area to permit mobility aids to turn where queuing lines change direction (refer to figures 4.1.4.3 and 4.1.4.4).

Fixed queuing guides must be cane detectable.

In waiting rooms where seating is fixed to the floor, a minimum of 3% but no less than 1 seat of the total seating must provide the clear floor space for mobility devices as defined in section 4.3.2. Accessible seating shall have an adjacent companion seat.

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.4.5 **Public Telephones**
- 4.4.6 Assistive Listening Systems
- 4.4.7 Signage
- 4.4.9 Public Address Systems
- 4.4.10 Information Systems
- 4.4.12 Glare and Light Sources
- 4.4.13 Lighting
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour
- 4.4.16 Acoustics



# 4.3.7 TABLES, COUNTERS AND WORK SURFACES

#### **RATIONALE**

Tables, counters and work surfaces should accommodate the needs of a range of users. Consideration should be given to standing-use as well as seated use. For individuals using wheelchairs, tables need to be high enough to provide knee space and provide enough clear space for the wheelchair to pull into. The furniture placement at tables and manoeuvring space at counters should provide sufficient turning space for a person using a wheelchair or scooter.

Tables that have the support leg(s) in the centre of the table provide a higher level of accessibility.

#### **APPLICATION**

If fixed or built-in tables, counters and work surfaces (including, but not limited to, dining tables and

work surfaces. 230 mm mil 685 mm min (27 in.) 28-34 in.) (9 in.) 480 mm min Figure 4.3.7.1 Clearances (18-7/8 ih.) knee space Where open below, a

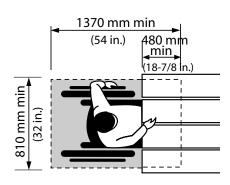


Figure 4.3.7.2 Frontal Approach

study carrels) are provided in accessible public or common use areas, at least 10%, but not less than one, of the fixed or built-in tables, counters and work surfaces shall comply with this section.

It is preferred to locate counters out of the circulation route so they do not become an obstacle for persons who use canes and or persons with vision loss/no vision.

Ensure that chairs with armrests are provided for banquet halls, restaurants and cafeterias.

# **DESIGN REQUIREMENTS**

Accessible tables, counters and work surfaces shall be located on an accessible route complying with 4.1.4.

An accessible route complying with 4.1.4 shall lead to and around such fixed or built-in tables, counters and

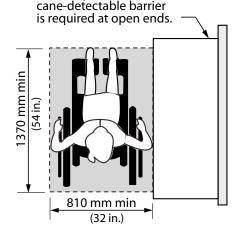


Figure 4.3.7.3 Parallel Approach

#### 4.3 OTHER AMENITIES

Wheelchair seating spaces at accessible tables, counters and work surfaces shall incorporate a *clear* floor space that

- is at least 810 mm (32 in.) x 1370 mm (54 in.); and
- has no more than 480 mm (18-7/8 in.) of the length extending under the counter or work surface where a forward approach is used.

Where a forward approach is used to access a wheelchair seating space,

- a *clear* knee *space* of at least 810 mm (32 in.) wide, 480 mm (18-7/8 in.) deep and 685 mm (27 in.) high shall be provided; and
- a clear toe space at least 810 mm (32 in.) wide and 230 mm (18-7/8 in.) high shall be provided beyond the knee space, extending to a depth at least 610 mm (24 in.) from the front edge of the work surface.

The top of accessible tables, counters and work surfaces shall be located between 710 mm (28 in.) to 865 mm (34 in.) above the finished floor or ground surface. It is preferred to provide heightadjustable furnishings.

Where speaker podiums are provided they shall

- be located on an accessible route in compliance with 4.1.4;
- be height-adjustable for use from a seated or standing position;
- incorprate clear floor space of at least 810 mm (32 in.) by 1370 mm (54 in.), configured for forward approach;
- incorporate *clear* knee *space* of at least 810 mm (32 in.) wide, 480 mm (18-7/8 in.) deep and 685 mm (27 in.) high; and
- incorprate controls and operating mechanisms in compliance with 4.4.2

- 4.1.1 Space and Reach Requirements
- 4.1.3 Protruding & Overhead Objects
- 4.1.4 Accessible Routes, Paths and Corridors

#### **RATIONALE**

Information, reception and service counters should be *accessible* to the full range of visitors. A choice of counter heights is recommended to provide a range of options for a variety of persons. Lowered sections will serve children, persons of short stature and persons using mobility devices such as a wheelchair or scooter. The choice of heights should also extend to speaking ports and writing surfaces.

The provision of knee space under the counter facilitates use by a person using a wheelchair or a scooter.

The provision of assistive speaking devices is important for the range of individuals who may have difficulty with low vocal volume thus affecting production of normal audible levels of sound.

The use of colour contrast, tactile difference or audio landmarks (e.g., receptionist voice or music source) can assist individuals with vision loss/no vision to more precisely locate service counters or speaking ports.

#### APPLICATION

Counters for information or service shall have at least one section *accessible* to persons who use a wheelchair or scooter.

For each type of service provided, at least 1 accessible service counter shall be provided.

Where there are multiple queuing lines serving mulitple service counters, the accessible service counters must be clearly identified by signage.

Where a single queuing line serves a single or multiple counters, each service counter shall comply with this section.

# 4.3.8 INFORMATION, RECEPTION AND SERVICE COUNTERS

## **DESIGN REQUIREMENTS**

Information, reception and service counters shall be located on an accessible route complying with 4.1.4.

Counters for information, reception or service shall incorporate at least one *accessible* section that

- has a counter height located between 710 mm (28 in.) and 865 mm (34 in.) above the finished floor or ground;
- has a counter surface width of at least 920 mm (36 in.);
- has a counter depth of no more than 1270 mm (50 in.) that complies with 4.1.1; and
- has knee space on both sides of the counter, below the counter surface, of at least 685 mm (27 in.) high by 480 mm (18-7/8 in.) deep by 810 mm (32 in.) wide.

Wheelchair seating spaces at accessible sections of information, reception and service counters shall incorporate a clear floor space not less than 760 mm (30in.) by 1370 mm (54 in.).

Where a forward approach is used to access a wheelchair seating space, a *clear knee space* of at least 810 mm (32 in.) wide, 480 mm (18-7/8 in.) deep and 685 mm (27 in.) high shall be provided. It may overlap the *clear floor space* by a maximum of 480 mm (18-7/8 in.).

Information, reception and service counters shall provide at least one type of Assistive Speaking Device at each counter of varying heights:

- Speech Transfer Intercom
   System with volume controls for
   both staff and customers this
   can be in a counter system or
   speaking port;
- gooseneck or cordless microphone; or
- telephone system with voice/ speech amplification.

Where speaking ports are provided at information, reception or service counters, accessible counters shall have a speaking port no higher than 1060 mm (42 in.) above the finished floor or ground.

- 4.1.1 Space and Reach Requirements
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.4.6 Assistive Listening Systems
- 4.4.7 Signage
- 4.4.10 Information Systems
- 4.4.12 Glare and Light Sources
- 4.4.13 Lighting
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour
- 4.4.16 Acoustics

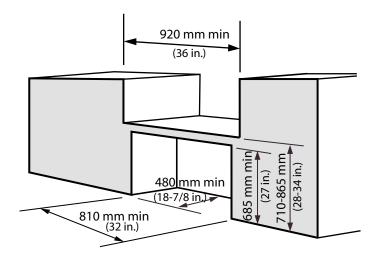


Figure 4.3.8.1 Service Counter

# 4.3.9 STORAGE, SHELVING AND DISPLAY UNITS

#### 4.3 OTHER AMENITIES

#### **RATIONALE**

The heights of storage, shelving and display units should address a full range of vantage points including the lower sightlines of children or a person using a wheelchair or scooter. The lower heights also serve the lower reach of these individuals. Displays that are too low can be problematic for individuals that have difficulty bending down. Appropriate lighting and colour contrast is particularly important for persons with vision loss/no vision.

#### **APPLICATION**

If fixed or built-in storage facilities, such as cabinets, closets, shelves and drawers, are provided in accessible spaces, at least one of each type provided shall contain storage space in compliance with this section.

Shelves or display units allowing self-service by customers in mercantile occupancies shall be located on an *accessible route* complying with 4.1.4.

# **DESIGN REQUIREMENTS**

A clear floor space at least 810 mm (32 in.) by 1370 mm (54 in.) complying with 4.1.1 that allows either forward or parallel approach by a person using a wheelchair or a scooter shall be provided at accessible storage facilities.

Accessible storage spaces shall be within at least one of the reach ranges specified in 4.1.1. Clothes rods or shelves shall be a maximum of 1370 mm (54 in.) above the finished floor for a side approach. Where the distance from the wheelchair to the clothes rod or shelf is 255 – 535 mm (10-21 in.) (as in closets without accessible doors) the height of the rod or shelf shall be no more than 1200 mm (47 in.).

Where coat hooks are provided, they shall all be collapsible coat hooks, mounted no higher than 1200 mm (47 in.) above the floor. (Note: Coat hooks should NOT be located over benches)

Hardware for *accessible* storage *facilities* shall comply with 4.4.2. Touch latches and U-shaped pulls are acceptable.

- 4.1.1 Space and Reach Requirements
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.4.2 Controls and Operating Mechanisms

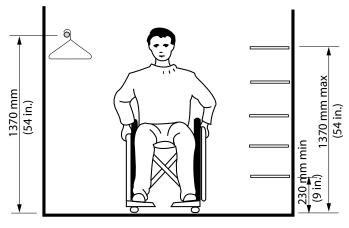


Figure 4.3.9.1
Reach Limits for Storage

#### \_\_\_\_\_

**RATIONALE** 

scooter.

# In schools, recreational facilities, transit facilities, etc., or wherever public or private storage lockers are provided, at least some of the storage units should be *accessible* by a person using a wheelchair or

It is preferred to provide an accessible bench in close proximity to accessible lockers.

The provision of lockers at lower heights serves the reach restrictions of children or a person using a wheelchair or scooter. The operating mechanisms should also be at an appropriate height and operable by individuals with restrictions in hand dexterity (ie. operable with a closed fist).

#### **APPLICATION**

If lockers or baggage storage units are provided in *accessible* public or *common use* areas, at least 10%, but not less than one, of the lockers or baggage storage units shall comply with this section.

# 4.3.10 LOCKERS AND BAGGAGE STORAGE

#### **DESIGN REQUIREMENTS**

Accessible lockers and baggage storage units shall be located on an accessible route complying with 4.1.4.

Accessible lockers and baggage storage units shall have their bottom shelf no lower than 230 mm (9 in.) and their top shelf no higher than 1200 mm (47 in.) above the floor or ground.

Locks for accessible lockers and baggage storage units shall be mounted no higher than 1060 mm (42 in.) from the floor or ground and shall comply with 4.4.2.

Unless all lockers are accessible, accessible lockers shall be identified with an International Symbol of Access or equivalent.

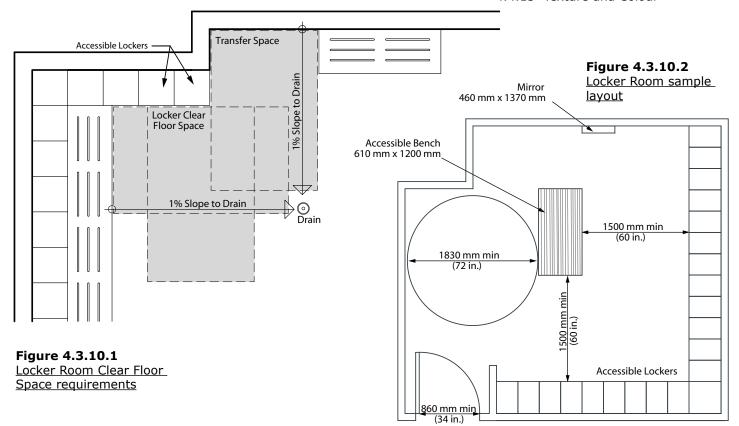
Numbers or names on all lockers and baggage storage units should be in clearly legible lettering, raised or recessed and of a highly contrasting colour or tone (in compliance with the relevant parts of 4.4.7).

Baggage racks or carousels for suitcases, etc. shall have the platform surface no higher than 460 mm (18 in.) from the floor and shall incorporate a continuous colourcontrasting strip at the edge of the platform surface.

Aisle *spaces* in front of lockers, baggage compartments and carousels should be a minimum of 1370 mm (54 in.) deep and 810 mm (32 in.) wide, to permit forward and lateral approach by a person using a wheelchair or scooter.

Where an accessible bench is installed near accessible lockers, grab bars shall be installed where practicable.

- 4.1.1 Space and Reach Requirements
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.4.2 Controls and Operating Mechanisms
- 4.4.7 Signage
- 4.4.13 Lighting
- 4.4.15 Texture and Colour



# 4.3.11 BALCONIES, PORCHES, TERRACES AND PATIOS

#### **RATIONALE**

Where a number of balconies, porches, patios or terraces are provided, it is desirable to consider options for different levels of sun and wind protection. This is of benefit to individuals with varying tolerances for sun or heat. Doors to these spaces typically incorporate large expanses of glazing. These should be appropriately marked to increase their visibility. Thresholds at balcony doors should be avoided.

#### **APPLICATION**

Balconies, porches, terraces and patios provided for use by the general public, clients, customers or employees shall comply with this section.

# **DESIGN REQUIREMENTS**

Balconies, porches, terraces and patios

- shall be located on an accessible route complying with 4.1.4;
- shall have a minimum depth of 2440 (96 in.). In retrofit situations where providing a depth of 2440 mm (96 in.) is technically infeasible, the minimum depth may be reduced to 1525 mm (60 in.); and
- where an outswinging door is used, shall have a minimum depth of 1100 mm (43-1/4 in.) between the door and any adjacent guard or railing.

Exterior balconies, porches, terraces and patios, where directly *accessible* from the interior *spaces*, shall incorporate a threshold in compliance with 4.1.2.

Balcony, porch, terrace and patio surfaces shall

- comply with 4.1.2;
- be sloped to ensure removal of water; and
- be sloped no more than 2%.

Railings and *guards* at balconies, porches, terraces and patios shall

- comply with the requirements of the Ontario Building Code; and
- be designed to allow clear vision below the rail for persons seated in a wheelchair or scooter; and
- incorporate pronounced colour contrast between the railings and guards and the surrounding environment.

Doors opening out onto balconies shall be located to open against a side wall or rail.

#### 4.3 OTHER AMENITIES

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.1.6 Doors
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour

#### **RATIONALE**

The provision of parking spaces near the entrance to a facility is important to accommodate persons with a varying range of abilities as well as persons with limited mobility. Medical conditions, such as arthritis or heart conditions, using crutches or the physical act of pushing a wheelchair, all make it difficult to travel long distances. Minimizing travel distances is particularly important outdoors, where weather conditions and ground surfaces can make travel both difficult and hazardous.

In addition to the proximity to entrances, the sizes of accessible parking *spaces* is important. A person using a mobility aid such as a wheelchair requires a wider parking stall to accommodate the manoeuvring of the wheelchair beside the car or van. A van may also require additional *space* to deploy a lift or ramp through the side or back door. An individual would then require *space* for the deployment of the lift itself as well as additional space to manoeuvre on/off the lift.

Heights along the routes to accessible parking is a factor. Accessible vans may have a raised roof resulting in the need for additional overhead clearance. Alternatively, the floor of the van may be lowered, resulting in lower tolerances for speed bumps and pavement slope transitions. The number of accessible parking spaces required by this section may not be sufficient in some facilities (such as seniors' centres) where increased numbers of persons with disabilities may be expected. In this situation, the number of accessible parking spaces may be increased from the requirements in this standard.

Wherever possible locate parking signs away from pedestrian routes, as they may constitute an overhead and/or protruding hazard. It is preferable that the sign be placed at the curb line to denote the end of the parking space.

# **4.3.12 PARKING**

#### **APPLICATION**

This standard is applicable to all new parking structures and surface parking lots. For existing structures and surface parking lots undergoing renovations/alterations, standards should be employed to the greatest extent possible.

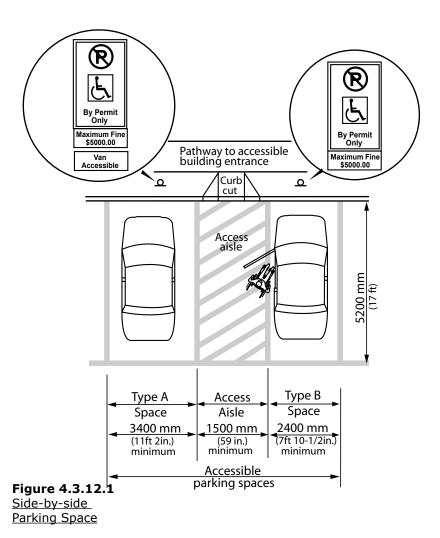
The number of designated parking *spaces* shall be in accordance with Table 4.3.12. and shall be located on the shortest possible circulation route, with minimal traffic flow crossing, to an *accessible facility entrance* (e.g., in lots serving a particular *facility*) or to an *accessible* pedestrian *entrance* of the parking *facility* (e.g., in lots not serving a particular *facility*).

Accessible routes to accessible parking spaces shall be configured to avoid travel behind parked vehicles or along vehicle routes.

In facilities with multiple accessible entrances with adjacent parking, designated parking spaces shall be dispersed and located closest to the accessible entrances.

If more than one off-street parking facility is provided, parking requirements shall be calculated individually for each parking facility.

If more than one off-street parking facility is provided, parking spaces for the use of persons with disabilities shall be distributed among the multiple lots to provide equivalent or greater accessibility in terms of distance from an accessible entrance or user convenience.



# **4.3.12 PARKING**

# **DESIGN REQUIREMENTS**

An accessible route shall be provided from each designated parking space to an accessible entrance into the facility.

Designated accessible parking spaces shall

- be located on an accessible route complying with 4.1.4;
- be provided within 30m (98 ft. 5 in.) of an accessible building
- have a firm, level surface with a maximum of 1.5% running slope for drainage;
- have a maximum cross slope of 1%;
- have a height clearance of at least 2750 mm (9 ft.) at the parking space and along the vehicle access and egress routes; and
- incorporate signage as outlined in this section.

**Space** 

Accessible parking spaces shall

- be provided in two sizes;
  - Type A shall have an unobstructed rectangular area with a minimum width of 3400 mm (11 ft. 2 in.) and a minimum length of 5200 mm (17ft);
  - Type B shall have an unobstructed rectangular area with a minimum width of 2400 mm (7 ft. 10-1/2 in.) and a minimum length of 5200 mm (17ft);
- incorporate pavement markings containing the International Symbol of Access in accordance with Figure 4.4.7.4. Markings to include a 1525 x 1525 (5 ft. x 5 ft.) white border and symbol with a blue background field colour;
- have an adjacent access aisle that
  - is at least 1500 mm (59 in.)
  - is clearly marked with high tonal contrast diagonal lines;
  - may be shared between two spaces; (Refer to Figures 4.3.12.1 and 4.3.12.2).
  - where possible, provide the option of access aisles on either side of an accessible

#### the vehicle access and egress routes,

of at least 2750 mm (108 in.) at outdoor parking; and

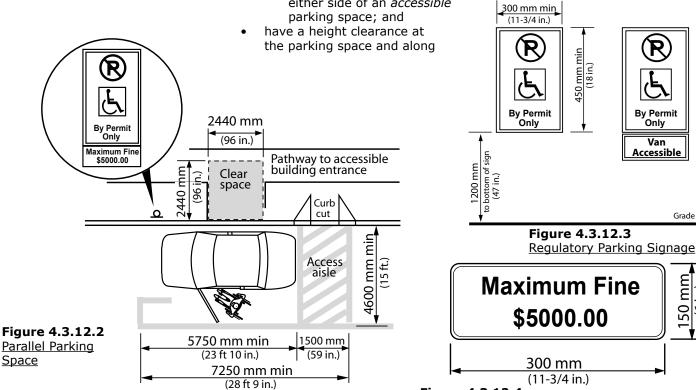
4.3 OTHER AMENITIES

- of at least 2590 mm (98 in.) at indoor parking, including vehicular entrances.
- Ontario Building Code (OBC) stipulates that the minimum unobstructed height of a below grade parking structure is 2.1m.

It is preferred that the above dimensions are followed; however, in a retrofit situation where it is technically infeasible, use OBC dimensions.

Accessible parallel parking stalls should be at least 7250 mm (23ft-10in.) in length and 4600 mm (15 ft.) in width. In a retrofit situation where it it technically infeasible to provide a depth of 4600 mm (15 ft.), the depth may be reduced to match the other parallel parking spaces on the street.

It is preferred to provide a clear space of at least 2440 mm (96 in.) by 2440 mm (96 in.) at the curb level, adjacent to the passenger side for parallel parking spaces.



in.)

9)

Figure 4.3.12.4

Second Accessible Parking Signage

# **DESIGN REQUIREMENTS** (Continued)

Indoor parking facilities shall incorporate a sign at the vehicle entrance indicating the minimum overhead clearance at the parking space and along the vehicle access and egress routes.

Signage of accessible parking spaces shall incorporate an official designated accessible parking space sign developed by the Ministry of Transportation (1991).

Each accessible parking space shall be designated with signage that is

- mounted vertically in a permanent manner;
  - if mounted on a post, the post shall be colour contrasted with the background environment;
- at least 300 mm (11-3/4 in.) wide x 450 mm (17-3/4 in.) high;
- installed at a height of 1200 mm (47 in.) from the ground/floor surface to the bottom edge of the sign;
- for perpendicular parking, centred on the parking space; and
- for parallel parking, located toward the end of the parking space, on the opposite side from the access aisle.

# **4.3.12 PARKING**

A second sign to deter illegal usage of the accessible parking space is recommended to be mounted below the regulated sign outlined in figure 4.3.12.4, noting the maximum fine of \$5000.

Where the location of designated parking *spaces* is not obvious or is distant from the approach viewpoints, directional signage shall be placed along the route leading to the designated parking *spaces*. Such directional *signage* shall incorporate the symbol of access and the appropriate directional arrows.

Where the location of the nearest accessible entrance is not obvious or is distant from the approach viewpoints, directional signs shall be placed along the route leading to the nearest accessible entrance to the facility. Such directional signage will incorporate the symbol of access and the appropriate directional arrows.

When constructing or redeveloping existing on-street parking spaces, designated public sector organizations shall consult on the need, location and design of accessible on-street parking spaces and shall do so in the following manner:

 Designated public sector organizations must consult with the public and persons with disabilities.  Municipalities must also consult with their municipal accessibility advisory committees, in accordance with AODA, IASR, Design of Public Spaces Standards, Section 80.39.

In this section, "designated public sector organization" means every municipality and every person or organization described in Schedule 1 of Ontario Regulation 191/11 (Integrated Accessibility Standards), but not persons or organizations listed in Column 1 of Table 1 to Ontario Regulation 146/10 (Public Bodies and Commission Public Bodies - Definitions) made under the Public Service of Ontario Act, 2006.

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.1.3 Protruding and Overhead Objects
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.1.10 Curb Ramps
- 4.4.7 Signage
- 4.4.8 Detectable Warning Surfaces
- 4.4.13 Lighting
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour

12 or less     1       13 - 100     4% of the total (1)(2)       101 - 200     1 space plus 3% of the total (2)	Total Number of Required Parking Spaces	Minimum Number of Required Accessible Parking Spaces
	12 or less	1
101 - 200 1 space plus 3% of the total (2)	13 - 100	4% of the total (1)(2)
<u> </u>	101 - 200	1 space plus 3% of the total (2)
201 - 1000 2 spaces plus 2% of the total (2)	201 - 1000	2 spaces plus 2% of the total (2)
more than 1000 11 spaces plus 1% of the total (2)	more than 1000	11 spaces plus 1% of the total (2)

- (1) Where only 1 accessible parking space is required, a Type A accessible parking space shall be provided.
- (2) Where more than 1 accessible parking space is required (2.1) if an even number of accessible parking spaces are required, an equal number of Type A and Type B accessible parking spaces must be provided; (2.2) if an odd number of accessible parking spaces are required, an equal number of Type A and Type B accessible parking spaces must be provided and the odd space may be a Type B accessible parking space.

Table 4.3.12

Designated Parking
Spaces Requirements
(Table 3.1.3.1, City of
Mississauga Zoning
By-law 0225-2007.)

# 4.3.13 PASSENGER LOADING ZONES

#### **RATIONALE**

Passenger-loading zones are important features for individuals who may have difficulty in walking distances or those who use parallel transit systems. Accessible transit vehicles typically require space for the deployment of lifts or ramps and overhead clearances. Protection from the elements will be beneficial to all users and particularly those that may have difficulty with mobility.

#### **APPLICATION**

Where passenger-loading zones are provided, at least one shall comply with this section.

Accessible passenger-loading zones shall be identified with signage complying with applicable provisions of 4.4.7.

A passenger loading zone typically includes a driveway, a lay-by for the stopped vehicles, the access aisle for the loading and unloading, and the pedestrian path of travel.

and the lay-by can be used to prevent vehicles from pulling into the access aisle.

# **DESIGN REQUIREMENTS**

Passenger-loading zones shall

- be on an accessible route complying with 4.1.4;
- provide an access aisle that is
  - at least 2440 mm (96 in.) wide and 7400 mm (24 ft 3 in.) long;
  - adjacent and parallel to the vehicle pull-up space; and
  - separated from the walkway either by a curb containing a curb ramp that complies with 4.1.10 or by a detectable warning surface that complies with 4.4.8.
- have a *curb ramp* complying with 4.1.10 where there are curbs between the access aisle and the vehicle pull-up space; and
- have a minimum vertical clearance of 3600 mm (11 ft. 10 in.) at the loading zone and along the vehicle access route to such areas to and from the site entrances.

# 4.3 OTHER AMENITIES

In a retrofit situation where providing a 2440 mm (96 in.) wide access aisle is technically infeasible, the access aisle width may be reduced to 2000 mm (78-3/4 in.).

#### **RELATED SECTIONS**

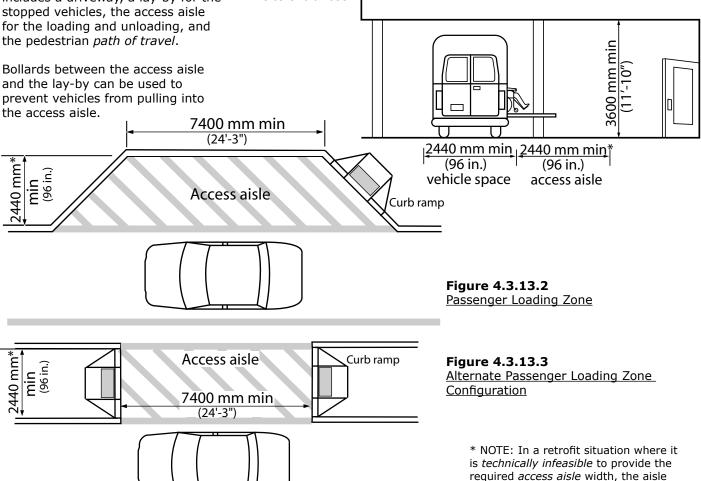
- Space and Reach 4.1.1 Requirements
- 4.1.2 Ground and Floor Surfaces
- Protruding and Overhead 4.1.3 Objects
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.1.10 Curb Ramps
- 4.4.7 Signage
- 4.4.8 **Detectable Warning** Surfaces
- 4.4.13 Lighting
- 4.4.14 Materials and Finishes

width may be reduced to 2000 mm (78-

3/4 in.)

4.4.15 Texture and Colour

Figure 4.3.13.1 Clearances at Passenger Loading Zone



# 4.3 OTHER AMENITIES

#### **RATIONALE**

Landscape materials, trees, shrubs and plants should be selected and located with a wide variety of users in mind. For instance, plants and shrubs with a variety of fragrances can provide an interesting orientation cue for persons with vision loss/no vision. Using contrasting flowers near walkways can also be helpful as a guide. Plants with thorns may constitute a walking hazard. Plants that drop large seed pods can present slipping hazards, as well as difficulties for pushing a wheelchair. Plantings and tree limbs that overhang pathways can impede all users and be a particular hazard to an individual with a vision loss/no vision.

Raised beds can better accommodate persons who use a mobility device or those that have difficulty in bending to enjoy or tend to plantings.

The use of unit pavers as a walking/wheeling surface is not recommended, unless they are laid in a location that is not subject to the effects of settlement and frost heave, such as over a structural slab or indoors.

#### **APPLICATION**

Landscaping materials and plantings contained within the site shall comply with this section.

Where plant beds are provided for gardening use of the general public, clients, customers or employees, at least 10% of the area of the plant beds, but not less than one, shall comply with this section.

# 4.3.14 LANDSCAPING MATERIALS AND PLANTINGS

# **DESIGN REQUIREMENTS**

Accessible plant beds shall be

- located on an accessible route complying with 4.1.4; and
- raised above the adjacent floor or ground surface 460 mm (18 in.) up to 610 mm (24 in.). Dimensions will vary depending on the type of raised bed (i.e. closed in or open underneath). If open underneath, knee clearance will need to be considered. For further guidance refer to document: "Barrier-Free Community Gardening in Waterloo Region": http:// chd.region.waterloo.on.ca/ en/partnersProfessionals/ resources/BarrierFreeGardens Guide.pdf.

Where variations in grading immediately adjacent to pedestrian walkways are potentially hazardous (particularly to persons who are visually impaired), the hazardous edges of the walkway shall incorporate clearly defined, canedetectable curbs at least 75 mm (3 in.) high.

Shrubs with thorns and sharp edges shall be planted at least 920 mm (36 in.) away from *accessible pathways* and seating areas.

Plants that drop large seed pods shall not overhang or be positioned near accessible paths or walkways.

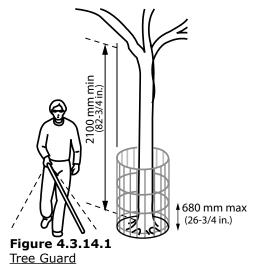
Permanent guy wires shall not be used in any area which is intended for use by the general public, clients, customers or employees.

Temporary guy wires, such as those used when planting new trees, shall be clearly identified using strong colour contrast.

Tree guards shall conform to 4.1.3.

Overhanging branches of trees or shrubs over *walkways* or *paths* shall not reduce the available headroom at any part of the *walkway* or *path* to less than 2100 mm (82-3/4 in.).

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.1.3 Protruding and Overhead Objects
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.4.8 Detectable Warning Surfaces
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour



# **4.3.15 BENCHES**

# 4.3 OTHER AMENITIES

#### **RATIONALE**

Benches provide convenient resting places for all individuals and are especially important for those who may have difficulty with standing or walking for extended periods. Benches should be placed adjacent to pedestrian walkways to provide convenient rest places without becoming potential obstructions. Appropriate seat heights can facilitate sitting and rising for individuals such as senior citizens. Armrests may also provide assistance in sitting and rising. A person with vision loss/no vision may find it easier to locate benches if they are located adjacent to a landmark, such as a large tree, a bend in a pathway, or a sound source.

### **APPLICATION**

All benches, except those located in unpaved areas of *parks*, wilderness, beach or unpaved picnic areas, shall be *accessible* to persons using wheelchairs or other mobility devices.

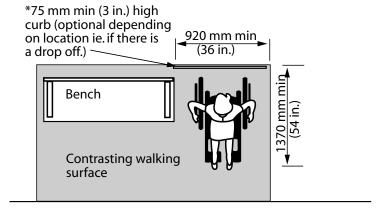
# **DESIGN REQUIREMENTS**

Benches shall

- be adjacent to an accessible route complying with 4.1.4;
- be stable;
- have a seat height between 450 mm (17-3/4 in.) and 500 mm (19-5/8 in.) from the ground;
- · have arm and back rests;
- be of contrasting colour to their background; and
- have an adjacent level, firm ground surface at least 920 mm (36 in.) x 1370 mm (54 in.).

#### **RELATED SECTIONS**

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.1.3 Protruding and Overhead Objects
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.4.8 Detectable Warning Surfaces
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour



Accessible pathway

\* To reduce need for 75mm edge protection where bench is located adjacent to 3:1 grade change, provide a minimum 1000 mm (39-3/8 in.) shoulder with a 2% slope from edge of bench pad. Where a 1.0m shoulder cannot be provided, 75mm high edge protection must be provided.

Figure 4.3.15.1 Rest Area



Figure 4.3.15.2 Bench Seating

# 4.3 OTHER AMENITIES

#### **RATIONALE**

Tables with an extension of the table surface make them *accessible* to a person using a wheelchair.

A firm, level surface around the table, with an *accessible path* leading to the table, is required for wheelchair and scooter accessibility. A change in texture from a *pathway* to the table area is an important cue for a person with vision loss/no vision.

Tables that have the support leg(s) in the centre of the table provide a higher level of accessibility.

# **APPLICATION**

If tables are provided in an accessible public or common use area, at least 20%, but not less than one, for each cluster of tables shall comply with this section. It is preferable to have all tables comply with this section.

Table seating should provide a variety of locations that allow a choice of view, sun or shade, and protection from outdoor elements such as wind or rain.

Ensure that chairs with armrests are provided for banquet halls, restaurants and cafeterias.

# **DESIGN REQUIREMENTS**

Tables shall

- have an accessible route leading to the table, and be adjacent to an accessible route complying with 4.1.4;
- have knee space under the table at least 810 mm (32 in.) wide by 480 mm (19 in.) deep and 685 mm (27 in.) high;
- have its top surface located between 810 mm (32 in.) to 865 mm (34 in.) above the finished floor or ground surface;
- be of contrasting colour to their background; and
- have a level, firm ground surface extending min. 2000 mm (78-3/4 in.) on at least two sides of the table for persons who use wheelchairs or scooters and min. 1220 mm (48 in.) on the other sides.

# **4.3.16 PUBLIC USE EATING AREAS**

Illumination is a consideration when positioning outdoor eating areas. Lighting should comply with the requirements of 4.4.13.

In a retrofit situation where it is technically infeasible to provide the required level surface, the dimensions may be reduced to min. 1220 mm (48 in.) on all sides.

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.1.3 Protruding and Overhead Objects
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.4.8 Detectable Warning Surfaces
- 4.4.13 Lighting
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour

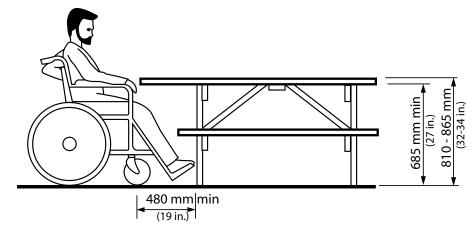
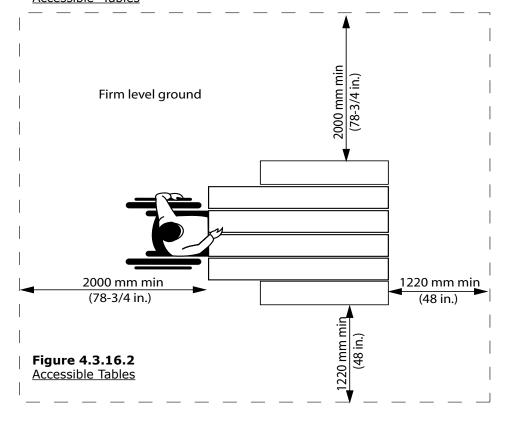


Figure 4.3.16.1
Height and Knee Space at
Accessible Tables



# 4.3.17 STREETSCAPES

#### 4.3 OTHER AMENITIES

#### **RATIONALE**

Clear paths of travel are important to all individuals using sidewalks and pathways.

Streetscape elements such as newspaper boxes, trash bins, outdoor patios and bus shelters present a barrier to all pedestrians, especially those that require additional space for use of wheelchairs, scooters, strollers or delivery carts. For persons with a visual *impairment*, unidentified obstructions within pathways can present a hazard.

walking distances. Such furniture should incorporate strong colour contrasts and be located off pathways, to minimize its potential

Benches can provide a resting place for an individual with difficulty in

as an obstruction to pedestrians.

**APPLICATION** 

Streetscape elements, including but not limited to, waste receptacles, light standards, signs, planters, mail boxes, vending machines, benches, traffic signals and utility boxes located along sidewalks or paths of travel and contained within the site, shall comply with this section, including streetscape elements that are located inside or outside of facilities.

All waste receptacles, except those located in unpaved areas of parks, wilderness, beach or unpaved picnic areas or large industrial containers, shall be accessible to persons using wheelchairs or other mobility devices.

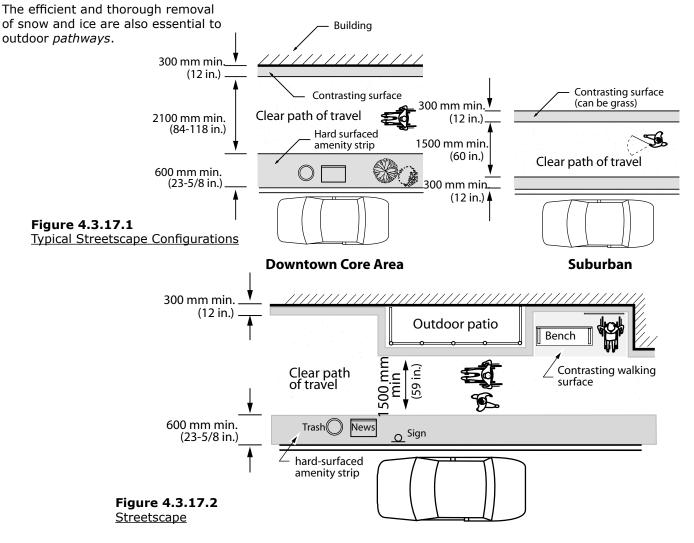
# **DESIGN REQUIREMENTS**

Clearances along pedestrian routes must comply with 4.1.3.

Primary pedestrian routes shall provide a clear and maintained accessible route of at least 2100 mm (82-5/8 in.) wide along the sidewalk.

Non-primary pedestrian routes, shall provide a clear and maintained accessible route at least 1500 mm (59 in.) wide along the sidewalk.

The *accessible routes* along primary pedestrian routes must be identified using a minimum 300 mm (11-3/4 in.) wide continuous contrasting surface along each side of the accessible route. It is preferred that all accessible routes include a minimum 300 mm (11-3/4 in.) *indicator surface* along each



# 4.3 OTHER AMENITIES

# **DESIGN REQUIREMENTS** (Continued)

Streetscape elements shall

- not reduce the required width of the accessible route;
- be cane-detectable, in compliance with 4.1.3;
- be consistently located to one side of the accessible route, entirely within an amenity strip that is hard-surfaced, at least 600 mm (23-5/8 in.) wide, and is identified using a indicator surface;
- be securely mounted within an amenity strip, minimum 600 mm (23-5/8 in.) wide, located adjoining walkways, paths of travel, sidewalks and other accessible routes; and
- incorporate pronounced colour contrast to differentiate it from the surrounding environment.

Waste receptacles and recycling bins shall be large enough to contain the anticipated amount of waste, so that overflows do not cause a tripping hazard.

Waste receptacles and recycling bins in *accessible* open areas, such as *parks*, wilderness areas, beaches or picnic areas, shall be mounted on firm, level pads adjacent to the *path* or sidewalk (but not directly beside seating areas).

# 4.3.17 STREETSCAPES

Waste receptacles and recycling bins shall be clearly identified by suitable lettering, in compliance with the relevant parts of 4.4.7.

Where lids or openings are provided on waste receptacles and recycling bins, they shall be mounted no higher than 1060 mm (42 in.) above the adjacent floor or ground surface. Opening mechanisms shall comply with 4.4.2.

Where mailboxes are provided on a *site* for facility and/or community access, they shall

- be located immediately adjacent to an accessible route;
- incorporate a *clear* area at least 760 mm (30 in.) wide x 1370 mm (54 in.) long in front of usable parts;
- where provided, have slots for posting mail located to be reachable from a seated position;
- where provided, have at least 10%, but no less than one, mailbox for collecting mail, located to be reachable from a seated position;
- have operating mechanisms in compliance with 4.4.2; and
- be kept *clear* of snow.

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.1.3 Protruding and Overhead Objects
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.1.6 Doors
- 4.1.10 Curb Ramps
- 4.3.1 Drinking Fountains
- 4.3.11 Balconies, Porches, Terraces and Patios
- 4.3.12 Parking
- 4.3.13 Passenger Loading Zones
- 4.3.15 Benches
- 4.3.16 Public Use Eating Areas
- 4.3.19 Service Animal Relief Areas
- 4.4.3 Vending and Ticketing Machines
- 4.4.5 Public Telephones
- 4.4.7 Signage
- 4.4.8 Detectable Warning Surfaces
- 4.4.13 Lighting
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour

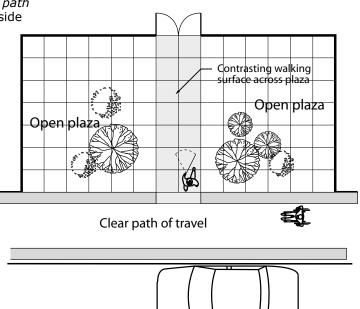


Figure 4.3.17.3
Pathway across Open Plaza

# 4.3.18 KITCHENS AND KITCHENETTES

#### **RATIONALE**

Kitchens, kitchenettes and coffee stations require an appropriate level of access to be useable by persons with disabilities. Adequate manoeuvring space is required for users of mobility equipment to approach and use work surfaces, storage elements and appliances. A frontal approach to work surfaces and appliances is generally preferred, except at refrigerators where a side approach is preferred. Where a frontal approach is used, knee space and toe space are required.

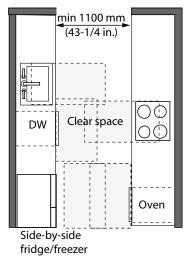


Figure 4.3.18.1 Pass-Through Kitchen

The use of colour contrast between kitchen elements will assist persons with low vision locate surfaces, appliances and controls. Darker coloured work surfaces are preferable as they make it easier to identify objects located on them.

#### **APPLICATION**

Kitchens and kitchenettes intended for use by staff or the public shall comply with this section. Exception: Commercial kitchens.

At least 50% of shelf *space* in storage facilities shall comply with this section.

# **DESIGN REQUIREMENTS**

Pass-through kitchens shall have

- where counters, appliances or cabinets are on two opposing sides, or when counters, appliances or cabinets are opposite a parallel wall, clearance between all opposing base cabinets, counter tops, appliances, or walls within a kitchen work area of 1100 mm (43-1/4 in.) minimum; and
- two entries.

U-shaped kitchens enclosed on three continuous sides shall have a minimum clearance of 2440 mm (96 in.) between all opposing base cabinets, counter tops, appliances,

# 4.3 OTHER AMENITIES

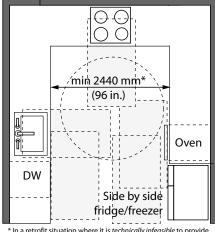
or walls within kitchen work areas. In a retrofit situation where providing a 2440 mm (96 in.) space is technically infeasible, this space may be reduced to 2130 mm (84 in.).

Storage elements shall

- be located on an accessible route with adjacent clear floor space in compliance with 4.1.1;
- comply with at least one of the reach ranges specified in 4.1.1;
   and
- incorporate operable portions in compliance with 4.4.2.

#### Kitchen sinks shall

- be located on an accessible route with adjacent clear floor space for a forward approach. Exceptions: A parallel approach is permitted to a kitchen sink where a cook top or conventional range is not provided and to wet bars;
- where a forward approach is provided, incorporate knee space below at least 810 mm (32 in.) wide, 480 mm (18-7/8 in.) deep, and 685 mm (27 in.) high;
- have the height of the rim or the counter top (whichever is higher) 710-856 mm (28-34 in.);
- incorporate faucets and other controls in compliance with 4.4.2;



\* In a retrofit situation where it is *technically infeasible* to provide 2440 mm (96 in.), this dimension may be reduced to 2130 mm (84 in.)

Figure 4.3.18.2 U-Shaped Kitchen

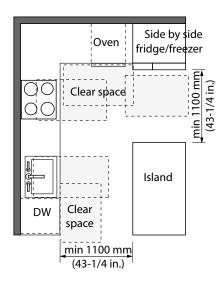


Figure 4.3.18.3 L-Shaped Kitchen with Island

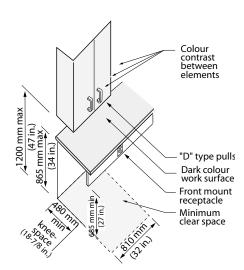


Figure 4.3.18.4 Storage Elements

# 4.3 OTHER AMENITIES

# **DESIGN REQUIREMENTS** (Continued)

- have water supply and drain pipes under the sink insulated or otherwise configured to protect against contact; and
- incorporate no sharp or abrasive surfaces under the sink.

#### Kitchen appliances shall

- be located on an accessible route with adjacent clear floor space in compliance with 4.1.1;
   and
- incorporate controls and operable portions in compliance with 4.4.2. Exceptions: Appliance doors and door latching devices.

Dishwashers shall incorporate clear floor space adjacent to the dishwasher door. The dishwasher door, in the open position, shall not obstruct the clear floor space for the dishwasher or the sink.

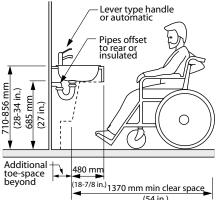
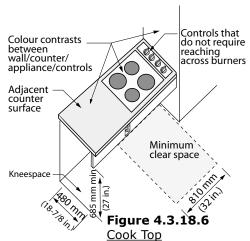


Figure 4.3.18.5 Kitchen Sink



# 4.3.18 KITCHENS AND KITCHENETTES

Ranges and cooktops shall

- incorporate controls that are located to avoid reaching across the burners; and
- where a forward approach is provided
  - incorporate knee space below at least 810 mm (32 in.) wide, 480 mm (18-7/8 in.) deep, and 685 mm (27 in.) high; and
  - insulate or otherwise configure the appliance to prevent burns, abrasions, or electrical shock.

#### Ovens shall

- have controls located on the front panels, mounted no higher than 1400 mm (55-1/8 in.);
- where side-hinged doors are used, be located
  - with an adjacent work surface positioned adjacent to the latch side of the door; and
  - incorporate a pull-out shelf below the oven; and
- where bottom-hinged doors are used, be located with an adjacent work surface positioned adjacent to one side of the door.

In facilities with childrens' programs, ranges, cooktops and ovens shall be equipped with a safety switch to de-activate appliance controls.

Refrigerators/freezers shall

- be configured with at least 50% of the freezer space maximum 1370 mm (54 in.) above the floor; and
- incorporate clear floor space in front, positioned for a parallel approach immediately adjacent to the refrigerator/freezer, with the centre-line of the clear floor space offset 610 mm (24 in.) maximum from the front face of the refrigerator/freezer.

Kitchen elements shall incorporate colour contrast to visually differentiate the cabinets and appliances from adjacent wall and floor surfaces, the countertop from the cabinets and adjacent walls, and operable hardware on cabinets.

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.1.3 Protruding and Overhead Objects
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.4.12 Glare and Light Sources
- 4.4.13 Lighting
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour

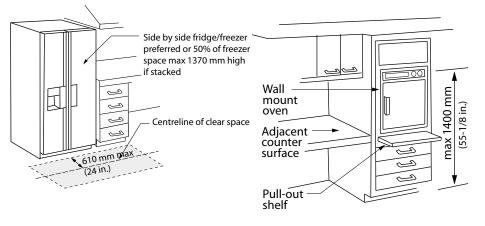


Figure 4.3.18.7 Fridge/Freezer

Figure 4.3.18.8 Wall-Mounted Oven

# **4.3.19 SERVICE ANIMAL RELIEF AREAS**

# 4.3 OTHER AMENITIES

#### **RATIONALE**

Persons who use a guide dog, who are accompanied by a working companion dog or who utilize other service animals to assist them with mobility, require access to an area for their service animal to relieve themselves. Such service animal relief areas need to be in an accessible location, feature good drainage and provide a garbage can for waste disposal.

## **APPLICATION**

Service animal relief areas should be provided near large public facilities, such as community centres, arenas, sports fields, parks and outdoor recreation areas, any building where a service animal owner is employed, and in buildings of assembly occupancy which incorporate a meeting space for 50 or more people.

# **DESIGN REQUIREMENTS**

Service animal relief areas shall;

- Be adjacent to an accessible route complying with 4.1.4;
- Be located within 30 metres (98 ft. 5 in.) of an accessible entrance;
- Be an unobstructed, dedicated space at least 1500 x 1500 mm (59 x 59 in.) in size;
- Incorporate a ground surface with drainage (Note: grass is preferable to gravel);
- Incorporate an accessible garbage can;
- Be located away from busy traffic areas such as vehicular access routes and loading docks; and
- Be identified by signage saying "Service Animal Relief Area" complying with 4.4.7.

- 4.1.4 Accessible Routes, Paths and Corridors
- 4.3.17 Streetscapes
- 4.4.7 Signage

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# 4.4.1 EMERGENCY EXITS, FIRE EVACUATION AND AREAS OF RESCUE ASSISTANCE

#### **RATIONALE**

In order to be accessible to all individuals, emergency exits must include the same accessibility features as other doors specified in 4.1.6. The doors and routes must also be marked in a way that is accessible to all individuals, including those who may have difficulty with literacy, such as children or persons speaking a different language. Persons with vision loss/no vision will need a means of quickly locating exits audio or talking signs could assist. In the event of fire when elevators cannot be used, areas of rescue assistance are an asset to anyone who would have difficulty traversing sets of stairs.

#### **APPLICATION**

In facilities, or portions of facilities, required to be accessible, accessible means of egress shall be provided in the same number as required for exits by the Ontario Building Code.

Where required exits from a floor level are not accessible, areas of rescue assistance shall be provided on the floor level in a number equal to that of the required exits.

Every occupiable level in nonresidential occupancies above or below the first storey (as defined by the Ontario Building Code) that is accessible, shall

- be served by an elevator that has protection features, as specified in the Ontario Building Code; or
- be divided into at least two zones by fire separations, as specified in the Ontario Building Code.

In occupiable levels above or below the first storey in residential occupancies, the requirements for a protected elevator or two fire zones may be waived, if an appropriate balcony (as specified in the Ontario Building Code) is provided for each suite.

Areas of rescue assistance shall comply with this section.

A horizontal exit meeting the requirements of the Ontario Building Code shall satisfy the requirements for an *area of rescue assistance*.

# **DESIGN REQUIREMENTS**

Where emergency warning systems are provided, they shall include both audible alarms and visible alarms. Visual alarms shall comply with 4.4.4.

Accessible means of egress shall comply with 4.1.4.

Accessible means of egress shall be identified with signage in compliance with the applicable provisions of 4.4.7.

Optional: Evacuation chairs may be placed at significant areas where applicable.

Areas of rescue assistance shall

- be located on an *accessible* route complying with 4.1.4;
- incorporate the number of rescue spaces in accordance with Table 4.4.1;
- be of a size that allows a minimum floor space of 850 mm (33-1/2 in.) x 1370 mm (54 in.) per non-ambulatory occupant;
- be separated from the floor area by a fire separation having a fire-resistance rating at least equal to that required for an exit;
- be served by an exit or firefighters' elevator;
- be designated as an area of rescue assistance for persons with disabilities on the facility plans and in the facility;
- be smoke protected in facilities of more than three storeys;

# 4.4 SYSTEMS AND CONTROLS

- incorporate a 2-way voice communication system for use between each area of rescue assistance and the central alarm and control facility; and
- be identified with signage in compliance with the applicable provisions of 4.4.7, stating AREA OF RESCUE ASSISTANCE and incorprating the international symbol for accessibility for disabled persons.

- 4.1.1 Space and Reach Requirements
- 4.1.2 Ground and Floor Surfaces
- 4.1.3 Protruding and Overhead Objects
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.1.6 Doors
- 4.4.2 Controls and Operating Mechanisms
- 4.4.4 Visual Alarms
- 4.4.7 Signage
- 4.4.8 Detectable Warning Surfaces
- 4.4.9 Public Address Systems
- 4.4.14 Materials and Finishes
- 4.4.15 Texture and Colour

Occupant load of the floor area served by the area of rescue assistance	Minimum number of rescue spaces
1 to 400	2
Over 400	3 plus 1 for each additional increment of 200 persons in excess of 400 persons

Table 4.4.1
Number of Rescue
Spaces

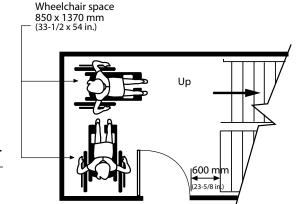


Figure 4.4.1.1

Area of Rescue

Assistance

**RATIONALE** 

Operating mechanisms that require a high degree of dexterity or strength will be difficult for many people to use. They can also be obstacles for children, individuals with arthritis or even someone wearing gloves. Controls that require two hands to operate can also be difficult for some people, particularly those with reach or balance limitations, or those who must use their hands to hold canes or crutches.

The placement of controls is integral to their accessibility. For the individual using a wheelchair, the height of the controls and the space to position the wheelchair in front of the controls are important. Controls placed high on a wall are also difficult for children or persons of short stature.

Individuals with vision loss/no vision may have difficulty with flush-mounted buttons, touch screens or controls without tactile markings. Controls that contrast in colour from their background, including colour-contrasted raised letters, may be easier to find by an individual with vision loss/no vision. Persons with cognitive challenges may find counterintuitive controls or graphics difficult.

# **APPLICATION**

Controls and operating mechanisms generally used by staff or public (e.g., light switches and dispenser controls) shall comply with this section. Exception: Restricted-access controls.

# 4.4.2 CONTROLS AND OPERATING MECHANISMS

# **DESIGN REQUIREMENTS**

A clear, level floor area at least 760 mm x 1370 mm (30 in. x 54 in.) shall be provided at controls and operating mechanisms, such as dispensers and receptacles.

The operable portions of controls and operating mechanisms such as electrical switches, thermostats and intercom switches, shall be located between 900 mm (35-1/2 in.) and 1100 mm (43-1/4 in.) from the floor. Thermostats and manual pull stations shall be mounted 1200 mm (47-1/4 in.) above the floor. Exceptions: Elevators and power door operator controls - Refer to 4.1.6 and 4.1.14. For card-entry systems an encoded entry/exit systems such as keypads - Refer to 4.4.11.

Electrical outlets and other types of devices shall be located no lower than 400 mm (15-3/4 in.). Exception: Where electrical outlets are provided as components of systems furniture, these devices need not comply with this section provided they are installed in addition to electrical outlets required by the Authority having Jurisdiction.

Faucets and other controls shall be hand-operated or electronically controlled.

Hand-operated controls and mechanisms shall be operable

- with a closed fist;
- without tight grasping, pinching, or twisting of the wrist; and
- with a force of no more than than 22N (5 lb.).

Controls and operating mechanisms shall be capable of being illuminated to at least a level of 100 lux (9.2 ft-candles).

Controls and operating mechanisms shall incorporate a pronounced colour contrast, to differentiate them from the surrounding environment.

- 4.1.1 Space and Reach Requirements
- 4.1.3 Protruding Objects and Overhead
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.1.6 Doors
- 4.1.7 Gates, Turnstiles and Openings
- 4.1.8 Windows, Glazed Screens and Sidelights
- 4.1.14 Elevators
- 4.1.15 Platform Lifts
- 4.2.2 Toilet Stalls
- 4.2.3 Toilets
- 4.2.4 Lavatories
- 4.2.5 Urinals
- 4.2.6 Washroom Accessories
- 4.2.7 Universal Washrooms
- 4.2.8 Bathtubs
- 4.2.9 Showers
- 4.3.1 Drinking Fountains
- 4.3.4 Change/Dressing Rooms
- 4.3.5 Offices, Work Areas and Meeting Rooms
- 4.3.9 Storage, Shelving and Display Units
- 4.3.10 Lockers and Baggage Storage
- 4.3.17 Streetscapes
- 4.4.3 Vending and Ticketing Machines
- 4.4.5 Public Telephones
- 4.4.10 Information Systems
- 4.4.11 Card Access, Safety and Security Systems
- 4.4.13 Lighting
- 4.4.15 Texture and Colour

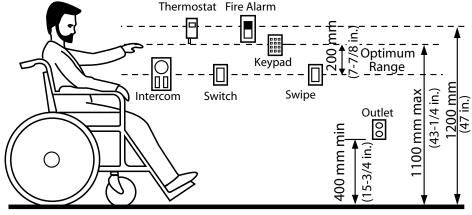


Figure 4.4.2.1
Reach Range for Accessible Controls

# 4.4.3 VENDING AND TICKETING MACHINES

# 4.4 SYSTEMS AND CONTROLS

#### **RATIONALE**

Space in front of vending machines allows for manoeuvrability of mobility aids. Seating areas and tables adjacent to vending machines offer convenience and should accommodate the spatial requirements of a wheelchair or scooter. The selection of the machines should include a number of factors. Operating mechanisms should be within reach of children and individuals in wheelchairs. The mechanisms should be operable with one hand and minimal strength, to accommodate a host of disabilities including arthritis, or the need to stabilize oneself with a cane or a handful of bags. Lighting levels and colour contrasts make the machine more accessible to those with vision loss/no vision.

# **DESIGN REQUIREMENTS**

Vending and ticketing machines shall be located on an *accessible route* in compliance with 4.1.4.

Clear floor space in front of vending and ticketing machines shall conform to 4.1.1.

The controls and operating mechanisms on vending and ticketing machines shall comply with 4.4.2.

Signage on vending and ticketing machines shall be in highly contrasting lettering, at least 13 mm (1/2 in.) high. Ideally, lettering and signage shall comply with relevant parts of 4.4.7.

# **RELATED SECTIONS**

- 4.1.1 Space and Reach Requirements
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.4.2 Controls and Operating Mechanisms
- 4.4.15 Texture and Colour

# **APPLICATION**

Vending and ticketing machines shall comply with this section.

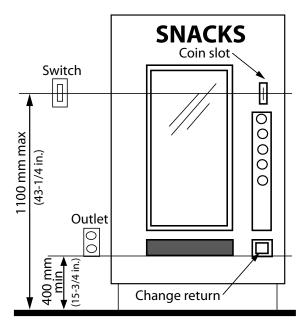


Figure 4.4.3.1 Vending Machine

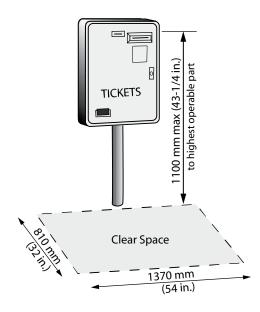


Figure 4.4.3.2 Ticket Dispensing Machine

# 4.4.4 VISUAL ALARMS

#### **RATIONALE**

Visual alarms are essential safety features for individuals who are deaf, deafened or hard of hearing such that they would not hear an audible alarm.

## **APPLICATION**

Visual alarms shall comply with this section.

At a minimum, visual alarm appliances shall be provided in *facilities* in each of the following areas: restrooms and any other general usage areas (e.g., *meeting rooms*), hallways, lobbies and any other areas for *common use*.

Visual alarm signal appliances shall be integrated into the *facility* alarm system. If single-station audible alarms are provided, then single-station visual alarms shall be provided.

A signal intended for the public to indicate the operation of a building security system that controls access to a building shall consist of an audible and visual signal.

# **DESIGN REQUIREMENTS**

Visual alarm signals shall have the following minimum photometric and location features:

- the lamp shall be a Xenon strobe type or equivalent;
- the colour shall be clear or nominal white (i.e. unfiltered or clear filtered white light);
- the maximum pulse duration shall be two-tenths of one second (0.2 sec) with a maximum duty cycle of 40 percent. The pulse duration is defined as the time interval between initial and final points of 10% of maximum signal;
- the intensity shall be a minimum of 75 candela;
- the flash rate shall be a minimum of 1 Hz and a maximum of 3 Hz;
- the appliance shall be placed 2100 mm (82-3/4 in.) above the floor level within the space or 150 mm (5-7/8 in.) below the ceiling, whichever is lower;
- in general, no place in any room or *space* required to have a visual signal appliance, shall be more than 15 meters (50 ft.) from the signal (in the horizontal plane). In large rooms and spaces exceeding 30 meters (100 ft.) across, without obstructions 2000 mm (78-3/4 in.) above the finished floor, such as auditoriums, devices may be placed around the perimeter, spaced a maximum of 30 meters (100 ft.) apart, in lieu of suspending appliances from the ceiling;
- no place in common corridors or hallways in which visual alarm signalling appliances are required shall be more than 15 m (50 ft.) from the signal; and
- visual component to smoke alarms to conform to the requirements in 18.5.3. (Light, Colour, and Pulse Characteristics) of NFPA 72 "National Fire Alarm and Signalling Code".

# **RELATED SECTIONS**

4.4.1 Emergency Exits, Fire Evacuation and Areas of Rescue Assistance

# 4.4.5 PUBLIC TELEPHONES

#### **RATIONALE**

The placement of telephones should address the limited reach of children or persons in a seated position. Longer cords facilitate the use of the phone for someone unable to get close to the phone due to a mobility device. Adjustable volume controls are important for persons who are hard of hearing, as are shelves that could support a TDD device. A fold-down seat is an asset to someone having difficulty standing for extended periods. Telephones projecting from a wall may present a hazard, particularly to persons with vision loss/no vision, if the sides are not configured to be canedetectable.

#### **APPLICATION**

Where public pay phones, public closed-circuit phones, or other public telephones are provided, they shall comply with this section to the extent required by Table 4.4.5.

All telephones required to be accessible shall be equipped with a volume control. In addition, 25%, but never less than one, of all other public telephones provided shall be equipped with a volume control and shall be dispersed among all types of public telephones, including closed-circuit telephones, throughout the facility.

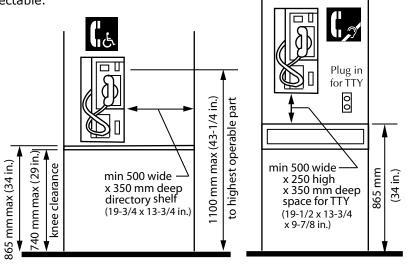


Figure 4.4.5.1

Accessible Telephone
for persons who use
Wheelchairs or Scooters

Figure 4.4.5.2

Accessible Telephone for Persons who are Deaf,
Deafened, Hard of Hearing, or Speech-Impaired

Number of each type of telephone provided on each floor	Number of accessible telephones required for persons who use wheelchairs or scooters	Number of accessible telephones required for persons who are deaf, deafened or hard of hearing
1 or more single units	1 per floor	1 per floor
1 bank	1 per floor	1 per floor
2 or more banks	1 per bank (Accessible phones may be installed as single units in proximity to (i.e. either visible or with signage) the bank. At least one public telephone per floor shall meet the requirements for a forward reach telephone.	1 per bank (Accessible phones may be installed as single units in proximity to (i.e. either visible or with signage) the bank. At least one public telephone per floor shall meet the requirements for a forward reach telephone.

# **Table 4.4.5**

Number of Accessible Telephones Required
Note: A bank consists of two or more adjacent public telephones, often installed as a unit.

# 4.4 SYSTEMS AND CONTROLS

Signage complying with applicable provisions of 4.4.7 shall be provided.

Where an interior public pay telephone is provided, then at least one interior public *text telephone* (*TTY*) shall be provided in the *facility* in a *public use* area.

Where an interior public pay telephone is provided in the secured area of a detention or correctional facility subject to 4.5.8, then at least one public text telephone shall also be provided in at least one secured area. Secured areas are those areas used only by detainees or inmates and security personnel.

# **DESIGN REQUIREMENTS**

Accessible telephones shall be on an accessible route complying with 4.1.4.

Telephones, enclosures and related equipment shall comply with 4.1.3.

Telephones shall have pushbutton controls where service for such equipment is available. The characters on the push buttons shall contrast with their background, which should be non-glare (matte finish), and the buttons themselves should contrast with their background.

The minimum handset cord length of *accessible* telephones shall be 1000 mm (39-3/8 in.).

The minimum illumination level at operating mechanisms, the directory, and shelf of *accessible* telephones shall be 200 lux (18.4 ft-candles).

# **DESIGN REQUIREMENTS** (Continued)

Accessible telephones shall

- comply with CSA Standard T515;
- have operable portions within the reach ranges specified in 4.1.1 and the coin slot, located maximum 1100 mm (43-1/4 in.) above the floor;
- have a shelf of at least 350 mm (13-3/4 in.) deep by 500 mm (19-3/4 in.) wide with a minimum 250 mm (9-7/8 in.) clear space above the shelf, to accommodate the use of a portable text telephone;
- have a separate telephone directory shelf (TTY only);
- be equipped with an electrical outlet, within or adjacent to the telephone enclosure (TTY only);
- be equipped with a handset capable of being placed flush on the surface of the shelf (TTY only);
- have a clear floor space of not less than 810 mm (32 in.) wide centred on phone by 1370 mm (54 in.) deep in front of the telephone. NOTE: This space may extend maximum 480 mm (18-7/8 in.) beneath the telephone shelf where knee space clearance of minimum 810 mm (32 in.) wide, 480 mm (18-7/8 in.) deep, and 740 mm (29 in.) is provided; and
- have the top surface of a section of shelf or counter serving at least 1 telephone shall be 775 mm (31 in.) to 865 mm (34 in.).

# 4.4.5 PUBLIC TELEPHONES

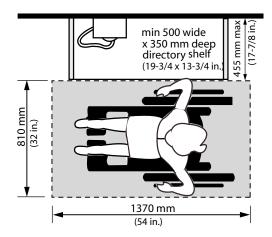
Text telephones (TTY's) used with a pay telephone shall be permanently affixed within, or adjacent to, the telephone enclosure. If an acoustic coupler is used, the telephone cord shall be sufficiently long to allow connection of the text telephone (TTY) and the telephone receiver.

As new phone technology is developed for persons who are deaf or hard of hearing, installation of these devices should be strongly considered (i.e. video relay).

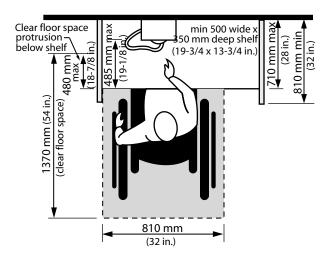
Accessible telephones shall be identified by the appropriate symbol of accessibility for mobility impaired persons and/or persons who are deaf or hard of hearing.

When directional signs for telephones are installed, they shall include the appropriate access symbols.

- 4.1.1 Space and Reach Requirements
- 4.1.3 Protruding and Overhead Objects
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.4.2 Controls and Operating Mechanisms
- 4.4.7 Signage
- 4.4.13 Lighting
- 4.4.15 Texture and Colour



**Figure 4.4.5.3**Parallel Approach to a Public Telephone



**Figure 4.4.5.4**Forward Approach to a Public Telephone

# 4.4.6 ASSISTIVE LISTENING SYSTEMS

# 4.4 SYSTEMS AND CONTROLS

## **RATIONALE**

The provision of assistive listening devices is important for the range of individuals who may have difficulty hearing.

Adequate and controllable lighting is required for persons who lip-read, or those who require increased task lighting, due to vision loss/no vision.

#### **APPLICATION**

Assistive listening systems shall comply with this section.

This section applies to assembly areas where audible communication is integral to the use of the space (e.g., concert theatres, meeting rooms, classrooms, auditoria, etc.). Such assembly areas shall have a permanently installed listening system in compliance with this section where:

(1) they accommodate at least 50 persons or where they have audio amplification systems or where greater than 100 sq.m. (1080 sq.ft.) in floor area; and (2) they have fixed seating.

For other assembly areas, a permanently installed listening system or an adequate number of electrical outlets or other supplementary wiring necessary to support a portable assistive listening system shall be provided. The minimum number of receivers to be provided shall be equal to 4% of the total number of seats, but no less than two.

# **DESIGN REQUIREMENTS**

Signage complying with applicable provisions of 4.4.7 shall be installed to notify patrons of the availability of a listening system.

Induction loops, infrared systems and FM radio frequency systems shall be considered acceptable types of assistive listening systems for persons who are hard of hearing.

Where an induction loop system is installed, dimmer switches and other controls that incorporate transformer coils shall be located so as not to interfere with the audio induction loop.

Where infrared assistive listening devices are used, overhead incandescent lights shall be located so as not to cancel out the infrared signal at the receiver.

Where an FM loop system or other assistive listening devices are available in public *facilities* or meeting areas, portable headsets that are compatible with personal hearing aids shall be made available.

Where an induction loop system is utilized, at least half the seating area shall be encompassed.

Where the listening system provided serves individual fixed seats, such seats shall be located within a 15 m (50-ft.) viewing distance of the stage or playing area and shall have a complete view of the stage or playing area.

# **RELATED SECTIONS**

4.4.7 Signage 4.4.13 Lighting 4.4.16 Acoustics

#### **RATIONALE**

Signage should be simple, uncluttered and incorporate plain language. The use of graphic symbols is helpful for individuals such as children; those with a limited literacy level; or those who speak a different language.

Sharp contrasts in colour make signage easier for anyone to read, particularly someone with vision loss/no vision. The intent of the symbol must be evident, culturally universal and not counterintuitive. To enhance readability, raised *tactile* lettering should incorporate edges that are slightly smoothed.

# **APPLICATION**

Signage shall comply with this section.

Signs that designate permanent rooms or *spaces* shall be wall-mounted and include *tactile* characters and numbers. Tactile markings shall also supplement the text of

- regulatory signs, such as prohibition and mandatory signs;
- 2. warning signs, such as caution and danger signs; and
- identification signs, such as rooms, titles, names or numbers.

Signs that provide direction to, or information about, functional *spaces*, shall comply with this section. Exception: *Facility* directories, menus and all other signs that are temporary are not required to comply.

Elements and spaces of accessible facilities that shall be identified by the International Symbol of Accessibility are

- parking spaces, designated as reserved for individuals with disabilities;
- accessible passenger loading
- accessible ramps located in a barrier-free path of travel serving a building entrance;
- accessible entrances when not all are accessible (inaccessible entrances shall have directional

# 4.4.7 SIGNAGE

signage to indicate the route to the nearest accessible entrance);

- accessible toilet and bathing facilities, including single-use portable units, when not all are accessible;
- accessible telephones;
- accessible elevators and other elevating devices;
- accessible means of egress; and
- areas of rescue assistance.

Audible signs (infrared and digital) that are readable by persons with vision loss/no vision using a receiving device may be the sole orientation aid across open *spaces*. Consideration should be given to including wire drops for future installation.





Figure 4.4.7.1
Colour Contrast on Signs

# **DESIGN REQUIREMENTS**

Letters and numbers on signs shall

- be sans serif (i.e. Helvetica, Univers 55, Verdana, Arial);\*
- have Arabic numbers;
- have a width-to-height ratio between 3:5 and 1:1; and
- have a stroke-width-to-height ratio between 1:5 and 1:10.

#### Note:

Character height dimensions for viewing distance shall comply with Table 4.4.7.

Signage should use a mix of upper and lower case letters.

Characters, symbols and backgrounds of signs shall have an eggshell, matte or other glare-free finish.

Characters and symbols shall have high tonal contrast with their background; either light characters on a dark background or dark characters on a light background.

Where signs are required to be tactile, letters and numerals shall be

- raised at least 0.8 mm (1/32 in.), not sharply edged;
- be between 16 mm (5/8 in.) and 50 mm (2 in.) high; and
- be sans serif\*, accompanied by Grade 2 Braille.

This is a **serif** font face

\* This is a **sans serif** font face

Minimum character height, mm	Maximum viewing distance, mm
200 (7-7/8 in.)	6000 (19 ft. 8 in.)
150 (5-7/8 in.)	4600 (15 ft. 0 in.)
100 (3-15/16 in.)	2500 (8 ft. 2-1/2 in.)
75 (2-15/16 in.)	2300 (7 ft. 6-1/2 in.)
50 (2 in.)	1500 (4 ft. 11 in.)
25 (1 in.)	750 (2 ft. 5-1/2 in.)

**Table 4.4.7** Character Height on Signs

# 4.4.7 SIGNAGE

Pictograms shall be accompanied by an equivalent visual and *tactile* verbal description, placed directly below the pictogram. The border dimension of the pictogram shall be 150 mm (6 in.) minimum in height.

Where permanent identification is provided for rooms and *spaces*, signs shall be installed on the wall adjacent to the latch side of the door, located with their centreline 1370 mm (54 in.) to 1500 mm (59 in.) above the finished floor,

with tactile elemeents located 1200 mm (47-1/4 in.) to 1500 mm (59 in.). Where there is no wall space to the latch side of the door, including at double-leaf doors, signs shall be placed on the nearest adjacent wall.

The minimum level of illumination on signs shall be 200 lux (18.4 ft-candles).

Figure 4.4.7.2
Pictograms

Figure 4.4.7.3
Tactile Lettering

(Note: Must incorporate equivalent verbal description)

# Raised 0.8 mm min (1/32 in.) Using Contrasting Colour

# 4.4 SYSTEMS AND CONTROLS

- 4.1.3 Protruding and Overhead Objects
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.1.5 Entrances
- 4.1.6 Doors
- 4.1.7 Gates, Turnstiles and Openings
- 4.1.9 Ramps
- 4.1.14 Elevators
- 4.1.15 Platform Lifts
- 4.2.1 Toilet Facilities
- 4.2.7 Universal Washrooms
- 4.3.2 Viewing Positions
- 4.3.4 Change/Dressing Rooms
- 4.3.12 Parking
- 4.3.13 Passenger-Loading Zones
- 4.4.1 Emergency Exits, Fire Evacuation and Areas of Rescue Assistance
- 4.4.5 Public Telephones
- 4.4.13 Lighting
- 4.4.15 Texture and Colour



Grid for reference only
Figure 4.4.7.4
International Symbol of Access

#### **RATIONALE**

Detectable warning surfaces provide important navigational cues for persons with a visual impairment. These surfaces alert all pedestrians to potential hazards, such as crosswalks or stairs. Suitable surfaces include a change in texture and high colour contrast but should not present a tripping hazard.

Detectable warning surfaces should be used consistently throughout a facility.

#### **APPLICATION**

Detectable warning surfaces at walkways, curb ramps, stairs, elevated platforms and potential hazards shall comply with this section.

# **DESIGN REQUIREMENTS**

All textured surfaces used as detectable warning surfaces shall be clearly detectable by walking upon as being different from the surrounding surface. (Refer also to 4.4.15). Note: Applying a paint finish to a concrete surface does not provide appropriate detectability.

Detectable warning surfaces shall contrast visually with adjoining surfaces, being either light on dark or dark on light.

Detectable warning surfaces shall be slip-resistant.

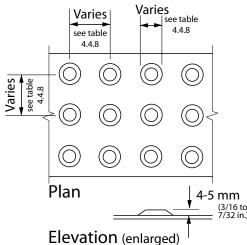


Figure 4.4.8.2

<u>Truncated Dome</u>

<u>Detectable Warning Surface</u>

# 4.4.8 DETECTABLE WARNING SURFACES

Detectable warning surfaces at all stairs shall

- be provided at the top of the stairs and at landings with entry points; and
- extend the full width of the stair for a depth of at least 920 mm (36 in.) commencing one tread depth back from the stair.

Refer also to section 4.1.11.

At interior stairs, it is acceptable to provide *detectable warning surfaces* not more than 3mm above or below adjacent surfaces, however flat-topped domes or cones are preferable.

Detectable warning surfaces at curb ramps, depressed curbs, exit stairs, exterior stairs and elevated platforms shall be composed of flattopped domes or cones that

- are 4 5 mm (0.16 0.20 in.) high;
- have top and bottom dimensions as shown in Table 4.4.8; and
- are arranged in a regular pattern with spacing as shown in Table 4.4.8.

If a walkway crosses or joins a vehicular way and the walking surfaces are not separated by curbs, railings or other elements between the pedestrian areas and

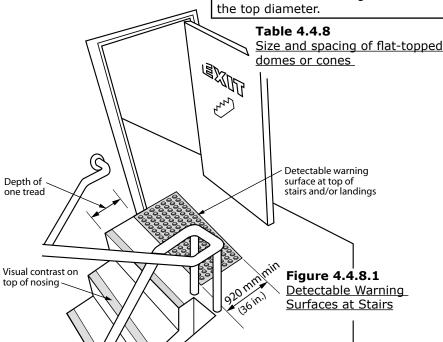
vehicular areas, the boundary between the areas shall be defined by a continuous *detectable warning surfaces*, flat-topped domes or cones which is minimum 920 mm (36 in.) wide. Refer also to section 4.1.10.

#### **RELATED SECTIONS**

- 4.1.3 Protruding and Overhead Objects
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.1.9 Ramps
- 4.1.10 Curb Ramps
- 4.1.11 Stairs
- 4.1.12 Escalators
- 4.3.1 Drinking Fountains
- 4.3.3 Elevated Platforms
- 4.3.12 Parking
- 4.3.13 Passenger-Loading Zones
- 4.4.15 Texture and Colour Appendix D

Top diameter of flat-topped domes or cones	Spacing
12 (0.5)	42 - 61 (1.7 - 2.4)
15 (0.6)	45 - 63 (1.8 - 2.5)
18 (0.7)	48 - 65 (1.9 - 2.6)
20 (0.8)	50 - 68 (2.0 - 2.7)
25 (1.0)	55 - 70 (2.2 - 2.8)

Bottom diameter of flat-topped domes or cones 10 ±1 greater than the top diameter.



# 4.4.9 PUBLIC ADDRESS SYSTEMS

# 4.4 SYSTEMS AND CONTROLS

## **RATIONALE**

Public address systems should be designed to best accommodate all users, especially those that may be hard of hearing. They should be easy to hear above the ambient background noise of the environment and there should be no distortion or feedback. Background noise should be minimized.

Visual equivalents should be made available for individuals with hearing loss/persons who are hard-of-hearing who may not hear an audible public address system.

# **APPLICATION**

Public address systems shall comply with this section.

# **DESIGN REQUIREMENTS**

Public address speakers shall be mounted above head level, and provide effective sound coverage in required areas, such as corridors, assembly and *meeting room* areas, recreational and entertainment facilities, educational facilities, and common use areas in institutional settings.

Public address systems shall be zoned so that information can be directed to key locations only, minimizing background noise in other areas.

Where public address systems are used to broadcast background music, the music shall not be broadcast continuously or throughout the entire *facility*.

All-point call systems shall only be utilized for fire and emergency information.

Paging systems for staff and other key persons shall be discreet and low volume, and sound only at those devices or locations where such persons might expect to be located.

- 4.4.1 Emergency Exits, Fire
  Evacuation and Areas of
  Rescue Assistance
- 4.4.16 Acoustics

#### **RATIONALE**

Information should be accessible to all facility users. Where universally accessible formats are technically not feasible alternate formats should be available. Video display terminals may present particular difficulties for persons with vision loss. Alternate technology or audio interfaces are required. To ensure that a person using a wheelchair can access an information terminal, consideration should be given to the lower vantage point and reach ranges of all information systems provided.

# **APPLICATION**

Information systems, such as display kiosks, video display terminals, parks and recreational trails mapping, and interpretive/informational panels shall comply with this section.

# **DESIGN REQUIREMENTS**

Where information is provided by video display terminals to the general public, clients or customers, the same information shall be provided in an alternative format, such as audio, Braille and large-text print. The minimum font size for large-text print shall be 16 point. Refer to the Canadian National Institute of the Blind "Clear Print Guidelines" for further detail.

Information systems designed for direct access by the public, such as touch-screen video display, keyboard or keypad access, shall be mounted at a height suitable for use by a person using a wheelchair or scooter (Refer to 4.4.2).

Essential print information shall be printed in large text on a highly contrasting background colour, and should also be available in other formats, such as audiotape.

Push buttons or other controls for accessing public information systems should be clearly identifiable by colour and/or tone from the background colour, and should include raised numbers, numerals or symbols for easy identification by persons with a low or no vision.

# 4.4.10 INFORMATION SYSTEMS

Tactile identification shall comply with 4.4.15.

Exhibits that include important artefacts, labels and graphics, shall be placed 1000 - 1200 mm (39-3/8 - 47 in.) from the floor.

Labels and descriptive signage shall be inclined from horizontal for easier reading.

Inclined informational/interpretive panels that can not be read from 750 mm (30 in.) away shall have at least 660 mm (26 in.) of knee clearance and at least 470 mm (18 in.) depth. If displays are intended for viewing from 750 mm (30 in.) or further, less clearance is permitted to a minimum height of 220 mm (9 in.) for toe kick clearance. The top of the panel shall be not more than 1220 mm -1380 mm (48 in. - 54 in.) high.

Vertical informational/interpretive panels shall have text located no higher than 1750 mm (69 in.). Text shall not be lower than 750 mm (29-1/2 in.) above the floor.

Ensure informational/

interpretive panels do not have sharp edges

1220-1380 mm (48-54 in.)

No part of the sign shall encroach on the path of travel. If encroachment is unavoidable, cane-detection through colour and texture change shall be provided on the ground.

A minimum 1500 mm x 1500 mm (60 in. x 60 in.) clear space directly in front of the sign as well as the clearances needed around such, is required for it's approach and use. The clear space must be of a hard surface material.

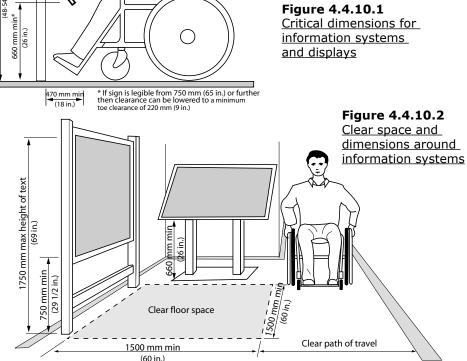
Automated banking machines shall comply with Canadian Standards Association B651.1 Barrier-Free Design for Automated Banking Machines (latest edition).

Self-service interactive devices shall comply with Canadian Standards Association B651.2 Accessible Design for Self-Service Interactive Devices (latest edition).

Signage and other media for recreational trails and footbridges shall conform with 4.5.2.

- Controls and Operating Mechanisms
- 4.4.15 Texture and Colour

Figure 4.4.10.1 <u>Critical dimensions for</u> information systems and displays



# 4.4.11 CARD ACCESS, SAFETY AND SECURITY SYSTEMS

#### **RATIONALE**

In many cases, persons such as seniors and persons with *disabilities* may be considered to have a higher degree of vulnerability and therefore seek more reassurance and inherent security. Items such as adequate lighting and *accessible* signalling devices promote this security.

Emergency signalling devices are important in individual washrooms where the potential for a fall is increased and an individual may be alone.

Where card-access systems are selected as a means of entry to particular facilities or spaces, the systems and components selected should be suitable for use by persons with varying abilities, including persons with reduced manual dexterity, poor vision or difficulty with reaching.

#### **APPLICATION**

Card-access, safety and security systems shall comply with this section.

Where signals intended for the public to indicate the operation of a building security system are provided, they shall consist of both audible alarms and visual signals.

# **DESIGN REQUIREMENTS**

Adequate lighting shall be provided continuously along public *walkways*, steps and *ramps* that are actively used at all times of year and/or where staff and public parking is provided.

Where public telephones are installed, an *accessible* public telephone complying with 4.4.5 shall be located at, or close to an *accessible entrance*, for the use of persons requiring assistance.

Where accessible universal washrooms in compliance with 4.2.7 are provided in larger public facilities, such as recreation facilities, the washroom shall incorporate an emergency call system linked to a central location (e.g., office or switchboard).

Card-entry systems shall

- be wall-mounted, no higher than 1060 mm (42 in.) above the floor or ground, adjacent to the door and free of the door swing;
- be colour-contrasted from the surface on which they are mounted;
- incorprate a card slot that is illuminated or colour contrasted from the mounting plate; and
- use cards that incorporate a distinctive colour, texture or raised graphic/lettering on one

Encoded-entry/exit systems, such as keypads, shall

- be wall-mounted, between 900 mm (35-1/2 in.) and 1200 mm (47 in.) above the floor or ground. It is preferred to install keypads at 1100mm (43-1/4 in.) from the floor on an adjustable mounting surface;
- be mounted adjacent to the door and free of the door swing; and
- incorporate buttons that
  - are raised:
  - are mounted on a clearly differentiated coloured background; and
  - include raised numerals or letters in a constant array.

# 4.4 SYSTEMS AND CONTROLS

- 4.1.1 Space and Reach Requirements
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.1.5 Entrances
- 4.1.6 Doors
- 4.1.14 Elevators
- 4.1.15 Platform Lifts
- 4.2.7 Universal Washrooms
- 4.3.5 Offices, Work Areas and Meeting Rooms
- 4.4.2 Controls and Operating Mechanisms
- 4.4.13 Lighting
- 4.4.15 Texture and Colour

# 4.4.12 GLARE AND LIGHT SOURCES

#### **RATIONALE**

Direct or reflected glare from floors, walls or work surfaces is uncomfortable for all users and a barrier to persons with reduced vision. Therefore, every attempt should be made to select light sources, materials and finishes which do not add to the problem, and to ensure that natural daylight is controllable.

The strategic use of lighting is valuable to all individuals, and especially important for individuals with some form of vision loss/no vision. In addition, offering a variety of task lighting at work areas is beneficial to all.

# **APPLICATION**

Systems used to control glare and excessive reflected light shall comply with this section.

# **DESIGN REQUIREMENTS**

Extensive high gloss floor and wall finishes are not acceptable, but high-gloss materials may be incorporated into floor and wall finish details, as long as they do not result in large reflective surfaces.

Monolithic floor surfaces, such as stone, granite, marble or terrazzo, shall have a matte or honed finish, to minimize reflected glare.

Finishes such as vinyl, other composition materials, quarry tile, glazed tile or mosaics, used on horizontal surfaces, such as floors and work surfaces, shall be in matte or satin finishes.

Finishes such as paint, vinyl wall coverings, stone, marble, wood, metals, plastic laminate, etc., used on vertical surfaces, such as walls and columns, shall have matte or satin finishes.

Curtains, blinds or other sunscreening systems shall be provided at windows and other places where direct sunlight can adversely affect the level of lighting and/or reflected glare.

Light fixtures shall be selected with diffusers, lenses or recessed light sources, so that no glare is created.

Where surface-mounted fluorescent ceiling fixtures are mounted below 2440 mm (96 in.), they shall have darkened sides (i.e., not wraparound lenses) and be positioned perpendicular to the dominant direction of travel, or used in valance-type lighting along the perimeter of a *space*, resulting in indirect lighting.

The location of special features and key orientation *elements* shall be enhanced through the use of supplementary lighting. Such lighting shall have upward or downward components only.

- 4.1.2 Ground and Floor Surfaces
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.1.5 Entrances
- 4.1.8 Windows, Glazed Screens and Sidelights
- 4.1.9 Ramps
- 4.1.10 Curb Ramps
- 4.1.11 Stairs
- 4.1.13 Escalators
- 4.1.14 Elevators
- 4.1.15 Platform Lifts4.2.1 Toilet Facilities
- 4.3.8 Information, Reception and Service Counters
- 4.4.13 Lighting

# **4.4.13 LIGHTING**

#### **RATIONALE**

Artificial lighting and natural light sources should provide comfortable, evenly distributed light at all working areas, in all circulation routes and in all areas of potential hazard. Also, outdoor lighting should be provided at *entrances*, along frequently used access routes and at frequently used outdoor amenities.

# **APPLICATION**

Exterior and interior lighting systems shall comply with this section.

# **DESIGN REQUIREMENTS**

# **EXTERIOR LIGHTING**

Exterior lighting shall be in compliance with Illuminating Engineering Society of North America Standards in all public thoroughfares, and at all pedestrian routes, to provide safe access for persons with disabilities from sidewalks, bus stops and parking areas to nearby facilities and site amenities.

At pedestrian *entrances*, lighting levels should be minimum 100 lux (9.4 ft-candles) consistently over the *entrance* area, measured at the ground.

Over frequently used pedestrian routes, including *walkways*, *paths of travel*, stairs and *ramps*, lighting levels shall be 50 lux (5 ft-candles) Extended avg., 40 lux (4 ft-candles) avg./min., 20 lux (2 ft-candles) min. maintained consistently over the route, measured at the ground. For mixed pedestrian/cycling routes: 20 lux (2 ft-candles) Extended avg., 40 lux (4 ft-candles) avg./min., 10 lux (1 ft-candle) min. maintained.

At designated parking spaces including accessible spaces and limited mobility/caregivers spaces, lighting levels shall be minimum 30 lux (3 ft-candles) consistently over each of these parking spaces, measured at the ground.

Lighting levels at passenger dropoff areas shall be minimum 30 lux (3 ft-candles) consistently over the drop-off area, measured at the ground.

At frequently used steps and stairs, lighting shall be located at or beside the steps or stairs, to clearly define the treads, risers and nosings.

All lighting shall

- provide a good colour spectrum; and
- be evenly distributed to minimize cast shadows.

Supplementary lighting shall be provided to highlight key *signage* and orientation landmarks.

Low/ground-level lighting (such as bollards) shall be high enough to clear normal snow accumulation.

Lighting fixtures shall comply with the relevant parts of 4.1.3 and 4.3.17.

## **INTERIOR LIGHTING**

Light sources and fixtures shall be selected to minimize direct glare or indirect glare on nearby reflective surfaces.

Light sources shall provide as full a spectrum of light as possible, as an aid to edge and colour definition.

Lighting shall be configured to create an even distribution at floor level and to minimize pools of light and areas of shadow.

The leading edge of stairs, steps, ramps or escalators shall be evenly lit to minimize tripping hazards.

Lighting levels in elevator lobbies shall be similar to the lighting levels in elevator cabs, to minimize tripping hazards, and in no case shall be less than 200 lux (20 ft-candles).

Lighting levels in washrooms and dressing rooms shall be evenly distributed and no less than 200 lux (20 ft-candles).

# 4.4 SYSTEMS AND CONTROLS

Lighting levels in office areas shall be evenly distributed and no less than 300 lux (30 ft-candles).

Emergency lighting over stairs and *ramps*, in an exit or *path of travel*, shall be at least 100 lux (10 ft-candles), generally at the walking surface, and in no place less than 50 lux (5 ft-candles).

Lighting over directional or informational *signage*, or highlighting other orientation features, at public telephones, information or service counters, and card or keypad security systems, shall be no less than 200 lux (20 ft-candles) measured at the working surface.

Lighting in *meeting rooms* and assembly areas shall be evenly distributed, and shall be capable of being adjusted (e.g., dimmers).

Lighting at lecterns, podiums/ platforms or other speaker locations shall be capable of being enhanced, even when other lighting is dimmed, to permit ease of lip-reading and/ or viewing of the hand actions of a nearby ASL translator for persons who are deaf.

- 4.1.3 Protruding and Overhead Objects
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.1.5 Entrances
- 4.1.9 Ramps
- 4.1.10 Curb Ramps
- 4.1.11 Stairs
- 4.1.12 Escalators
- 4.1.14 Elevators
- 4.1.15 Platform Lifts
- 4.2.1 Toilet Facilities
- 4.3.1 Drinking Fountains
- 4.3.3 Elevated Platforms4.3.4 Change/Dressing Rooms
- 4.3.5 Office, Work Areas and Meeting Rooms
- 4.3.8 Information, Reception and Service Counters
- 4.3.17 Streetscapes
- 4.4.2 Controls and Operating Mechanisms
- 4.4.5 Public Telephones
- 4.4.7 Signage
- 4.4.12 Glare and Light Sources

#### **RATIONALE**

The selection of flooring materials can be critical to the safe and easy movement of persons using all kinds of mobility aids, as well as persons with low vision.

Floor finishes, such as carpet, should be selected and installed so that persons using wheelchairs and walkers or other mobility aids can easily travel over them without using undue energy or tripping.

Finishes that are slip-resistant and not highly reflective promote safe travel.

# **APPLICATION**

Exterior and interior materials and finishes shall comply with this section.

# **DESIGN REQUIREMENTS**

#### **EXTERIOR FINISH MATERIALS**

Suitable materials for exterior route of travel should be firm and stable and may include materials such as:, concrete, asphalt, precast paving or unit paving, interlocking brick and patio stones or decking. Other surfaces may be suitable as new innovative materials become available. Where wooden planks are used for boardwalks, they shall be laid perpendicular to the *path of travel*. Such materials shall

- have joints that are no greater than 6 mm (1/4 in.) wide, with variations in level of no more than 3 mm (1/8 in); and
- be laid to drain.

Where possible, gratings and grills shall be located to one side of the pedestrian walkways, so as not to impede the accessible route. Where this is not possible, the bars of the grating or grill shall be located perpendicular to the dominant path of travel, with openings of no greater than 13 mm (1/2 in.).

# 4.4.14 MATERIALS AND FINISHES

Steps shall be finished with a nonslip material and incorporate highly contrasted nosings.

*Ramp* surfaces shall be firm and non-slip.

Handrails and *guards* shall be continuous, smooth and well maintained.

# INTERIOR MATERIALS AND FINISHES

Carpet shall be of low-level loop construction, 10 or 12-gauge non-static fibre, directly glued to the subfloor.

Where hard, monolithic materials are selected, they shall be non-slip and non-glare, complying with 4.4.12.

Where floor tiles, bricks or pavers are used, joints should be no wider than 6 mm (1/4 in.) and should be flush.

Wall surfaces in corridors shall be non-abrasive from the floor level to a minimum of 2000 mm (78-3/4 in.) above the finished floor.

- 4.1.2 Ground and Floor Surfaces
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.1.5 Entrances
- 4.1.9 Ramps
- 4.1.10 Curb Ramps
- 4.1.11 Stairs
- 4.1.13 Escalators
- 4.1.14 Elevators
- 4.1.15 Platform Lifts 4.2.1 Toilet Facilities
- 4.2.1 Toilet Facilities4.3.4 Change/Dressing Rooms
- 4.3.5 Office, Work Areas and Meeting Rooms
- 4.4.12 Glare and Light Sources

# 4.4.15 TEXTURE AND COLOUR

#### **RATIONALE**

The ability of an individual with vision loss/no vision to navigate an environment can be enhanced through the strategic use of colour and texture.

Caution is recommended in the selection of heavy or distinct patterns on walls or floors, since these can add visual confusion to settings for persons with low vision. Simple, repetitive, non-directional patterns that feature monochromatic or low-colour contrast are preferred. Changes in material or texture should not necessitate a threshold.

# **APPLICATION**

Textural and colour systems shall be used to enhance accessibility and shall comply with this section.

# **DESIGN REQUIREMENTS**

Exterior colour schemes shall incorporate a pronounced colour contrast, to differentiate boundaries of objects, distinguish objects from their background, and to generally enhance spatial orientation. Generally, for seniors and persons with low vision, colours in the warm end of the spectrum (yellow, orange, bright red, etc.) are easier to recognize than those at the cool end of the spectrum.

Signs shall incorporate pronounced glare-free colour contrast. A minimum contrast of 70% light reflectance is required. For signs, the most visible colours are white or yellow on a black, charcoal or other dark background, such as brown, dark blue, dark green or purple. Black lettering on white is also acceptable, although less readable than the reverse. Signage should avoid using the colour combinations yellow/grey, yellow/white, blue/ green, red/green, black/violet, or red/black, since these combinations are unreadable for people with various visual conditions (i.e. colour blindness.)

Colour contrast shall be used as a safety measure to define edges or boundaries of objects (e.g., stair nosings, doors, handrails, etc.). Colour or tone shall be used to visually define the boundaries of a room (i.e., where the wall meets the floor). Baseboards in monochromatic environments shall be highly contrasting with the wall and floor colours, to provide boundary definition.

Colour shall be used consistently to visually identify distinctive objects (e.g., exit doors).

Bright colours and/or a highly contrasting tone shall be used to assist with wayfinding. (e.g. If used as part of a *signage* band located on walls at eye level, this band is easier to follow than monolithic wall colouring, and can be the visual cue for other essential signs.)

End walls or return walls in long corridors shall be visually defined using highly contrasting colours or tone, to enhance a change of direction or the end of the *space*.

Detectable warning surfaces shall be used to define potential hazards. (Refer to 4.4.8.). All textured surfaces used as detectable warning surfaces shall be clearly detectable by walking upon as being different from the surrounding surface.

Supplementary textural cues shall also be provided (e.g., by using different floor textures or materials, in major and minor routes).

Clearly defined boundaries of materials like carpeting or floor tiles shall enhance wayfinding by defining such as the junction between walls and floors, doorway recesses and corridor intersections.

The same texture shall be used consistently throughout any one *site* to identify the same type of hazard.

# 4.4 SYSTEMS AND CONTROLS

- 4.1.2 Ground and Floor Surfaces
- 4.1.4 Accessible Routes, Paths and Corridors
- 4.1.6 Doors
- 4.1.7 Gates, Turnstiles and Openings
- 4.1.8 Windows, Glazed Screens and Sidelights
- 4.1.9 Ramps
- 4.1.10 Curb Ramps
- 4.1.11 Stairs
- 4.1.12 Handrails
- 4.1.13 Escalators
- 4.1.14 Elevators
- 4.1.15 Platform Lifts
- 4.2.2 Toilet Stalls
- 4.2.3 Toilets
- 4.2.4 Lavatories
- 4.2.5 Urinals
- 4.2.6 Washroom Accessories
- 4.2.7 Universal Washrooms
- 4.2.8 Bathtubs
- 4.2.9 Showers
- 4.2.10 Grab Bars
- 4.3.1 Drinking Fountains
- 4.3.3 Elevated Platforms
- 4.3.4 Change/Dressing Rooms
- 4.3.5 Office, Work Areas and Meeting Rooms
- 4.3.6 Waiting and Queuing Areas
- 4.3.8 Information, Reception and Service Counters
- 4.3.9 Storage, Shelving and Display Units
- 4.3.10 Lockers and Baggage Storage
- 4.3.11 Balconies, Porches, Terraces and Patios
- 4.3.14 Landscaping Materials and Plantings
- 4.3.15 Benches
- 4.3.16 Public Use Eating Areas
- 4.3.17 Streetscapes
- 4.4.1 Emergency Exits, Fire Evacuation and Areas of Rescue Assistance
- 4.4.2 Controls and Operating Mechanisms
- 4.4.5 Public Telephones
- 4.4.7 Signage
- 4.4.8 Detectable Warning Surfaces
- 4.4.11 Card Access, Safety and Security Systems

# 4.4.16 ACOUSTICS

#### **RATIONALE**

The acoustic environment of public buildings and *spaces* should accommodate the unique needs of persons who are hard of hearing and who need to differentiate essential sounds from general background noise. The sound transmissions of different areas can be used as an orientation cue and help to navigate a *space*. A well designed acoustical environment is to everyone's advantage.

#### **APPLICATION**

The acoustical environment of facilities used by the general public, clients, customers and employees shall comply with this section.

# **DESIGN REQUIREMENTS**

Floor finishes, wall surfaces and ceilings shall be selected so that occasional noise is not unduly amplified. (e.g., Hard surfaces such as marble or terrazzo will allow each foot step to be heard by persons who are visually impaired, but add another level of confusion for persons who are hearing impaired.)

At accessible routes in large facilities where wayfinding is problematic, the sound transmission/reflection characteristics of finish materials shall aurally differentiate major and secondary paths of travel.

Ceiling shapes shall be designed so that echoes do not occur, unless an alternate acoustical treatment is incorporated. (Note: Domed shapes tend to distort sound.)

Public address and call systems shall be capable of being zoned to key areas, rather than blanketing all areas of a *facility* at all times. (Refer to 4.4.9.)

In meeting rooms and assembly areas where the spoken word is key to comprehending the proceedings, all unnecessary background noise (e.g., from fans or other mechanical equipment, air diffusers, etc.) shall be dampened and/or the room shall include adequate sound insulation.

- 4.3.5 Office, Work Areas and Meeting Rooms
- 4.3.8 Information, Reception and Service Counters
- 4.4.5 Public Telephones
- 4.4.6 Assitive Listening Systems
- 4.4.9 Public Address Systems

# 4.4.17 PEDESTRIAN SIGNALS

apart.

#### **RATIONALE**

Pedestrian crossovers should be designed to accommodate all users equally. The physical location of the controls can help identify specific directional paths, and auditory signals will enable user with low vision to locate the controls quickly.

# **APPLICATION**

Where new pedestrian signals are being installed or existing pedestrian signals are being replaced at a pedestrian crossover, they must be accessible pedestrian signals.

# **DESIGN REQUIREMENTS**

Accessible pedestrian signals must;

- have a locator tone that is distinct from a walk indicator tone
- be installed within 1500 mm (59 in.) of the edge of the curb
- be mounted at a maximum of 1100 mm (43-1/4 in.) above ground level
- have tactile arrows that align with the direction of crossing
- include both manual and automatic activation features
- include both audible and vibrotactile walk indicators

# Where two accessible pedestrian signal assemblies are installed on the same corner, they must be a minimum of 3000mm (118 in.)

Where the accessible pedestrian signal cannot meet the 3000 mm (118 in.) minimum requirement due to site constraints or existing infrastructure, two accessible pedestrian signal assemblies can be installed on a single post, and when this occurs, a verbal announcement must clearly state which crossing is active

In this section, "pedestrian crossover' means a pedestrian crossover a s defined in subsection 1 (1) of the Highway Traffic Act

# 4.4 SYSTEMS AND CONTROLS

- 4.1.4 Accessible Routes, Paths, And Corridors
- 4.4.2 Controls and Operating Mechanisms

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# 4.5.1 ARENAS, HALLS AND OTHER INDOOR RECREATIONAL FACILITIES

# **RATIONALE**

Opportunities for recreation, leisure and active sport participation should be available to all members of the community. Access should be provided to halls, arenas, and other sports facilities, including access to the site, all activity spaces, gymnasia, fitness facilities, lockers, change rooms and showers. Persons with a disability may be active participants, as well as spectators, volunteers and members of staff.

For waiting areas in these facilities, the provision of benches is important for individuals who may have difficulty with standing for extended periods.

# **APPLICATION**

In addition to the design requirements specified in 4.1 to 4.4, arenas, halls and other indoor recreation *facilities* shall comply with this section.

# **DESIGN REQUIREMENTS**

Arenas, halls and other indoor recreation *facilities* shall

- where visitor, spectator and/or participant seating is provided,
  - have accessible seating options in compliance with 4.3.2; and
  - incorporate detectable warning surfaces in compliance with 4.4.8. where seating is accessed by stairs.
- provide an accessible route in compliance with 4.1.4 to the arena/facility floor and/or ice surface, including access panels or gates providing at least 950 mm (37-1/2 in.) clear width;
- where facilities are provided for performances and other events, have a direct accessible route in compliance with 4.1.4 from the lobby/entrances and viewing locations to all performing areas, including stages, dressing rooms, washrooms and all other spaces used by performers;
- where stairs are provided, have stairs that comply with 4.1.11, including appropriate tactile and colour-contrasting features;
- where dressing facilities are provided, have dressing facilities that comply with 4.3.4;
- where lockers or shelving is provided, have lockers and shelving that comply with 4.3.9 and 4.3.10;
- where coat hooks are provided, have at least 10%, but never less than one, within the reach ranges specified in 4.1.1;
- where toilets and bathing facilities are provided, have toilets and bathing facilities that comply with 4.2.1;
- where concessions or other service counters are provided, comply with 4.1.3 and 4.3.8;
- where swimming pool, hot pools or therapy pools are provided, comply with 4.5.3; and
- where staff accommodation and related support areas, offices or meeting rooms are provided, comply with all relevant sections of 4.1 to 4.4.

# 4.5 FACILITY-SPECIFIC REQUIREMENTS

To allow for Sledge Hockey in arenas, construct accessible players boxes where the boards can be removed and clear Plexiglas is used with low thresholds. Refer to the CRFC (Canadian Recreation Facilities Council) Sledge Hockey Accessibility Design Guidelines for Arenas.

# **RELATED SECTIONS**

All relevant parts of Sections 4.1, 4.2, 4.3 and 4.4.

# 4.5 FACILITY-SPECIFIC REQUIREMENTS

#### **RATIONALE**

Opportunities for recreation, leisure and active sport participation should be available to all members of the community. Access should be provided to playing fields and other sports facilities, including access to the site, all activity areas, outdoor recreational trails, docks, swimming areas, play spaces, lockers, change rooms and showers. Persons with a disability may be active participants, as well as spectators, volunteers and members of staff.

#### **APPLICATION**

In addition to the design requirements specified in 4.1 to 4.4, the outdoor recreation *facilities* listed below shall comply with this section.

Where dressing *facilities* are provided, they shall comply with 4.3.4.

# **DESIGN REQUIREMENTS**

#### **GENERAL**

Parks accessibility shall encompass the development of routes, auxiliary services, planting and an overall environment which is accessible and provides a fulfilling recreational experience for all persons with a varying level of ability.

#### **BOARDWALKS**

Where boardwalks are provided, they shall

- have a minimum width of 2000 mm (78-3/4 in.);
- incorporate surfaces constructed of firm, stable, non-slip materials and comply with 4.4.14;
- not have any surfaces that allow the passage of an object that has a diameter of more than 20 mm (3/4 in.)

# 4.5.2 OUTDOOR RECREATIONAL FACILITIES

- incorporate a continuous curbed edge where the grade drop-off on any side of the boardwalk is greater than 200 mm (7-7/8 in.). The curbed edge shall be at least 75 mm (3 in.) high and of a contrasting colour to the surrounding terrain (if the curb edge cannot be provided, a protective barrier must be provided with a maximum height of 1070 mm (42-1/8 in.);
- handrails, guards or other suitable barriers must be provided where the grade dropoff is greater than 450 mm (17-3/4 in.);
- access points to boardwalks that allow easy wheelchair access; and
- benches, garbage cans, drinking fountains, etc., where provided, shall be located adjacent to the boardwalk on firm, level surfaces at the same elevation as the boardwalk. (Refer also to 4.3.17.)

## **DOCKS/PIERS**

Where docks for fishing, boating, water-taxi or swimming are provided they shall:

- be located on an accessible route in compliance with Section 4.1.4
- incorporate firm and stable surfaces at transition points (such as from a walkway to a dock, or between adjacent dock units);
- incorporate clearly painted markings at transition points;
- where changes in elevation are necessary, incorporate ramps or curb ramps in compliance with Sections 4.1.9 Ramps and 4.1.10 Curb Ramps. Ramps with a slope no greater than 1:20 (8.3%) at low water are acceptable;
- be no higher than 600 mm (23-3/4 in.) above the water;

- incorporate a continuous curbed edge, at least 75 mm (3 in.) high and of a contrasting colour where dock surfaces are greater than 200 mm (7-7/8 in.) above the surface of the water; Exception to edge protection: Where boat loading openings are provided; incorporate a guard where dock surfaces are greater than 450 mm (17-3/4 in.) above the surface of the water.
- where steps are provided to access the water for swimming, incorporate colour-contrasting handrails at the steps. Such handrails shall extend to a minimum of 600 mm (23-5/8 in.) above the dock surface and return down to the dock.

#### **OUTDOOR POOLS**

Outdoor swimming pools shall comply with 4.5.3.

# RECREATIONAL TRAILS AND FOOTBRIDGES

Entrances to recreational trails to have a clear opening between 850 - 1000 mm (33-1/2 - 39-3/8 in.)

Trail width shall be at least 1000 mm (39-3/8 in.).

Where significant changes in grade occur, recreational trail routes shall ideally be sloped at no greater than 1:20, or have adjacent steps and ramps. Where this is not possible due to site constraints, a 1:10 slope is acceptable. If greater than 10% consult with the AAC.

Trail surfaces shall be firm and stable.

Where steps, footbridges or *ramps* are used, the surfacing shall be of non-slip materials and include suitable colour-contrasting *handrails* and/or *quards*.

The slope on foot bridges shall not exceed 1:10.

# 4.5.2 OUTDOOR RECREATIONAL FACILITIES

Ramps shall conform with 4.1.9.

Signage shall

- be provided at recreational trail head;
- comply with 4.4.7 Signage; and
- identify
  - length of recreational trail;
  - type of surface;
  - average and minimum width;
  - average and maximum running slope and cross slope; and
  - location of amenities where provided.

Where special lookout locations or viewing areas are provided, they shall be identified with *clear signage*.

Tactile maps should be considered at the start of the recreational trail and periodically along its length.

Braille should be considered for information and interpretive *signage*.

Alternative messaging systems can be incorporated i.e. audio or digital applications. For best practices refer to CNIB: Clearing our Path, Universal design recommendations for people with vision loss.

Where other media is used (website, brochure, etc.) to provide information about the *recreational trail*, beyond advertising, notice or promotion, the media must provide the same information as listed on required trail head signage.

# 4.5 FACILITY-SPECIFIC REQUIREMENTS

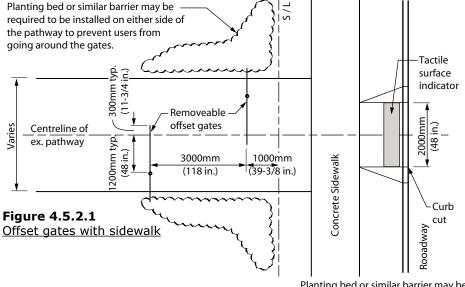
Where adjacent to water or a drop off in grade that is greater than 200 mm (7-7/8 in.), and where a protective barrier is not provided, recreational trails shall incorporate edge protection such that

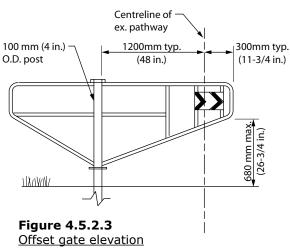
- the top edge of protection shall be at least 50 mm (2 in.) high; and
- edge protection does not impede the drainage of the trail surface.

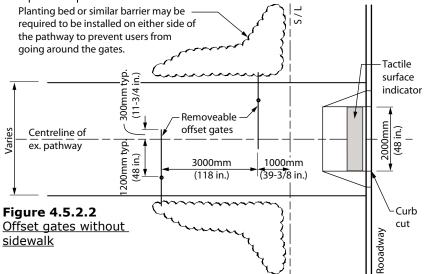
Exceptions to the requirements that apply to recreational trails are permitted where the requirements, or some of them, would likely affect the heritage, historic, cultural or natural heritage value of an area. Refer to Part IV.1 of Ontario Regulation 191/11 (Integrated Accessibility Standards).

Organizations shall consult with the public, including people with disabilities, about the design of recreational trails. Municipalities must also consult with their accessibility advisory committee, if they have one. The consultation process must address:

- Trail Slope
- Need for and location of ramps
- Need for, location, and design of rest areas, passing areas, viewing areas and amenities along the recreational trail.







# 4.5 FACILITY-SPECIFIC REQUIREMENTS

# 4.5.2 OUTDOOR RECREATIONAL FACILITIES

#### **PARK**

Accessible routes and walkways shall conform with 4.1.4.

Garbage cans, light standards, benches and other potential obstructions shall be located adjacent to *recreational trails*. (Refer also to 4.3.17.)

A different ground colour and/or texture shall be used to indicate the following (Refer also to 4.4.15.):

- risk areas, such as intersections, ramps or steps; and
- functional changes, such as seating areas, viewpoints or outlooks.

# **PLANTING AND TREES**

Planting and trees along accessible pathways shall comply with 4.3.14.

# **REST AREAS**

Rest areas shall

- be provided on recreational trails, pathways and walkways every 30 to 90 m (98 ft. - 5 in. to 295 ft. - 3 in.);
- be positioned adjacent to the recreational trail, pathway or walkway;
- have accessible ground surfaces in compliance with 4.1.2;
- use a contrasting ground finish material to identify functional change; and

Organizations shall consult with the public including people with disabilities about the need for, location, and design of rest areas, passing areas, viewing areas, and amenities (accessible seating) along trails. Municipalities must also consult with their Accessibility Advisory Committee.

#### PARKS - GENERAL

Entrance gates, paths and walkways throughout the park shall be accessible to a person using a wheelchair or scooter.

Where possible, picnic and play areas shall be provided in both sunny and shaded areas.

#### **PLAYGROUNDS**

In addition to the requirements for PARKS AND PARKETTES - GENERAL of this section, outdoor play spaces shall consist of an area that includes play equipment, such as swings, or features such as logs, rocks, sand or water, where the equipment or features are designed and placed to provide play opportunities and experiences for children and caregivers.

Organizations shall consult on the needs of children and caregivers with various disabilities and shall do so in the following manner:

- Public sector organizations and large organizations shall consult with the public and persons with disabilities;
- Municipalities shall also consult with their municipal accessibility advisory committees, where one has been established.

The consultation process must address requirements for accessible play elements for children and caregivers with various disabilities including, but not limited to sensory and active play components.

Children's play areas and playground equipment, sandboxes or other amenities shall generally be designed to be *accessible* to and useable by children with varying levels of ability. Provide sufficient clearance to provide children and caregivers with various disabilities the ability to move through, in and around the outdoor play space. Colour contrast is important.

Playground surfaces shall be firm and stable.

Playgrounds should be designed with reference to the National Standard CAN/CSA-Z614 for "Chlildren's Playspaces and Equipment (current version).

#### PICNIC TABLES

Accessible picnic tables shall comply with 4.3.16.

Where public parking is provided to serve picnic facilities, accessible picnic areas should be within 30 m (100 ft.) of the accessible parking spaces.

# **DRINKING FOUNTAINS**

Accessible drinking fountains shall comply with 4.3.1.

# **PUBLIC TELEPHONES**

Accessible public telephones shall comply with 4.4.5.

#### **ILLUMINATION (WHERE PROVIDED)**

Light sources used shall be indirect, non-glare, non-flickering type and provide even levels of light distribution. (Refer also to 4.4.13.)

No lighting is allowed in natural environments.

# <u>WASHROOMS</u>

Where washrooms are provided to support the use of outdoor recreation *facilities* by the general public, clients, customers, performers or staff, they shall comply with all applicable sections of 4.2.

# **WATERFRONT AREAS**

Where *paths* and/or lookout points are provided, they shall be *accessible* to all individuals.

Seating shall be provided along *paths* and at lookout points, in compliance with 4.3.15.

Where parking is provided, it shall be located as close as possible to waterfront area. An accessible route shall be provided from the parking area to paths and/or lookout points (where provided).

# 4.5.2 OUTDOOR RECREATIONAL FACILITIES

#### NATURAL AREAS

Accessible pathways, trails and footbridges shall be provided where environmental considerations will permit.

Paths and trails shall incorporate rest areas and where appropriate, with seating.

# GRANDSTAND AND OTHER VIEWING AREAS

Where visitor, spectator and/or participant seating is provided, *accessible* seating options in compliance with 4.3.2 shall be provided.

#### PLAYING FIELDS

Where provided, controlled access points shall be designed to accommodate a person using a wheelchair or scooter. (e.g., Where turnstiles are used, an adjacent accessible gate shall be provided in compliance with 4.1.7.)

Where provided, level seating areas shall be provided beside sports fields for spectators or participants with *disabilities*.

Where provided, public viewing areas shall comply with 4.3.2.

Where provided, public washrooms shall comply with 4.2.

Where provided, public showers and change rooms shall comply with 4.2.9 and 4.3.4.

# ACCESS TO SPECTATOR AREAS OF SPORTS FIELDS

- Where designated spectator areas are provided at sports fields, they shall be accessible;
- Pedestrian pathways to spectator areas of sports fields shall be designed to comply with RECREATIONAL TRAILS AND FOOTBRIDGES requirement of this section.

# LEASH FREE DOG PARKS

- Entrance gates into dog parks shall comply with 4.1.7
- Pedestrian pathways within leash free dog parks shall be designed to comply with the RECREATIONAL TRAILS AND FOOTBRIDGES requirement of this section.

# **OUTLOOKS**

Where waste receptacles, light standards, benches and other potential obstructions or amenities are provided, they shall be located so as not to obstruct the clear *path* of travel.

Where scenic outlooks have been provided they shall:

- be located on an accessible route in compliance with 4.1.;
- incorporate smooth and stable surfaces at transition points;
- incorporate continuous edge protection, at least 100 mm (4 in.) high and of a contrasting colour around the edge of the outlook area; and
- if benches are provided they shall comply with 4.3.15.

# 4.5 FACILITY-SPECIFIC REQUIREMENTS

#### **BEACH ACCESS ROUTES**

Applicable to newly constructed and redeveloped beach access routes that an *obligated organization* intends to maintain, including permanent and temporary routes and temporary routes that are establised through the use of manufactured goods, which can be removed for the winter months.

Where beach access is constructed (not natural):

- MAX cross slope no more than 1:50;
- 1:2 bevel at height change between 6-13mm (1/4 - 1/2 in.);
- MAX running slope 1:10 at changes in level of 14-200mm (1/2 - 7-7/8 in);
- Must have a ramp that meets requirements of 4.1.9 Ramps; where change of level is greater than 200mm (7-7/8 in.).

Where surface is not constructed, the MAX cross slope must be the minimum cross slope for drainage.

Entrance must have a clear opening of 1000mm (39-3/8 in.) (whether the entrance includes gate, bollard, or other entrance design).

## **EXCEPTIONS**

Exemptions to the requirements that apply to recreational trails and beach access routes are permitted where the requirements, or some of them, would likely affect the heritage, historical, cultural or natural heritage value of an area. Rever to Part IV.1 of Ontario Regulation 191/11 (Integrated Accessibility Standards).

Beach access routs must be firm and stable with openings no greater than 20 mm (3/4 in.) and oriented perpendicular to the direction of travel.

#### **RELATED SECTIONS**

All relevant parts of Sections 4.1, 4.2, 4.3 and 4.4.

# 4.5 FACILITY-SPECIFIC REQUIREMENTS

#### **RATIONALE**

Swimming is an important recreational and therapeutic activity for many persons with disabilities. The buoyancy and freedom offered by an immersive water environment can be enabling in themselves. Primary considerations for accommodating persons who have mobility impairments include accessible change facilities and a means of access into the water. Ramped access into the water is preferred over lift access, as it promotes integration (everyone will use the ramp) and independence. Many persons who are visually impaired will benefit from colour and textural cues along primary routes of travel and at potentially dangerous locations, such as the edge of the pool, at steps into the pool and at railings.

Therapeutic pools are generally smaller, shallower pools that include a ramp access and provide submerged bench seating in addition to open exercise space. The warm water in therapeutic pools is ideal for those rcovering from an injury, living with chronic disease or who want to participate in a gentle but effective exercise program. The benefits of Aquatic Therapeutic exercise are:

- Warm water promotes relaxation;
- Reduced pain;
- Decreased muscle tension;
- Improved circulation;
- Increased ability and length of time for exercise; and
- Helps to maintain an independent lifestyle.

## **APPLICATION**

In addition to the design requirements specified in 4.1 to 4.4, swimming pools, wading pools, hot pools, spray pads, therapeutic pools, and spas shall comply with this section.

# **DESIGN REQUIREMENTS**

Swimming pools, hot pools public spas and therapy pools shall have

- where the pool is indoors,
  - a direct accessible route in compliance with 4.1.4 from

# 4.5.3 SWIMMING POOLS, THERAPEUTIC POOLS/ PUBLIC SPAS AND SPRAY PADS

- the lobby/entrance to the change rooms;
- a direct accessible route in compliance with 4.1.4 from the change rooms to the pool deck;
- where the pool is outdoors,
  - an accessible route in compliance with 4.1.4 throughout the normally occupied portions of the pool; and
  - a pool deck that is minimum 1800 mm (70-7/8 in.) wide with a clear accessible route in compliance with 4.1.4 around the entire perimeter;
- access from the pool deck into the water, provided by a ramp that shall have
  - a handrail on either side at 865 - 965 mm (34 - 38 in.);
  - a clear width of at least 1100 mm (43-1/4 in.);
  - a curb or other means to prevent a wheelchair from falling off the side; and
  - surface finishes capable of being kept clean, sanitary and free from slipperiness.
  - where ramp is not submerged it shall
    - have a landing at the bottom of the ramp that is at least 450 - 550 mm (18 - 21-3/4 in.) below the top of the wall;
    - be equipped with a floor drain at the lowest point;
    - have a width at the top of the wall between the pool and ramp of 250 - 300 mm (10 - 11-3/4 in.);
    - have water depth at the landing clearly marked in figures at least 100 mm high on the top of the wall; and
    - have a maximum slope of 1:12;
  - where ramp is submerged it shall
    - have water depth at the bottom of the ramp of 600 - 900 mm (23-5/8 -35-1/2 in.);
    - have a hard-surfaced area that is at least 750 mm (30 in.) wide contiguous to the entire length of the submerged ramp;
    - have finishes that are different in colour or

- shade from each other and from that of the pool walls and bottom; and
- have a maximum slope of 1:9.
- a shower chair available at each facility for use in transferring into the water and/or shower;
- where steps are provided into the pool,
  - steps shall be marked with a colour-contrasting strip of at least 50 mm (2 in.) wide, at both the riser and the tread; and
  - colour-contrasting handrails on both sides of the steps.
     Such handrails shall extend at least 300 mm (11-3/4 in.) beyond the pool edge;
- where a curbed edge is provided, it shall be a minimum of 200 mm (7-7/8 in.) and a maximum of 400 mm (15-3/4 in.) in height;
- pool boundaries clearly defined by both a textural change and a colour contrast to both the water surface and surrounding area;
- perimeter of pool deck clearly delineated by a tactile surface indicator around the pool;
- firm, slip-resistant materials and finishes used on the pool perimeter, deck or paved areas surrounding the pool;
- non-abrasive and easy-to-clean pool perimeter finishes;
- adequate drainage on the pool deck to drain water quickly;
- where pool-depth indicator marking is provided, depthindicator markings, as well as 'SHALLOW END' and 'DEEP END' markings, of a highly contrasting colour and sufficient size to be easily visible;
- where diving boards or platforms are provided, they shall be clearly marked and protected. Overhead clearances should be a minimum of 2100 mm (82-3/4 in.) or shall be protected by suitable guards;
- where lanes, and/or lane markers are provided, they shall be of a highly contrasting colour. Tie-off devices for lane markers shall be positioned such that they do not create a tripping hazard;

# 4.5.3 SWIMMING POOLS, THERAPEUTIC POOLS/ PUBLIC SPAS AND SPRAY PADS

- where starting blocks are provided, they shall be of a highly contrasting colour and capable of being securely fixed in place;
- safety equipment and other accessories shall be stored such that they do not present a tripping hazard; and
- lifeguard chairs, slides and other pool related structures shall be in highly contrasting colours.

In retrofit situations where it is technically infeasible to provide a ramp, a mechanical pool lift may be used. Some pools may have both a ramp and pool lift. The pool lift has a sling lift that provides a higher level of assistance for those who may require this level of support.

Where a mechanical pool lift is provided,

- it should not be installed where water level exceeds 1220 mm (48 in.) unless entire pool depth is more than 1220 mm (48 in.);
- the centerline of the seat should be located over the deck and a minimum 400 mm (15-3/4 in.) from the edge of the pool when in raised position;
- a clear space beside the seat opposite the water at least 915 mm (36 in.) wide and extend forward not less than 1220 mm (48 in.) from a line located 305 mm (12 in.) behind the rear edge of the seat;
- it shall be capable of unassisted operation from both deck and water levels and be unobstructed when the lift is in use; and
- shall have a weight capacity of at least 135 kg (300 lbs) and capable of static load at least 1.5 times the rated load.

Wading pool access shall be safe and gradual so that a child with a disability can be assisted into the water easily and/or use a wheelchair to enter.

Swimming pools shall be of 'level-deck' design.

#### THERAPEUTIC POOLS/PUBLIC SPAS

Water temperature shall be heated to • between 33-34°C (92 - 94°F).

Temperature or other controls associated with the therapy pool (such as submerged water jets) shall meet requirements in 4.4.2.

Depth for the exercise portion of a therapy pool shall be between 1050 - 1200 mm (41 - 47 in.).

Submerged benches shall comply with 4.3.15.

Exercise bars (below water level) shall be incorporated into the design of a therapy pool.

A public spa shall be surrounded by a hard-surfaced deck that

- shall have a minimum clear deck space of not less than 1800 mm (70-7/8 in.) at the main entrance point; and
- shall have a minimum clear deck space of 900 mm (35-1/2 in.) on all sides.

Exception: where the public spa has an area of less than 6 square metres, and has no interior dimension of more than 2500mm (98-1/2 in.), one section of the pool deck that does not exceed 25% of the perimeter may have a minimum clear deck space of not more than 300 mm (11-5/8 in.)

Where a set of steps is provide for entry into and egress from the public spa, the steps shall

- be equipped with a handrail;
- · have a non-slip surface; and
- have a band of contrasting colour aloung the entire juncture of the side and top of the edges.

The slope of the bottom of any portion of a public spa shall not exceed 1:12 (8%).

The maximum depth of water to a seat or bench in a public spa shall be 600mm (23-5/8 in.)

At least one accessible access point shall be provided into a public spa. The access point shall be a ramp in compliance with this section or a transfer wall. A transfer wall shall:

- have a height of 405 485 mm (16 - 19 in.) above pool deck;
- have depth between 300 and 400 mm (11-3/4 - 15-3/4 in.);
- be slip-resistant and have edges

# 4.5 FACILITY-SPECIFIC REQUIREMENTS

rounded;

- have minimum one grab bar
  - perpendicular to pool and extending full depth of transfer wall;
  - located between 100 150 mm (4 - 5-7/8 in.) above transfer wall; and
  - with clearance of at least 610 mm (24 in.) on both sides;
- have adjacent clear deck area for lateral transfer to the transfer wall that
  - is outside of and adjacent to barrier free path of travel;
  - has no obstructions at side of transfer wall;
  - has clear space of 900 (35-1/2 in.) x 2200 mm (86-5/8 in.); and
  - has a slope less than 2% at base of transfer wall surface; and
- have adjacent clear deck area centred on the grab bar where one grab bar is provided, or centred on the clear space between grab bars where more than one is provided.

An emergency telephone with direct connection to emercency services shall be installed within 30m (98 ft. 5 in.) of a public spa.

All pumps in a public spa shall be capable of being deactivated by an emergency stop button that is clearly labeled and located within sight and readily accessible within 15m (49 ft. 2-1/2 in.) of persons using the public spa. The emergency stop control shall be seperate from the timing device, activate an audible and visual signal when used, and be identifed with emergency signage.

# **SPRAY PADS**

Spray pads shall be designed

- with an accessible route to the facility;
- to have no curb;
- to have a non-slip surface; and
- with all vertical elements to have high colour contrast with the surrounding elements and environment.

# **RELATED SECTIONS**

All relevant parts of Sections 4.1, 4.2, 4.3 and 4.4.

# 4.5 FACILITY-SPECIFIC REQUIREMENTS

#### **RATIONALE**

Cafeteria serving lines and seating area designs need to reflect the lower sight lines, reduced reach, knee-space and manoeuvring requirements of a person using a wheelchair or scooter. Patrons using mobility devices may not be able to hold a tray or food items while supporting themselves on canes or while manoeuvring a wheelchair. Tray slides should be designed to move trays with minimal effort.

Features such as colour contrasts and large print menus may assist persons with vision loss/no vision.

#### **APPLICATION**

In addition to the design requirements specified in 4.1 to 4.4, cafeterias shall comply with this section.

Where fixed tables or counters are provided, at least 10%, but not less than one, shall be *accessible* and shall comply with 4.3.7. It is preferable to have all fixed tables *accessible*.

In new construction, and where practicable in *alterations*, the fixed tables (or counters) shall be distributed throughout the *space*.

# 4.5.4 CAFETERIAS

At least one lane at each cashier area shall be *accessible* and comply with this section. It is preferable to have all lanes at all cashier areas *accessible*.

#### **DESIGN REQUIREMENTS**

Where food or drink is served at counters exceeding 865 mm (34 in.) in height and counters are for use by customers seated on stools or standing at the counter, a minimum of 1525 mm (60 in.) length of the counter shall be constructed in compliance with 4.3.8. Service may also be made available at *accessible* tables within the same area.

Access aisles at least 1100 mm (43-1/4 in.) shall be provided up to and around all accessible fixed tables. The access aisle shall be measured between parallel edges of tables or between a wall and the table edges.

Dining areas, including raised or sunken dining areas, and outdoor seating areas shall be *accessible*. In a retrofit situation where it is *technically infeasible* to provide access to all levels within a dining area, or to all parts of outdoor seating areas, at least one dining area shall be *accessible*. The *accessible* area must feature the same level of service and décor as the rest of the dining area and it must not be restricted to use by persons with *disabilities*.

A minimum of 20% of the tables must be accessible to persons using mogility aids (AODA, IASR, Design of Public Spaces).

Access to outdoor eating areas shall comply with 4.3.11.

Food service lines shall have a minimum *clear* width of 1100 mm (43-1/4 in.).

Tray slides shall be mounted no higher than 865 mm (34 in.).

If self-service shelves are provided, at least 50% must be within the reach ranges specified in 4.1.1. It is preferable to have all self-service shelves accessible.

Self-service shelves and dispensing devices for tableware, dishware, condiments, food and beverages shall be installed to comply with 4.1.1.

Cashier locations should feature at least one *access aisle*, which is a minimum of 1100 mm (43-1/4 in.) wide. It is preferable to have all aisles *accessible*.

In banquet rooms or *spaces* where a head table or speaker's lectern is located on a raised platform, the platform shall be *accessible* in compliance with 4.1.9 or 4.1.15, as well as 4.3.3.

Spaces for vending machines, beverage dispensers and other equipment shall comply with 4.1.1 and shall be located on an accessible route in compliance with 4.1.4.

Barriers and/or turnstiles, where provided to control access, shall comply with 4.1.7.

Queuing areas shall comply with 4.3.6.

#### **RELATED SECTIONS**

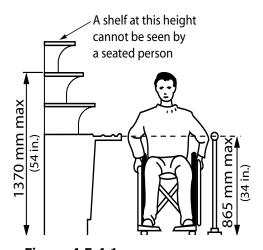


Figure 4.5.4.1
Self Serve Counter

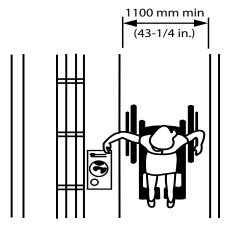


Figure 4.5.4.2 Aisle Width

# 4.5.5 CHURCHES, CHAPELS AND OTHER PLACES OF WORSHIP 4.5 FACILITY-SPECIFIC REQUIREMENTS

#### **RATIONALE**

#### **RELATED SECTIONS**

Access to all areas of worship should be provided. Access assumes that persons with *disabilities* may be participants, leaders, staff or volunteers.

All relevant parts of Sections 4.1, 4.2, 4.3 and 4.4.

#### **APPLICATION**

In addition to the design requirements specified in 4.1 to 4.4, churches, chapels and other places of worship and/or reflection shall comply with this section.

#### **DESIGN REQUIREMENTS**

All areas in churches, chapels and other places of worship and/ or reflection shall be *accessible* to persons with *disabilities*, including main areas of worship, *meeting rooms*, washrooms, coatrooms and offices.

Accessible seating shall be provided in compliance with 4.3.2.

Pulpits, altars, daises and choir areas shall comply with 4.3.3.

Public address systems shall comply with 4.4.9.

Assistive listening systems shall comply with 4.4.6.

# 4.5 FACILITY-SPECIFIC REQUIREMENTS

#### 4.5.6 LIBRARIES

#### **RATIONALE**

Traditional and automated systems should be available to all patrons and staff. Both the design of the facility and the provision of services should be considered. Service counters and study carrels should accommodate the knee-space and armrest requirements of a person using a wheelchair. Computer catalogues, carrels and workstations should be provided at a range of heights, to accommodate persons who are standing or sitting, as well as children of many ages and sizes. It is preferred to provide heightadjustable furnishings.

The provision of workstations equipped with assistive technology such as large displays, screen readers, etc. will increase the accessibility of a library.

The provision of book drop-off slots at different heights for standing and seated use will enhance usability.

#### **APPLICATION**

In addition to the design requirements specified in 4.1 to 4.4, libraries shall comply with this section.

Where fixed seating, tables or study carrels are provided, at least 10% but no less than one shall be *accessible* and in compliance with this section. It is preferable to have all fixed seating, tables and study carrels *accessible*.

At least one lane at each checkout area shall be *accessible* and comply with this section. It is preferable to have all lanes at all checkout areas *accessible*.

Where computer catalogues or workstations are provided, at least 50% shall be *accessible* and shall comply with this section. It is preferable to have all computer catalogues and workstations *accessible*.

#### **DESIGN REQUIREMENTS**

Accessible fixed seating, tables and study carrels shall be located on an accessible route in compliance with 4.1.4.

Clearances between fixed seating, tables and study carrels shall comply with 4.1.4.

Where shelving is provided at fixed seating, tables or study carrels, the shelving shall be no higher than 1120 mm (44 in.).

Accessible fixed study carrels shall incorporate

- work surfaces and knee/toe clearances that comply with 4.3.7;
- an electrical outlet; and
- lighting levels of at least 100 lux (9.3 ft-candles) at the work surface.

Where provided, traffic control or book security gates shall comply with 4.1.7.

Minimum *clear* aisle *space* at card catalogues and at stacks shall comply with 4.1.4.

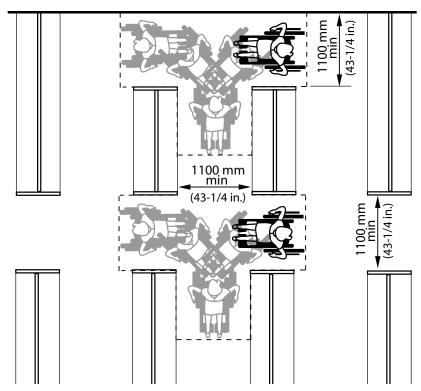


Figure 4.5.6.1
Aisle Width

### 4.5.6 LIBRARIES

### **DESIGN REQUIREMENTS**

(Continued)

Aisle configurations shall incorporate a *clear floor space* allowing a person in a wheelchair to make a 180-degree turn in compliance with 4.1.1.

Maximum reach heights at card catalogues shall comply with 4.1.1.

Shelf height in stack areas is unrestricted.

Circulation service counters and information service counters shall comply with 4.3.8.

Where provided, computer catalogues and computer workstations shall incorporate

- knee and toe space below the work surface in compliance with 4.1.1 and 4.3.7;
- a maximum work surface height of 865 mm (34 in.); and
- a maximum table depth of 915 mm (36 in.).

A minimum of one movable chair shall be provided at every information service counter, computer catalogue or computer workstation.

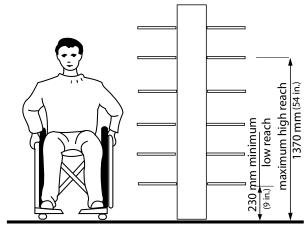


Figure 4.5.6.2 Reach Heights

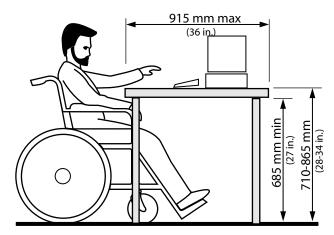


Figure 4.5.6.3 Work Surfaces

# 4.5 FACILITY-SPECIFIC REQUIREMENTS

Book drop slots shall

- be located on an accessible route complying with 4.1.4;
- be located adjacent to a 2440 by 2440 mm (96 by 96 in.) level clear floor space. In a retrofit situation where it is technically infeasible to create a 2440 x 2440 mm (96 by 96 in.) clear floor space, the space may be reduced to 1525 x 1525 mm (60 by 60 in.); and
- have a slot that is operable using one hand, located between 860 mm (34 in.) and 1220 mm (48 in.) above the floor.

Lighting at book stacks shall be mounted directly over the aisle space and provide a minimum of 200 lux (20 ft-candles) at a nominal working height of 920 mm (36 in.).

The acoustic quality shall be free of unnecessary background noise and should permit comprehension by persons with limited hearing. (Refer also to 4.4.16.)

Where CDs, tapes, talking books, etc. are available as part of the library resource materials, or for loan purposes, a separate *space* shall be provided for auditing this material without disturbing other library users.

#### **RELATED SECTIONS**

# 4.5 FACILITY-SPECIFIC REQUIREMENTS

#### **RATIONALE**

The role of persons with disabilities should not be restricted or limited to that of the customer or consumer. Workspaces should be designed with a view to future adaptation or accommodation of individual equipment or assistive devices.

#### **APPLICATION**

In addition to the design requirements specified in 4.1 to 4.4, business, mercantile and civic facilities shall comply with this section.

In areas used for transactions where counters have cash registers and are provided for sales and distribution of goods or services to the public, at least one of each type shall have a portion of the counter accessible and in compliance with this section. Such counters shall include, but not be limited to, counters in retail stores and distribution centres.

Where counters are dispersed throughout the *facility*, the *accessible* counters must also be dispersed throughout the *facility*.

In public facilities where counters or teller windows have solid partitions or security glazing to separate personnel from the public, at least one of each type shall provide a method to facilitate voice communication. Such methods may include, but are not limited to, grills, slats, talk-through baffles, intercoms or telephone handset devices.

The number of *accessible* checkout aisles provided shall be in conformance with Table 4.5.7.

### 4.5.7 BUSINESS, MERCANTILE AND CIVIC

#### **DESIGN REQUIREMENTS**

All accessible sales and service counters shall be on an accessible route that complies with 4.1.4.

In areas used for transactions where counters have cash registers and are provided for sales and distribution of goods or services to the public, the counter shall have at least one portion that is at least 920 mm (36 in.) in length, with a maximum surface height of 865 mm (34 in.) above the finished floor and shall have adjacent *clear floor space* of at least 1370 mm x 810 mm (54 x 32 in.) to allow for parallel approach by a person using a wheelchair or scooter.

In areas used for transactions that may not have a cash register but at which goods and services are sold, including, but not limited to, ticketing counters, teller stations, registration counters, information counters, box office counters and library check-out areas either a portion of the main counter shall be a minimum of 865 mm (34 in.) in length, with a maximum height of 865 mm (34 in.) or an auxiliary counter with the required minimum dimensions shall be provided in close proximity to the main counter.

In public *facilities* where counters or teller windows have solid partitions or security glazing to

separate personnel from the public, the method of communication provided shall be *accessible* to both individuals who use a wheelchair or scooter and individuals who have difficulty bending.

The clear width of accessible checkout lines shall comply with 4.1.4, and the maximum adjoining counter height shall not exceed 965 mm (38 in.) above the finished floor. The top of any counter edge protection shall be no more than 50 mm (2 in.) above the top of the counter surface on the aisle side of the check-out counter.

Signage identifying accessible checkout aisles shall incorporate the International Symbol of Access and shall be mounted above the checkout aisle in the same location where the checkout number or type of checkout is displayed.

Any devices used to prevent the removal of shopping carts from store premises shall not prevent access or *egress* to persons who use a wheelchair or scooter. An alternate *entrance* that is equally convenient to that provided for ambulatory persons is acceptable.

#### RELATED SECTIONS

Total checkout aisles of each design	Minimum number of accessible checkout aisles of each design
1-4	1
5-8	2
9-15	3
Over 15	3 plus 20% of additional aisles

**Table 4.5.7**Required Number of *Accessible* Checkout Aisles

### 4.5.8 POLICE STATIONS

#### **RATIONALE**

Police stations should accommodate persons with *disabilities* who may be members of the public, detainees, members of counsel or police staff. All areas of the police station that are used by the public, members of staff and counsel should be fully *accessible* to persons with *disabilities*. Secure areas, such as cells and common areas used by detainees, should have provisions to *accommodate* persons with *disabilities*.

#### **APPLICATION**

In addition to the design requirements specified in 4.1 to 4.4, holding cells in police stations shall comply with this section.

Except as specified in this section, all common use areas serving accessible cells or rooms and all public use areas shall be designed and constructed to comply with 4.1 to 4.4. Exceptions: Requirements for areas of rescue assistance in 4.4.1 do not apply. Compliance with requirements for elevators and stairs is not required in multi-storey housing facilities where accessible cells or rooms, all common use areas serving them and all public use areas are located on an accessible route.

Entrances used by the public, including those that are secured, shall be *accessible* and in compliance with 4.1.5. Exception: Secured entrances, doors and doorways operated only by security personnel shall not be required to have *accessible* door hardware.

Where security systems are provided at public or other entrances required to be accessible by this section, an accessible route complying with 4.1.4 shall be provided through fixed security barriers at required accessible entrances. Where security barriers incorporate equipment such as metal detectors, fluoroscopes, or other similar devices which cannot be made accessible, an accessible route shall be provided adjacent to

such security screening devices, to facilitate an equivalent circulation path for persons using a wheelchair or scooter.

In non-contact visiting areas where detainees are separated from visitors, the following *elements*, where provided, shall be *accessible* and located on an *accessible* route complying with 4.1.4.

- Cubicles and Counters: 5%, but not less than one, shall comply with 4.3.7 on both the visitor and detainee sides. Where counters are provided, they shall comply with 4.3.8 on both the visitor and detainee sides. Exception: Non-contact visiting areas not serving accessible cells or rooms.
- Partitions: Solid partitions or security glazing separating visitors from detainees through which communication is necessary shall incorporate communication systems which are accessible to both individuals who use a wheelchair or scooter and individuals who have difficulty bending. If such communication systems incorporate a telephone handset, at least one telephone handset shall be equipped with a volume control.

At least 2%, but not less than one, of the total number of cells shall comply with this section. Where special cells are provided (e.g., orientation, protective custody, disciplinary, segregation, detoxification or medical isolation), at least one of each purpose shall comply with this section.

In addition to the aforementioned cell requirements, at least 2%, but not less than one, of general cells shall be equipped with audible emergency warning systems or permanently installed telephones within the cell, in compliance with this section.

Medical care *facilities* providing physical or medical treatment or care shall be *accessible* to persons with *disabilities*.

# 4.5 FACILITY-SPECIFIC REQUIREMENTS

#### **DESIGN REQUIREMENTS**

Accessible cells shall be located on an accessible route in compliance with 4.1.4.

Where provided to serve accessible cells, the following elements or spaces shall be accessible and connected by an accessible route.

- All doors and doorways on an accessible route shall comply with 4.1.6. Exception: Secured entrances, doors and doorways operated only by security personnel shall not be required to have accessible door hardware.
- At least one toilet and one bathing facility shall comply with 4.2.
- Accessible beds shall have manoeuvring space of at least 920 mm (36 in.) wide along one side.
- At least one drinking fountain and/or water cooler shall comply with 4.3.1.
- Fixed or built-in tables, counters or work surfaces shall comply with 4.3.7.
- At least one fixed bench shall comply with 4.3.15.
- Fixed or built-in storage shall comply with 4.3.9.
- All controls intended for operation by detainees shall comply with 4.4.2.

Where audible emergency warning systems are provided to serve occupants of cells, visual alarms complying with 4.4.4 shall also be provided. Exception: Visual alarms are not required where detainees are not allowed independent means of *egress*.

Where permanently installed telephones are provided within cells, they shall have volume controls.

#### **RELATED SECTIONS**

# 4.5 FACILITY-SPECIFIC REQUIREMENTS

#### **RATIONALE**

Municipal court facilities should accommodate persons with disabilities who may be members of the judiciary, court clerks or other officials, defendants, members of counsel and members of the public.

Court facilities usually incorporate changes in level at the judge's dais and court officials' areas. While it is not required to make all of these areas fully accessible, it is a requirement that they be easy to adapt, should the need arise in the future to accommodate a person with a mobility impairment. Other areas of the court generally used by the public, defendants, witnesses and counsel should be accessible to all persons.

#### **APPLICATION**

In addition to the design requirements specified in 4.1 to 4.4, municipal courts shall comply with this section.

In addition to the accessible entrances used by staff or the public as required in 4.1.5, where provided, at least one restricted entrance and one secured entrance to the facility shall be accessible. Restricted entrances are those entrances used only by judges, public officials, facility personnel or other authorized parties on a controlled basis. Secure entrances are those *entrances* to judicial facilities used only by detainees and detention officers. Exception: Secured entrances, doors and doorways operated only by security personnel shall not be required to have accessible door hardware.

An accessible route complying with 4.1.4 shall be provided through fixed security barriers at required accessible entrances. Where security barriers incorporate equipment such as metal detectors, fluoroscopes, or other similar devices which cannot be made accessible, an accessible route

#### 4.5.9 MUNICIPAL COURTS

shall be provided adjacent to such security screening devices, to facilitate an equivalent circulation path.

#### **DESIGN REQUIREMENTS**

Where a two-way communication system is provided to gain admittance to a *facility*, or to restricted areas within a *facility*, the system shall provide both visual and audible signals and shall comply with 4.4.2.

Where provided, the following elements and spaces shall be on an accessible route complying with 4.1.4.

- Spectator, Press and other areas with Fixed Seats: Each spectator, press and other area with fixed seats having a seating capacity of 25 or less, shall have within its defined area a clear floor space complying with 4.1.1. Where the seating capacity of a spectator, press and other area with fixed seats is greater than 25, seating provision shall be provided in compliance with 4.3.2.
- Jury Boxes and Witness Stands: Each jury box and witness stand shall have within its defined area clear floor space complying with 4.1.1.
- Judges' Benches and Courtroom Stations: Judges' benches, clerks' stations, bailiffs' stations, court reporters' stations, and litigants' and counsel stations shall comply with 4.3.7.

#### Exceptions:

 Vertical access to raised judges' benches or courtroom stations need not be installed, provided that the requisite areas and manoeuvering spaces are installed at the time of initial construction, to allow future installation of a means of vertical access complying with 4.1.9, 4.1.14 or 4.1.15

- without requiring substantial reconstruction of the *space*.
- In alterations, accessible clear floor spaces are not required to be located within the defined area of jury boxes or witness stands and may be located outside these spaces where a ramp or lift access poses a hazard by restricting or projecting into a required means of egress.

Permanently installed assistive listening systems in compliance with 4.4.6 shall be provided in each courtroom. The minimum number of receivers shall be 4% of the room occupant load, but not less than two receivers. An informational sign indicating the availability of an assistive listening system shall be posted in a prominent place.

Where provided in areas for jury assembly or deliberation, the following *elements* or *spaces* shall be on an *accessible route* complying with 4.1.4 and shall comply with the following provisions

- refreshment areas, kitchenettes and fixed or built-in refreshment dispensers shall be accessible to persons with disabilities.
- where provided, drinking fountains shall comply with 4.3.1.

#### **RELATED SECTIONS**

### 4.5.10 TRANSPORTATION FACILITIES

# 4.5 FACILITY-SPECIFIC REQUIREMENTS

#### **RATIONALE**

Links to usable transportation should be *accessible* to all members of a community. Accessibility within terminals and use of systems should be addressed. This includes public and private bus, taxi, train, and airplane arrival and departure points. A variety of lift devices may need to be accommodated, and alternatives to audio and/or visual-only scheduling should be available.

It is important to provide appropriate wayfinding guidance in open areas, including tactile direction indicators.

#### **APPLICATION**

In addition to the design requirements specified in 4.1 to 4.4, transportation *facilities* located within a *site* shall comply with this section.

#### **DESIGN REQUIREMENTS**

#### **BUS SHELTERS**

Bus shelters shall

- be located on firm, level pads approximately at the same elevation as the sidewalk or walkway;
- have clearances around at least two sides of the shelter, including the landing pad side, of at least 1220 mm (48 in.);
- provide a clear view of oncoming traffic;
- incorporate sufficient clear floor space to accommodate a person using a wheelchair or scooter; and
- feature at least one seat with armrests and a seat height between 450 mm and 500 mm (17-3/4 in. and 19-5/8 in.) and in compliance with 4.3.15.

All glazed panels surrounding bus shelters shall incorporate decals, and other safety features as specified in 4.1.8.

#### **BUS STOPS**

Bus stops shall

- incorporate a paved, firm, level surface, in compliance with local authority standards; and
- not be impeded by adjacent street furniture, such as dispensers, vending machines, waste boxes, planters, posts, signs and guide wires.

#### TRANSIT TERMINALS

Where bus platforms or other boarding platforms are provided, they shall allow safe access for persons who use a wheelchair or scooter, and where possible, provide level access into buses.

The edges of platforms shall incorporate a continuous *detectable* warning surface of at least 600 mm (23-5/8 in.) wide and in compliance with 4.4.8.

Lighting levels at all boarding platforms shall be at least 100 lux (10 ft-candles) at the platform or boarding-surface edge.

Boarding locations shall incorporate visible and audible warning signals to advise travellers of approaching vehicles.

Where special lifting devices are used, either on the vehicle or at the boarding point, appropriate manoeuvring *space* shall be provided around the boarding point for waiting passengers using wheelchairs.

Seating shall be provided in compliance with 4.3.15, at or close to boarding points.

#### **RELATED SECTIONS**

# 4.5 FACILITY-SPECIFIC REQUIREMENTS

#### **RATIONALE**

Municipal fire stations should accommodate the accessibility needs of potential facility users (while supervised), including but not limited to:

- Injured staff attending a Captain's office or other meeting space within the facility;
- Administration staff, Council Members, Consultants, etc attending site visits;
- Tours of non-work staff (School groups, etc.);
- Occasional uses of the facility.
   Fire stations contain spaces that may be used by the public while supervised by staff; and
- Use by members of the general public in an emergency situation
  - Pedestrian walk-up &/or vehicular drop-in requests for assistance/emergency services; and

Areas of fire stations likely to be used by the public, including the apparatus bay, should be accessible for persons with disabilities.

#### **APPLICATION**

Areas of a fire station that are accessible to the public and/ or intended for access/viewing by visitors shall comply with this section.

<u>Universal Washroom - Renovation</u>

Power Door Operator Control Baby Change Table Baby Change Table Clear Space Shower Clear Space Sink Clear Floor Space Trench Drain Space for **Future Adult** Change Table Clear Transfer Grab Shower Shower Figure 4.5.11.1 Seat

#### 4.5.11 FIRE STATIONS

Exception: Facilities for the exclusive use of firefighters such as hose towers, fitness rooms, 2nd floors, dormitories, and any basement level storage space.

At least one accessible public washroom shall be provided.

#### **DESIGN REQUIREMENTS**

Public entrances shall be accessible and in compliance with 4.1.5.

Firefighter entrances shall be accessible and in compliance with 4.1.5, except that a power door operator is not required, unless it is required by the Ontario Building Code.

An accessible path of travel in compliance with 4.1.4 shall be provided from accessible public entrances to all spaces that are accessible to the public or intended for access/viewing by visitors.

Where more than 3 entrances are provided, minimum 2 barrier-free entrances are required (per OBC).

Spaces that may be used by community and public within fire stations shall comply with Section 4.3.5.

Common-use areas within a fire station, such as the kitchen, shall comply with all relevant sections of this Standard.

The accessible washroom shall:

- comply with 4.2.7 except that an adult-sized change table is not required (but space for an adult sized change table must be provided); and
- have a baby change table.

Where public parking is provided, at least one accessible parking space shall be located close to the primary public entrance.

#### **RELATED SECTIONS**

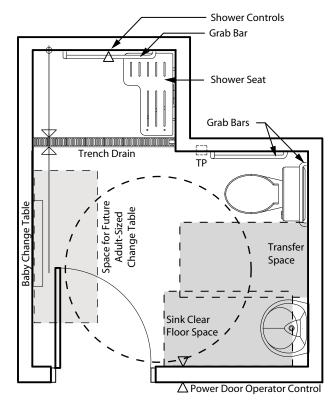


Figure 4.5.11.2 Universal Washroom - New Construction

### 4.5.12 TRAINING AND TEACHING SPACES

# 4.5 FACILITY-SPECIFIC REQUIREMENTS

#### **RATIONALE**

Students, teachers and staff with disabilities should be accommodated in all training and teaching spaces throughout the facility. Basic accommodation includes the ability to enter and move freely throughout the space, as well as use the various built-in elements within (i.e. integrated technology, whiteboards, switches, computer stations, sinks, etc.)

Individuals with disabilities frequently use learning aids and other assistive devices that require a power supply. The provision of additional electrical outlets throughout training and teaching spaces will better-accommodate the use of such equipment.

Where built-in elements are duplicated within individual training/teaching spaces, such as laboratory benches or pinboards, at least one of each type of element should be accessible.

Fixtures, fittings, furniture and equipment specified for training/ teaching spaces, shall be flexible for use by students, teachers and staff with a wide range of abilities. Adjustable height tables and chairs, removable armrests and including rolling/locking casters on furniture allows an individual to make any adjustments needed to adapt the environment to meet their individual needs.

#### **APPLICATION**

All training and teaching spaces shall be accessible and shall comply with this section.

Where built-in elements such as fixed seating, tables or laboratory benches are provided within a training/teaching space, at least 10% but no less than one, shall be accessible and in compliance within this section.

At least 2% of the seating shall be wider seats with a load capacity of at least 227 kg (500 lbs).

At least 2% of tables and chairs shall be height adjustable.

At least 50% of shelf space in storage facilities in training/teaching spaces shall comply with this section.

Where writing surfaces are integrated into training/teaching space seating, 10% but no less than one shall accommodate persons who are left-handed.

Classroom 'portables' shall comply with this section.

At least 3% of the seating capacity within any training and teaching facilities shall be accessible and reserved for persons in wheelchairs.

The common-use areas of training/ teaching facilities shall comply with all relevant sections of this manual.

#### **DESIGN REQUIREMENTS**

Training and teaching spaces shall incorporate

- At least one entry/egress door in compliance with 4.1.6;
- Entrance doors into training and teaching spaces with a capacity of over 60 people shall incorporate a power door operator;
- Floor surfaces throughout in compliance with 4.1.2;
- Primary circulation routes in compliance with 4.1.4, linking all functional areas and elements within the space;
- Secondary circulation routes no less than 920 mm (36 in.) wide;
- Controls and operating mechanisms in compliance with 4.4.2;
- Where provided, windows, glazed screens and sidelights in compliance with 4.1.8;
- Access to assistive learning devices such as screen reading software or adapted keyboards on an as-needed basis; and
- Access to an accessible washroom on the same floor level.

Classrooms, auditoria, assembly areas and other training and teaching spaces that incorporate fixed seating shall

- Incorporate no less than two separate accessible seating locations;
- Incorporate accessible seating locations in compliance with 4.3.2; and
- Allow persons with disabilities to access the primary presentation area.

Wheelchair seating spaces shall be places in close proximity to the room entrance. The minimum size of a wheelchair seating space shall comply with 4.3.2 Viewing Positions.

Where applicable, training and teaching spaces shall incorporate assistive listening systems in compliance with 4.4.6.

# 4.5 FACILITY-SPECIFIC REQUIREMENTS

Where training and teaching spaces incorporate safety equipment such as fire extinguishers, eye-baths or deluge shower, such equipment shall be accessible to and usable by persons with disabilities.

Accessible work surfaces and other built-in elements within training and teaching spaces shall

- Comply with 4.3.7;
- Where applicable, incorporate controls and operating mechanisms in compliance with 4.4.2;
- Provide access to data and electrical outlets within close proximity and easy reach to accessible seating spaces; and
- Be positioned such that a personal assistant, service animal and/or extra equipment can be accommodated at each accessible seating location.

Work surfaces shall incorporate nonglare finishes.

Accessible storage elements within training and teaching spaces shall

- Be located on an accessible route with adjacent clear floor space in compliance with 4.1.1;
- Comply with at least one of the reach ranges specified in 4.1.1; and
- Incorporate operable portions that comply with 4.4.2.

Where pinboards, whiteboards, smartboards or other display systems are provided within training and teaching spaces, at least one of each type shall

- Be located on an accessible route with adjacent clear floor space in compliance with 4.1.1; and
- Have its lowest edge located no higher than 760 mm (30 in.).

### 4.5.12 TRAINING AND TEACHING SPACES

Where training and teaching spaces incorporate demonstration areas such as laboratory benches, cooking prep stations, fume cabinets or computer stations, provisions must be made to facilitate viewing from a variety of eye-levels. The installation of mirrors over the demonstration areas is one way to provide such access as well as the use of cameras and a monitor screen for image display.

Where training and teaching spaces incorporate sinks, at least one shall comply with 4.3.18.

Where training and teaching spaces incorporate appliances such as dishwashers, ranges and/or cooktops, ovens and refrigerators/ freezers, at least one of each type shall comply with 4.3.18.

Where training and teaching spaces incorporate kitchens, each kitchen shall

- Comply with 4.3.18; and
- Incorporate at least one work surface minimum 920 mm (36 in.) wide, located maximum 865 mm (34 in.) high, with knee space below at least 810 mm (32 in.) wide, 480 mm (18-7/8 in.) deep, and 685 mm (27 in.) high.
- Alternatively, provide height adjustable work surfaces

Where provided, lockers shall comply with 4.3.10.

Where speaker podiums are provided they shall comply with 4 3 7

Spaces intended for general training, teaching and study shall feature a background noise level no higher than 30 dB(A).

Lighting levels in training and teaching spaces should be a minimum of 500 lux (50 f) and 750 lux (75 fc) at the podium.

Where training and teaching spaces are intended primarily for the use of children (such as a childrens' area in a library), spaces and elements shall be designed to meet the alternate mounting height and reach range accommodating children identified in Table 4.5.12.

#### **RELATED SECTIONS**

All relevant parts of Sections 4.1, 4.2, 4.3 and 4.4.

Forward or Side Reach	Ages 3 - 4	Ages 5 - 8	Ages 9 - 12
High	915 mm	1015 mm	1120 mm
(maximum)	(36)	(40)	(44)
Low	510 mm	455 mm	405 mm
(minimum)	(20)	(18)	(16)

Children over the age of 12 have the same reach requirements as adults.

**Table 4.5.12**<u>Alternate reach requirements for children</u>

#### 4.5.13 LABORATORIES

#### **RATIONALE**

Staff with disabilities should have equitable access to laboratory facilities.

Basic accommodation includes the ability to enter and move freely throughout the space, as well as use the various built-in elements within (i.e. blackboards, switches, benches, sinks, etc). Individual staff with a disability may require additional accommodations beyond those identified within this section.

Where built-in elements are duplicated within a laboratory, such as benches or pinboards, at least one of each type of element should be accessible.

Fixtures, fittings, furniture and equipment specified for laboratories, shall be flexible for use by persons with disabilities. However, it is recognized that not all equipment found in laboratories is usable by persons with disabilities.

#### **APPLICATION**

All laboratories shall be accessible and shall comply with this section.

Where built-in elements such as fixed seating, tables, benches or fume hoods are provided within a laboratory, at least 3% but no less than one, shall be accessible and in compliance with this section.

At least 50% of shelf space in storage facilities in laboratories shall comply with this section.

#### **DESIGN REQUIREMENTS**

Laboratories shall incorporate

- At least one entry/egress door in compliance with 4.1.6;
- Entrance doors into laboratory spaces with a capacity of over 60 people shall incorporate a power door operator;
- Floor surfaces throughout in compliance with 4.1.2;
- Primary circulation routes in compliance with 4.1.4, linking all functional areas and elements within the space;
- Secondary circulation routes no less than 920 mm (36 in.) wide;
- Controls and operating mechanisms in compliance with 4.4.2; and
- Where provided, windows, glazed screens and sidelights in compliance with 4.1.8.

Accessible built-in elements such as tables and benches shall

- Have work surfaces in compliance with section 4.3.7;
- Provide access to data and electrical outlets within close proximity and easy reach to accessible seating spaces; and
- Be positioned such that a personal assistant, service animal and/or extra equipment can be accommodated at each accessible seating location.

Work surfaces shall incorporate nonglare finishes.

Wherever practical, controls and operating mechanism associated with built-in elements and equipment shall be mounted on the front face of the built-in element or equipment, or in an equivalent location that is reachable by a user in a seated position. All other characteristics of controls and operating mechanisms shall comply with 4.4.2.

# 4.6 MAINTENANCE AND OPERATIONS

Areas intended for demonstration purposes, such as laboratory benches, fume cabinets or computer stations, provisions must be made to facilitate viewing from a variety of eye levels. The installation of mirrors over the demonstration area is one way to provide such access.

Where laboratory sinks are provided, at least one of each type shall comply with 4.3.18.

Accessible storage elements shall

- Be located on an accessible route with adjacent clear floor space in compliance with 4.1.1;
- Comply with at least one of the reach ranges specified in 4.1.1;
   and
- Incorporate operable portions that comply with 4.4.2.

Safety equipment such as fire extinguishers, eye-baths or deluge showers shall be accessible to and useable by persons with disabilities.

Where pinboards, whiteboards, smartboards or other display systems are provided within laboratories, at least one of each type shall

- Be located on an accessible route with adjacent clear floor space in compliance with 4.1.1; and
- Have its lowest edge located no higher than 750 mm (29-1/2 in.).

Where provided, all fume hoods shall have base surface mounted no higher than 865 mm (34 in.) above the floor. At least one fume hood shall have knee-space below, at least 685 mm high (27 in.) by 480 mm deep (18-7/8 in.) by 810 mm wide (32 in.).

#### **RELATED SECTIONS**

# 4.5 FACILITY-SPECIFIC REQUIREMENTS

#### **RATIONALE**

Access to all areas within the daycare should be provided. Access assumes that persons with disabilities may be children, parents, staff or volunteers.

#### **APPLICATION**

In addition to the design requirements specified in 4.1 to 4.4, daycare centres and daycare facilities shall comply with this section. All areas in daycare centres and daycare facilities shall be accessible to persons with disabilities.

#### **DESIGN REQUIREMENTS**

The entry vestibules shall be large enough to accommodate a triple stroller and a person, in addition to the free space require for the clear swing of any door that enters the space.

Accessible tables, counters, work surfaces and activity counters or built-in millwork shall be located on an accessible route complying with 4.1.4.

Public address systems shall comply with 4.4.9.

Assistive listening systems shall comply with 4.4.6.

Kitchens/kitchenettes or Food preparation areas shall comply with 4.3.18.

### 4.5.14 CHILD CARE/MINDING

Cubbies and Coat storage areas shall comply with 4.3.9.

If a lockable mail box is provided it shall comply with 4.4.2.

If a separate dedicated child or infant sleeping room is provided it shall comply with path of travel and turn circle to all cots and transfer space for children with disabilities for at least 5% (never less than 1) of the beds/cots.

Adjacencies for rooms shall have the entry and community lobby with access to a universal washroom, the main circulation corridor, an elevator (if on more than one level), a stroller storage area and access to the outdoor play space door

Barrier-free power operators should not allow children to leave the centre unsupervised. Keypad access, card reader or other type of secure access should be incorporated and operate so that the automatic door operator only activates their use.

Where stairs and ramps are provided, handrails shall comply with 4.1.12 and a second childheight handrail mounted at 510 – 710 mm (20 – 28 inch) will be provided.

Where elevators are provided they shall be sized to accommodate a triple stroller and the appropriate staff-to-child ratio based on age group served by the daycare facility.

Playgrounds on site shall comply with the CAN/CSA Z614-07 Annex H.

#### **RELATED SECTIONS**

#### 4.6 MAINTENANCE AND OPERATIONS

#### **RATIONALE**

Property maintenance is important to ensure an accessible environment that is safe and useable by everyone. Such maintenance involves the proper care, cleaning and repair of a facility, maintaining it in good order and safe condition. Snow and ice removal are particularly important components of property maintenance. Consideration should be given to the use of radiant heating at accessible entrances, ramps and other exterior elements, in an effort to maintain an optimum level of safety and continued use of accessible building elements.

#### **APPLICATION**

All accessible facilities, accessible elements and systems within those facilities, and contained within the facility site, shall be maintained on a regular basis to ensure their continued usability and safety.

#### MAINTENANCE REQUIREMENTS

Accessible routes and emergency exits / areas of rescue assistance shall be maintained, and kept free of objects, debris, snow, ice and/ or excessive water accumulation. Maintenance shall include, but not be limited to, the timely removal of snow, ice, winter sand/salt, wet leaves and other debris from accessible routes, curb ramps, stairs, and entrances.

Designated areas for snow piling shall be provided at pedestrian routes, entrances, stairs, ramps and public parking areas. Snow storage shall not reduce the minimum width required for an exterior accessible route, or affect the usability of accessible facilities, elements or systems.

Catch basins and run-offs shall be kept clear to ensure rapid removal of water from melting snow or ice from all pedestrian routes.

Regular and systematic checks shall be undertaken to ensure that no obstacles have been located in pedestrian routes (e.g., newspaper vending machines and bicycle racks or garbage containers).

Where accessible routes are not cleared regularly, appropriate signage shall be used.

Garbage containers shall be emptied regularly to avoid the accumulation of extraneous garbage around the containers and the likelihood of bees/insects accumulating during warmer weather.

Light bulbs along pedestrian routes shall be replaced on a regular schedule, with lamps (of the same wattage) for which they were designed.

# 4.6 MAINTENANCE AND OPERATIONS

Operable elements installed on or adjacent to accessible interior and exterior routes shall be inspected, well maintained on a regular schedule, and kept in operable condition. These elements can include but are not limited to:

- Elevating devices;
- Power door operators;
- Swipe card access systems;
- Signage;
- Lighting;
- Controls;
- Gates;
- Closers;
- Mechanical chair lifts;
- Automatic ticket machines; and
- Other essential equipment.

When a portion of an accessible route is temporarily closed to users, a continuous alternative accessible route that complies with 4.1.4 (Accessible Routes, Paths and Corridors) shall be provided. The alternative accessible route shall be separated from vehicular routes, and the location and direction of the alternative accessible route shall be clear and easy to detect for individuals of all abilities. Provide Alternate Route signage including end date of disruption to be installed in compliance with 4.4.7.

Where maintenance work is contemplated/underway clear notification must be posted to inform all users of alternate routes to accessible features such as washrooms, ramps, TTY services, escalators, elevators and other systems provided to accommodate the needs of people with disabilities. Notification signs should not only be located and maintained at the maintenance sites but also at all facility entrances, receptions, and service counters. It is also important to ensure that posted notification signs are wellmaintained and provide advanced notice of disruption in service.

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# UNIVERSAL DESIGN PRINCIPLES AND GUIDELINES

Version 2.0 - 4/1/97

Compiled by advocates of universal design, listed in alphabetical order: Bettye Rose Connell, Mike Jones, Ron Mace, Jim Mueller, Abir Mullick, Elaine Ostroff, Jon Sanford, Ed Steinfeld, Molly Story, and Gregg Vanderheiden

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#### **UNIVERSAL DESIGN:**

The design of products and environments to be usable by all people, to the greatest extent possible, without the need for adaptation or specialized design.

The authors, a working group of architects, product designers, engineers and environmental design researchers, collaborated to establish the following Principles of Universal Design to guide a wide range of design disciplines, including environments, products, and communications. These seven principles may be applied to evaluate existing designs, guide the design process and educate both designers and consumers about the characteristics of more usable products and environments.

The Principles of Universal Design are presented here, in the following format: name of the principle, intended to be a concise and easily remembered statement of the key concept embodied in the principle; definition of the principle, a brief description of the principle's primary directive for design; and guidelines, a list of the key elements that should be present in a design which adheres to the principle. (Note: all guidelines may not be relevant to all designs.)

#### **PRINCIPLE ONE: Equitable Use**

The design is useful and marketable to people with diverse abilities.

#### **Guidelines:**

1a. Provide the same means of use for all users: identical whenever possible; equivalent when not.

- 1b. Avoid segregating or stigmatizing any users.
- 1c. Provisions for privacy, security, and safety should be equally available to all users.
- 1d. Make the design appealing to all users.

#### **PRINCIPLE TWO: Flexibility in Use**

The design accommodates a wide range of individual preferences and abilities.

#### **Guidelines:**

- 2a. Provide choice in methods of use.2b. Accommodate right- or left-
- handed access and use.
- 2c. Facilitate the user's accuracy and precision.
- 2d. Provide adaptability to the user's pace.

# PRINCIPLE THREE: Simple and Intuitive Use

Use of the design is easy to understand, regardless of the user's experience, knowledge, language skills, or current concentration level.

#### **Guidelines:**

- 3a. Eliminate unnecessary complexity.
- 3b. Be consistent with user expectations and intuition.
- 3c. Accommodate a wide range of literacy and language skills.
- 3d. Arrange information consistent with its importance.
- 3e. Provide effective prompting and feedback during and after task completion.

# PRINCIPLE FOUR: Perceptible Information

The design communicates necessary information effectively to the user, regardless of ambient conditions or the user's sensory abilities.

#### **Guidelines:**

- 4a. Use different modes (pictorial, verbal, tactile) for redundant presentation of essential information.
- 4b. Provide adequate contrast between essential information and its surroundings.
- 4c. Maximize "legibility" of essential information.
- 4d. Differentiate elements in ways that can be described (i.e., make it easy to give instructions or directions). 4e. Provide compatibility with a variety of techniques or devices used by people with sensory limitations.

#### APPENDIX A

# PRINCIPLE FIVE: Tolerance for Error

The design minimizes hazards and the adverse consequences of accidental or unintended actions.

#### **Guidelines:**

- 5a. Arrange elements to minimize hazards and errors: most used elements, most accessible; hazardous elements eliminated, isolated, or shielded.
- 5b. Provide warnings of hazards and errors.
- 5c. Provide fail-safe features.
- 5d. Discourage unconscious action in tasks that require vigilance.

# PRINCIPLE SIX: Low Physical Effort

The design can be used efficiently and comfortably and with a minimum of fatigue.

#### **Guidelines:**

- 6a. Allow user to maintain a neutral body position.
- 6b. Use reasonable operating forces.
- 6c. Minimize repetitive actions.
- 6d. Minimize sustained physical effort.

# PRINCIPLE SEVEN: Size and Space for Approach and Use

Appropriate size and space are provided for approach, reach, manipulation, and use, regardless of user's body size, posture, or mobility.

#### **Guidelines:**

- 7a. Provide a clear line of sight to important elements for any seated or standing user.
- 7b. Make reach to all components comfortable for any seated or standing user.
- 7c. Accommodate variations in hand and grip size.
- 7d. Provide adequate space for the use of *assistive devices* or personal assistance.

Please note that the Principles of Universal Design address only universally usable design, while the practice of design involves more than consideration for usability. Designers must also incorporate other considerations, such as economic, engineering, cultural, gender, and environmental concerns, in their design processes. These principles offer designers guidance to better integrate features that meet the needs of as many users as possible.

#### APPENDIX B

# DESIGN CONSIDERATIONS

WAYFINDING

#### **RATIONALE**

"Wayfinding" is a term that describes the spatial problemsolving process that a person uses to reach a destination. A mental "map" is formed of the overall setting and the desired destination. This map is based on information obtained from "orientation cues" that are available from the setting's environment. These cues include not only signage, but also the overall spatial forms, structures, sounds, surface textures, colours, illumination levels, architectural features, etc. Tactile maps and/ or recorded instructions can augment these orientation cues and enable people to find their way independently, even in complex settings. A well-designed setting can thus be spatially gratifying and simple enough for persons to "wayfind" if there are adequate, varied, and non-conflicting wayfinding cues available to the individual user.

Appropriate wayfinding ensures building users can answer the following questions:

- Where am I?
- Which way am I facing?
- Is this the route to my destination?
- Is it easy for me to find my way back and to all main public facilities?

Way finding shall:

- Assume all building users are first time visitors;
- Provide journey based information – Providing information at appropriate points in a journey that allow users to know where they are, where their destination is, what route they should take, how to recognize the destination and how to find their way back;
- Keep messages and strategies simple – Uncluttered, ground and floor surfaces free of confusing or apparent directional patterns, comprehensible to people with a broad range of abilities and language skills;
- One message at a time –
   Allow users to travel from one
   decision point to the next with a
   step by step approach to reach
   destination;
- Employ Universal Design
   Strategies Consistency of
   message and terminology,
   Consistency in typography and
   colour, Consistency in placement
   of messages, Placement of signs
   is critical and takes into account
   anthropometrics, age of reader,
   use of assistive devices;
- Provide Wayfinding Maps –
  You are here locations on
  each map, located at floor
  directories, tactile maps, simple
  and schematic (eg. Principal
  entrance, parking areas and pay
  books, information/reception
  desk(s), public zones and
  common-use destinations, exits,
  and kiosks or self help areas);

- Signage zones Placed consistently on each floor such as near public elevators and along public circulation routes, Clear floor space minimum 1500 deep at signage and maps placed outside of the main path of travel;
- Information content Will be organized in a logical order, use plain language and identify information such as accessible services/facilities on the premises, as well as other content appropriate to the building use and major occupancy;
- Signage locations shall indicate the accessible route from vehicular and pedestrian entry to the site to the parking and main entrance, accessible site facilities, passenger loading zones, directional signage to vertical circulation elements, information desk and washrooms; Elevator lobbies with floor directories, map of floor, directional signage to common destinations: Coordinate signage requirements with security needs;
- Acoustics Sound transmission/ reflection characteristics of finish materials shall aurally differentiate major and secondary paths of travel;
- Landmarks Shall create an identity at specific decision making locations that helps to differentiate them from all other locations on the site; Shall be memorable visible and/or audible and/or scented; Include appropriate auditory cues along circulation routes and at destination points serve as useful wayfinding clues, especially for persons who rely upon hearing to orient themselves;

#### WAYFINDING

- Tactile direction indicators
   (or Guidance Tactile Warning
   Surface Indicators) Shall
   be provided in large open
   floor areas, such as building
   entry lobbies, shopping malls
   or transportation terminals,
   to facilitate wayfinding by
   indicating the primary routes
   of travel. The TDIs shall lead
   from the entrance points to
   major destinations, such as an
   information or registration desk
   and elevator;
- Clearly defined boundaries –
   High colour and tonal contrast
   in materials in flooring shall
   enhance defining such as the
   junction between walls and
   floors, doorway recesses and
   corridor intersections;
- Visual characterizations –
  Regions or departments shall
  use some form of different
  visual characterization to define
  each as distinct from other
  areas;
- Another creative example is to use different coloured footprints to indicate the path to different sections in a building;
- Handrails Provide along major corridors, all stairs and ramps to serve as a visual and tactile wayfinding guides as well as to help maintain balance, and prevent falls. Braille in-sets may be provided on the surface of handrails where they end at landings or open spaces that identify the users locations;
- Lighting Provided to delineate the pedestrian route, as well as to emphasize building features, such as entrances, stairs, ramps, or signage; and
- Google indoor maps can be investigated and implemented for select public facilities.

#### APPENDIX B

#### **RELATED SECTIONS**

All relevant parts of Sections 4.1. 4.2, 4.3. and 4.4.

#### REFERENCES

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APPENDIX C

# **FADS CHECKLIST**

	F MISSISSAUGA TIES ACCESSIBILITY DESIG	GN STANDARDS			1 MISS	issauga
		AND ASSESSMENT CHEC	CKLIST Facilitie	s and Proper	~	ement Division
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as the real The Desof FADS infeasible other existence being designed but the This Che	etrofit, alteration or addition to sign Development and Assess S and ensure each element ha le to implement. In a retrofit sixisting physical or site constraint by the Facilities and Property N proposed to achieve the intentrand forwarded to the City Propecklist is a reference tool only	ndards (FADS) document is a design aid of existing facilities owned, leased or open sment Checklist has been created to assess been applied to each project and to distruction where a design element has littints prohibit modification, the TECHNIC/Management Division Manager and maint of part of the Standards, an EQUIVAL roject Manager and Accessibility Coording and must be used in conjunction with the	erated by the City of Mississau sist staff, designers and contradocument elements of a project le likelihood of being accompleatly INFEASIBLE ELEMENTAINTAIN PROPOLITATION PROPOLITATION.	uga.  acted consult to which may lished due to T FORM is to here an equiva DSAL FORM i	tants with thave been structural be compleatent mear is to be constant all requirer	the application in technically conditions or eted and ins of facilitation impleted by the
exceptio	ons applicable to each design	element. Staff and the prime consultant e to be signed by the appropriate manag	it where applicable, shall comp	plete this ched	cklist durin	ng the design  Comments
Section		Key Design Requirements			ΥN	or N/A
	RAL CHARACTERISTICS					T
4.1.1	Space and Reach Requirements	2440 (96) turning space for wheelchair for wheelchairs and scooters; 400-120 position.	rs/scooters; 1370 x 810 (54 x )0 (15-3/4 - 47) reach range fr	32) footprint om seated		]
4.1.2	Ground and Floor Surfaces	Level changes: Up to 6 (1/4) may be v over 13 (1/2) to be ramp or curb ramp, perpendicular to direction of travel,	o. Gratings max 13 (1/2) openir	ngs,		
4.1.3	Protruding & Overhead Objects	Objects projecting more than 100 (4) to higher than 680 (26-3/4). Min 2100 (82	2-3/4) headroom.			]
4.1.4	Accessible Routes, Paths, and Corridors	Wherever possible, all routes to be accoudes; 1100 (43-1/4) min width for intewide to have passing places no more to routes less than 2000 (78-3/4) wide to required every 30 metres (98 feet 5 inc slope no steeper than 1:25 (4%), or de	erior routes; routes less than 1 than 30 metres (98 feet 5 inch have turn space at dead ends iches); edge protection may be	1830 (72) nes) apart; s; rest areas e required:		
4.1.9	Ramps	Slope must be between 1:25 (4%) and inches) between landings; min 2440 x bottom; min 1670 x 2440 (65-3/4 x 96) (65-3/4) long landings in straight ramp appropriate extensions. Intermediate h 2200 (86-5/8) wide.	<ul> <li>2440 (96 x 96) landings at top</li> <li>at landings at switchbacks; nos; handrails required both side</li> </ul>	p and nin 1670 es, with		]
4.1.11	Stairs	Open risers must not be used; tread le 180 (4-7/8 – 7); must have detectable required both sides, with appropriate e required on stairs wider than 2200 (86	warning surface at top of fligh extensions. Intermediate hand 6-5/8) wide.	nts; handrails Irails		
4.1.12	Handrails	865-920 (34-36) high; colour/tonal con	ntrast with surrounding enviror	iment.		][
4.3.3	Elevated Platforms	On an accessible route; Detectable wadeep flush to edge or drop-off	arning surface min. 610 (24) –	920 (36)		][
4.3.11	Balconies, Porches, Terraces and Patios	On an accessible route; Min. 2440 (96 Surfaces shall be accessible; Railings/ surroundings; Doors open against a si	Guards colour contrasted to	ccessible;		]
4.3.15	Benches	On an accessible route; Provide clear, wheelchair; Bench seat 450-500 (18-2 colour contrasted to surroundings				]
4.3.16	Public Use Eating Areas	Min. 20% accessible; Variety of locatic Knee space at the table; Surface 810-table; Lighting along paths of travel an	-865 (32-43) high; Clearance a			]

# **FADS CHECKLIST**

#### APPENDIX C

Section	Element	Key Design Requirements	Υ	N	Comments or N/A
4.4.7	Signage	All signage shall be accessible with san serif fonts, Arabic numbers, width-to-height ratio by viewing distance (see Table 4.4.7) and stroke-width-to-height radio; Permanent rooms/space use wall-mounted signage with tactile characters and numbers; Accessibility facilities signage shall include the International Symbol of Accessibility; Tactile signage shall be on an accessible route and mounted from 1370 – 1500 (54 – 59) to the centreline; Lighting levels measured at sign surface min. 200 lux			
4.4.8	Detectable Warning Surfaces	Colour contrasted to surroundings; Slip resistant; Provided at top and entry points to all stairs (circulation and exit); Min. 920 (36) deep and full width of stair; Truncated Domes			
4.4.13	Lighting	Exterior: Meets Illuminating Engineering Society of North America Standards; Lighting levels measured at the ground; Pedestrian entrance min. 100 lux; Parking and passenger drop-off areas min. 30 lux; Lighting fixtures placed high enough to clear normal snow accumulation Interior: Full spectrum lighting; Evenly distributed at floor level to minimize pools of light and not create areas of shadow; elevator lobbies, washrooms and at signage min. 200 lux; Office areas min. 300 lux; Emergency lighting min. 100 lux.			
4.4.14	Materials and Finishes	Exterior: Non-slip and firm; Walkways to use accessible finishes; Where wood planks used, wood laid perpendicular to path of travel; Max. joints 6 (1/4) wide and lifts 3 (1/8); Gratings/Grills place to side of pedestrian routes or so narrow openings perpendicular to path of gravel an max. 13 (1/2) Interior: Any carpeting low-level loop; Hard surfaces non-slip, non-glare and accessible; Joins max. 6 (1/4) and flush; Walls non-abrasive to 2000 (79) high			
4.4.15	Texture and Colour	Exterior: Pronounced colour contrast to differentiate boundaries of objects, objects from backgrounds and enhance spatial orientation.  Interior: Colour contrast to define edges (e.g. stair nosings, doors, handrails); Colour/tone define boundaries (e.g. wall to floor); Baseboard contrasted to walls and floor where monochromatic colour scheme selected; Enhance wayfinding.			
4.5.3	Swimming Pools, Therapeutic Pools/Public Spas and Spray Pads	Swimming pools, Wading pools, Hot pools, Splash pads, Spray pads, Therapeutic pools and Spas shall be accessible; Pool has direct accessible route from lobby/entrance to change rooms through to pool deck; Ramp access to water; Mechanical pool lifts; Public Spas transfer walls; Therapeutic pools water temperature, controls, depth and submerged benches			
SITE CH	HARACTERISTICS				
4.1.10	Curb Ramps	Min 1500 (59) wide; running slope 1:50 to 1:20 (2% to 5%); 900 (35-1/2) wide flared sides; must have detectable warning surface.			
4.3.12	Parking	All parking structures, underground parking and surface lots; Provide both Accessible and Limited Mobility spaces; Number of each type of space as per Table 4.3.12; Parking spaces should be joined to the building by an accessible route that does not travel behind parked vehicles or along driveways; Signage at parking spaces and directional signage to location of parking shall be accessible and not mounted on fences or building faces; Directional signage shall be provided where the accessible entrance is not obvious or distant; Public consultation required			
4.3.13	Passenger Loading Zones	At least 1 shall be accessible; Identified with accessible signage; Includes space for the driveway, a layby and an access aisle; Connected to an <i>accessible route</i> ; Curb ramp or drop curb with detectable warning surface; Min. 3600 (11ft 10) vertical clearance			
4.3.14	Landscaping Materials and Plantings	Min 10% plant beds accessible where plan beds provided; Min 460 (18) high; on an accessible route; Cane-detectable curbs; No permanent guide wires; Min 2100 (83) headroom clearance			
4.3.17	Streetscapes	On an accessible route; Including waste receptacles, light standards, signs, planters, mail boxes, vending machines, benches, traffic signals and utility boxes; Primary routes min. 2100 (83) wide with 300 (12) continuous indicator surface; Non-primary routes min. 1500 (59); Elements do not reduce width of accessible route; Any operating mechanisms shall be accessible and provide a clear floor area for wheelchairs and scooters in front of usable parts			
4.3.19	Service Animal Relief Areas	On an accessible route, Provided within 30m of accessible entrance; Provide accessible garbage can and identification signage			
4.4.17	Pedestrian Signals	Provided with a locator tone distinct from walk indicator; 1500 (59) from curb edge and 1100 (43-1/4) above ground; tactile arrows aligned with direction of travel; manual and automatic activation features; audible and vibro-tactile walk indicators; 3000 (118) distance between two accessible pedestrian signals on the same corner, or installed on single post with verbal announcement for active crossing			
4.5.2	Outdoor Recreational Facilities	Accessible routes, auxiliary services, plantings; Accessible Boardwalks, Docks, Recreational Trails and Footbridges, Pathways, Rest Areas, Parks, Playgrounds, Picnic tables, Drinking Fountains, Public Telephones, Lighting, Washrooms, Waterfront Areas, Natural Areas, Grandstand/Viewing Areas, Playing Fields, Leash Free Dog Parks, Access to spectator areas of sports fields, Docks/Piers, and Outlooks as per details provided			

### APPENDIX C

# **FADS CHECKLIST**

Section	Element	Key Design Requirements	Υ	N	Comments or N/A
BUILDII	NG CHARACTERISTICS			_	_
ACCES	S AND CIRCULATION				
4.1.5	Entrances	All entrances used by staff and/or the public to be accessible			
4.1.6	Doors	Power operators required at entrances, washrooms with an accessible stall, universal washrooms, change/dressing rooms with accessible toilet/shower, and intermediate doors across primary routes. Revolving doors are not accessible. Clear ground/floor space on each side (See Table 4.1.6); min 950 (37-1/2) clear opening; doors in series to be min 1525 (60) plus width of any in-swinging door, apart; power door operator controls no closer than 600 (23-5/8) from inside corner and not less than 600 (23-5/8) and not more than 1525 (60) beyond the door swing; 1370 x 810 (54 x 32) space at power door operator controls; hardware to be accessible; colour/tonal contrast with wall.			
4.1.7	Gates, Turnstiles and Openings	950 (37-1/2) min clear width			
4.1.8	Windows, Glazed Screens and Sidelights	Frameless glass doors and/or sidelights must not be used. 760 (30) max height for lowest edge of viewing windows and vision panels. Operating hardware to be accessible. Decals to be used at large expanses of glass to enhance visibility.			
4.1.13	Escalators	Where provided, an alternate accessible route is required in the same vicinity as the escalator. <i>Detectable warning surfaces</i> required at top and bottom.			
4.1.14	Elevators	Min 1725 x 1525 (68 x 60) cab size (2030 x 1525 (80 x 60) in high use facilities); min 950 (37-1/2) clear opening at door; handrails on all non-access walls; 1370 x 810 (54 x 32) clear floor space at hall call buttons; emergency call system with two-way communication ability which does not solely rely on voice input.			
4.1.15	Platform Lifts	Platform lifts can only be used to access a performing area, comply with wheelchair viewing position dispersion requirements, an incidental space not accessible to the public with no more than 5 occupants, or raised judges benches and other raised areas in a courtroom.			
WASHR	ROOM FACILITIES				-
4.2.1	Toilet Facilities	Requirements for each public or <i>common use</i> toilet <i>facility</i> ; Other toilet rooms provided for the use of occupants of specific <i>spaces</i> (i.e. a private toilet room for the occupant of a private office) shall be <i>adaptable</i> ; Min 1 universal washroom in addition to any <i>accessible</i> public or <i>common use</i> toilets, provided in all public buildings and on every floor level in <i>assembly areas</i> where the floor incorporates <i>common</i> or <i>public use</i> washroom <i>facilities</i> containing four or more toilet and/or urinal fixtures; Number accessible toilet stalls; Min 5% accessible portable toilets where used			
4.2.2	Toilet Stalls	Where toilet stalls used the number of <i>accessible</i> toilet stalls see Table 4.2.2; Min 1 ambulatory toilet within each non-accessible washroom			
4.2.3	Toilets	Height of seat; Back support; <i>Clear</i> transfer <i>space</i> ; Toilet flush controls are accessible and on transfer side of the toilet; L-shaped grab bar; Rear grab bar; Drop-down grab bar; Toilet-paper dispenser			
4.2.4	Lavatories	On an accessible route; Top 820 - 840 (32-1/4 - 33); Knee space; clear floor space 760 (30) wide x 1370 (54) deep with up to 480 (18-7/8 in.) under the lavatory; hot water and drain pipes insulated or temperature limited; Soap and Towel dispensers accessible; Faucets and other controls; Shelves/other projections			
4.2.5	Urinals	On an accessible route; No step in front of the fixture; Wall-mounted with elongated rim max.430 (17); Min. 345 (13-1/2) deep; Forward approach clear floor space 810 x 1370 (32 x 54) in front; Privacy screens; Grab bars; Flush controls; Number of accessible urinals			
4.2.6	Washroom Accessories	Hand-operated dispensers, hand dryers, built-in garbage receptacles, mirrors, etc. accessible; 900 - 1200 (35-1/2 - 47); Tilt mirrors shall not be used			
4.2.7	Universal Washroom	Min 1 universal washroom in addition to any accessible public use or common use toilets for all public buildings and every floor of assembly buildings otherwise see Table 4.2.1;Emergecy call system; Adult change table size, surface height, adjacent clear floor space, weight capacity, on an accessible route, and accessible controls			
4.2.8	Bathtubs	All bathtubs; Clear floor space parallel to toilet 920 (36) deep x full length of tub; Faucets lever type or are automatic; "L" shaped grab bar; Vertical grab bar; Controls equipped with a pressure-equalizing or thermostatic-mixing valve; Fully recessed soap holder			
4.2.9	Showers	Number of accessible showers see Table 4.2.9; On an accessible route; no or bevelled threshold; Trench-style drain; Wall-mounted folding seat; L-shaped grab bar; Vertical grab bar on each end wall; Pressure equalizing or thermostatic mixing valve; Fully recessed soap holder; Accessible shower head			
4.2.10	Grab Bars	Resist a load of at least 1.3 kN (300 lb.), applied vertically or horizontally; Diameter 35 – 40 (1-3/8 - 1-9/16); free of any sharp or abrasive Elements; Colour-contrasted with surrounding environment; slip-resistant surface			

# **FADS CHECKLIST**

#### APPENDIX C

Section	Element	Key Design Requirements	Υ	N	Comments or N/A
	AMENITIES				
4.3.1	Drinking Fountains	On an accessible route; Cane detectable at or below 680 mm (26-3/4 in.); If cantilevered: Min 810 x 1380 (32 x 54) clear floor space with knee and toe space to min 700 (28) at the base; If freestanding: Clear floor space for parallel approach			
4.3.2	Viewing Positions	On an accessible route without blocked egress; See Table 4.3.2 for number of required spaces; Include adaptable seating; Provide storage for wheelchairs and other mobility assistive devices; Integrate accessible locations in a distributed in a variety of admission prices; Clear level and minim 920 (36) wide x 1525 (60) deep with min. 1 companion seat beside each space			
4.3.4	Change/Dressing Rooms	On an accessible route; Private accessible dressing rooms include 180 degree turn space; Accessible dressing rooms have 180 x 18030 (32 x 72) bench with 70 (30) wide clear floor space parallel to bench; Collapsible coat hooks; Slip resistant for wet conditions for flooring and bench surfaces; Accessible mirror			
4.3.5	Offices, Work Areas & Meeting Rooms	On an accessible route; Clear floor space for 180-degree turn; Min 5% but not less than 1 have height adjustable work surface where multiple workstations/meeting rooms; Assistive listening system provided where required			
4.3.6	Waiting and Queuing Areas	On an accessible route; Waiting rooms with fixed seating include min. 3% and not less than 1 clear floor spaces for assistive equipment; Queuing barriers arranged in parallel lines; Permanent queuing incorporate defined floor patters/colours/textures as wayfinding; Colour contrast provided for barriers from surrounding environment; Clear floor space where lines change direction; Guides must be cane detectable			
4.3.7	Tables, Counters and Work Surfaces	Min 10% to be accessible; Should be recessed; On an accessible route; Min 810 (32) wide x 1370 (54) deep clear floor space place with max. 480 under the surface; Clear knee and toe space; Surface height 710-865 (28-34) where not adjustable; Speaking port controls and height accessible			
4.3.8	Information, Reception and Service Counters	Min 1 accessible for each type of service provided; Clearly identified by signage; Where a single queue line is provided all counters will be accessible; On an accessible route; Surface, knee and toe space see 4.3.7; Knee space provided for both staff and public sides; Speaking port controls and height accessible			
4.3.9	Storage, Shelving and Display Units	At least 1 of each type shall be accessible; Self-service unit shall be on an accessible route; Forward/parallel approach clear floor space min. 810 x 1370 (32 x 54); Cloths rods/shelves max. 1370; Collapsible coat hooks max. 1200 (47); Hardware touch latch or U-shaped pulls			
4.3.10	Lockers and Baggage Storage	At least 10% accessible; On an accessible route; Bottom shelf min. 230 (9); Top shelf max. 1200 (47); Locker IDs should be accessible; Baggage racks/carousels surface max. 460 (18) with continuous colour-contrasting strip at edge; Access spaces min. 1370 (54) deep x 810(32) wide			
4.3.18	Kitchens and Kitchenettes	For use by staff and public; Min 50% of shelf space accessible; Pass-through kitchens; U-shaped kitchens; Storage elements; Kitchen sinks; Appliances; Colour contrast			
SYSTE	MS AND CONTROLS				
4.4.1	Emergency Exits, Fire Evacuation and Areas of Rescue Assistance	Exterior: Accessible emergency exits shall be connected to an <i>accessible route</i> Interior: <i>Areas of rescue assistance</i> on an <i>accessible route</i> ; Each space 850 x 1370 (33-1/2 x 54) per non-ambulatory occupant; Total Areas of Rescue space see Table 4.4.1; Accessible identification signage; 2-way voice communication system.			
4.4.2	Controls and Operating Mechanisms	Mounted between 400 - 1200 (8 – 47); Operable with a closed fist; Lighting at min. 100 lux; Colour contrasted from surroundings			
4.4.3	Vending and Ticketing Machines	On an accessible route; Clear floor space to access controls; Controls mounted at accessible heights; Signage on machines accessible			
4.4.4	Visual Alarms	Provided at least at restrooms, general usage areas (e.g. meeting rooms), hallways, lobbies and other common use areas; Spacing max. 15 m (50 ft.) apart; Mounted 2100 (78-3/4); Meet NFPA 72 Section 18.5.3			
4.4.5	Public Telephones	Number of public phones to be accessible see Table 4.4.5; All accessible telephones and 25% of remaining require volume controls; Controls shall be accessible and meet CSA T515; Lighting minimum 200 lux; Clear floor space for front or side approach; ID signage includes symbol of accessibility			
4.4.6	Assistive Listening Systems	To be provided in assembly areas; Accessible signage identifying listen system present; May include induction loop, infrared and FM radio frequency systems			
4.4.9	Public Address Systems	Zoned to provide information to key locations only; Minimize background noise; No continuous broadcast music; A;;-point calls for emergency only			
4.4.10	Information Systems	Including kiosks, video displays, maps, and information panels; Mounted to be usable for a person using a wheelchair or scooter; Controls shall be accessible; Clear floor space for front or side use shall be provided; Also see CSA B651.1 and B651.2 standards			
4.4.11	Card Access, Safety and Security Systems	Signals are provided in both audible and visual signals; Card-entry systems and Encoded-entry/exit systems (e.g. keypads) will be accessible; On an accessible route; Clear floor space to access controls; Controls mounted at accessible heights			

### APPENDIX C

# **FADS CHECKLIST**

Section	Element	Key Design Requirements	ΥN	Comments or N/A
4.4.12	Glare and Light Sources	Low/no-gloss, matte, satin or honed finishes; Sun-screening systems provided where direct sunlight adversely affect lighting or create reflective glare; Light fixtures will protect users from a direct view of the bulb; Special features/key orientation elements enhanced with supplementary lighting		
4.4.16	Acoustics	Finishes do not unduly amplify occasional noises; Accessible routes in large facilities aurally differentiate major and secondary paths of travel; Public address and call systems; Meeting rooms and assembly areas		
FACILI7	TY-SPECIFIC REQUIRE	<u>MENTS</u>		
4.5.1	Arenas, Halls and Other Indoor Recreational Facilities	Provide accessible seating options; Use detectable warning surfaces on stairs to access seating; Accessible route to arena/facility floor min. 950 (37-1/2) wide; Min. 10% coat hooks accessible; Staff areas to be accessible		
4.5.4	Cafeterias	Min. 10% accessible where fixed tables or counters provided; Accessible tables and counters distributed throughout design; Min. 1 cashier to be accessible; Food/drink placed and Tray slides max. 860 (34) high; Min. 1100 (43-1/4) access aisles to and around accessible tables; Dining areas to be accessible; access aisles		
4.5.5	Churches, Chapels and Other Places of Worship	All areas accessible to persons with disabilities including main areas of worship, meeting rooms, washrooms, coatrooms and offices. Accessible seating; Pulpits, altars, dais and choir areas; Public address systems; Assistive listening systems		
4.5.6	Libraries	User elements on an accessible route; Min 10% of fixed seating, tables or study carrels accessible; Min 1 of each checkout area accessible; Min 50% of computer catalogues or workstations accessible; Shelving at fixed seating, tables and study carrels max. 1120 (44); Security gates and card catalogues accessible		
4.5.7	Business, Mercantile and Civic	Min 1 every transaction counters/cash register shall be accessible and on an accessible route (see Table 4.5.7); Where counters/teller windows separate public from staff the communication device shall be accessible; Checkout lines identified with International Symbol of Access signage and provide an accessible route		
4.5.8	Police Stations	Accommodate persons with disabilities from the public, detainees, members of counsel or police staff. All areas the station used by the public, staff and counsel fully accessible. Secure areas (e.g. 2% of cells, all common areas used by detainees) accessibility accommodations; Secured entrances, doors and doorways operated only by security personnel not required to have accessible door hardware; Permanently installed telephones provided within cells have volume controls		
4.5.9	Municipal Courts	Accommodate persons with disabilities who may be members of the judiciary, court clerks or other officials, defendants, members of counsel and members of the public; Accessible access to judge dais and court official's area; Accessible Jury boxes, Witness stands, judges' benches and courtroom stations, jury assembly or deliberation, kitchenettes/refreshment dispensers, drinking fountains; Permanently installed assistive listening system provided		
4.5.10	Transportation Facilities	Links to transportation and within terminals are accessible to all members of a community including public and private bus, taxi, train, and airplane arrival and departure points; A variety of lift devices may need to be accommodated, and alternatives to audio and/or visual only scheduling are available; Accessible wayfinding strategies for open areas, include direction indicators; Bus Shelters, Bus Stops and Transit Terminals to have firm level surfaces, clearances around furniture and building elements, clear view of traffic, sufficient clear space. Detectable warning surfaces at edges of platforms. Lighting level at boarding platform of 100 lux. Visible and audible warning signals at boarding locations. Manoeuvring space at special lift devices used for boarding. Bus shelters; Bus Stops; Transit Terminals		
4.5.11	Fire Stations	Municipal fire stations accommodate accessibility needs of all potential facility users, including - Staff returning to light duty work; Injured staff attending a Captain's office /Other meeting space within the facility; Administration staff, Council Members, Consultants, etc attending site visits; Tours of non-work staff (School groups, etc.); Occasional uses of the facility; Meeting spaces open to the public and used for municipal functions; and Use by members of the general public in an emergency situation		
4.5.12	Training And Teaching Spaces	Students, teachers and staff with disabilities accommodated in all training and teaching spaces throughout the facility. Basic accommodation includes ability to enter and move freely throughout the space, as well as use the various built-in elements within (i.e. integrated technology, whiteboards, switches, computer stations, sinks, etc.); Additional electrical outlets throughout; Min 1 of each type of element should be accessible; Fixtures, fittings, furniture and equipment is accessible for students, teachers and staff; Adjustable height tables and chairs, removable armrests and rolling/locking casters on furniture		
4.5.13	Laboratories	Staff with disabilities have equitable access to laboratory facilities; Basic accommodation includes ability to enter and move freely throughout the space, as well as use the various built-in elements within (i.e. blackboards, switches, benches, sinks, etc); Built-in elements, such as benches or pin boards, at least 1 of each type of element be accessible except where limited by the equipment		

# **FADS CHECKLIST**

### APPENDIX C

Section	Element	Key Design Requirements	Υ	N	Comments or N/A
4.5.14	Child Care/Minding	Access to all areas within the daycare should be provided for children, parents, staff or volunteers with disabilities; Entry vestibules large enough to accommodate a triple stroller and a person, in addition to the swing of any door; Accessible tables, counters, work surfaces and activity counters or built-in millwork shall be located on an accessible route; Public address systems; Assistive listening systems; Kitchens/kitchenettes or Food preparation areas; Cubbies and Coat storage areas; Where stairs and ramps are needed, handrails and accessible and second childheight handrail provided; Playground(s) on site comply with CAN/CSA Z614-07 Annex H			

I have utilized this Checklist as a design aid in conjunction with the FADS document throughout the design phase of this project, or during a Facility Assessment of an existing building.					
Project	Consultant/Firm:	Date:			
	a design aid in conjunction with the FADS document three s of the Consultant and acknowledge FADS compliance				
Project:	Consultant/Firm:	Date:			
	Manager:	Date:			

APPENDIX C

### **FADS CHECKLIST**

# TECHNICAL INFEASIBILITY JUSTIFICATION FORM



Project Number:	Project Type:
Project Phase:	☐ New Construction
☐ Preliminary (Conceptual)	☐ Renovation/Alteration
☐ Design Development	☐ Exterior Only
Other (Please Specify)	☐ Other (Please Specify)
	ect to an alteration of a building or a facility, that it has littlestructural conditions or other physical or site contratains.
1. City of Mississauga FADS Require	ement (Please provide Section/Item No.)
2. Diagon describe the intent of the	
2. Please describe the intent of the	accessibility requirement.
	e accessibility requirement is technically infeasible.  Toposed? (If so, please complete the Equivalent c, please explain why not.).
4. Is equivalent facilitation being pr Facilitation Proposal Form. If not	oposed? (If so, please complete the Equivalent
4. Is equivalent facilitation being pr Facilitation Proposal Form. If not	roposed? (If so, please complete the Equivalent c, please explain why not.).
4. Is equivalent facilitation being pr Facilitation Proposal Form. If not PLEASE USE AD Applicant:	roposed? (If so, please complete the Equivalent c, please explain why not.).
4. Is equivalent facilitation being pr Facilitation Proposal Form. If not PLEASE USE AD Applicant:	roposed? (If so, please complete the Equivalent c, please explain why not.).

### **FADS CHECKLIST**

APPENDIX C

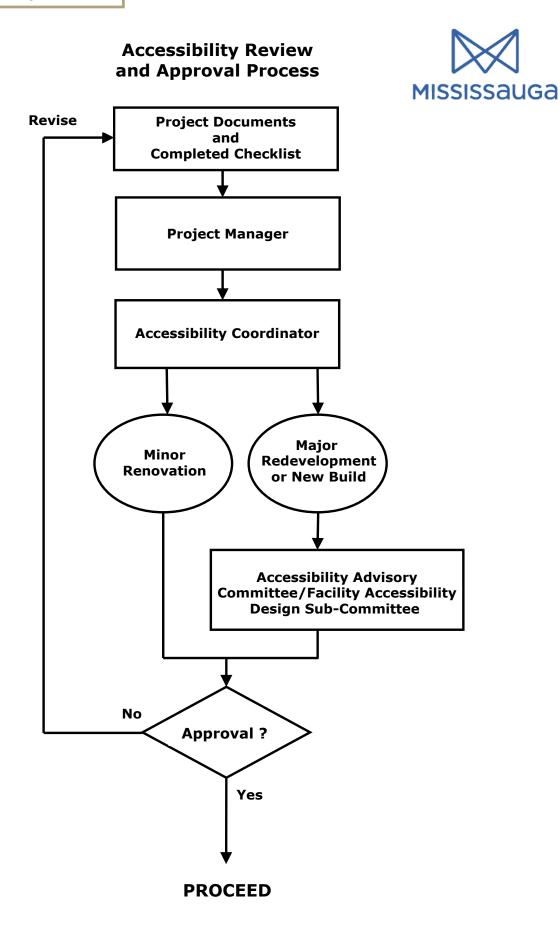
# **EQUIVALENT FACILITATION PROPOSAL FORM**



Project Name:	Project Name:				
Project Number:	Project Type:				
Project Phase:	☐ New Construction				
☐ Preliminary (Conceptual)	☐ Renovation/Alteration				
☐ Design Development	☐ Exterior Only				
Other (Please Specify)	Other (Please Specify)				
1. City of Mississauga FADS Requiremen	nt (Please provide Section/Item No.)				
2. Please describe the intent of the accessibility requirement.					
3. Please describe your reasons for prop	posing an alternate design.				
	Iternate design meets the intent of the accessibility				
4. Please describe how your proposed a requirement of the City of Mississaug	Iternate design meets the intent of the accessibility				
4. Please describe how your proposed a requirement of the City of Mississaug	Iternate design meets the intent of the accessibility pa FADS.				
4. Please describe how your proposed a requirement of the City of Mississaug	Ilternate design meets the intent of the accessibility ja FADS.  TIONAL SHEETS AS NECESSARY				
4. Please describe how your proposed a requirement of the City of Mississaug  PLEASE USE ADDIT  Applicant:	Iternate design meets the intent of the accessibility par FADS.  TONAL SHEETS AS NECESSARY				

APPENDIX C

### **FADS CHECKLIST**



#### **FADS CHECKLIST**

APPENDIX C

# ACCESSIBILITY REVIEW & APPROVAL PROCESS

#### Legend:

**FAD Standards** = City of Mississauga – Facility Accessibility Design Standards **FADS** = Facility Accessibility Design Subcommittee of the AAC **AAC** = Accessibility Advisory Committee

#### Legislation:

The AODA (Accessibility for Ontarians with Disabilities Act, 2005, Section 29) states:

#### Duty of the committee:

Accessibility Advisory Committee shall review in a timely manner the site plans and drawings described in section 41 of the Planning Act that the committee selects.

#### Duty of council:

Council shall seek advice from the committee on the accessibility for persons with disabilities to a building, structure or premises, or part of a building structure or premises,

- a) that the council purchases, constructs or significantly renovates;
- b) for which the council enters into a new lease; or
- that a person provides as municipal capital facilities under an agreement entered into with the council in accordance with section 110 of the Municipal Act, 2001.

#### Supplying site plans:

When the committee selects site plans and drawings described in section 41 of the Planning Act to review, the council shall supply them to the committee in a timely manner for the purpose of the review.

**The Integrated Accessibility Standards Regulation** (O. Reg. 413/12, under the AODA) has requirements related to consulting with persons with disabilities regarding trails, playgrounds, exterior paths of travel, and on-street parking.

#### New Build, Redevelopment, or Renovation

- Facility planning will include accessibility in the needs assessment definition process
- RFP's and RFQ's include a statement that the design must comply with the FAD Standards and Checklist
- Consultants will have access to FAD Standards
- Both Project Manager and Accessibility Coordinator will discuss when a project is at the appropriate stage for FADS to review.

APPENDIX C

### **FADS CHECKLIST**

- <u>Milestone Date:</u> An Accessibility Review shall be done early enough in design phase with the Project Manager responsible for the project, the Accessibility Coordinator and FADS. It is recommended that a practice run of the presentation be made to the Accessibility Coordinator prior to presentation to FADS in order to ensure compliance with FAD Standards.
- Site review(s) during construction shall be scheduled to confirm compliance with project accessibility design features by the Project Manager and Accessibility Coordinator with the Consultant
- Should changes occur that affect accessibility features Project Manager shall consult with Accessibility Coordinator
- If requested by FADS a site visit shall be scheduled by the Project Manager and Accessibility Coordinator post construction

#### **Minor Renovations and Capital Maintenance**

All city projects must comply with FAD Standards. Where full accessibility standards are not achievable actions must be taken to consult with the Accessibility Coordinator. Non-compliance issues will be documented in the project file.

### **CHANGE ORDER FORM**

APPENDIX D

# PROPOSED CHANGES TO CITY OF MISSISSAUGA FACILITY ACCESSIBILITY DESIGN STANDARDS

Mail to: Facilities & Properties Management Division, Attention: Accessibility Coordinator

Corporation of the City of Mississauga

300 City Centre Drive Mississauga, ON, L5B 3C1 Tel.: 905-615-3608

TTY: 905-615-4311

accessibility.info@mississauga.ca

accessismey.mro@mississaaga.ca	
Name:	Phone: ( )
Address:	
Company or Organization:	
E-mail Address:	
<b>PROPOSED CHANGE:</b> (including proposed new or revised wording, or id	
	<del>_</del>
REASON FOR CHANGE:	
(attach additional info	rmation if required)

#### APPENDIX E

### **SLIP RESISTANCE OF MATERIALS**

Slip-Resistance Rating of Materials			
Material	Slip Resistance Rating (1)		Remarks
	Dry and Unpolished	Wet	
Cast Iron	Very Good	Very Good to Good	If open treads are used, the slip resistance can be very good in wet conditions.
Clay Tile (carborundum finish)	Very Good	Very Good	May be suitable for exterior stairs
Carpet (2)	Very Good	Good	
Clay Tiles (textured)	Very Good	Good	May be suitable for exterior stairs
Cork Tiles	Very Good	Good	
Float Glass	Very Good	Poor	Various techniques can be used to modify the surface of float glass, thus improving the wet potential for slip.
PVC with non-slip granules	Very Good	Good	Sufficiently uniformly distributed aggregate is required.
PVC	Very Good	Poor to Fair	Slip-resistance when wet may be improved if PVC is textured. Edges of sheet liable to cause tripping if not firmly fixed to base.
Rubber (sheets or tiles)	Very Good	Very Poor	Not suitable near entrance doors.
Wood (finished)	Very Good	Good	Applies to sealed, varnished or polished wood.
Wood (unfinished)	Good	Fair	
Mastic Asphalt	Good	Good	
Ceramic Tiles (glazed or highly polished)	Good	Poor	
Ceramic Tiles (matte) (3)	Good	Fair to Good	Slip potential is dependent on surface roughness. A value of 10 $\mu$ m is recommended for clean-water wet areas.
Clay Tiles	Good	Fair to Good	When surface is wet and polished it would be considered poor.
Concrete Pavers (interlock)	Good	Good	
Vinyl Tiles	Good	Fair	
Linoleum	Good	Poor to Fair	Edges of sheets may cause tripping if not securely fixed to base.
Concrete (powerfloat finish)	Good	Fair	Surface dust may cause problems especially on new floors.
Concrete	Good	Poor to Fair	If non-slip aggregate or a textured finish is used, slip resistance when wet may be considered Good.
Granolithic	Good	Poor to Fair	Slip-resistance when wet may be improved to good by incorporating a CArborundum finish. Polished granolithic should not be used for stair treads.
Clay Tiles	Good	Poor to Fair	Slip-resistance when wet and polished is very poor.
Terrazzo	Good	Poor to Fair	Non-slip nosing necessary on stairs. Slip-resistance when polished is very poor.
Marble/Granite	Good	Very Poor to Fair	Slip-resistance when wet and polished is very poor.

#### Notes:

(1) Ratings:

Very good means surface suitable for areas where special care is required Good means suitable for normal use Poor to Fair means survace not suitable Very Poor means surface not suitable

- (2) Thick carpet is unsuitable for wheelchair movement
- (3) 1 " X 1" or 2" X 2" max should be used in pool or pool change rooms. If larger tiles are used, ensure it has a raised profile.

#### **ADDITIONAL RESOURCES**

APPENDIX F

#### **DOCUMENTS**

CNIB - Clearing our Path, Universal design recommendations for people with vision loss.

Ontario Building Code (OBC)

Accessibility for Ontarians with Disabilities Act (AODA)

Integrated Accessibility Standards Regulation (IASR)

GAATES - Illustrated Technical Guide to the Accessibility Standard for the Design of Public Spaces

#### **ORGANIZATIONS**

Canadian National Institute for the Blind (CNIB)

Canadian Standards Association (CSA)

Global Alliance on Accessible Technologies and Environments (GAATES)

Technical Standards and Safety Authority (TSSA)

Transportation Association of Canada (TAC)

Ontario Recreation Facilities Association, Inc. (ORFA)

# City of Mississauga

# **Corporate Report**



Date: November 10, 2015

To: Chair and Members of General Committee

From: Paul Mitcham, P. Eng, MBA, Commissioner of Community Services

Originator's files:

EC.11.GREENBELT; EC.10.NAT

Meeting date:
2015/12/02

### **Subject**

Expansion of the Provincial Greenbelt Plan Area

### Recommendations

- That Council endorse the expansion of the Provincial Greenbelt Plan Area, by requesting that
  the Province of Ontario designate City-owned and Credit Valley Conservation-owned parcels
  along the Credit River as Urban River Valley (URV), as outlined in the report titled "Expansion
  of the Provincial Greenbelt Plan Area" dated November 10, 2015 from the Commissioner of
  Community Services.
- 2. That Council request the Region of Peel to include the designation of two Region-owned parcels of land located to the Northwest of Britannia Rd. W. and Old Creditview Rd. as URV lands (Land Registry Pins 132030420, 132030438).
- 3. That Council request the Region of Peel to forward the request to the Province of Ontario for designation of all the parcels identified in this report as Urban River Valley (URV) lands as established in the 2008 guidelines for growing the Provincial Greenbelt.
- 4. That Council requests the Province of Ontario to consider designating provincially-owned properties along the Credit River within Mississauga as URV lands, as outlined in this report.

# Report Highlights

- Expanding the Provincial Greenbelt Plan Area into urban areas of the City of Mississauga is undertaken by designating public lands within the Credit River corridor as URV.
- Expanding the Provincial Greenbelt aligns with City official plan policies and supports land and water stewardship initiatives along the Credit River. This initiative is widely supported by the community and stakeholders including Credit Valley Conservation and various environmental groups.

Originators files EC.11.GREENBELT; EC.10.NAT

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- City staff identified and presented to General Committee, on June 25, 2014, maps of Cityowned parcels potentially suitable for Urban River Valley (URV) designation.
- Request to the Province of Ontario to expand the Provincial Greenbelt must be completed by the Region of Peel as the upper tier municipality.
- Criteria for URV parcels were selected so as to not limit the City current or future use of the lands, and to align with the Credit River Parks Strategy and the City's Official Plan.
- Council provided direction to continue the technical review required to identify City-owned parcels for URV designation, resulting in the identification of 76 parcels totalling approximately 194 ha (479 ac) along the Credit River corridor.
- The Provincial Greenbelt Plan stipulates that the City's Official Plan still guides the permitted uses, activities and policy on those lands.
- Designating URV lands further demonstrates the City's environmental leadership and helps raise the City's environmental stewardship profile.

# **Background**

This Corporate Report builds on information provided and direction received at General Committee on June 25, 2014 (ratified by Council on July 7, 2014, GC-0339-2014). A copy of the Corporate Report presented on that date is attached (Appendix 1).

Expanding the Provincial Greenbelt is undertaken by designating public lands within the Credit River corridor as Urban River Valley (URV). The designation does not apply to private lands.

The lands are governed by the City's Official Plan policies and designations, and the Province places no additional restrictions on the City's use of its lands at this time.

The City of Mississauga's Official Plan policies afford significant protection to parcels being considered for URV lands. Expanding the Provincial Greenbelt complements that protection by raising the City's environmental profile and supports land and water stewardship initiatives along the Credit River.

City staff consulted with other public land owners within the Credit River corridor, namely the Region of Peel, Credit Valley Conservation and the Province of Ontario to discuss inclusion of their parcels along the Credit River.

### Comments

Criteria for applicable properties were developed in consultation with Credit Valley Conservation, the Provincial Land Surveyor, Policy Planning Section and the Forestry Section.

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Originators files EC.11.GREENBELT; EC.10.NAT

Key considerations for the selection of parcels as Urban River Valley lands included the following:

- Not to restrict the City's ability to establish any planned or potential park or recreational uses within the lands proposed for URV designation.
- Located within the Natural Heritage System.
- Alignment with the City's Official Plan policies.
- Supportive of the vision and goals of the Provincial Greenbelt Plan.
- Consistent with the Council-endorsed Credit River Parks Strategy.

The application of the above noted criteria resulted in the identification of 76 parcels totalling 194 ha (479 ac) or approximately 70% of the City-owned lands along the Credit River corridor.

Appendix 2 includes an overall map of all City-owned parcels proposed for URV designation and other publicly-owned parcels, as well as detailed maps and list of Land Registry PINs for City-owned properties.

#### Inclusion of Other Publicly-Owned Lands

As the lead public body requesting the URV land designation, the City of Mississauga has consulted with the three other public land owners along the Credit River. The following summarizes discussions on designating their properties as URV lands.

Credit Valley Conservation (CVC): owns 15 properties proposed for URV designation totalling 132.4 ha (327 ac) within the Mississauga reach of the Credit River valley. CVC's Board of Directors resolution No.116/13 of December 13, 2013 directs designation of CVC-owned properties along the Credit River. CVC staff advised that all of their properties are to be included with the following exclusions:

- CVC's corporate office building located in Meadowvale (1255 Old Derry Road, Mississauga) and a parcel located East of the office building, on the eastern river bank;
- The South-Eastern portion of Erindale Park (P-060) which is a former regional landfill;
- J.C. Saddington Park parcels (P-167); and
- Parcel portions within Riverwood Park (P-331).

A map and list of Land Registry PINs for these CVC-owned properties is attached as Appendix 3.

Region of Peel: two regionally-owned parcels of land totalling approximately 14 ha (34 ac) located northwest of Britannia Rd. W. and Old Creditview Rd: Land Registry PlNs 132030420 and 132030438 (Appendix 4). Based on the selection criteria, these parcels are suitable for URV designation as the lands are designated Greenlands and they are also part of the City's Natural Heritage System. The Region has advised that any request to add their lands as URV designation must be supported by a City Council resolution (Recommendation 2a of this Corporate Report).

Originators files EC.11.GREENBELT; EC.10.NAT

Province of Ontario: There are three provincial properties totalling approximately 13 ha (32 ac) located along the Credit River valley that can be designated as URV lands: Land Registry PINs 133830005, 133820193 and 133810694 (Appendix 5). The Ministry of Municipal Affairs and Housing has advised that the City can suggest the inclusion of those parcels for their consideration at the time the Province reviews the City application (Recommendation 3 of this Corporate Report).

#### Request to the Province

The document growing the Greenbelt (2008) states that requests to expand the Provincial Greenbelt Plan Area are done through an upper tier municipality, i.e. Peel Region.

The same document indicates that a municipal request needs to meet the six criteria under which the Greenbelt Plan can be expanded. A municipality must demonstrate in its submission through a detailed proposal and supporting information (i.e. maps and reports), that the criteria for Greenbelt expansion are met. The list of criteria is provided in Appendix 6.

An additional requirement is for the City to demonstrate that consultation has been undertaken with key stakeholders, public bodies and Aboriginal communities.

#### **Public Consultation**

The expansion of the Greenbelt was a topic within a larger study for the Natural Heritage and Urban Forest Strategy. As part of that study, the City consulted with a wide selection of stakeholders including:

- Committees of Council: Environmental Advisory Committee (EAC).
- Public bodies: Government agencies including: Federal (e.g. Canadian Wildlife Service);
   Provincial (Ministry of Municipal Affairs and Housing, Ministry of Natural Resources,
   Infrastructure Ontario, etc.); Municipal (Region of Peel, Town of Oakville, City of Brampton, and
   City of Toronto), local conservation authorities (Credit Valley Conservation, Toronto and Region
   Conservation Authority, and Conservation Halton) as well as Halton Peel Stewardship Council.
- Environmental Organizations: Friends of the Greenbelt Foundation, Environmental Defence, Sierra Club of Ontario, Sierra Club of Peel, and South Peel Naturalists Club.
- Businesses: land development, real estate, and business improvement associations.
- Education and academic institutions.
- Resident associations and community groups.
- Recreation organizations.
- Utility providers.
- Arboriculture firms.

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Originators files EC.11.GREENBELT; EC.10.NAT

On May 27, 2015 an open house was held to present information on the proposed expansion. Detailed maps of the lands recommended for URV designation were on display along with draft URV land policies. City staff was available to answer questions.

### Consultation with Aboriginal Communities

City staff contacted the Six Nations of the Grand River, the Mississaugas of the New Credit First Nation, the Huron-Wendat First Nation, and the Métis Nation of Ontario. Meetings were held with representatives from Six Nations of the Grand River, Mississaugas of the New Credit and Peel Aboriginal Network. Representatives supported the expansion and considered it a desirable initiative that would bring considerable benefits to the community.

Consultation with the public and with Aboriginal organizations is now complete, and comments received from all these stakeholders were supportive of the expansion.

### **Next Steps**

Steps pending for completion of URV land designation include:

- Council resolution requesting URV designation of proposed lands.
- The City submits a request package to the Region of Peel (ROP) along with supporting City Council
  resolution.
- ROP reviews and forwards the submission to the Province along with a ROP Council resolution supporting the request.
- The request for URV land designation is reviewed by the Province. If the review is satisfactory, the Minister
  of Municipal Affairs and Housing initiates an Amendment to the Greenbelt Plan. This process includes
  consultation with other provincial ministries and the public.
- The Amendment is subject to Provincial Cabinet approval and preparation of a complementary regulation dealing with boundary changes to the Greenbelt Plan Area.
- Upon Provincial Cabinet approval the URV designation becomes effective.
- The City undertakes an Official Plan Amendment to include policies and mapping pertaining to the Provincial Greenbelt URV lands into Mississauga Official Plan.

## Strategic Plan

Expansion of the Provincial Greenbeit Plan Area into Mississauga, by designating Urban River Valley (URV) lands in the City, supports the Strategic Plan's Green Pillar. Through its implementation, the Provincial Greenbelt expansion supports the City's strategic goals to lead and encourage environmentally responsible approaches. Expansion also satisfies Strategy 10 of the City's Natural Heritage and Urban Forest Strategy.

Originators files EC.11.GREENBELT; EC.10.NAT

## **Financial Impact**

There will be no capital costs associated with land surveying as parcel mapping has been undertaken without formal surveys. Existing operating resources are carrying out the process.

### Conclusion

While the City of Mississauga's Official Plan policies already afford significant protection to parcels being considered for URV lands, expanding the Greenbelt raises the City's environmental profile and can support land and water stewardship initiatives along the Credit River. City staff have completed the request package for URV designation of City-owned and CVC-owned lands along the Credit River. The City requires the Region of Peel and the Province of Ontario approval to designate properties identified in this report as suitable for URV lands.

## **Attachments**

Appendix 1: Corporate Report to General Committee - Greenbelt expansion work plan, June 25, 2014

Appendix 2: List, key map and detailed maps of City owned lands

Appendix 3: List and Map of CVC-owned lands

Appendix 4: List and Map of Regionally Owned Parcels

Appendix 5: List and Map of Provincially Owned Parcels

Appendix 6: Criteria for Greenbelt expansion



Paul Mitcham, P. Eng. MBA, Commissioner of Community Services

Prepared by: Olav Sibille, Planner, Community Services

### APPENDIX 1



Clerk's Files

Originator's

EC.11.GREENB

Files

ELT

EC. 10 NAT

DATE:

June 6, 2014

TO:

Chair and Members of General Committee

Meeting Date: June 25, 2014

FROM:

Paul A. Mitcham, P. Eng., MBA

Commissioner of Community Services

SUBJECT:

Work Plan Outline for Expansion of the Provincial Greenbelt

Plan Area into Mississauga

**RECOMMENDATION:** That the report dated June 6, 2014, from the Commissioner of Community Services titled "Work Plan Outline for Expansion of the Provincial Greenbelt Plan Area into Mississauga "be received for information.

REPORT HIGHLIGHTS:

- City Council directed staff to submit a corporate report prior to the 2014 summer session to outline a plan and costs estimates to expand the Provincial Greenbelt by designating selected public lands as Urban River Valley (URV).
- The designation by the Province does not provide additional protection beyond the City's existing Official Plan.
- While URV designation would transfer authority to the Province over those lands; the Greenbelt Plan stipulates that the City's Official Plan guides the permitted uses, activities and policy on those lands.
- Expanding the Provincial Greenbelt is done by designating selected public lands within the Credit River corridor as Urban River Valley (URV)
- Criteria for parcels for URV consideration were selected so to not limit the City current or future use of the lands, and that aligns with the Credit River Parks Strategy and with the City's Official Plan.

87 parcels could be considered for URV designation totalling 213
ha (526 ac) or about 75% of the City-owned lands in the Credit
River corridor.

- 2 -

- No capital costs anticipated to implement the URV designations.
- Final recommendation on specific parcels to be considered by Council in Spring 2015.
- The City of Mississauga's Official Plan policies already afford significant protection to parcels being considered as URV lands.

### BACKGROUND:

The Provincial Greenbelt Plan (2005) identified the Credit River and the Etobicoke Creek as River Valley Connections (outside of the Greenbelt), opening the possibility of including, in the future, connections between the Greenbelt and Lake Ontario.

On April 21, 2010, Council supported, in principle, the addition of public lands in the Credit River Valley to the Provincial Greenbelt, and directed the preparation of a Feasibility Analysis for expansion of the Provincial Greenbelt Plan Area into Mississauga (GC-0288-2010).

The Environmental Advisory Committee expressed support to the expansion of the Greenbelt Plan Area into Mississauga during the December 10, 2013 meeting (EAC-0049-2013). The recommendation to coordinate with Credit Valley Conservation with respect to mapping costs and timing was approved by Mississauga City Council on December 11, 2013 (Resolution 0214-2013).

The resulting Feasibility Analysis was received by General Committee on February 5th, 2014 (GC-0021-2014). This analysis identified the location of publicly owned lands within the Credit River and Etobicoke Creek, and assessed the implications of designating public lands within these watersheds as Urban River Valley (URV) lands.

On February 12, 2014, City Council directed staff (Resolution 022-2014) to outline a plan and cost estimates to designate selected public lands as Urban River Valley as outlined in the legislation.

Identification of parcels to be designated in Mississauga as URV is being led by the City as this allows control over the specific parcels to be designated. The process will have two phases, focusing first on lands along the Credit River, and once completed, it will assess lands along Etobicoke Creek.

Since the Urban River Valley designation in the Greenbelt Plan will be governed by the City's official plan policies and designations, no additional restrictions will be placed on the City's use of its lands at this time. However, the City's actions will have to be in conformity with the Provincial Greenbelt Plan on parkland, open space and trails. The most significant implication will be on the preparation of municipal parkland and trail strategies, which must have regard for the related section of the Greenbelt Plan. Currently, many of these considerations are aligned with the City's goals and would be addressed in municipal parkland and trail strategies in any event.

**COMMENTS:** 

Under current Greenbelt Plan rules, URV parcels will be governed by the City's Official Plan policies; however, designating URV lands allows for the Province to have a say in the future on how the lands are to be used.

### Change in Authority

Valley lands including all sites to be designated as Urban River Valley, are protected by the Official Plan of the City of Mississauga. The essence of the proposal is to upload authority and control of these lands to the Province under the Provincial Greenbelt Policies, on the premise that the sites would be managed in accordance with the City Official Plan. Council should be aware, however, that the Province would have authority over subject lands and it could change the policy framework at any time, triggering the need to amend the City's Official Plan to align with provincial policy.

Greenbelt policies apply to all areas designated by the Province and originally intended to restrict development within rural municipalities. Through designation there is some risk that local conditions in another municipality could trigger policy changes in the future, that could affect lands in Mississauga.

Staff have worked to limit the risk of future policy changes affecting the river valley by restricting the definition and limits of lands to be designated as Urban River Valley. The designation boundary closely follows the Credit River Watercourse. Only passive recreation is to be permitted within the designated area including trails, benches and shelters.

### **Process for Designation**

The report produced by the Province "Growing the Greenbelt" (2008) establishes the process and criteria under which the Greenbelt Plan can be expanded. Expanding the provincial Greenbelt into Mississauga through URV land designations will adhere to the following work plan outline, process and criteria:

- Report to General Committee on June 25<sup>th</sup>, 2014 regarding the work plan, costing, draft parcel selection criteria and draft mapping;
- Finalize criteria and parcels to be included in URV;
- Develop policies that will apply to URV lands;
- Coordination with other public land owners (i.e. CVC, TRCA, Region of Peel, and Province);
- Public Consultation;
- Preparing detailed submission along with City Council Resolution (Spring, 2015);
- Submission sent to the Region;
- Region forwards submission to the Province;
- URV request is considered by Province;
- Development of Official Plan Amendment; and
- Province issues an Amendment to the Greenbelt Plan to include the subject lands.

### Identification of City-owned parcels for URV designation

A key consideration for the City is not to restrict its ability to establish any planned or potential park or recreational uses within the lands. The group of land parcels in Mississauga to be proposed for URV designation need to align with both, the City's Official Plan policies and the vision and goals of the Provincial Greenbelt Plan. This means that dealing with changes the City may wish to carry out could require a layer of provincial approvals.

City staff from Park Planning, Forestry, and Policy Planning developed and applied criteria to identify parcels for URV designation. Options considered included using established overlays of hazard lands, City's Greenbelt lands, Natural Areas System, environmentally sensitive areas, and river buffers. From these options

it was determined that the Natural Areas System and the City's Greenbelt lands would be the most suitable overlays. The Natural Areas System provides the 'system' backbone required by the Provincial criteria. Furthermore both types of lands are identified in the Official Plan and are already afforded the highest level of protection by the City's existing Official Plan policies.

Parcels to be considered for URV designation would need to adhere to the following identification criteria:

- Natural Areas System
- City Greenbelt lands
- Crest of Slope line as provided by CVC
- Cross reference with proposals contained in the Council-approved Credit River Parks Strategy
- Exclusionary features (e.g. for portions located outside of Crest of Slope, portions located in tributaries, parcels containing buildings, playgrounds, parking lots, baffles or similar structures)

City staff has preliminarily identified 87 land parcels of City-owned lands to be considered for URV designation (see Appendix 2). Parcels total approximately 213 ha (526 ac) and represent approximately 75% of City-owned lands in the Credit River main corridor (and approximately 25% of the corridor as a whole). While most City parcels proposed for URV are entire parcels, approximately 10 parcels will require to be adjusted for exclusions.

Since the URV designation is for publicly owned lands, the City of Mississauga has worked with other land owners to identify preliminary lands suitable for URV designation by other applicable public land owners including the CVC. (Note: Appendix 2 is for parcel identification purposes only and does not reflect endorsement from other public owners).

Under the current Provincial Greenbelt policies the URV designation will not hamper the City's current or desired use for the lands as the identified parcels are already protected under the City's Official Plan.

If approved, the Mississauga Official Plan will require minor amendment to implement the Greenbelt Plan Urban River Valley designation.

### STRATEGIC PLAN:

The City's Official Plan and Natural Heritage and Urban Forest Strategy already demonstrate leadership under the Green Pillar. Expansion of the Provincial Greenbelt Plan Area into Mississauga by designating Urban River Valley (URV) lands in the City also supports the Strategic Plan's Green Pillar. Through its implementation, the Provincial Greenbelt expansion demonstrates the City's strategic goals to lead and encourage environmentally responsible approaches.

#### FINANCIAL IMPACT:

Discussions between the City surveyor and the Crown Land Surveyor anticipate that there will be no costs associated with land surveying as mapping can be undertaken without formal surveys. Existing staff resources are carrying out the process.

### CONCLUSION:

As per the direction of Council, a plan has been developed which includes criteria, draft site selection, steps and costing to move forward with the potential Urban River Valley designation for publicly owned lands. Staff to present the final parcels to be considered for URV land designations to General Committee by Spring, 2015. Moving forward with URV designation does not provide more protection for the land as it is already governed by City's existing Official Plan policy. URV designation would transfer authority to the Province over those lands, however, the City's Official Plan will guide the lands permitted uses, activities and policy.

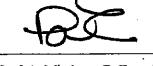
#### ATTACHMENTS:

Appendix 1: Criteria for Greenbelt expansion (Excerpt from

"Growing the Greenbelt" 2008).

Appendix 2: Map of Publicly-owned Parcels Suitable for URV

Land Designation



Paul A. Mitcham, P. Eng., MBA Commissioner of Community Services

Prepared By: Olav Sibille, Planner, Park Planning

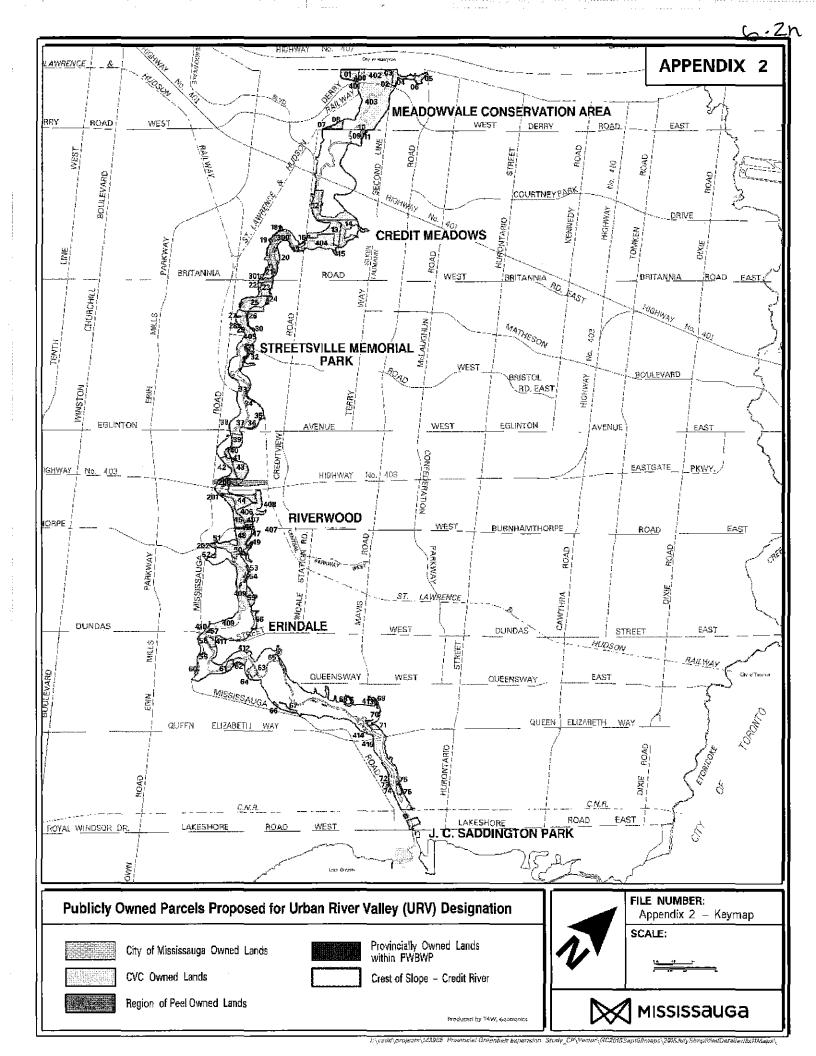
# Appendix 2 (Table): City-Owned Lands Proposed for Urban River Valley (URV) Designation

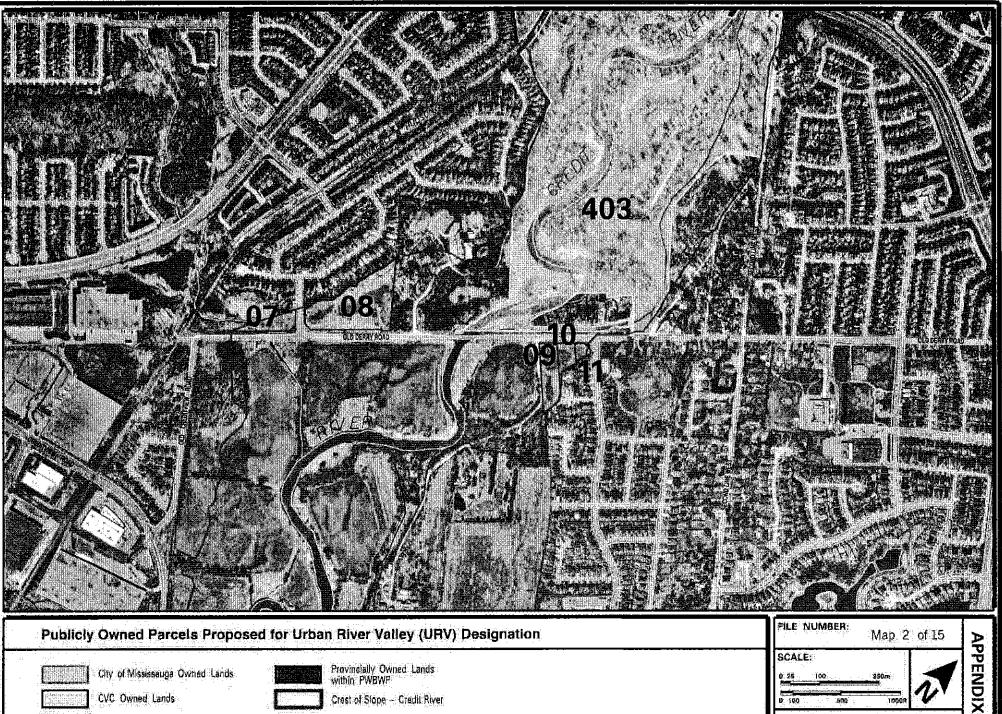
Parcel ID	Location	City Park	Area Description	Teranet - Land Registry PIN	City PIN
01	Meadowvale Village	P-328	North-East portion of Meadowvale Conservation Area	140851677	17168700
02	Meadowvale Village	P-328	North-East portion of Meadowvale Conservation Area	140852903	28938400
03	Meadowvale Village	P-328	North-East portion of Meadowvale Conservation Area	140845452	28617900
04	Meadowvale Village	P-328	North-East portion of Meadowvale Conservation Area	140843203	19355800
05	Meadowvale Village	P-431	North of Knotty Pine Park	140843010	19334000
06	Meadowvale Village	P-431	North of Knotty Pine Park	140843009	19333900
07	Meadowvale Village	P-434	P-434	140852277	18438700
08	Meadowvale Village	P-328	Southern tip of Meadowvale Conservation Area	140850742	15367700
09	Meadowvale Village	P-391	West of Old Ridge Park	132150237	15509500
10	Meadowvale Village	P-391	West of Old Ridge Park	132150474	20761500
11	Meadowvale Village	P-391	North-West of Old Ridge Park	132150235	15509300
12	East Credit	P-505	Former Harris Lands	132150005	4443200
13	Credit Meadows	P-122	Credit Meadows	132100093	4205200
14	East Credit	P-122	Credit Meadows	132100285	3931500
15	East Credit	P-122	Southern tip of Credit Meadows	132100210	4333600
16	Streetsville	P-128	Pinecliff Park	132030423	4388800
17	Streetsville	P-128	Pinecliff Park	132030429	4388900
18	Streetsville	P-282	Hyde's Mill Hollow	132030100	13248600
19	Streetsville	P-119	Riverrun Park	132030100	13248400
20	East Credit/Streetsville	P-281	West of P-281	132030421	4432200
21	Riverview Park	P-118	Riverview Park	132030411	13176400
22	Streetsville	P-118	Riverview Park	131990055	13348200
23	Streetsville	P-118	Riverview Park	131990775	4433900
24	Streetsville	P-127	North East of Timothy Street Park	131990118	6910800
25	Streetsville / East Credit	P-127	Timothy Street Park	131990543	13344100
26	Streetsville	P-114	North of Streetsville Memorial Park	131990598	13320800
27	Streetsville	P-114	North of Streetsville Memorial Park	131990539	13272900
28	Streetsville	P-114	North of Streetsville Memorial Park	131990532	13312600
29	Streetsville	P-114	North of Streetsville Memorial Park	131990519	13313000
30	Streetsville	P-114	North of Streetsville Memorial Park	131990233	13320700
31	Streetsville	P-114	Streetsville Memorial Park	131960632	13271800
32	East Credit	P-303	Not to be Named P-303	131960631	13300500
33	Streetsville	P-114	South of Streetsville Memorial Park	131960543	4272800
34	Streetsville	P-114	South of Streetsville Memorial Park	131960288, 131960829	4272900
35	East Credit	P-250	Carolyn Creek	131960851	16829300
36	East Credit	P-250	Carolyn Creek	131950071, 131950083, 131950105, 131950106,	26583600
				131950108, 131950110, 131950112, 131950114	
37	East Credit	P-306	Not to be Named P-306	131950084	4407000
38	Central Erin Mills	P-306	Not to be Named P-306	131950053	4240100
39	East Credit	P-286	Hewick Meadows	133830025	6236800
40	East Credit	P-286	Hewick Meadows	133830552	6836200
41	East Credit	P-286	Hewick Meadows	133830552	6836000, 6836100

APPENDIX 2

# Appendix 2 (Table): City-Owned Lands Proposed for Urban River Valley (URV) Designation

Parcel ID	Location	City Park	Area Description	Teranet - Land Registry PIN	City PIN
41	East Credit	P-286	Hewick Meadows	133830552	6836000, 6836100
42	East Credit	P-462	P-462 Not Yet Named	133830009	6029600
43	East Credit	P-462	East of P-462 Not Yet Named	133830011	6835900
44	Riverwood	P-331	NE portion of Riverwood	133820194	5465700
45	Riverwood	P-331	NW portion of Riverwood	133820194	6070500
46	Riverwood	P-331	SW portion of Riverwood, East side of river below crest of slope	133820194	6070400
	Erindale	P-331	South of Riverwood	133810688	11707800
48	Erindale/Erin Mills	P-331	South of Riverwood	133810071	11707700
49	Erindale	P-060	North-East part of Erindale Park	133810687	11608300
50	Erindale	P-060	North East of Erindale Park	133810689	11568500
51	Erindale	P-060	North West of Erindale Park	133810641	11697900
52	Erin Mills	P-060	North East of Erindale Park	133810679	11705600
53	Erindale	P-060	North East of Erindale Park	133810642	11568400
54	Erindale	P-060	North East of Erindale Park	133810642	11576800
55	Erindale	P-060	Erindale Park	133810267	11579000
56	Erindale	P-060	West of Erindale Park	133810214	11677800
57	Erin Mills	P-060	Erindale Park	133810715, 133810716	26478600
58	Erindale	P-241	P-241	133590461	11052200
59 _	Sheridan	P-241	P-241	133590005	11018400
60	Sheridan	P-241	P-241	134400136	10952600
61	Erindale/Sheridan	P-241	P-241	133590048	10928000
62	Erindale	P-241	P-241	133591423	10927500
63	Erindale/Sheridan	P-241	P-241	133590046_	16550500
64	Sheridan	P-241	P-241	133590047	11027500
65	Erindale	P-157	South of Carriage Way	133590575, 133590589	10875600
66	Sheridan	P-241	P-241	133590560	11049900
67	Sheridan	P-241	South of P-241	1335591434, 133592386	18144200
68	Erindale	P-271	P-271, not to be named	133590694	10624800
69	Erindale	P-314	P-314	133590849	10602400
70	Erindale	P-314	P-314	133590851	10604000
71	Erindale	P-314	P-314	133590856, 133590856	10622600
72	Clarkson/Lorne Park	P-066	Credit River Flats	134560592	975700
73	Clarkson/Lorne Park	P-066	Credit River Flats	134561141	18389700
. 74	Clarkson/Lorne Park	P-066	Credit River Flats	134561197	24544800
75	Mineola	P-066	Credit River Flats	134561153	332700
76	Mineola	P-066	Credit River Flats	134560168	24741400

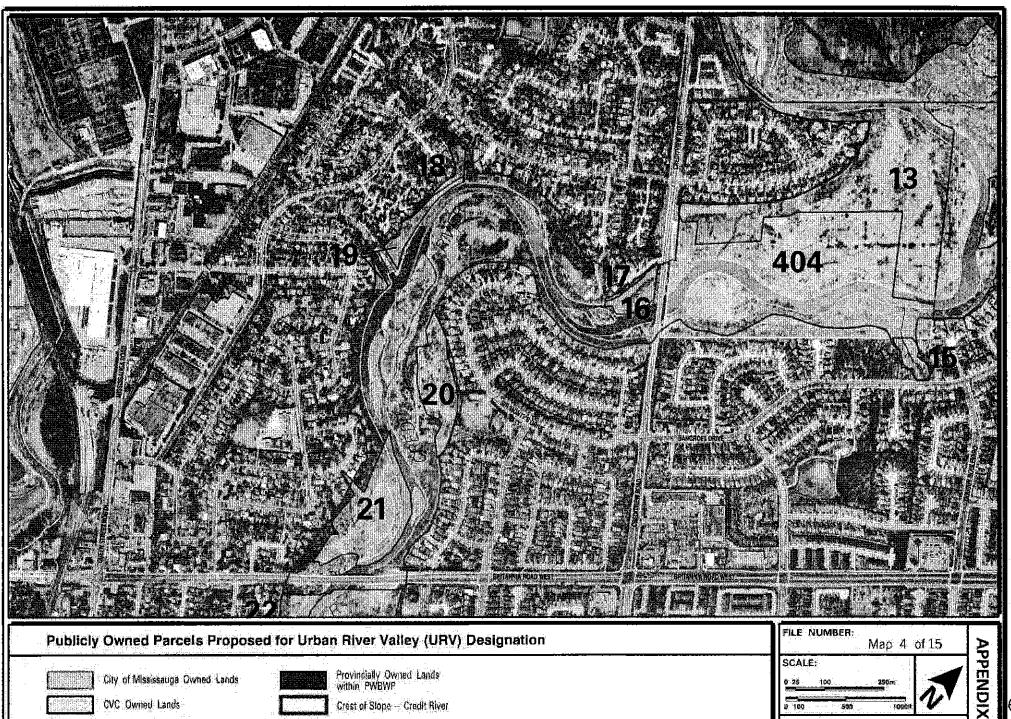




Region of Peel Owned Lands

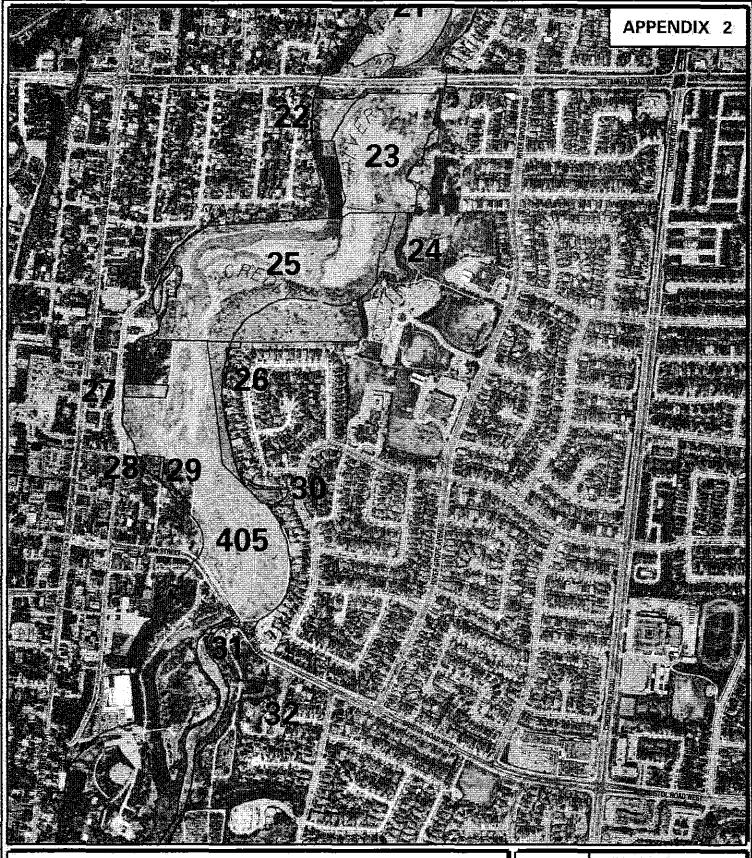
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Region of Peel Owned Lands

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City of Mississauga Owned Lands



CVC Owned Lands



Region of Peel Owned Lands



Provincially Owned Lands within PWBWP



Crest of Slope - Credit River

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City of Mississauga Owned Lands CVC Owned Lands

Region of Peel Owned Lands



Provincially Owned Lands within PWBWP



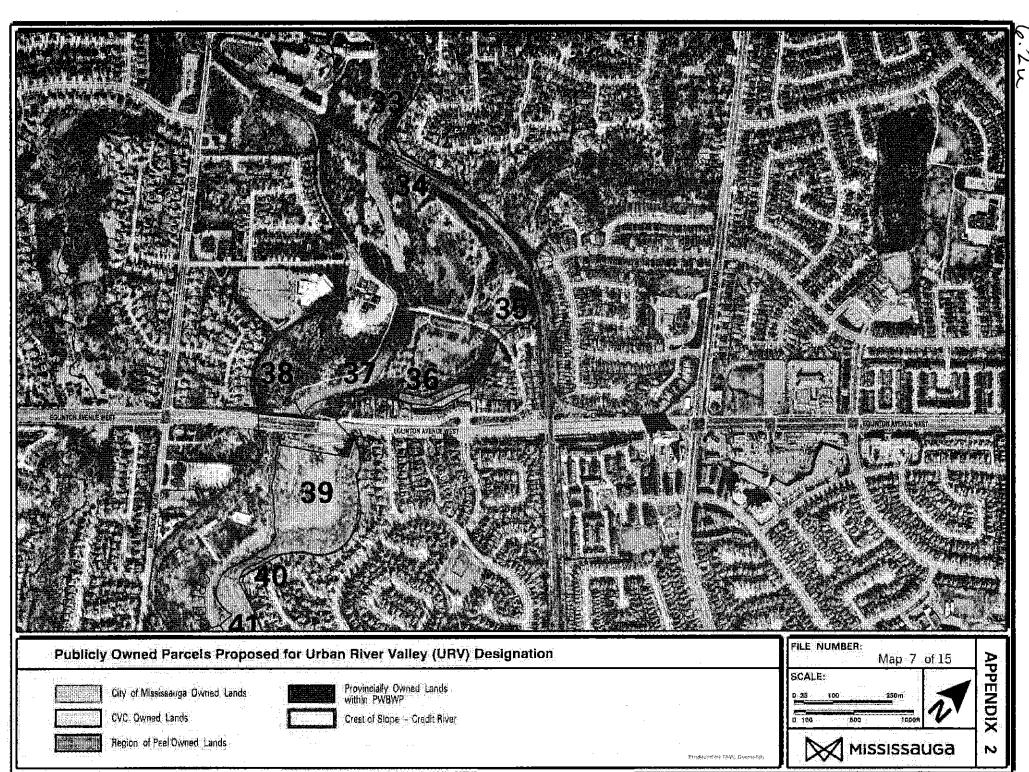
Crest of Slope - Credit River

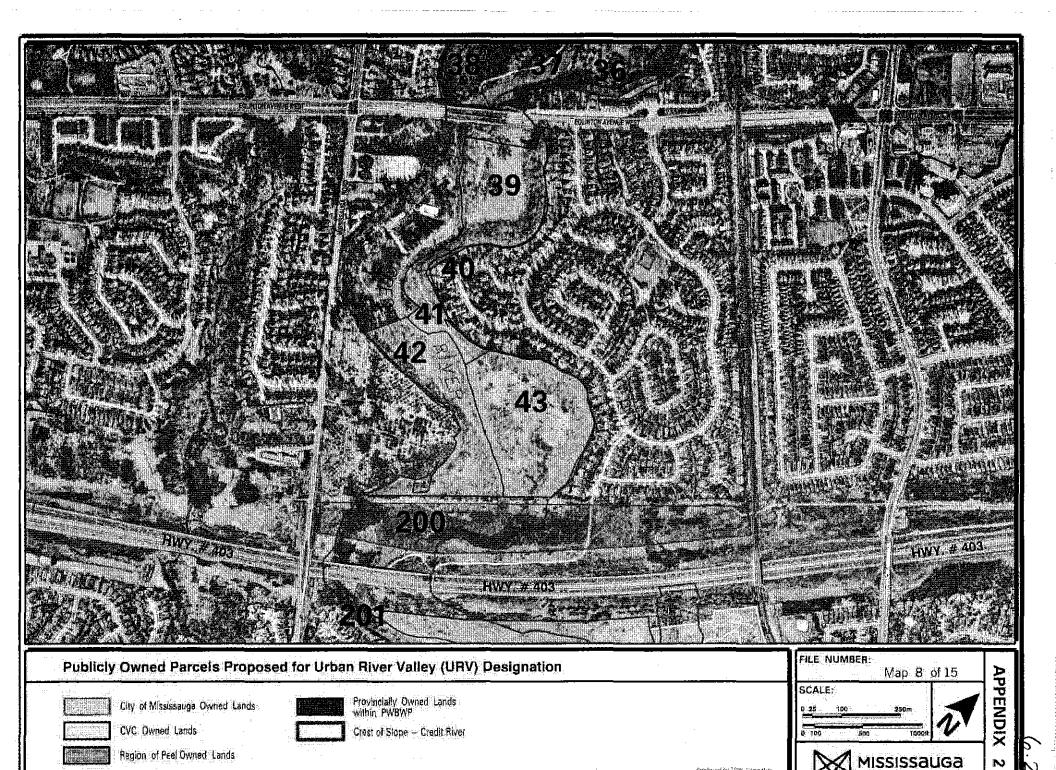
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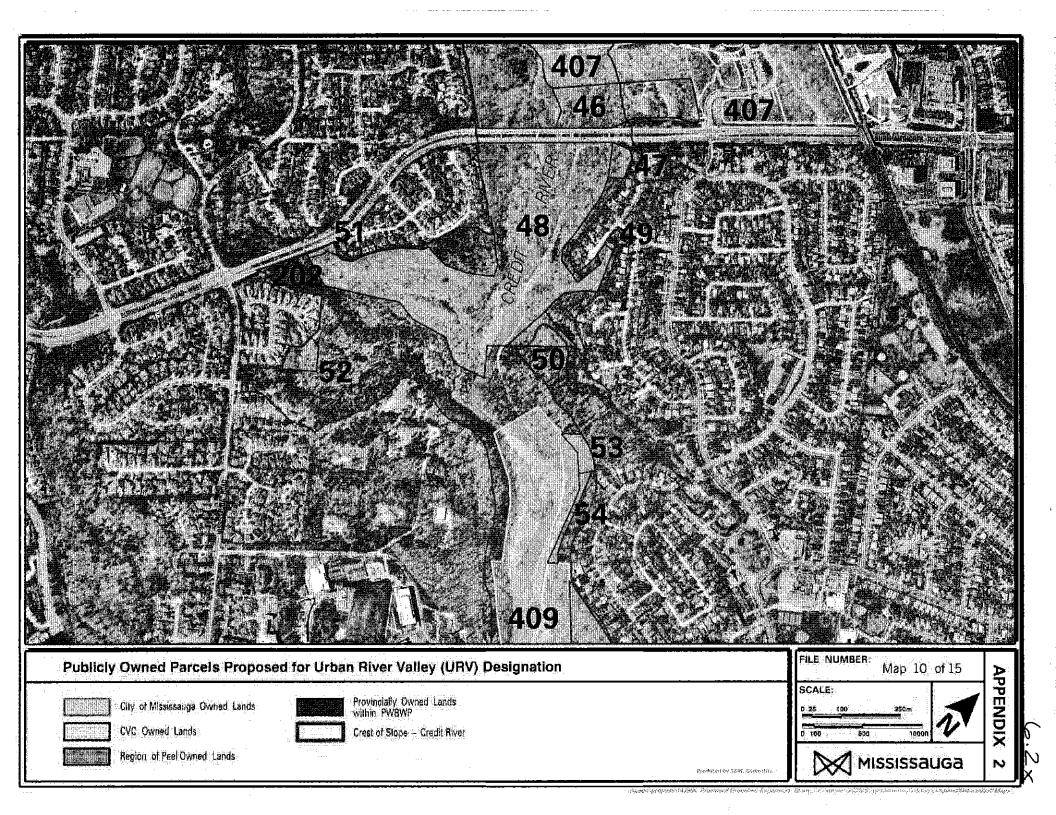


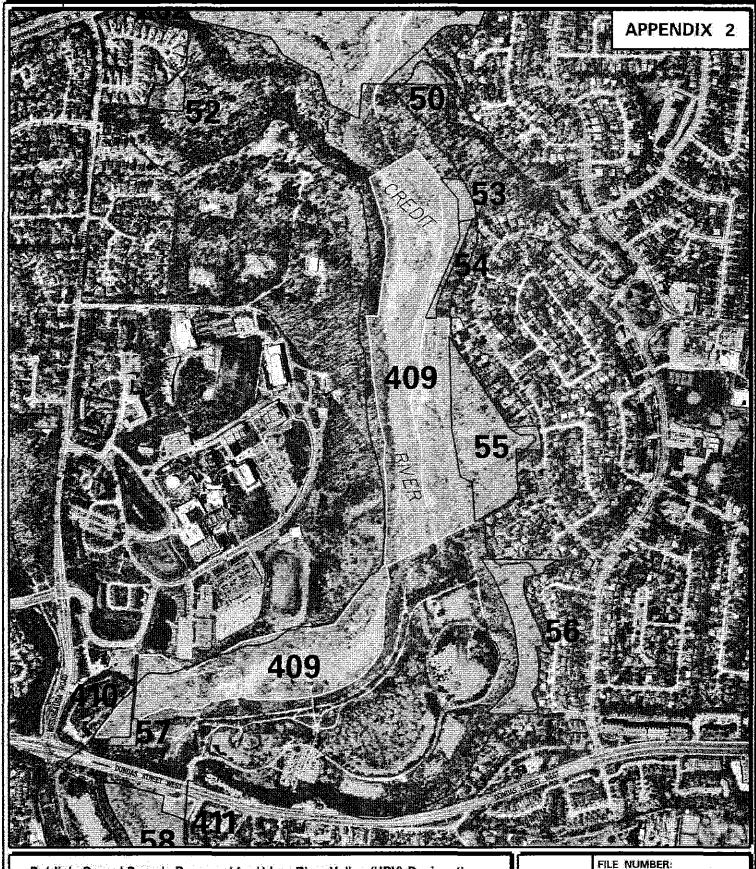
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City of Mississauga Owned Lands



CVC Owned Lands



Region of Peel Owned Lands





Crest of Slope - Credit River

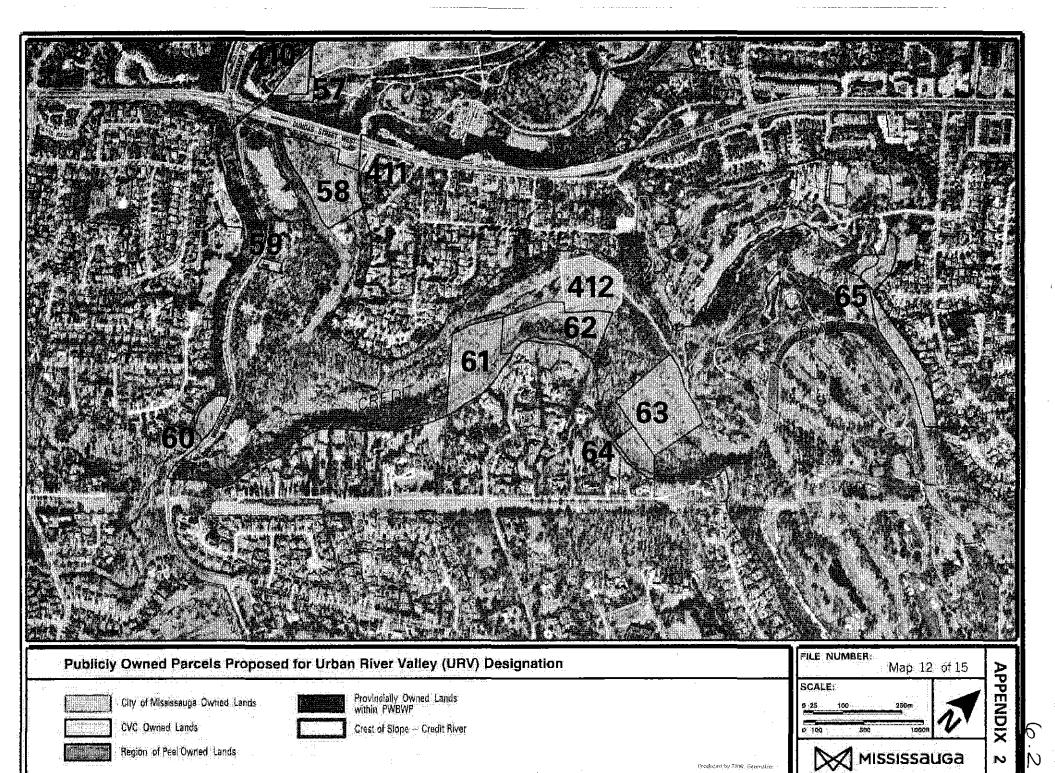
Provincially Owned Lands within PWBWP



Map 11 of 15

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City of Mississauga Owned Lands

CVC Owned Lands Region of Peel Owned Lands



Provincially Owned Lands within PWBWP

Crest of Slope - Credit River

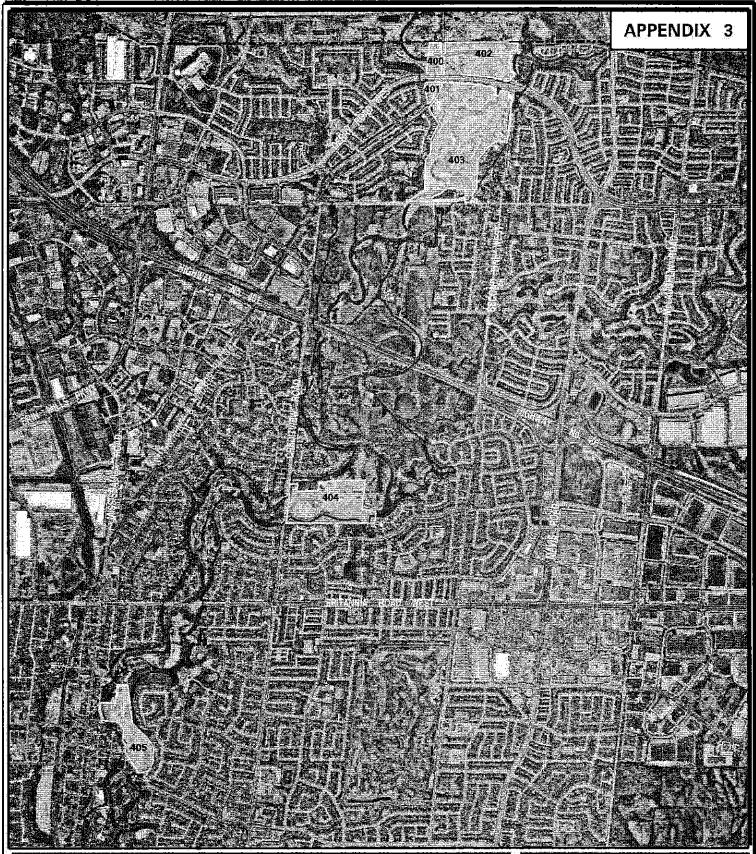


Map 14 of 15

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Appendix 3: CVC-Owned Lands Proposed for Urban River Valley (URV) Designation



## CVC-Owned Lands Proposed for URV Designation (North)

CVC Owned Lands

Parcel 400: Teranet PIN 14085-0256 Parcel 401: Teranet PIN 14085-0265 Parcel 402: Teranet PIN 14085-2905 Parcel 403: Teranet PIN 14085-2910 Parcel 404: Teranet PIN 13210-0094 Parcel 405: Teranet PIN 13199-0510 Parcel 406: Teranet PIN 13382-0352 Parcel 407: Teranet PIN 13382-0352 Parcel 408: Teranet PIN 13382-0352 Parcel 409: Teranet PIN 13381-0153 Parcel 410: Teranet PIN 13381-0140 Parcel 411: Teranet PIN 13381-0460 Crest of Slope - Credit River

Parcel 412: Teranet PIN 13359-0344 Parcel 413: Teranet PIN 13359-0827 Parcel 414: Teranet PIN 13359-0868 Parcel 415: Teranet PIN 13456-0002

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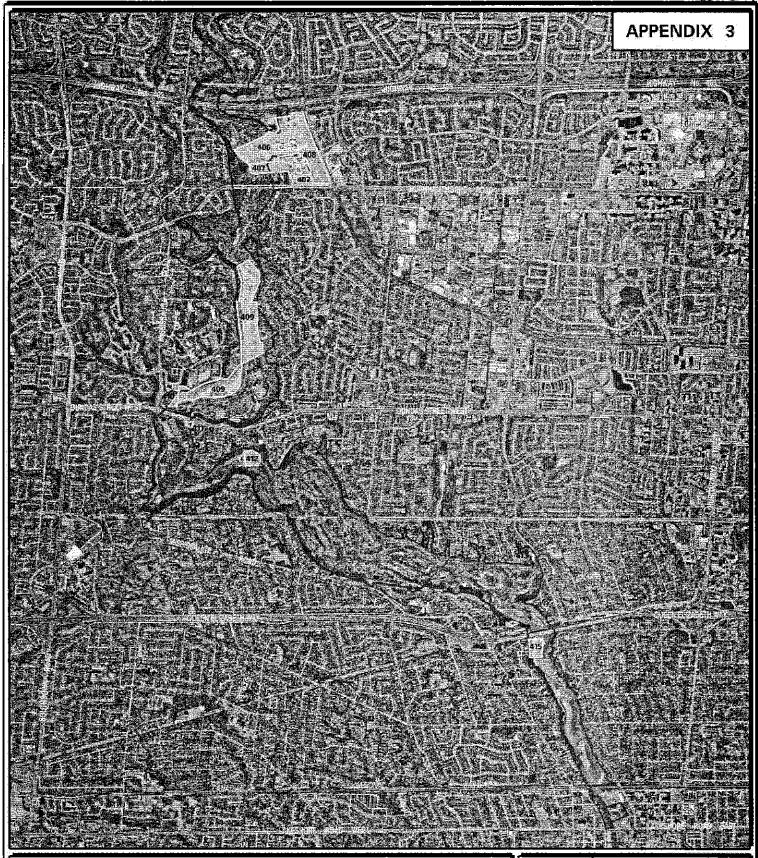
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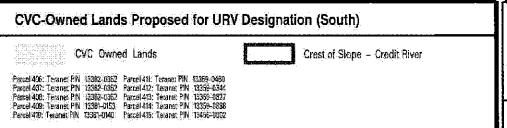
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# Appendix 4: Regionally-Owned Lands Proposed for Urban River Valley (URV) Designation

Parcel ID	Location	City Park	Area Description	Teranet – Land Registry PIN	City PIN
300	East Credit	P-282	Riverrun Park	132030420	4432100
301	Streetsville	P-118	South-West portion of Riverview Park	132030438	26538600



## Regionally-Owned Lands Proposed for URV Designation



Regionally Owned Lands

Parcel 300: Teranet PIN 13383-0006 Parcel 301: Teranet PIN 13382-0193



Crest of Slope - Credit River



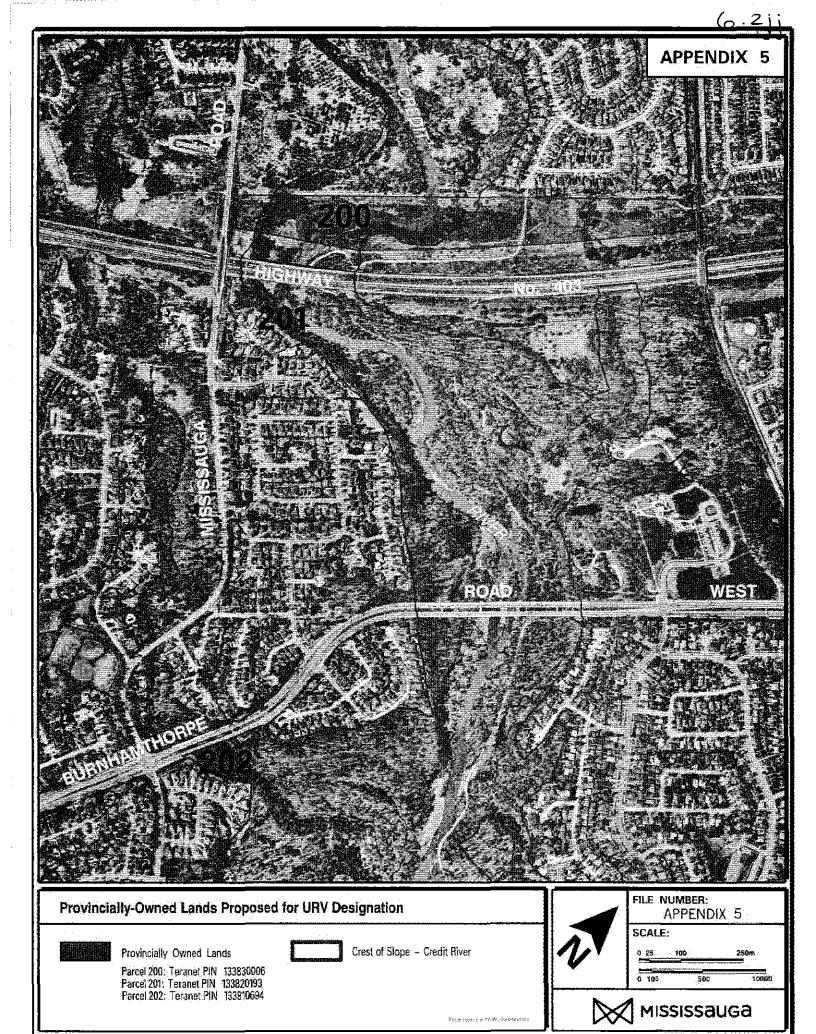
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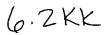
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# Appendix 5: List of Provincially-Owned Lands Proposed for Urban River Valley (URV) Designation

Parcel ID	Location	City Park	Area Description	Teranet = Land Registry PIN	City PIN
200	Central Erin Mills/East Credit	P-487	South of Hewick Meadows and former Pinchin lands, includes Ellis Leuschner Challenge Park	133830006	9358108
201	Erin Mills	P-331	North-West portion of Riverwood Park	133820193	6029500
202	Erindale	P-060	North-West portion of Erindale Park	133590461	11052200





### CRITERIA TO EXPAND THE PROVINCIAL GREENBELT

To include the lands within the Greenbelt Plan, the request must come from the Region of Peel based on a demonstration that the Province's six criteria for expanding the Greenbelt can be met:

Criteria 1: The request must be made by the Region of Peel and must demonstrate that the municipality has undertaken appropriate consultation with key stakeholders, public bodies, and Aboriginal communities. This engagement process would need to be undertaken and documented, and would be a cost to the City and Region.

Criteria 2: The expansion is to be located adjacent to the Greenbelt or demonstrates a clear functional relationship.

By selecting only publicly owned lands, a patchwork will be created and as a result, many of the parcels will not be located adjacent to the Greenbelt. However, they would have functional relationship to the Greenbelt by virtue of being within a stream couridor that connects north to the Greenbelt Plan Area. As well, coordination with the City of Brampton and the City of Toronto (along Etobicoke Creek) would be needed to ensure a fully connected Urban River Valley designation. However, Provincial staff have indicated that the City of Mississanga could bring their publicly owned lands into the Urban River Valley designation without the need for either the City of Brampton or the City of Toronto to include their publicly owned lands.

Criteria 3: The request is to show how it meets the intent of the visions and one or more goals of the Greenbelt Plan.

The vision of the Greenbelt Plan is to give permanent protection to the natural heritage system and the goals are to protect and restore connections between Lake Ontario, the Oak Ridges Moraine, the Niagara Escarpment and the major river valleys. While in theory this vision and the goals will be furthered, this vision and the goals are being achieved today as the lands are already protected in public ownership and are protected through Official Plan policies and zoning by-laws associated with the green system, including the existing natural heritage system (and enhanced by the proposed recommendations of the ongoing NH&UFS). However, Provincial staff indicated that a further benefit is the permanence of the Greenbelt Plan designation.

Criteria 4: One or more of the Greenbell systems are identified.

The lands along the Credit River and Etobicoke Creek would be part of the Greenbelt Natural Heritage System, but it is important to recognize that a continual natural heritage system would not be created through this designation, as privately owned lands in the river valleys would not be included.

Criteria 5: The proposed area for expansion cannot impede the implementation of the Growth Plan. The lands are already designated for environmental protection and are in public ownership so there should be no impact on the Growth Plan.

Criteria 6: The request cannot undermine provincial interests or other provincial initiatives.

Since the Urban River Valley designation applies only to public owned lands that are already protected from development, it is unlikely that it would affect any other provincial initiatives.

Source: Feasibility Analysis for Expansion of the Provincial Greenbelt Plan Area into Mississauga, – Sorensen Gravely Lowes Planning Associates Inc. (November, 2013), based on "Growing the Greenbelt" August 2008 – Province of Ontario.

## City of Mississauga

# **Corporate Report**



Date: November 18, 2015

To: Chair and Members of General Committee

From: Martin Powell, P. Eng.

Commissioner of Transportation and Works

Meeting date:

Originator's files:

2015/12/02

## Subject

Request for an exemption to the Animal Care and Control By-law 0098-04, as amended, for the Keeping of Budgies, Chickens, Dogs, Ducks, Peacocks, Pheasants, Pigeons, Rabbits and Roosters at 2681 Mississauga Road (Ward 8)

## Recommendation

That the request for an Exemption to the Animal Care and Control By-law 0098-04, as amended, to permit the keeping of budgies, chickens, dogs, ducks, peacocks, pheasants, pigeons, rabbits and roosters at 2681 Mississauga Road, be denied, as outlined in the report from the Commissioner of Transportation and Works, dated November 18, 2015 and entitled "Request for an Exemption to the Animal Care and Control By-law 0098-04, as amended, for the Keeping of Budgies, Chickens, Dogs, Ducks, Peacocks, Pheasants, Pigeons, Rabbits and Roosters, 2681 Mississauga Road, Ward 8".

# Report Highlights

- The property is in contravention of the Animal Care and Control By-law 0098-04, as amended, the Property Standards By-law 654-98, as amended and the Zoning By-law 225-2007, as amended.
- The property contains 75 animals, including a large quantity of prohibited animals listed in the Animal Care and Control By-law 0098-04, as amended, four accessory structures and an accumulation of debris, garbage and an unlicensed vehicle.
- Compliance and Licensing Enforcement staff have received seven complaints for the subject property. The complaints include the keeping of prohibited animals, noise complaints and a zoning complaint.

## **Background**

On August 29, 2013 staff from the Compliance and Licensing Enforcement section of the Enforcement Division received a complaint regarding the keeping of chickens on a vacant lot at 2861 Mississauga Road. Attached as Appendix 1 are aerial photographs of the subject property and surrounding properties.

The Compliance and Licensing Enforcement section has a history with the subject property. Appendix 2 attached provides a chronology of the Compliance and Licensing Enforcement section's history with the subject property.

At the present time the subject property is in contravention of the Animal Care and Control By-law 0098-04, as amended, as there are 75 animals being kept on the property. The by-law only permits four. Chickens, ducks, peacocks and pheasants are being kept on the property, which are prohibited under the by-law. There are four accessory structures located on the property. The Zoning By-law 225-2007, as amended only permits one accessory structure. The property is in contravention of the Property Standards By-law 654-98, as amended, as it contains an accumulation of debris, garbage and an unlicensed vehicle.

Mr. Frank Belan, spouse of the property owner Mrs. Anka Belan applied for an exemption to the Animal Care and Control By-law 0098-04, as amended, to permit the keeping of chickens (Appendix 3). Compliance and Licensing Enforcement received email correspondence from a neighbouring property owner indicating his support for the request for an exemption to the Animal Care and Control By-law 0098-04, as amended, to keep chickens and roosters on the subject property (Appendix 4).

Mr. Belan amended his request for an exemption to the Animal Care and Control By-law 0098-04, as amended, to permit the keeping of budgies, chickens, a dog, ducks, peacocks, pheasants, pigeons, rabbits and roosters. Specifically, the exemption request was for the keeping of two budgies, 20 chickens, one dog, 13 ducks, five peacocks, three pheasants, two pigeons, ten rabbits and one rooster (Appendix 5).

Enforcement of the above-mentioned contraventions under the Animal Care and Control By-law 0098-04, as amended, the Zoning By-law 0225-2007, as amended, and the Property Standards By-law 654-98, as amended, were not acted on by Compliance and Licensing Enforcement pending the decision of the exemption request under the Animal Care and Control By-law 0098-04, as amended.

The purpose of this report is to respond to the property owners request for an exemption to the Animal Care and Control By-law 0098-04, as amended, for the keeping of budgies, chickens, a dog, ducks, peacocks, pheasants, pigeons, rabbits and roosters.

General Committee 2015/11/18 3

#### Comments

#### **Property Background**

This property is unique to the urban setting as it is a vacant .50 hectares (1.23 acre) residential zoned parcel of land located on Mississauga Road, south of Dundas Street West. The subject property is bordered by land owned by Mr. and Mrs. Belan to the north, land owned by the Region of Peel to the east, land owned by the City of Mississauga to the south and Mississauga Road located to the west.

Based on the current ownership, the closest property to the land in question that is occupied by someone other than the applicant is a dwelling located approximately 60 metres (197 feet) east of the subject location at 1775 Blythe Road. The next closest property is located approximately 80 metres (262 feet) to the northeast at 1735 Blythe Road, and that property owner has provided a letter of support for the request for exemption made by Mr. Belan.

Under the Animal Care and Control By-law 0098-04, as amended, no person shall keep, or cause to be kept, more than four animals on any property. Furthermore, the Animal Care and Control By-law 0098-04, as amended, does not permit the keeping of chickens, ducks, pea fowl (peacock) and pheasants.

## **Financial Impact**

Not applicable.

#### Conclusion

Compliance and Licensing Enforcement staff do not support the exemption request to the Animal Care and Control By-law 0098-04, as amended, for the keeping of budgies, chickens, dogs, ducks, peacocks, pheasants, pigeons, rabbits and roosters at 2681 Mississauga Road. Additionally, the subject property is not in compliance with the Property Standards By-law 654-98, as amended, and the Zoning By-law 0225-2007, as amended. Enforcement action on these matters will commence on approval of the recommendation in this report.

#### **Attachments**

Appendix 1: Aerial photographs of 2681 Mississauga Road and surrounding properties.

**Appendix 2**: Chronology of the Compliance and Licensing Enforcement section's history with the subject property.

**Appendix 3**: Request from Mr. Frank Belan dated November 18, 2013 for an exemption to the Animal Care and Control By-law 0098-04, as amended, for the keeping of chickens.

**Appendix 4:** Letter of support for an exemption to the Animal Care and Control By-law 0098-04, as amended, for the keeping of chickens from Mr. Ross Bain dated November 5, 2013.

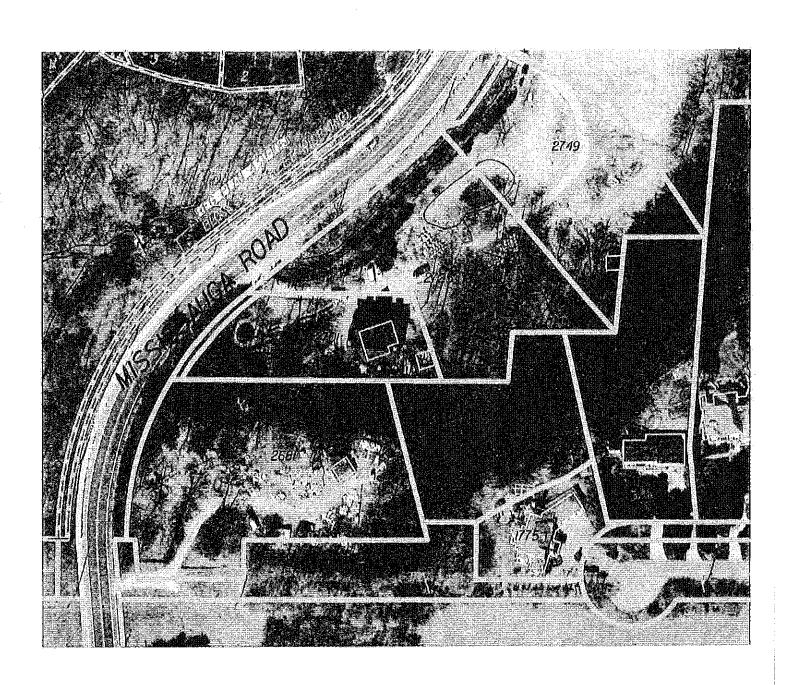
**Appendix 5**: Amended request from Mr. Frank Belan for an exemption to the Animal Care and Control By-law 0098-04, as amended, for the keeping of budgies, chickens, dogs, ducks, peacocks, pheasants, pigeons, rabbits and roosters dated August 20, 2015.

Martin Powell, P. Eng.

Commissioner of Transportation and Works

Prepared by: Blaine Williamson, Acting Researcher Enforcement Division

## APPENDIX 1





Compliance and Licensing Enforcement staff have received a total of seven complaints for the subject property from four different residents. Complaints for the subject property were received in 2006, 2008, 2011, 2013 and most recently in 2015. Four of the complaints received were for the keeping of prohibited animals on the property, two were noise complaints and one was a zoning complaint. Below provides a chronology of the Compliance and Licensing Enforcement section's history with the subject property.

<u>Date</u>	Description	
July 25, 2006	Compliance and Licensing Enforcement staff received two complaints for the subject property. The first complaint was for the keeping of chickens and roosters and the second was of a noise complaint from the roosters crowing. The property owners were issued a Notice of Contravention (NOC) directing them to remove the prohibited animals from the property. Additionally, noise packages were sent to the property owners and the complainant.	
September 1, 2006	No further information was supplied by the complainant for the noise complaint and an inspection of the subject property revealed no violations. The files on the matters were closed.	
May 22, 2008	Compliance and Licensing Enforcement staff received a complaint for the keeping of chickens on the property. A NOC was issued to the property owners to remove the prohibited animals from the property.	
June 25, 2008	An inspection of the subject property revealed no violations and the file on the matter was closed.	
November 9, 2011	Compliance and Licensing Enforcement staff received two complaints for the subject property. The first complaint was for the keeping of geese and chickens on the property and the second was of an individual residing inside a shed located on the property.	
November 11, 2011	An inspection of the subject property revealed no evidence to substantiate that an individual was residing inside a shed and the file on the matter was closed. Compliance and Licensing Enforcement staff found a large quantity of animals located on the property, which included a dog, cats, chickens, ducks and roosters. The property owners were issued a NOC directing them to remove the prohibited animals and reduce the number of animals on the property to four.	
	An inspection of the subject property revealed no violations and the file on the matter was closed.	
July 26, 2013	Compliance and Licensing Enforcement staff received a noise complaint for barking dogs at the subject property. Noise packages were sent to the property owners and the complainant.	

August 29, 2013	Compliance and Licensing Enforcement staff received a complaint for the keeping of chickens and ducks at the subject property.		
August 29, 2013	Compliance and Licensing Enforcement staff spoke with Mr. Frank Belan, spouse of the property owner Mrs. Anka Belan, and advised him of the complaint regarding the keeping of chickens at the property.		
September 4, 2013	Compliance and Licensing Enforcement staff attended the property and upon inspection, it was determined that a number of chickens and roosters were being kept on the vacant lot zoned residential in contravention of the Animal Care and Control By-law 0098-04, as amended.		
	In addition, the inspection revealed that the property was also in contravention of the Zoning By-law 0225-2007, as amended, which permits a maximum of one accessory structure, whereas the property contained four accessory structures. The property was also found to be in contravention of the Property Standards By-law 654-98, as amended, as debris, garbage and an unlicensed vehicle were located on the property.		
September 6, 2013	A NOC was issued to the property owner Mrs. Belan and her spouse Mr. Belan for contravening the Animal Care and Control By-law 0098-04, as amended, for permitting more than four animals and prohibited animals to be on the property.		
October 30, 2013	Mr. Belan contacted Compliance and Licensing Enforcement staff and was provided with information about the process for seeking an exemption to the Animal Care and Control By-law 0098-04, as amended, to permit chickens and roosters to remain on the property.		
November 5, 2013	Compliance and Licensing Enforcement received email correspondence from a neighbouring property owner indicating his support for the reques for an exemption to the Animal Care and Control By-law 0098-04, as amended, to keep chickens and roosters on the subject property.		
November 18, 2013	Compliance and Licensing Enforcement staff received email correspondence from Mr. Belan with a formal request for an exemption to the Animal Care and Control By-law 0098-04, as amended, to permit the keeping of chickens and roosters on the property.		
January 30, 2014	Compliance and Licensing Enforcement staff attended the property and an inspection revealed that four accessory structures existed on the property, two of which housed chickens and roosters.		
February 14, 2014	Compliance and Licensing Enforcement staff attended the property and gathered measurements of the four accessory structures:		
	<ul> <li>The chicken enclosure contained 15 chickens and measured 2.43 metres (eight feet) in width, 2.13 metres (seven feet) in length and 2.7 metres (nine feet) in height from effective ground level to the peak of the roof.</li> </ul>		

- The rooster enclosure contained five roosters and measured 1.2 metres (four feet) in width, 2.4 metres (eight feet) in length and 2.7 metres (nine feet) in height.
- The third structure referred to as the "smoke house" with measurements of 1.2 metres (four feet) in width, 2.4 metres (eight feet) in length and 2.13 metres (seven feet) in height.
- The fourth and the largest structure measured 4.8 metres (15.7 feet) in width, 5.12 metres (16.8 feet) in length and 3.7 metres (12 feet) in height.

Further, the property contained an accumulation of construction materials, an unlicensed vehicle on a trailer and a fenced-in dog pen containing two German Sheppard dogs, both of which had City issued dog licences. All of the structures, including the dog pen are located in the centre of the lot and are in compliance with the minimum setback requirements of the Zoning By-law 0225-2007, as amended.

March 18, 2015

Compliance and Licensing Enforcement staff attended the property and an inspection revealed that the four accessory structures were still located on the property, as well as 30 chickens, two roosters, five pheasants, four ducks, one dog and two rabbits.

May 26, 2015

Compliance and Licensing Enforcement staff attended the property and an inspection revealed the same four accessory structures, chickens, roosters, pheasants, ducks, a peacock, one dog and two rabbits.

May 28, 2015

Compliance and Licensing Enforcement staff received a new complaint concerning the keeping of chickens and geese on the property.

June 28, 2015

Animal Services staff received a complaint of a peacock at large within the city. The peacock was located by Animal Services on a property on Prince John Boulevard and through their investigation identified Mr. Belan as the owner. Animal Services staff did not seize the peacock at that time as Mr. Belan indicated that he was working on keeping the peacock and other animals on the subject property. As a result, Mr. Belan was issued a Provincial Offence Notice for allowing the peacock to be at large within the city.

August 14, 2015

Staff from Compliance and Licensing Enforcement and Animal Services attended the property and an inspection revealed the same four accessory structures were still located on the property. In addition, there was a large accumulation of debris, an unlicensed vehicle and a total of 75 animals located on the property. The animals found on the property included one dog, three pheasants, five peacocks, ten rabbits, 38 chickens, one rooster, 13 ducks, two budgies and two pigeons. Animal Services staff reported there was food and water readily available for the animals and they all appeared to be in good health.

August 20, 2015

Compliance and Licensing Enforcement staff received email correspondence from Mr. Belan with a formal request to amend his exemption to the Animal Care and Control By-law 0098-04, as amended. Mr. Belan's request was to permit the keeping of one dog, three pheasants, five peacocks, ten rabbits, one rooster, 13 ducks, two budgies and two pigeons. Furthermore, Mr. Belan indicated that he would reduce the number of chickens on the property from 38 to 20.

#### **Trudy Thompson**

From:

Douglas Meehan

Sent:

November 21, 2013 11:53 AM

To:

Trudy Thompson

Subject:

FW: Exemption Request for Animal Control Bylaw

FYI & copy to file.

----Original Message----

From: Paisley Carpentry [mailto

Sent: 2013/11/18 8:39 PM

To: Douglas Meehan

Subject: Exemption Request for Animal Control Bylaw

> Hi Douglas,

>

- > My name is Frank Belan and I own 2681 Mississauga Road, which is mainly a forested area with no close neighbors. I also own and live on the property next door at 2701 Mississauga Road. The closest bordering property other than my own is the backyard of Ross Bain who has emailed his supporting letter of my request to you. Our neighbors enjoy our chickens and feed them.
- > Historically, our property was farmland and very distant from other homeowners along with being very secluded from the road. Therefore it is my belief that my property qualifies for an exemption of this bylaw.

> Most importantly, my chickens are free range and fed well and this organic approach is beneficial to my family. My chickens are peaceful and are very well taken care of.

> Please accept this email as my formal request for an exemption to the bylaw. Please call me if you have any further questions.

>

> Thank you,

>

> Frank Belan

#### **APPENDIX 4**

Douglas Meehan

From:

Ross Bain

Sent:

2013/11/05 9:37 PM Douglas Meehan

To: Cc:

Subject:

Animal Care and Control By-Law

#### Dear Mr. Meehan:

My wife and I own 1735 Blythe Road, the property second from the very west end of Blythe Road. We understand that you have asked one of our neighbours, Frank Belan, to provide information as to why he should be granted an exemption to the Animal Care and Control By-law for raising chickens, hens and roosters on his property part way down the valley to Mississauga Road.

Given the location of the chicken coop, the wooded nature of our neighbourhood, the type of animals involved, and the changes we have heard of in other jurisdictions allowing raising such animals, we fully support Mr. Belan's request for the exemption. The hens and roosters actually come into our front yard at times, and we put food out for them — as we do for squirrels and birds. We really enjoy having them on our property — even though it is usually for a short time.

Please take such action as is required to permit Mr. Belan to continue to raise chickens, hens and roosters on his property.

H. Ross R. Bain Prime Restaurants Inc. Executive Vice-President, Legal Counsel, Secretary T: 905.568.0000 x 207 F: 905.568.0080 | 10 Kingsbridge Garden Circle, Suite 600, Mississauga, Ontario L5R 3K6 rbain@primerestaurants.com

#### APPENDIX 5

#### **Blaine Williamson**

From:

**Paisley Carpentry** 

Sent:

2015/08/20 9:39 PM

To:

Blaine Williamson

Subject:

Re: Request for Exemption - 2681 Mississauga Road, Ward 8

Dear Blaine,

Since my initial request, i have gotten more animals. As a result, I would like to request an exemption for both chickens and the others listed. I would reduce the chickens to 20 and would like to keep the other animals if possible.

As you know, it is a secluded and forested area and if any neighbors next door complained - I would not have kept the animals. My family\grand kids enjoy them thoroughly and they bring us joy.

Hopefully we can work out an exemption for all animals (chickens reduced) given my unique property and circumstance until we decide what to do with the property (ie. sell\build a home).

Please give me a call with any further questions.

Regards,

Frank Belan

On Monday, August 17, 2015, Blaine Williamson < blaine.williamson@mississauga.ca> wrote:

Mr. Belan,

I am preparing the Corporate Report for your exemption request to the Animal Care and Control By-law 0098-04, as amended, for the keeping of chickens at 2681 Mississauga Road, Ward 8. Attached is a copy of your email dated November 18, 2013, in which you made the request for an exemption to the by-law.

A recent inspection of the property revealed there was seventy five animals on the property, which included one dog, three pheasants, five peacocks, ten rabbits, thirty eight chickens, one rooster, thirteen ducks, two budgies, and two pigeons. Can you please clarify what your exemption request is for? Specifically, is the exemption request for the keeping of chickens? Or is it for the keeping chickens and other prohibited animals found on Schedule A of the by-law? Or is it for allowing more than four animals to remain on the property?

6.3m

Can you please provide a response to me before Friday August 21, 2015, so that I can complete the Corporate Report for your exemption request. Should you have any questions in relation to this matter please contact me.

Regards,



Blaine Williamson, B.A. Sc.

Researcher, Enforcement Division

Municipal Law Enforcement Officer, Compliance & Licensing Enforcement

T 905-615-3200 ext.5674 F 905-615-3823

blaine.williamson@mississauga.ca

Our Brand Story: www.mississaugabrand.ca

City of Mississauga | Transportation and Works Department

**Enforcement Division** 



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# Corporate Report



Originator's files:

MG.23.REP

RT.10.Z-7

To: Chair and Members of General Committee

November 18, 2015

Martin Powell, P. Eng.

Meeting date:

Commissioner of Transportation and Works

2015/12/2

## Subject

Date:

From:

All-Way Stop - Mineola Road East and Crossfield Bend (Ward 1)

#### Recommendation

That an all-way stop control not be implemented at the intersection of Mineola Road East and Crossfield Bend as the warrants have not been met.

## Background

Concerns have been identified by area residents regarding pedestrian safety at the intersection of Mineola Road East and Crossfield Bend.

The Ward Councillor has requested that the Transportation and Works Department bring a report to General Committee regarding the implementation of an all-way stop at the intersection of Mineola Road East and Crossfield Bend.

## Present Status

Currently, the intersection of Mineola Road East and Crossfield Bend operates as a three-leg intersection with a one-way stop control, for northbound motorists on Crossfield Bend.

## Comments

An A.M./P.M. manual turning movement count was completed on Wednesday, October 14, 2015 to determine if an all-way stop is warranted. The results are as follows:

Mineola Road East and Crossfield Bend - Wednesday October 14, 2015:

Part A: Volume for All Approaches: 100%

Part B: Volume Splits: 46%

2015/11/18

2

Originators files: MG.23.REP, RT.10.Z-7

In order for an all-way stop to be warranted, both Part A and Part B must equal 100 percent. Based on the results, an all-way stop is not warranted at the intersection of Mineola Road East and Crossfield Bend.

A review of the collision history at this intersection did not reveal any reported collision within the past three years that is the type considered correctable by the use of an all-way stop. An all-way stop is therefore not warranted based on the collision history.

## Financial Impact

Not Applicable.

#### Conclusion

Based on the recent manual turning movement count warrant values and collision history, the Transportation and Works Department does not recommend the installation of an all-way stop at the intersection of Mineola Road East and Crossfield Bend.

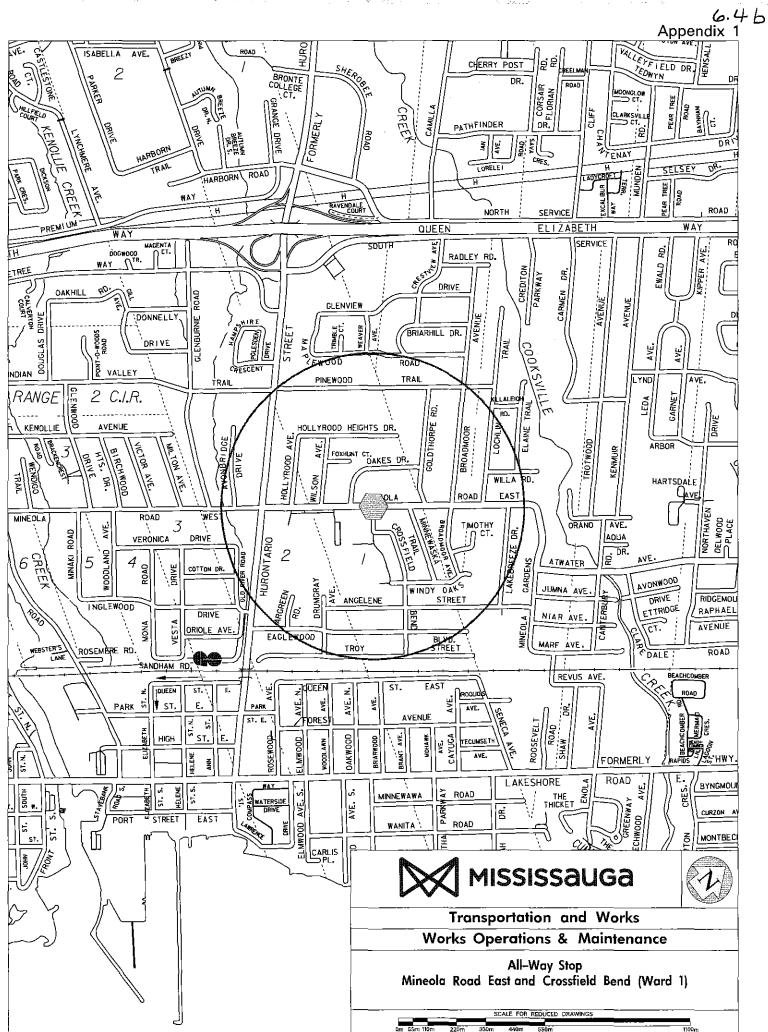
### **Attachments**

Appendix 1: Location Map - All-Way Stop - Mineola Road East and Crossfield Bend (Ward 1)

Martin Powell, P. Eng.

Commissioner of Transportation and Works

Prepared by: Alex Liya, Traffic Operations Technician



November 18, 2015

## **Corporate Report**



Originator's files:

MG.23.REP

RT.10.Z-7

Chair and Members of General Committee

Martin Powell, P. Eng.

Commissioner of Transportation and Works

Meeting date:

2015/12/02

## Subject

Date:

To:

From:

All-Way Stop - John Watt Boulevard and Baskerville Run (Ward 11)

#### Recommendation

That an all-way stop control not be implemented at the intersection of John Watt Boulevard and Baskerville Run as the warrants have not been met.

## **Background**

Concerns have been identified by area residents regarding vehicle speeds and pedestrian safety in the vicinity of the intersection of John Watt Boulevard and Baskerville Run.

The Ward Councillor has requested that the Transportation and Works Department bring a report forward to General Committee regarding the implementation of an all-way stop at the intersection of John Watt Boulevard and Baskerville Run.

#### **Present Status**

Currently, the intersection of John Watt Boulevard and Baskerville Run operates as a four-leg intersection with a two-way stop control for northbound and southbound traffic on Baskerville Run.

#### Comments

An A.M./P.M. manual turning movement count was completed on May 28, 2015 to determine if an all-way stop is warranted. The results are as follows:

General Committee 2015/11/18

Originators files: MG.23.REP

John Watt Boulevard and Baskerville Run - Thursday May 28, 2015

Part A: Volume for All Approaches: 100% Part B: Volume Splits: 95%

In order for an all-way stop to be warranted, both Part A and Part B must equal 100 percent. Based on the results, an all-way stop is not warranted at the intersection of John Watt Boulevard and Baskerville Run.

A review of the collision history at this intersection did not reveal any reported collisions within the past three years that is the type considered correctable by the use of an all-way stop. An all-way stop is therefore not warranted based on the collision history.

In addition, there are currently two existing all-way stop controls in close proximity to the intersection of John Watt Boulevard and Baskerville Run. John Watt Boulevard and Gooderham Estate Boulevard is located approximately 80 metres (262 feet) east of Baskerville Run at John Watt Boulevard, and John Watt Boulevard and Gaslamp Walk is located approximately 172 metres (564 feet) west of Baskerville Run at John Watt Boulevard.

In accordance with the Ministry of Transportation's Ontario Traffic Manual #5 and the "All-Way Stop Signs" Corporate Policy #10-04-05, all-way stop controls should not be used "where any other traffic device controlling right-of-way is permanently in place within 250 metres (820 feet)".

Having traffic control devices less than the distance mentioned may frustrate motorists and will increase vehicle emissions, increase fuel consumption and increase the noise generated by braking and acceleration within the relatively short distance of the roadway between the existing stop controls. In addition to these safety concerns, previous experience has shown that speeds are often increased through segments of a roadway where intersection controls are placed in too close proximity to one another as motorists may attempt to make up a perceived loss of time.

## Financial Impact

Not Applicable.

#### Conclusion

Based on the above, the Transportation and Works Department does not recommend the installation of an all-way stop at the intersection of John Watt Boulevard and Baskerville Run.

General Committee

2015/11/18

3

Originators files: MG.23.REP

## **Attachments**

Appendix 1: Location Map - All-Way Stop - John Watt Boulevard and Baskerville Run (Ward 11)

Martin Powell, P. Eng.

Commissioner of Transportation and Works

Prepared by: Alex Liya, Traffic Operations Technician

CITY OF BRAMPTON



## **Corporate Report**



Originator's files:

Date: November 18, 2015 MG.23.REP RT.10.Z-23

Meeting date:

From: Martin Powell, P. Eng.

Commissioner of Transportation and Works 2015/12/02

## Subject

To:

Parking For Restricted Period - Semenyk Court (Ward 6)

Chair and Members of General Committee

#### Recommendation

That a by-law be enacted to amend The Traffic By-law 555-00, as amended, to implement a thirty (30) minute parking limit on the east side of Semenyk Court from a point 46 metres (151 feet) south of Central Parkway West to a point 13 metres (43 feet) southerly thereof.

## Background

The Transportation and Works Department is in receipt of a request from the local Ward Councillor to implement a thirty (30) minute parking limit on the east side of Semenyk Court along the frontage of 3475 Semenyk Court.

#### Comments

Presently parking is prohibited on the west side of Semenyk Court and within the bulb of the culde-sac at the south end of the roadway. A statutory three-hour parking is permitted on the east side of Semenyk Court. The available on-street parking space in front of 3475 Semenyk Court provides parking for two vehicles.

The Transportation and Works Department can support the implementation of a thirty (30) minute parking limit for two parking spaces on the east side of Semenyk Court along the frontage of 3475 Semenyk Court. This would enable additional parking opportunities for local business customers by providing higher daily turnover at these two on-street parking spaces.

Originators files: MEG.23.REP, RT.10.Z-23

## **Financial Impact**

Costs for the signs installation can be accommodated in the 2015 Current Budget.

#### Conclusion

The Transportation and Works Department supports the implementation of a thirty (30) minute parking limit on the east side of Semenyk Court from a point 46 metres (151 feet) south of Central Parkway West to a point 13 metres (43 feet) southerly thereof.

### **Attachments**

Appendix 1: Location Map - Parking For Restricted Period - Semenyk Court (Ward 6)

Martin Powell, P. Eng.

Commissioner of Transportation and Works

Prepared by: Ouliana Drobychevskaia, Traffic Operations Technologist

# **Corporate Report**



Date:

November 18, 2015

To:

Chair and Members of General Committee

From:

Martin Powell, P. Eng.

Commissioner of Transportation and Works

Originator's files:

MG.23.REP RT.10.Z-55

Meeting date:

2015/12/2

## Subject

Lower Driveway Boulevard Parking - Black Walnut Trail (Ward 10)

#### Recommendation

That a by-law be enacted to amend The Traffic By-law 555-00, as amended, to implement lower driveway boulevard parking between the curb and sidewalk, at any time on the north, east and west side (outer circle) of Black Walnut Trail.

## **Background**

The Transportation and Works Department received a completed petition from an area resident to implement lower driveway boulevard parking on the north, east and west side (outer circle) of Black Walnut Trail between Cactus Gate (east intersection) and Terragar Boulevard. Subsequently, a request from the Ward Councillor was submitted to the Transportation and Works Department to implement lower driveway boulevard parking on the remaining section of Black Walnut Train between Terragar Boulevard and Wild Cherry Lane (east intersection). A sidewalk is present on the north, east and west side (outer circle) of the roadway and lower driveway boulevard parking between the curb and sidewalk is currently prohibited. Currently, three-hour parking is permitted on Black Walnut Trail.

#### Comments

To determine the level of support for lower driveway boulevard parking between the curb and sidewalk, a parking guestionnaire was distributed to the residents of Black Walnut Trail.

One Hundred and eighty-two (182) questionnaires were delivered and 73 (40%) were returned; 61 (84%) supported the implementation of lower driveway boulevard parking and 12 (16%) were opposed. Since greater than 66% of the total respondents support lower driveway boulevard parking, the Transportation and Works Department recommends implementing lower driveway boulevard parking between the curb and sidewalk, at any time, on the north, east and west side (outer circle) of Black Walnut Trail.

Originators files: MG.23.REP

The Ward Councillor supports the proposal for lower driveway boulevard parking. The existing three-hour on-street parking will be maintained.

## **Financial Impact**

Costs for the sign installation can be accommodated in the 2015 Current Budget

#### Conclusion

Based on the results of the questionnaire, the Transportation and Works Department supports lower driveway boulevard parking between the curb and sidewalk, at any time, on the north, east and west side (outer circle) of Black Walnut Trail.

#### **Attachments**

Appendix 1: Location Map - Lower Driveway Boulevard Parking - Black Walnut Trail (Ward 10)

Martin Powell, P. Eng.

Commissioner of Transportation and Works

Prepared by: Wasan Yonan, Traffic Operations Technician

## **Corporate Report**



Originator's files:

November 18, 2015 MG.23.REP RT.10.Z-23

To: Chair and Members of General Committee

From: Martin Powell, P. Eng.

Commissioner of Transportation and Works 2015/12/2

## Subject

Date:

School Bus Loading Zone - Ellengale Drive (Ward 6)

#### Recommendation

That a by-law be enacted to amend The Traffic By-law 555-00, as amended, to remove the existing school bus loading zone on Ellengale Drive located from a point 35 metres (115 feet) north of Chada Avenue (north intersection) to a point 75 metres (246 feet) southerly thereof.

## **Background**

In 1987, a school bus loading zone on the west side of Ellengale Drive fronting Ellengale Public School and the placement of prohibitive stopping from 8:00 a.m. to 6:00 p.m., Monday to Friday signs within the school bus loading zone were implemented. The principal at Ellengale Public School has now requested that the existing school bus loading zone on Ellengale Drive be removed as it is no longer being utilized.

The Mississauga Traffic Safety Council conducted a school site inspection at Ellengale Public School on October 8, 2015 and made the recommendation that Transportation and Works be requested to remove the existing school bus loading zone signs on Ellengale Drive.

## **Comments**

Ellengale Public School is no longer utilizing the existing school bus loading zone on Ellengale Drive. The school buses are currently loading and unloading students on school property. The Transportation and Works Department supports removing the existing school bus loading zone on Ellengale Drive.

The Ward Councillor is in support of removing the existing school bus loading zone on Ellengale Drive.

 General Committee
 2015/11/18
 2

Originators files: MG.23.REP, RT.10.Z-23

## **Financial Impact**

Not Applicable.

### Conclusion

The Transportation and Works Department recommends removing the existing school bus loading zone on Ellengale Drive located from a point 35 metres (115 feet) north of Chada Avenue (north intersection) to a point 75 metres (246 feet) southerly thereof.

#### **Attachments**

Appendix 1: Location Map - School Bus Loading Zone - Ellengale Drive (Ward 6)

Martin Powell, P. Eng.

Commissioner of Transportation and Works

Prepared by: Denna Yaunan, A.Sc.T., Traffic Operations Technician

# **Corporate Report**



Date:

November 18, 2015

To:

Chair and Members of General Committee

From:

Martin Powell, P. Eng.

Commissioner of Transportation and Works

Originator's files:

CD.06.FER, H-OZ 04/003,

H-OZ 07/005

Meeting date:

2015/12/02

## Subject

Assumption of Municipal Works (Wards 1 and 4)

#### Recommendation

That the City of Mississauga assume the municipal works as constructed by the developer under the terms
of the Servicing Agreement for CD.06.FER, Fernbrook Homes (Burnhamthorpe) Limited, (lands located
south of Highway 403, east of Hurontario Street, north of Burnhamthorpe Road East and west of Central
Parkway Drive), in Z-28 and that the Letter of Credit in the amount of \$97,087.02 be returned to the
developer.

CD.06.FER (Ward 4)

2. That the City of Mississauga assume the municipal works as constructed by the developer under the terms of the Servicing Agreement for H-OZ 04/003, Fernbrook Homes (Burnhamthorpe) Limited, (lands located south of Highway 403, east of Hurontario Street, north of Burnhamthorpe Road East and west of Central Parkway Drive), in Z-28 and that the Letter of Credit in the amount of \$165,338.18 be returned to the developer.

H-OZ 04/003 (Ward 4)

3. That the City of Mississauga assume the municipal works as constructed by the developer under the terms of the Servicing Agreement for H-OZ 07/005, F.S. Port Credit Development Limited, (lands located south of the Queen Elizabeth Way, east of Hurontario Street, north of Lakeshore Road East and west of Cawthra Road), in Z-O7 and that the Letter of Credit in the amount of \$75,477.75 be returned to the developer.

H-OZ 07/005 (Ward 1)

## **Background**

The developers identified on the attached Table of Assumptions (Appendix 1) have complied with all the requirements of the Servicing Agreement.

## Financial Impact

With the assumption of the Fernbrook Homes (Burnhamthorpe) Limited (Appendix 2) (CD.06.FER), the City will now be required to provide maintenance of 105 meters (345 feet) of storm sewer and 0.198 lane kilometers (650 feet) of roadway.

With the assumption of the Fernbrook Homes (Burnhamthorpe) Limited (Appendix 3) (H-OZ O4/003), the City will now be required to provide maintenance of 441 meters (1,447 feet) of storm sewer and 0.118 lane kilometers (387 feet) of roadway.

With the assumption of the F.S. Port Credit Development Limited (Appendix 4) (H-OZ 05/007), the City will now be required to provide maintenance of 102 meters (335 feet) of storm sewer.

#### Conclusion

It is in order for the City to assume the municipal works within the sites identified on the attached Table of Assumptions (Appendix 1).

### **Attachments**

Appendix 1: Table of Assumption.

Appendix 2: Approximate location of CD.06.FER Fernbrook (Burnhamthorpe) Ltd.

Appendix 3: Approximate location of H-OZ 04/003 Fernbrook (Burnhamthorpe) Ltd.

Appendix 4: Approximate location of H-OZ 05/007 Servicing Agreement for 1 & 33 Hurontario Street.

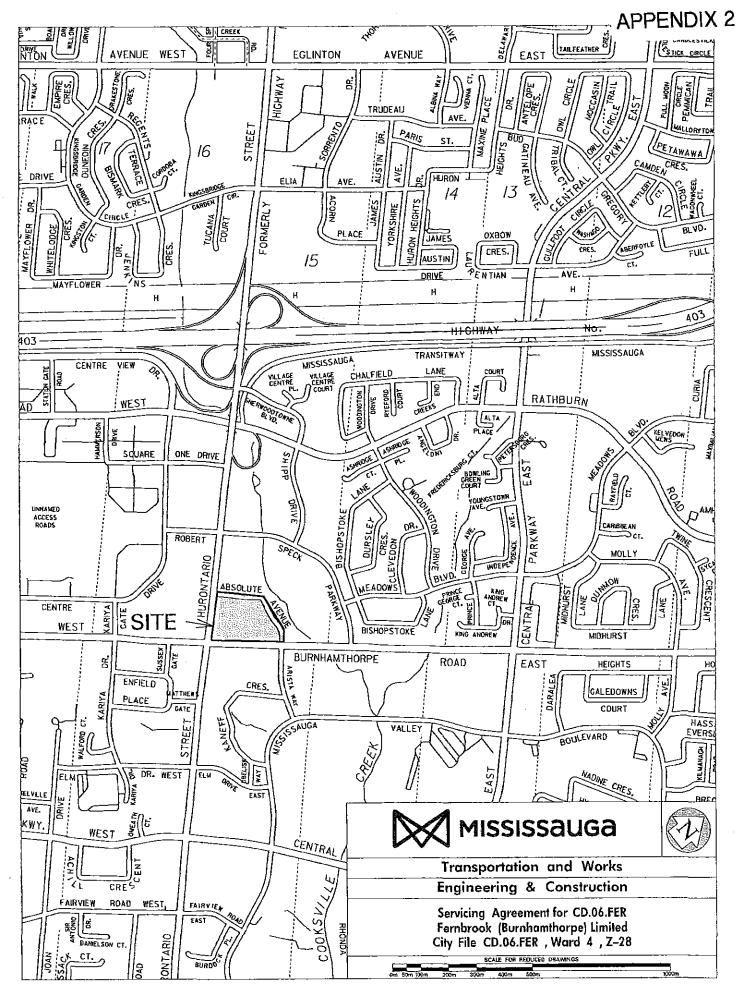
Martin Powell, P. Eng.

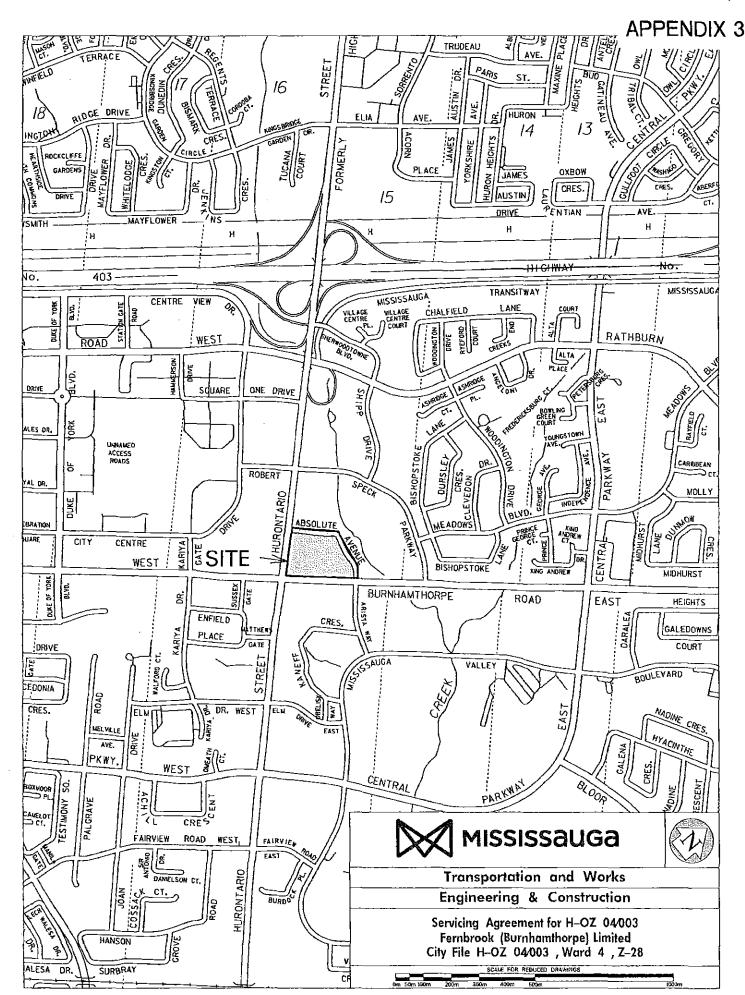
Commissioner of Transportation and Works

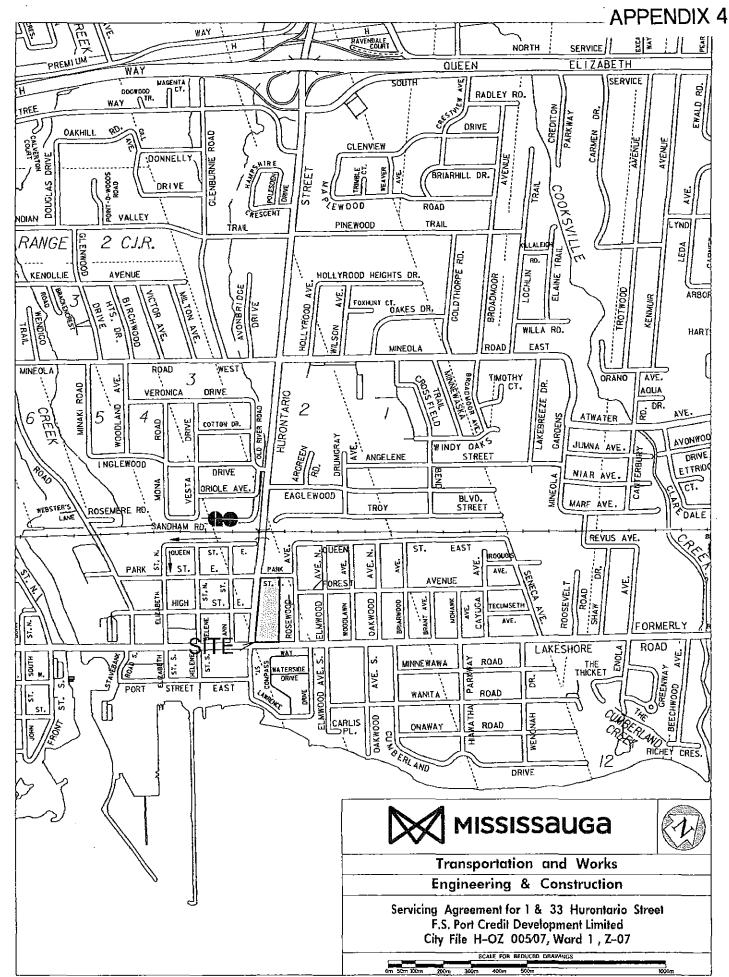
Prepared by: Donna Waters, Development Construction

## APPENDIX 1

TABLE OF ASSUMPTIONS							
PLAN/FILE REFERENCE #	LOCATION	DEVELOPER ADDRESS	SERVICING AGREEMENT DATE	SECURITIES TO BE RELEASED			
CD.06.FER	South of Highway 403, east of Hurontario Street, north of Burnhamthorpe Road East and west of Central Parkway Drive. Z-28	Fernbrook Homes (Burnhamthorpe) Limited 56 The Esplanade, Suite 308 Toronto, ON M5A 1E7 Attn: Mr. Paul Stellato	December 13, 2006	\$97,087.02 Cancel Insurance			
H-OZ 04/003	South of Highway 403, east of Hurontario Street, north of Burnhamthorpe Road East and west of Central Parkway Drive. Z-28	Fernbrook Homes (Burnhamthorpe) Limited 56 The Esplanade, Suite 308 Toronto, ON M5A 1E7 Attn: Mr. Paul Stellato	August 11, 2004	\$165,338.18 Cancel Insurance			
H-OZ 07/005	South of Queen Elizabeth Way, east of Hurontario Street, north of Lakeshore Road East and west of Cawthra Road. Z-07	F.S. Port Credit Development Limited 141 Lakeshore Road East, 2 <sup>nd</sup> Floor Mississauga, ON L5G 1E8	March 26, 2008	\$75,477.75 Cancel Insurance			







## **Corporate Report**



Date: November 19, 2015

To: Chair and Members of General Committee

From: Martin Powell, P. Eng.
Commissioner of Transportation and Works

Originator's files:

Meeting date:
2015/12/02

## Subject

MiWay Seniors One Dollar Cash Fare Off-Peak Pilot Program

#### Recommendation

That the report entitled "MiWay Senior's One Dollar Cash Fare Off-Peak Pilot Program" to General Committee dated November 18, 2015 from the Commissioner of Transportation and Works be received for information.

## **Report Highlights**

- The one dollar cash fare off-peak is currently used for 24% of senior's rides and this has been growing each week as seniors become aware of the discount program.
- Seniors have changed their fare media choice to take advantage of the discounted rate.
- The current trend also shows that there are still 42% of seniors paying the full fare (tickets) during discount times.
- MiWay senior's ridership has not shown any recognisable growth as result of the senior one dollar fare program.
- If the program continues in 2016 the MiWay revenue budget should be reduced by \$1 million to support the program costs for the full year.
- MiWay is seeking direction from General Committee as to whether the pilot program be discontinued after December 31, 2015, be extended for a period of time, or become a permanent program.

General Committee 2015/11/19 2

Originators files:

## **Background**

Following the Council Resolution 0142-2015 dated June 10, 2015 staff implemented a six month pilot program that introduced a new cash fare for seniors of one dollar per ride during off-peak hours, weekends and holidays. The pilot commenced June 29, 2015 and due to the immediate introduction, staff promptly developed a promotional program that included posters, media and outreach to seniors. In addition, a communication plan was executed internally to all staff and transit operators to ensure familiarity with the new one dollar fare pilot program.

#### Comments

The senior's one dollar ride program during off-peak hours, weekends and holidays has been in place for 5 months and overall statistics show that the usage of the one dollar fare continues to grow each week as more seniors become aware of the program. MiWay has data over a 4 month period from July to October 2015 which indicates that approximately 173,000 trips were taken using the one dollar fare. Using October 19-25 as the most recent available data, it shows that 24% of the total senior's ridership is now using the one dollar fare.

Our data also indicates that some seniors have changed fare media choice to take advantage of the discounted rate. The most significant pattern shows that there has been a growing shift from the use of senior's tickets, passes and Presto to the one dollar cash fare over the past 5 months. Senior's ticket sales have decreased by 61% when comparing the month of October 2014 to October 2015. In addition, there has been a 30% decrease in pass sales in October 2015 when comparing to October 2014.

As MiWay transitions riders to Presto there has been a growth in all categories however, since the introduction of the senior's one dollar fare that growth pattern has been impacted as seniors have chosen to use the one dollar cash fare instead. Senior's Presto use is down 22% when comparing quarter 2 to quarter 3 in 2015.

Our data shows that one in five of the seniors using the one dollar fare are riding during peak times. Almost 42% of this is within 30 minutes of the start/finish times of the off-peak and evening periods. Our transit operators have been coached not to confront but to educate seniors that the one dollar fare is for use during off-peak times (9:30am-3:30pm), evenings after 7:00pm and weekends.

A review of the senior's ridership trend based on the past 4 years indicates that it has been very steady with no significant ridership increase or decrease. Fluctuations in seniors use of the transit system are generally seasonal and weather related. MiWay senior's ridership has not shown any recognisable growth as result of the senior's one dollar fare program.

General Committee 2015/11/19 3

Originators files:

### Strategic Plan

The senior's one dollar cash fare pilot program contributes to the strategic goal of ensuring affordability and accessibility.

## Financial Impact

Statistics indicate a growing shift in the type of fare media used by seniors. A reduction in senior's tickets and Presto indicates a financial impact as seniors begin using the \$1.00 fare instead of the ticket/Presto valued at \$1.90, a loss of \$0.90 per trip. The migration away from the monthly pass to the one dollar fare is slightly less. The majority of senior pass users travel an average of 48 trips per month. Using this multiplier the loss per trip if a senior migrates from the monthly pass to the one dollar fare is \$0.18 per trip.

The bulk of seniors use tickets, Presto and monthly passes as their payment choice. A review of the cash fare payment shows it is not possible to properly assess the number of seniors who migrated to the one dollar fare. Fluctuations in the total cash payments have occurred recently due to the increase in the cash fare on April 27, 2015 from \$3.25 to \$3.50. As a result a cash fare revenue impact was not included in the overall revenue loss calculation at this time.

Therefore based on the most recent available weekly data (October 19-25, 2015) the revenue loss from the shift in use of tickets, Presto and monthly passes to the one dollar fare is estimated to be \$470,000 annually.

The current trend shows that there are still 42% of seniors paying the full fare (tickets) during discount times (off-peak weekends and holidays). These are senior riders who may still be using up their ticket stock or are not yet aware of the discount available.

Therefore, MiWay expects that the loss in revenue will increase as education and awareness of the program continues to grow. If the remaining of those seniors still using tickets during discount times were to pay the one dollar fare rate the additional loss in revenue would amount to \$533,000 annually.

In summary, the revenue loss impacted by the senior's one dollar cash fare pilot program is calculated to be \$1 million based on the following:

- \$470,000 fare media shift from tickets, Presto & monthly passes
- \$533,000 potential loss if all seniors riding during off-peak, evenings and weekend use the \$1.00 fare as they become more aware of the program

Based on above totals added together, it is recommended that should the program be made permanent, the 2016 revenue budget should be reduced by \$1 million.

The seniors' ridership pattern did not change much between September and October. This is not unexpected as seniors' ridership declines with the onset of colder weather. Extending the pilot for

Originators files:

another six months is unlikely to yield additional information as senior ridership does not pick up until May and the report in time for a June 2016 review would be based on April 2016 data.

#### Conclusion

The senior's one dollar cash off peak fare program was implemented on June 29, 2015 for a six month trial period. Results to the end of October show that the program has influenced seniors fare payment choices but has not increased total senior ridership levels. Many of senior riders are still using tickets on weekdays during discount times and on weekends and one in five of the seniors using the one dollar cash fare incorrectly during peak periods. Program use will continue to grow as more seniors become aware of the discount times. If the pilot program were to be extended beyond December 31, 2015, the MiWay revenue budget should be reduced by \$1 million which reflects the full year impact for 2016 as well as full transition from other fare media. MiWay is seeking direction from General Committee as to whether the pilot program be discontinued after December 31, 2015, be extended for a period of time, or become a permanent program.

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Martin Powell, P. Eng.

Commissioner of Transportation and Works

Prepared by: Mary-Lou Johnston, Manager Business Development - MiWay

### City of Mississauga

# **Corporate Report**



Date: November 16, 2015

To: Chair and Members of General Committee

From: Martin Powell, P. Eng.
Commissioner of Transportation and Works

Originator's files:

MG.23.REP

Meeting date:
2015/12/2

### Subject

Street Lighting Operations and Maintenance Service Agreement between the Region of Peel and the City of Mississauga

#### Recommendation

- That a by-law be enacted to authorize the Commissioner of Transportation and Works and
  the City Clerk to execute and affix the corporate seal on behalf of the The Corporation of the
  City of Mississauga to the Street Lighting Operations and Maintenance Service Agreement,
  and any ancillary document or future amendments, with the Regional Municipality of Peel in a
  form satisfactory to the City Solicitor.
- 2. That a copy of the subject report be forwarded to the Region of Peel for information.

## **Report Highlights**

- On September 26, 2013, Regional Council endorsed, in principle, the transfer of
  jurisdictional responsibilities for sidewalks, multi-use trails and street lighting on Regional
  roads from the Area municipalities, pending the development of a service delivery model
  and the preparation of the necessary service agreements.
- On May 15, 2015, Regional Council endorsed a preferred street lighting service delivery model whereby the Region would contract the operations and maintenance of street lighting on Regional roads to the Area municipalities subject to a service delivery agreement.
- A service delivery agreement outlining the responsibilities and service delivery functions
  for the management of street lighting on Regional roads within the Mississauga municipal
  boundary has been prepared and is currently being finalized with the assistance of legal
  staff. The agreement terms and conditions are modeled after the Traffic Signal Service
  Agreement executed between the Region of Peel and the City of Mississauga.

Originators files: MG.23.REP

- Under the agreement, the Region of Peel will be the jurisdictional owner of the street lighting on Regional roads and the capital related work involved, while the City of Mississauga is responsible for the day-to-day operations and maintenance on behalf of the Region.
- All operating costs, including maintenance, energy and labour, incurred by Mississauga for street lighting services on Regional roads are to be recovered from the Region.
- Regional cost sharing arrangements involving Mississauga's Light Emitting Diode (LED) Street Lighting Conversion Project are also outlined in the agreement.

### **Background**

As a result of the work by the Region of Peel 's Arterial Road Review Ad Hoc Steering Committee (ARRASC) to optimize the road network in Peel, Regional Council on September 26, 2013 endorsed, in principle, the transfer of jurisdictional responsibilities for sidewalks, multi-use trails and street lighting within the Regional road allowance from the Area municipalities of Mississauga, Brampton and Caledon to the Region of Peel, pending the development of a service delivery model and the preparation of the necessary service agreements.

To facilitate the street lighting transfer process, a working group consisting of staff from the Region of Peel, the City of Mississauga, the City of Brampton and the Town of Caledon was formed to identify and evaluate several service delivery options for street lighting on Regional roads.

At the ARRASC meeting of March 17, 2014, the preferred service delivery model was presented whereby the Region would contract the operations and maintenance of street lighting on Regional roads to the Area municipalities by way of a service delivery agreement.

On May 15, 2015, Regional Council endorsed the recommendations as set out in the report dated May 6, 2014 from the Regional Commissioner of Public Works entitled, "Street Lighting Service Delivery Model on Regional Roads", that the service delivery model for the operations and maintenance of street lighting on Regional Roads be provided by the Area municipalities by way of a service delivery agreement with each municipality, and that the Regional Commissioner of Public Works be authorized to execute a street lighting service delivery agreement with each of the Area municipalities subject to the terms set out in the report and subject to the satisfaction of the Regional Solicitor.

#### Comments

Mississauga has reviewed the impacts of the proposed transfer of responsibilities for street lighting within the Regional road allowance. Several factors, including the amount of infrastructure, service levels and financial capital and operating costs, were taken into consideration.

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Originators files: MG.23.REP

An agreement outlining the responsibilities and service delivery functions for the operations and maintenance of street lighting on Regional roads within the Mississauga municipal boundary has been prepared between the Region of Peel and Mississauga and is currently being finalized.

Mississauga would be responsible for the operations and maintenance of street lighting on Regional roads within its municipal boundary on behalf of the Region, and the Region would be responsible for the capital related street lighting works on Regional roads.

The agreement outlines the service delivery elements involving the operations and maintenance of street lighting and includes the following elements:

- Region's responsibilities on the capital design and construction of street lighting
- City's responsibilities on the operation and maintenance of street lighting
- City's responsibilities on the street lighting monitoring system
- Cost sharing and invoicing arrangements
- Performance metrics
- Legal and liability terms

The agreement accounts for the Region's cost share involvement with the implementation of the City's Light Emitting Diode (LED) Street Lighting Conversion Project.

Performance measures (service levels) have been identified and included in the agreement to ensure that the services delivered by Mississauga meet the Region's expectations, and include the following:

- Response time for complaints and inquiries regarding the operations of street lighting
- Turn-around time for street lighting inquiries and legal letters regarding street lighting operations
- Quarterly summaries on the health of the street lighting network

The agreement clearly outlines the roles and responsibilities of each of the parties as well as their legal obligations. As part of the jurisdictional transfer, the Region would receive ownership of the street lighting on Regional roads and the capital related works involved, and Mississauga would carry out the day-to-day operations and maintenance, on behalf of the Region, through its street lighting service provider, Enersource Power Services Inc.

Standard indemnification clauses have been included in the agreement to ensure that legal standards are met and maintained. The term of the agreement would be for a period of ten (10) years.

Originators files: MG.23.REP

The agreement has been prepared in conjunction with Regional and City staff including each party's respective legal counsel.

### Financial Impact

A financial review of the associated costs attributed to the transfer of responsibilities for street lighting within Regional roads has been undertaken.

#### **Operating Costs:**

With Mississauga being the service provider, the Region is responsible for its share of annual operating costs associated with street lighting on Regional roads. The following estimated 2016 street lighting operating costs are provided:

Street Lighting Operating Item	2016 Estimated Operating Costs	2016 Estimated Regional Cost Share	Comments *
Maintenance	\$1,650,000	\$117,645	Prorated Portion
Monitoring System	\$40,000	\$2,852	Prorated Portion
Energy / Hydro	\$3,877,053	\$328,464	Actual Costs
Labour	\$235,600	\$16,798	Prorated Portion
Equipment	\$3,000	\$214	Prorated Portion
Total:	\$5,805,653	\$465,973	

\* The prorated portion used to calculate the Region's cost share is based on the difference between the number of Regional luminaires within the City (3,556 as of December 2014) and the number of overall luminaires within the City (49,860 as of December 2014).

Based on the operating cost provisions in the agreement, the estimated 2016 Regional cost share for street lighting is \$465,973. Allowances for such recoveries from the Region are proposed in the City's 2016 operating budget under the Street Lighting Program and will be provided annually in future years.

#### **Capital Costs:**

All future capital costs on Regional roads relating to street lighting will belong to the Region of Peel and are to be determined and budgeted accordingly by the Region.

 General Committee
 2015/11/16
 5

Originators files: MG.23.REP

With respect to the City's LED Street Lighting Conversion Project, The Region of Peel will pay for its cost share of the project which is estimated at approximately \$2.75 million based on 3,556 Regional street lights (as of December 2014). This cost could vary based on the actual quantities installed and on the proportion of the Ontario Power Authority rebates applied.

#### Conclusion

It is recommended that Mississauga enter into the Street Lighting Operations and Maintenance Service Agreement with the Region of Peel for the purpose of providing operation and maintenance management of street lighting on Regional roads within Mississauga's municipal boundary.

Martin Powell, P. Eng.

Commissioner of Transportation and Works

Prepared by: Al Sousa, P. Eng., Manager, Traffic Engineering and Operations

## City of Mississauga

# **Corporate Report**



Date: November 9, 2015

To: Chair and Members of General Committee

From: Martin Powell, P. Eng.
Commissioner of Transportation and Works

Originator's files:

MG.23.REP

Meeting date:
2015/12/2

### Subject

Single Source Contract Award to Enersource Power Services Inc. and Enersource Corporation for the Provision of Street Lighting Services (Procurement FA.49.627-15)

#### Recommendation

- That Enersource Power Services Inc. (EPS) and Enersource Corporation (EC) be designated as single source vendor for the provision of street lighting services for an initial 5-year term from January 1, 2016 to December 31, 2020 with the option to renew for a further 5-year term from January 1, 2021 to December 31, 2025.
- 2. That the Purchasing Agent be authorized to execute an agreement with EPS and EC for the provision of street lighting services including:
  - a) Operation and maintenance services in the estimated amount of \$8,500,000 (excluding tax) based on an initial 5-year term from January 1, 2016 to December 31, 2020 subject to annual budget approval by Council.
  - b) Capital services in the estimated amount of \$4,950,000.00 (excluding tax) for various street lighting projects (including Design and Engineering Services, Capital Programs and Special Services) based on an initial 5-year term from January 1, 2016 to December 31, 2020 subject to annual budget approval by Council.
- 3. That the Purchasing Agent be authorized to negotiate and execute amendments to the agreement for operation services and capital services where necessary to accommodate growth, inflation and extraordinary adjustments for which funding is approved in the budget.

Originators files: MG.23.REP

## **Report Highlights**

- The City of Mississauga currently has an agreement with Enersource Power Services Inc. (EPS), formerly Enersource Hydro Mississauga Services Inc. (EHMS) for the provision of street lighting services that expires on December 31, 2015.
- Council authorized staff to negotiate a new agreement with EPS for the provision of street lighting services that will update service provisions affected by the LED Street Lighting Conversion Project.
- The new agreement reached with EPS incorporates a number of improvements that helps streamline administration, contain costs, improve management control, enhance operational efficiency and achieve a higher level of accountability.
- With these improvements, the City will enter into a long-term contract with EPS for the
  provision of street lighting services that is mutually beneficial and continues to allow the
  City to get the most value from this service on a consistent and reliable basis.

### Background

On November 26, 2008, City Council authorized the Purchasing Agent to execute the contract binding the City to a single source agreement with Enersource Hydro Mississauga Services Inc. (EHMS) for the provision of street lighting services. The agreement was for an initial 5-year term from January 1, 2009 to December 31, 2013 with an option to renew for a further 5 years exercisable by the City.

On June 20, 2012, City Council authorized the Commissioner of Transportation and Works to notify EMHS that the City will not renew the agreement for an additional 5-year renewal term, and to negotiate a new agreement with EMHS for a new 5-year term for the provision of street lighting services.

As both City and EHMS staff have been engaged in ongoing discussions towards negotiating a new agreement and the City continues with implementation of its LED Street Lighting Conversion Project, a number of transition issues arose that impacts future operation and maintenance services.

In order to gain a better understanding of these issues and to provide staff sufficient time to assess and develop service adjustments for the new agreement, City Council on November 20, 2013 authorized the Purchasing Agent to extend the current agreement with EHMS for a 2-year period from January 1, 2014 to December 31, 2015 and to execute an amending agreement to extend the provisions of the current agreement.

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Originators files: MG.23.REP

In accordance with Council's direction, staff from Transportation and Works, Legislative Services and Materiel Management entered into negotiations with EHMS to achieve a new single source agreement for the provision of street lighting services.

#### Present Status

Earlier this year, Enersource Hydro Mississauga Services Inc. (EHMS) changed their corporate name to Enersource Power Services Inc. (EPS). EPS continues to operate as a subsidiary of Enersource Corporation.

The City of Mississauga has a current contractual agreement with EPS for all work related to the design, installation, operation and overall maintenance of the City's street lighting network. EPS provides the City with a seamless end-to-end service delivery, while the City is responsible for street lighting night patrols and contract administration.

This report seeks authority for the Purchasing Agent to execute a single source agreement with EPS and EC for the provision of Street Lighting Services for a 5-year term from January 1, 2016 to December 31, 2020 with estimated operating and capital service costs as per the recommendations herein, subject to budget approval.

#### Comments

The City has always exclusively retained EPS as the primary service provider for street lighting services.

Under the new agreement, the following services will continue to be delivered by EPS:

#### 1. Design and Engineering Services

EPS shall be responsible to provide design and engineering services necessary for all street lighting structures and facilities required by the City in preparation for construction of street lighting capital projects. These services include development of design drawings, circulation of designs for review and approval, and preparation of tender documents.

The City will pay EPS for design and engineering services on a quotation fee basis for each project, and will review and accept the quotation from EPS prior to commencement. Funding will be available from approved annual Street Lighting Capital Program budgets.

#### 2. Street Lighting Development Review Services

EPS shall be required to review and comment on street lighting designs associated with developments. The street lighting development review services also includes periodic inspection during installation of street lighting plant to ensure quality of installation and

Originators files: MG.23.REP

compliance with standards. EPS shall be responsible for collecting payments for such services from the developers involved.

 Construction, Spot Improvements and System Upgrade Services (Street Lighting Capital Project Services)

EPS shall be responsible for carrying out all field work related to the Street Lighting Capital Program on behalf of the City, including both aboveground and underground work, via a competitive bid process in consultation with the City. With the City's approval, a subcontractor will be selected for all underground capital work based on the lowest qualified bid. EPS will have the option to undertake up to 100% of the aboveground capital work directly and will be paid no more than the lowest qualified rates obtained through the bidding process. The City will pay EPS based on actual capital project costs, plus a 15% fee for contract administration, field supervision and inspection. Funding will be available from approved annual Street Lighting Capital Program budgets.

#### 4. Operation and Maintenance Services

EPS shall be responsible to carry out the following operation and maintenance services involving the street lighting system:

- Handling and resolving all inquiries and complaints from the general public, the City,
   EPS's Call Centre or through the Street Lighting Monitoring System in respect of street lighting issues;
- Repairs to the street lighting system that are required to restore the City's street lights to proper operational status within established response times;
- Immediate response to system failures such as power outages caused by City street lighting equipment breakdowns;
- Underground cable locating services associated with the City's street lighting system.

Under this agreement, the City will pay EPS an annual fixed fee of \$1,600,000 (excluding tax) for all operation and maintenance services for 2016. The fee for operation and maintenance services for subsequent years will be adjusted annually for growth and inflation.

An annual fixed fee model for operation and maintenance services provides several benefits to the City over a unit rate fee contract for this service such as better cost containment, improved overall management of costs and streamlined processes for invoicing, payment and performance monitoring. To ensure the City continues to get good value for money using an annual fixed fee model, the City must ensure that expected services standards are being effectively achieved. To this end, the agreement incorporates several provisions to protect the City's interest and to provide an acceptable level of service performance. These

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Originators files: MG.23.REP

provisions include regular reporting requirements, operational inspections and audits, and performance criteria that could result in penalties if not achieved consistently.

The LED Street Lighting Conversion Project has brought about a number of operation and maintenance service adjustments. Transitional issues involving the integration of the new Street Lighting Monitoring Systems into EPS's Call Centre, and the requirements and responsibilities associated with LED product inventory, warranty, programming and commissioning between the City and EPS have been assessed and adjusted. The new LED's have reduced the service requirements and, in turn, have reduced the operation and maintenance service costs by 50%.

#### 5. Special Services

For services related to unanticipated street lighting works that fall outside of the scope of this agreement, such as BIA lighting, infrastructure and energy conservation technology developments, etc., the agreement allows both the City and EPS to negotiate in good faith to determine the additional fees to be paid. Funding will be available from approved annual Street Lighting Capital Program budgets.

The new agreement provides a turnkey solution that includes design, construction and maintenance of the City's street lighting network. It allows EPS to optimize the use of resources, improve overall performance of the system, and find efficiencies in their process and work practices that results in lower operating costs and savings to the City for the Street Lighting Program.

The new agreement includes provisions that allow for a review of the fees paid to EPS for operation and maintenance services if there are changes in applicable legislation or other events outside of either party's control, changes in technology or materials used in the street lighting system, or changes to the City's service standards. Should Council wish to adjust future service standards for street lighting, the provisions will allow flexibility to renegotiate fees accordingly.

The new agreement allows EPS to continue work with the City to evaluate future street lighting innovations as well as the potential impact to traffic safety, lighting standards, capital planning, and operational processes and procedures. The agreement is flexible to adapt to these potential changes to the Street Lighting Program over time.

Operational service details are included in the schedules to the agreement and can be adjusted to reflect changing operational processes with the approval of the Commissioner of Transportation and Works and EPS's authorized agent.

Originators files: MG.23.REP

The agreement allows EPS or the City to end the contract by either party provided that eighteen (18) months' notice is given. The agreement may also be terminated for default.

EPS is required to provide a form of financial security acceptable to the City if the City no longer controls EPS's parent company, Enersource Corporation, or for the 18 month notice period should EPS discontinue the street lighting service. In addition, the appropriate insurance and indemnity provisions are provided in the agreement.

All works and construction governed by the agreement are warranted by EPS for a period of twelve (12) months.

The recommendations in this report are made in accordance with Schedule A of the Purchasing By-law #374-2006, item 1 (b) (viii) which states that the single source procurement method may be applied if, "It is advantageous to the City to acquire the Goods and/or Services directly from another Public Body or public service body".

### Financial Impact

Under the current contract agreement, the following annual operation and maintenance service fees have been paid by the City:

Year	Annual Operation and Maintenance Fee (excl. tax)	Extraordinary Adjustment	Inflation / Growth
2009	\$2,200,000.00	***	
2010	\$2,281,818.03		+ 3.72%
2011	\$2,364,542,48		+ 3.63%
2012	\$2,444,288.00		+ 3.37%
2013	\$2,212,932.15	- 12.0 %	+ 2.88%
2014	\$1,990,829.88	- 13.0 %	+3.41%
2015	\$1,782,859.87	- 12.5 %	+ 2.35%

With the implementation of the LED Street Lighting Conversion Project starting in 2013, operation and maintenance service fees in 2013, 2014 and 2015 have reduced after taking into account service reduction adjustments and increases due to inflation and growth as per the agreement provisions.

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Originators files: MG.23.REP

For the proposed new agreement, the City will commence paying EPS an annual fixed fee of \$1,600,000 (excluding. tax) for all operation and maintenance services in 2016. This fee includes a 12.5% reduction from the 2015 fee as a result of further service reduction adjustments associated with the LED Street Lighting Conversion Project, and includes an allowance for inflation and growth. The proposed operating budget for street lighting maintenance services in 2016 is \$1,650,000 (Account No. 1-715465-23922).

For the subsequent years under the new agreement, fee increases due to inflation and growth will continue to apply each year. For the 5-year contract, the operating contract upset limit is estimated at \$8,500,000 and is subject to the annual Street Lighting Operating budget approval by Council (refer to Appendix 1).

With respect to the capital street lighting contract costs involved, the 5-year capital contract upset limit is estimated at \$4,950,000 and is subject to the annual Street Lighting Capital budget approval by Council (refer to Appendix 1).

#### Conclusion

Council directed City staff to negotiate with EPS a new long-term agreement for the provision of street lighting services. Negotiations were conducted and a new agreement has been reached that provides appropriate protection for the City and incorporates updated service provisions associated with the LED Street Lighting Conversion Project.

The new agreement will allow the City to enter into a 5-year term contract with EPS for the provision of street lighting services that is mutually beneficial and continues to provide the City with the most value for this service on a consistent and reliable basis.

## **Attachments**

Appendix 1: 5-Year Street Lighting Contract Upset Limit Estimates

Martin Powell, P. Eng.

Commissioner of Transportation and Works

Prepared by: Al Sousa, P.Eng., Manager, Traffic Engineering and Operations

# 6.129

#### APPENDIX 1: 5-YEAR STREET LIGHTING CONTRACT UPSET LIMIT ESTIMATES

#### A. <u>5-Year Street Lighting Operating Contract Upset Limit Estimate</u>

Year	Estimated Operating Contract Upset Limit (Excl. tax) *	Proposed Operational Budget (1-715465-23922)
2016	\$1,600,000	\$1,650,000
2017	\$1,650,000	\$1,700,000
2018	\$1,700,000	\$1,750,000
2019	\$1,750,000	\$1,800,000
2020	\$1,800,000	\$1,850,000
TOTAL	\$8 FOO OOO	\$9.7E0.000

TOTAL:

\$8,500,000

\$8,750,000

#### B. <u>5-Year Street Lighting Capital Contract Upset Limit Estimate</u>

Year	Estimated Capital Contract Upset Limit (Excl. tax)	Proposed Capital Budget
2016	\$1,275,000	\$1,300,000
2017	\$1,275,000	\$1,300,000
2018	\$880,000	\$900,000
2019	\$880,000	\$900,000
2020	\$880,000	\$900,000

TOTAL:

\$4,950,000

\$5,300,000

<sup>\*</sup> Annual Inflation/Growth allowance of 3.0% is estimated

### City of Mississauga

## **Corporate Report**



Date: November 9, 2015

To: Chair and Members of General Committee

From: Gary Kent, Commissioner of Corporate Services and Chief Financial Officer

Originator's files:

PO.11.BEE

Meeting date:

2015/12/02

### Subject

Proposed closure of part of public road and Surplus Land Declaration - City-Owned lands on Beechwood Avenue between 916 and 928 Beechwood Avenue (Ward 1)

#### Recommendation

- 1. That a by-law be enacted authorizing the closure of part of public road on Beechwood Avenue, south of Lakeshore Road East, west of Cawthra Road containing an area approximately 766 square metres (8,245 square feet), legally described as Unnamed Street, Plan C19, between Lots 11 and 12, on a Plan of Subdivision of Lot 11, Conc. 3, South of Dundas Street deposited at the Land Registry Office for the Land Titles Division of Peel (No. 43) as Plan C19, in the City of Mississauga, Regional Municipality of Peel, in Ward 1.
- 2. That the City lands described as Unnamed Street, Plan C19, between Lots 11 and 12, Plan C19, be declared surplus to the City's requirements.
- 3. That Realty Services staff be authorized to proceed to dispose of the subject lands to be declared surplus, at fair market value.
- 4. That all steps necessary to comply with the requirements of Section 2.(1) of City Notice By-law 215-08 be taken, including giving notice to the public by posting a notice on the City of Mississauga's website for a two week period, whereby the expiry of the two week period will be at least one week prior to the execution of an agreement for the sale of the subject lands under Delegated Authority.

## Background

The subject lands fronting on Beechwood Avenue, legally described as Unnamed Street, Plan C19, between Lots 11 and 12, Plan C19 and containing an area of approximately 766 square meters (8,245 square feet) were identified as an unnamed road on Plan C19 registered in 1919.

General Committee 2015/11/09 2

Originators files PO.11.BEE

Transportation and Works staff advise that the lands have never been used as a public road, are no longer required and may be declared surplus.

Region of Peel staff advise that there is a 900mm sanitary sewer within the subject property and require easement protection. Easement protection is also required for the City's storm sewer.

#### Comments

Realty Services has completed its circulation and has received confirmation from all City departments that they have no objection to the subject lands being declared surplus for the purpose of a potential sale on the open market.

If and when an Offer to Purchase is received that Realty Services is willing to recommend for acceptance, a Corporate Report will be presented to Council seeking approval. If the sale of the subject lands is less than \$500,000 which is within the limit under Real Estate Delegation Authority By-Law 0375-2008, execution of the Agreement of Purchase and Sale and all ancillary documents or agreements will be authorized by the said by-law.

### **Financial Impact**

The sale of the lands on Beechwood Avenue will generate revenue for the City to be credited to the Capital Reserve Fund and reduce the potential for maintenance and liability concerns.

#### Conclusion

The subject lands that are part of the public road are not required for municipal purposes and should be permanently closed. It is reasonable to declare the City's closed public road lands surplus and offer them for sale at fair market value on the open market. The disposal of the subject lands will be subject to an easement in favour of the Region of Peel, the City of Mississauga and any additional easement protection that may be required.

#### **Attachments**

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Appendix 1: Approximate location of the proposed lands to be declared surplus (PO.11.BEE)

Appendix 2: Copy of Plan of Subdivision of Lot 11, Conc. 3, South of Dundas Street, deposited at the Land

Registry Office for the Land Titles Division of Peel (No. 43) at Plan C19

Gary Kent, Commissioner of Corporate Services and Chief Financial Officer

Prepared by: Susy Costa, Project Leader

Appendix 1

MISSISSAUGA Corporate Services **Realty Services** Beechwood Avenue between 916-928 Beechwood Ave. Approximate location of the Lands Surplus Land Declaration- City Owned Lands SCALE FOR REDUCED DRAWINGS This is not a Plan of Survey

OWNERS CERTIFICATE PLAN OF SUBDIVISION OF and Blacks coloured rad and streets coloured NOTE: The Bern placed where shim States pleased whom these LOTIL CON 3-SOUTHORDUNDAS ST brown hereon we find out scentiling to inchest Green lines and Typeres rates Hull Buttale to original Township Let 11 TOWNSHIP OF TORONTO at we Wald Scoler Bestalla TORONTO HAMILTON NOTHE HIGHWAY MICRITARRES GERTINGATE & the services of the services of this plan polar picket, as Restly as Reserved 1 39 7 FOT 66 BLOCK A 62 66 58 50 61 62 BLOCK B 5.5 206 County of facility Albert Edward Reufy 83 103 A of the Collet of French Conferred that with and page 73 76 74 80 79 78 50 205 34 11 ٠. 51 204 E That I are someonally present and dat see this stem staly inscribed to furthern the school of the sent special of the sent of the sent special o FOURTH MATTER, 501 · 🖛 203 2. That I know the world wart of ر برو و که 85 8 30 202 com pains as at the Call 100 of Hornorchis 85 2 00 BS 90 9/ 32 9.7 ěě Ë 201 16 48 Relify 129-2 100's 87 ... 100 GRESC1 200 -47 on the pair of me Land, 1869 growieloth 134 135 101 10 106 105 111 119 109 100 101 199 46 a Course 11 102 15 198 On behalf of the Manipolity of the Township of Township we town you were at the 1984 The Township of 25 135 L THIRD NOTH 187 57 A 300 48 W 45 196 On behalf of the Maierpathy of the tilege of Post Great we hereby oppose of the form 12 بعرفين 195 122 126 129 13 115 1.74 130 10 190 118 732 136 135 138 137 134 0 122 .22 119 .... of of 197 38 17 SECONO MITTE 57 @ 310 Hon ocks erry 150 17 -133 18 155 183 35 10 14.7 143 150 151 152 153 143 188 35 80 SURVEYORS CERTIFICATE
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### City of Mississauga

# **Corporate Report**



Date: November 10, 2015

To: Chair and Members of General Committee

From: Gary Kent, Commissioner of Corporate Services and Chief Financial Officer

Originator's files:

Meeting date:
2015/12/02

### Subject

City Standards for IT Systems and Acquisition of Support and Maintenance Services for Standard Systems (File Ref: FA.49.647-15)

#### Recommendation

- That the updated City Standards for IT Systems as listed in Appendix 1 of the report dated November 10, 2015 from the Commissioner of Corporate Services and Chief Financial Officer entitled City Standards for IT Systems and Acquisition of Support and Maintenance Services for Standard Systems, be approved.
- 2. That the Purchasing Agent be authorized to negotiate and execute agreements to cover 2016 annual support and maintenance for City Standard IT Systems which have been approved as Standards as set out in Appendices 1 and 2 attached to this report, where the estimated cost may exceed \$100,000.

### **Background**

The Purchasing By-law 374-06, as amended, provides for the establishment of "City Standards", which is defined as "Specific goods approved by Council that best fill a long-term City-wide need or requirement".

This report updates Council on the changes in City Standards proposed for 2016 and requests Council approval.

The Purchasing By-law also requires Council approval for single source procurements of support and maintenance services for the 2016 City Standards which may exceed \$100,000 during the year.

General Committee 2015/11/10 2

#### Comments

Information Technology follows standard processes for procuring Software and IT Maintenance through a balance of competitive procurements and renewals.

Approximately 13 IT applications have negotiated contracts in place and removed from the City Standards List for IT Systems. These are primarily the major applications that support City Operations such as "Bell Canada" (eCity portal hosting fees, E-recruit, licensing and transaction fees, T1 Megalink, IF-L Business Lines, and Mobile Device Management), "GIRO" (Hastus transit bus scheduling system), and "Questica" (Integrated Budgeting System).

#### City Standards for IT Systems

Appendix 1 identifies the systems which are required in 2016 to maintain operations. Continued use of Information Technology Standards is required to ensure business continuity and is a best practice in industry. These are primarily the smaller systems that will go through a renewal or replacement in the coming years.

#### Support and Maintenance Purchases required in 2016

Appendix 2 lists the planned procurements for services needed to support and maintain Standards for 2016 where the estimated support and maintenance costs exceed \$100,000. Amounts shown are based on historical spend amounts and are included in the IT Division budget for this purpose.

## **Financial Impact**

The required annual support and maintenance costs for the City Standard IT systems are included in the IT operating budget in 2016.

The proposed IT Maintenance Budget for 2016 is \$4.54 million and covers the ongoing and growth related cost of all IT Software Maintenance including the Standards in Appendix 1 and 2.

#### Conclusion

IT Standards are established to ensure in year maintenance can be paid for smaller systems and for any system where contract renewals are in progress. IT procures systems and establishes Maintenance and Support agreements through a combination of competitive procurements and renewals.

Various IT Systems have become essential to City services and operations and have been designated by Council as City Standards. In accordance with the Purchasing By-law (374-06), purchase contracts with the suppliers of these Standards are executed on a single/sole source basis. Staff in IT and Materiel Management will negotiate agreement terms and all commitments are reviewed by Legal Services.

This report recommends that the Purchasing Agent be authorized to purchase support and maintenance for the 2016 City Standards as set out in Appendices 1 and 2 attached to this report.

General Committee 2015/11/10

#### **Attachments**

Appendix 1: Refresh of City Standards for IT Systems List

Appendix 2: IT Systems Designated as City Standards for which the 2016 support and

maintenance is valued at \$100,000 or more

G. Kent.

Gary Kent, Commissioner of Corporate Services and Chief Financial Officer

Prepared by: Shawn Slack, Director, Information Technology and Chief Information Officer

## Refresh of City Standards for IT Systems List

No.	IT Systems' Vendors	Description
1	Admin Studio (Flexera)	Maintenance and support of Admin Studio Software used to create and maintain computer packages deployed to City desktop computers
2	Ahearn and Soper	Maintenance and licensing of the Vehicle Business Photo system used in Transportation and Works Mobile Licensing Enforcement section
3	Belden IBDN Copper Systems	Structured copper wire computer and telephony cabling system used throughout all City facilities
4	Bit9 (Accuvant)	Maintenance and support for security software for servers and workstations
5	Blackberry Ltd.	Maintenance and licensing of the Blackberry Enterprise Server used by all City departments for email connectivity with Blackberry devices
6	Brightcove	Maintenance and support of video streaming for Council Chambers
7	Coencorp Consultant Corp.	Maintenance, licensing and support for the Transit Fuel Management System hardware and software used by Mississauga Transit.
8	Commvault Systems Canada Inc. (CDW)	Maintenance and licensing of the City enterprise data backup and recovery system
9	Deep Freeze (Faronics)	Maintenance and licensing of Deep Freeze PC software used for the Public Library patron walk-up PC's
10	Garival	Maintenance and licensing of the Transit Farebox system hardware and software used by Mississauga Transit
11	GeoTrust	Public SSL Certificates for mississauga.ca addresses.
12	Global System Solutions	Maintenance and support of Apple computers used in various City departments
13	Globe POS	Maintenance and licensing of the point of sale system used at the cashier's counter at City Hall
14	Google	Maintenance and support for the Google search appliance used to search data on City web site
15	Google Maps API (Veriday)	Maintenance and licensing of software required for Cultural mapping and websites and apps that use Google Maps

## Appendix 1

16	Greybar	Miscellaneous cables, wall plates, adapters and network accessories.
17	Intergraph	Maintenance and licensing of the Intergraph Geomedia software used by Transportation and Works Geomatics section
18	Intraprint	Maintenance and licensing of the print management system used by the City print shop
19	Iron Mountain	Escrow Services for various IT systems
20	ITC	Maintenance and licensing of the print management system used by Library patrons
21	McAfee Inc. (Information Systems Architects)	Maintenance and licensing of McAfee intrusion protection system and virus protection of City PCs and servers
22	Messageware	Maintenance and support of security software for Outlook Web App
23	Methodicall	Maintenance and licensing of the long distance reporting system used to track long distance calling through the City Cisco telephone system
24	MicroPeer Solutions Inc.	Fiber Channel and Network Optic modules for SAN and Network connectivity.
25	Mobile Business	Maintenance and repair of non-emergency department radios
26	Nordat	Maintenance and licensing of freedom of information software used by Clerk's department
27	Ontolica (Surfray)	Enterprise search engine for City Share Point sites to provide quick and accurate search results
28	Open Text	Maintenance and licensing of the Hummingbird software to access the ICON. Provincial Court system used by Corporate Services Court Administration staff
29	Oracle	Maintenance and licensing of the Oracle database software used by Information Technology systems including TAX and MAX
30	Orderline	Maintenance and licensing for maintaining the Mississauga Zoning By-law
31	QRX Technologies	LTO Tapes for long time backup enterprise storage.
32	SAP Canada Inc.	Maintenance and licensing of the SAP financial and HR management system and Business Intelligence used by all City departments
33	Sillworks	HP out of warranty repair parts required for systems that cannot yet be decommissioned.

## Appendix 1

34	Thycotic	Web-based password management software for securely storing and sharing passwords.
35	Trapeze Software Group, Inc.	Maintenance and support for Transit route software to manage City public transit operations.
36	Verisign	Licensing of software security certificates used to ensure secure data transport in Information Technology systems
37	WellNet	Maintenance and support of the City material safety data sheets used in all City departments
38	Winshuttle	Maintenance and licensing of Winshuttle application used for the transfer of Excel/Access Spreadsheet data to and from SAP

IT Systems designated as City Standards for which the 2016 support and maintenance is valued at \$100,000 or more

Vendor	Description	2016
		Budget
Trapeze	Maintenance and support for Transit route software	\$575,000
Software	to manage City public transit operations.	
Group, Inc.		
SAP	Maintenance and licensing of the SAP financial and	\$390,800
Canada	HR management system and Business Intelligence	
Inc.	used by all City departments	
Oracle	Maintenance and licensing of the Oracle database	\$129,000
	software used by Information Technology systems	
	including TAX and MAX	
Commvault	Maintenance and licensing of the City enterprise	\$100,000
Systems	data backup and recovery system	
Canada		
Inc.		
(CDW)		

## City of Mississauga

## **Corporate Report**



Date: November 18, 2015

To: Chair and Members of General Committee

From: Gary Kent, Commissioner of Corporate Services and Chief Financial Officer

Originator's files:

Meeting date:

2015/12/02

## Subject

2015 Third Quarter Financial Update

#### Recommendation

- 1. That the "2015 Third Quarter Financial Update" report dated November 18, 2015, from the Commissioner of Corporate Services and Chief Financial Officer, including appendices 1 to 3, be approved.
- 2. That up to \$88,616 of the year-end surplus be approved for transfer to the Operating Budget Reserve (Account #305145).
- 3. That the necessary by-laws be enacted.

## Report Highlights

• Operating Summary

As of September 30, 2015, the City is forecasting a year-end surplus of \$11.1 million. This represents 1.6% of the City's gross budget of \$694.8 million.

The surplus consists of \$5.8 million gapping in labour, \$5.5 million savings in Other Operating expenses, a revenue surplus of \$3.2 million, and a forecasted reduced draw of \$3.4 million from the Provincial Gas Tax Reserve Fund.

• This report details Operating Budget Reserve Requests totalling \$88,616 for 2015 that will be spent in 2016.

## **Background**

In accordance with the Budget Control and Reserve and Reserve Fund By-laws, the Finance Division provides Council with a review of the City's financial position a minimum of two times a year. This report covers information related to the Operating Program.

On February 11, 2015, Council approved a net operating budget of \$412.9 million for 2015.

#### Comments

This report summarizes:

Part 1 - Operating Forecast

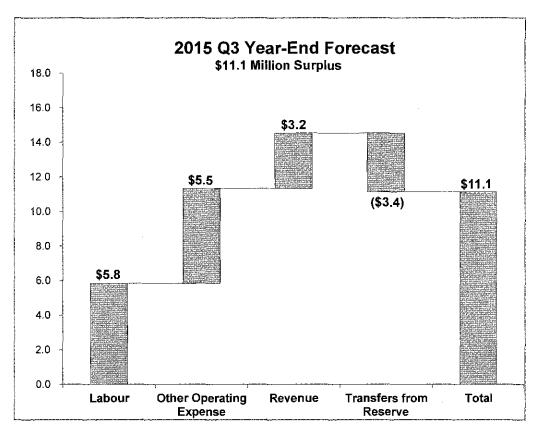
Part 2 - Operating Budget Reserve Requests

Part 3 - Operating Budget Adjustments

#### PART 1: OPERATING FORECAST

Based on actual results at September 30, 2015, staff forecast that the City will end the year with a surplus of \$11.1 million or 1.6% of the gross budget. The following chart is the operating summary by service area. Details are provided in Appendix 1, Operating Forecast Details by Service Area.

Service Area (\$:Millions)	Net Budget	Year End Forecast	Forecasted Year End Variance \$ Surplus/(Deficit)
Fire and Emergency Services	97.4	97.2	0.2
Roads, Storm Drainage and Watercourses	71.6	69.2	2.4
MiWay	61.7	61.8	(0.0)
Parks and Forestry	31.2	30.7	0.5
Mississauga Library	25.0	24.3	0.8
Business Services	25.6	25.8	(0.2)
Facilities and Property Management	20.0	19.5	0.5
Recreation	21.9	21.4	0.5
Information Technology	20.6	21.1	(0.4)
Strategic Policy	12.5	12.9	(0.4)
Land Development Services	8.0	7.8	0.3
Arts and Culture	7.1	6.9	0.2
Mayor & Council	4.7	4.7	0.0
Regulatory Services	1.2	0.2	1.0
Legislative Services	(3.3)	(4.0)	0.8
Enivronmental Services	1.0	1.0	(0.0)
Financial Transactions	6.8	1.5	5.2
Gity	412.9	401,8	



**Year-End Operating Result Highlights** - The major areas of variance from the budget are highlighted in the chart below with further details provided in Appendix 1 Operating Forecast Details by Service Area:

Labour and Benefits	Surplus/(Deficit) \$ Millions
Labour gapping	5.6
Sunlife administration savings	0.7
Other adjustments	(0.5)
Total Surplus / (Deficit)	5.8

Other Operating Expenses	Surplus/(Deficit) \$ Millions
MiWay diesel fuel and other transportation savings	3.7
Debt Repayment surplus	1.7
Lower winter maintenance costs	1.2
Utility savings	0.5
Cleaning & litter pickup contractor costs	0.4
Street lighting hydro	(1.0)
Other Adjustments	(1.0)
Total Surplus / (Deficit)	5.5

Revenue	Surplus/(Deficit) \$ Millions
Investment Interest revenue	1.5
Administrative Penalties System (APS) fees & external recoveries	1.3
Greater Toronto Airport Authority Passenger Revenue	1.1
Community Recreation Programming	1.0
Hershey Rentals	0.6
Ticket Fine Revenue	0.6
Internal recoveries for special road projects	0.5
Development construction revenue	0.4
Building Permit Revenue	0.3
Concession and Food Services Revenue	0.2
Site Plan Revenue	(0.4)
Golf Revenue	(0.7)
Peel Region for the Hanlan Water project	(1.0)
Reduced MiWay ridership and revenue	(2.7)
Other revenues	0.5
Total Surplus / (Deficit)	3.2

Transfers from Reserve	Surplus/(Deficit) \$ Millions
Forecasted reduced draw from Provincial Gas Tax Reserve	e Fund (3.4)
Total Surplus / (Deficit)	(3.4)
Grand Total	414

Note: Numbers may not add due to rounding

As part of the on-going budget process, staff track variances and have made appropriate adjustments to the 2016 Business Plan and Budget.

#### PART 2: OPERATING BUDGET RESERVE REQUEST

The accounting principles used by the City require that expenditures for goods and services be recorded when received. At year-end, there are some legally binding obligations for goods and services ordered prior to year-end and that are not received. Appendix 2 of this report details Operating Budget Reserve Requests totalling \$88,616 for 2015 that will be spent in 2016.

November 18, 2015

5

#### PART 3: OPERATING BUDGET ADJUSTMENTS

According to the Budget Control Bylaw, all inter-program adjustments require Council authorization. There is no change to the City's net operating budget as a result of these adjustments as these adjustments reallocate budget funds from one program/account to another. Appendix 3, Operating Budget Adjustments by Service Area, details operating budget movements which require approval by Council.

## Financial Impact

The City is forecasting a year-end surplus of \$11.1 million. This represents 1.6% of the City's gross budget of \$694.8 million.

#### Conclusion

In summary, the City forecasted 20.15 year-end operating financial position is a surplus of \$11.1 million.

#### **Attachments**

Appendix 1 Operating Forecast Details by Service Area

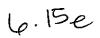
Appendix 2 Operating Budget Reserve Requests

Appendix 3 Operating Budget Adjustments by Service

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Gary Kent, Commissioner of Corporate Services and Chief Financial Officer

Prepared by: Ann Wong, Manager, Business Planning and Budgets



## Operating Forecast Details by Service Area

Fire & Emergency Services

ltem	2015	2015 Year-End Forecast	Year-End Variance		Comments and Action Plan
(\$ Millions)	Budget		\$ Surplus/ (Deficit)	% of Budget	
Revenues	(1.3)	(1.5)	0.2	13.9%	Revenue is driven by the number of billable calls and is expected to exceed the budget estimates by year end.
Other Operating Expenses	3.7	3.7	(0.0)	(0.5%)	Unfavourable variance expected as a result of additional costs associated with parking fees agreed to as part of a grievance settlement as well as costs related to external legal fees associated with staff HR issues.
Labour and Benefits	94.2	94.2	0.0	0.0%	
Total Net Cost before Administrative and Support Costs	96.6	96.4	0.2	0.2%	
Administrative and Support Costs	8.0	0.8	0.0	0.0%	
Total Net Cost	97.4	97.2	0.2	0.2%	

ltem .	2015	2015	Year-End	Variance	Comments and Action Plan
(\$ Millions)	Budget	Year-End	\$ Surplus/ % of		
	Marie Van Livings Pie	Forecast	(Deficit)	Budget	
Revenues	(10.9)	(11.4)	0.5	4.2%	The forecasted net revenue surplus of \$0.5M is primarily attributed to:  - a shortfall of \$0.5M in street lighting recoveries from the Region of Peel as the jurisdictional transfer of street lights on Regional roads from the City to Peel has not taken place. A Street Lighting Service Agreement between the City and Peel is currently being finalized with execution expected by year-end, offset by  - a surplus of \$0.5M in internal recoveries for special road projects primarily as a result of the construction of a parking lot at West Credit Avenue to facilitate snow dumping, tree & brush removal  - a surplus of \$0.4M in Development Construction revenue.
Other Operating Expenses	48.7	48.2	0.6	1.1%	The forecasted net other operating expense surplus of \$0.6M is primarily attributed to the following in the Works Operations Management Division:  - a surplus of \$1.2M in winter maintenance contractor costs due to lower than normal winter activities for the 1st quarter of 2015 when compared to 5 year average,  - a surplus of \$0.4M in cleaning & litter pickup contractor costs due to favourable contract pricing,  - an over expenditure of \$1M in street lighting hydro. The LED Street Lighting Conversion Project is ongoing and is expected to be substantially completed by year-end. As a result, full annual cost savings in hydro will not be realized until 2016.
Labour and Benefits	33.6	32.2	1.4	4.1%	The forecasted labour surplus is primarily attributed to vacant positions in Transportation and Infrastructure Planning division.
Total Net Cost before	<u> </u>		<u> </u>		
Administrative and	71.4	69.0	2.4	3.3%	
Support Costs					<u> </u>
Administrative and Support Costs	0.1	0.1	0.0	0.0%	
Total Net Cost	71,6	69.2	24	3.3%	Production (1914) is production of the production of the comment of the comment of the comment of the comment

Operating Forecast Details by Service Area

Appendix 1

Item (\$ Millions)	2015	2015	Year-End	Variance	Comments and Action Plan
	Budget	Year-End Forecast	\$ Surplus! (Deficit)	% of Budget	
Revenues	(84.4)	(80.7)	(3.7)	(4.4%)	Transit fares are unfavourable due to ongoing effects of Presto fare media migration, a cold winter season and expected revenue decreases due to the \$1 senior fare initiative (for a total of \$2.7M) along with a shortfall in recovery from the Peel Region for the Hanlan Water project (\$1M-due to lesser than anticipated costs).
Transfers from Reserve	(17.6)	(14.3)	(3.4)	(19.1%)	The annual provincial gas tax transfer has been forecasted to be \$3.4M less than budget in order to bring the full year variance to zero as per previous years practises.
Other Operating Expenses	38.4	34.3	4.1	10.7%	The favourable Other Operating Expenses is primarily due to favourable variances in diesel pricing (\$0.854 vs. \$1.10). With oil currently at \$45/barrel, this favourable surplus is expected to continue.
Labour and Benefits	124.5	121.5	2.9	2.4%	The forecast labour surplus is due to gapping in transit operators, salaried staff and temporary staff. This surplus is a result of LTD, staff turnover and recruitment challenges.
Total Net Cost before					
Administrative and	60.8	60.8	(0.0)	(0.0%)	
Support Costs	<del></del>	1			<u> </u>
Administrative and Support Costs	0.9	0.9	0.0	0.0%	
Total Net Cost	61.7	61.8	(0.0)	(0.0%)	

and the same of th	2015	2015	Year-End	Variance	Comments and Action Plan
	Budget	Year-End Forecast	\$ Surplus/ (Deficit)	% of Budget	
Revenues	(4.1)	(4.2)	0,1	2.4%	Favourable variance mainly due to utilities rebates received but not budgeted.
Other Operating Expenses	11.5	11.5	0.0	0.4%	
Labour and Benefits	24.1	23.8	0.4	1.5%	Favourable labour variance due to staff on LTD, maternity leave, retirements, salary discrepancies between old and new hires offset by salaries and wages for temporary backfills.
Total Net Cost before					
Administrative and	31.5	31.0	0.5	1.6%	
Support Costs					<u> </u>
Administrative and	(0.3)	(0.3)	0.0	0.0%	
Support Costs	(0.3)	(0.5)	0.0	0.070	
Total Net Cost	31.2	30.7	0.5	1.6%	

Mississauga Library Item	2015	2015	Year-End	Variance	Comments and Action Plan
The second secon	Budget	Year-End Forecast	\$ Surplus/ (Deficit)	% of Budget	
Revenues	(2.0)	(2.0)	0.0	2.3%	
Other Operating Expenses	5.5	5.6	(0.1)	(2.1%)	Favourable variance in utility savings is offset by additional expenses for one time grant and increased expenses in collection materials due to impact of low Canadian dollar.
Labour and Benefits	21.1	20.2	0.8	3.9%	Savings due to normal gapping and implementation of self check-out offset by unfavourable variance due to backfilling for essential full-time direct public service staff vacancies.
Total Net Cost before			1		
Administrative and	24.6	23.8	8.0	3.1%	
Support Costs	ļ				
Administrative and Support Costs	0.4	0.4	0.0	0.0%	
Total Net Cost	25.0	24.3	0.8	3.0%	a kasa na kapata na kabangan



# Operating Forecast Details by Service Area Business Services

ltem (\$ Millions) l	2015	2015	2015 Year-End Variance		Comments and Action Plan
	Budget	Year-End Forecast	\$ Surplus/ (Deficit)	% of Budget	
Revenues	(2.1)	(2.3)	0.2	9.0%	Revenue surplus is mainly attributable to an increase in collection agency recoveries, interest charges on outstanding account balances and tax sales.
Other Operating Expenses	2.6	2.8	(0.2)	(6.1%)	The overexpenditure is a result of an increase in POA fine placements with third party collection agencies and registry searches.
Labour and Benefits	25,0	25.3	(0.3)	(1.1%)	Unfavorable variance is due to temporary additional resources being allocated to initiatives focused on Business Planning, Finance reorganization and operational improvements. The variance will be funded from the labour gapping surplus in Corporate Services.
Total Net Cost before				(4 - 24)	
Administrative and	25.6	25.8	(0.2)	(1.0%)	
Support Costs Administrative and Support Costs	0.0	0.0	0.0	0.0%	
Total Net Cost	25.6	25.8	(0.2)	(1,0%)	

**Facilities and Property Management** 

ltem .	2015	2015	Year-End	Variance	Comments and Action Plan
(\$ Millions)	(\$ Millions) Budget Year-End \$ Surplus/ % of Forecast (Deficit) Budget				
Revenues	(0.4)	(0.8)	0.4	95.2%	Revenue surplus is primarily due to one-time revenue from the sale of lands.
Other Operating Expenses	8.0	8.4	(0.4)	(5.4%)	Due to one-time expense for the land purchase. The surplus proceeds are captured under revenues.
Labour and Benefits	13.6	13.0	0.6	4.1%	Labour gapping savings due to several vacancies within the Facilities Maintenance and Security Operations Programs.
Total Net Cost before	<u> </u>	_			
Administrative and	21.1	20.6	0.5	2.4%	
Support Costs					
Administrative and	(1.2)	(1,2)	0.0	0.0%	
Support Costs	(1.2)	(1.2)	0.0	0.076	<u></u>
Total Net Cost	20.0	19.5	0.5	2.5%	

#### Recreation

Recreation	2015	2015	Vear-End	Variance :	Comments and Action Plan
	Budget	Year-End Forecast	\$ Surplus/ (Deficit)	% of Budget	confinents and Action Flat.
Revenues	(44.8)	(46.1)	1.3	3.0%	Favourable revenue variances mainly driven off of increases in Food Sales of \$0.7M, Community Programming uptake of \$1.0M, as well as increased league participation and field rentals at Hershey \$0.6M. Favourability partially offset by a shortfall in Golf Courses revenue of \$0.7M and higher than budget part time labour and other operating expenses.
Other Operating Expenses	23.2	23.7	(0.6)	(2.4%)	Higher than budget Food Services catering costs at Holcim \$0.5M, Hershey dome costs \$0.1M, program fees, referee costs \$0.2M, and higher Camps costs \$0.1M. Higher costs are partially offset by utility savings of \$0.4M.
Labour and Benefits	43.5	43.7	(0.3)	(0.6%)	Unfavourable variance in part time labour due to backfilling for full time positions, and due to increased programing need for Camps and Leagues.
Total Net Cost before Administrative and Support Costs	21.9	21.3	0.5	2.4%	
Administrative and Support Costs	0.1	0,1	0,0	0.0%	
Total Net Cost	21.9	21.4	0.5	2,4%	

Operating Forecast Details by Service Area Information Technology

Appendix 1

	2015	2015	Year-End	Variance.	Comments and Action Plan
	Budget	Year-End Forecast	\$ Surplus/ (Deficit)	% of Budget	
Revenues	(0.6)	(0.6)	0.0	5.1%	
Other Operating Expenses	4.9	4.9	0.0	0.0%	
Labour and Benefits	17.3	17.8	(0,5)	(2.6%)	Unfavorable variance is primarily due to labour market pressures for numerous IT positions. The variance will be funded from the labour gapping surplus in Corporate Services.
Total Net Cost before				-	
Administrative and	21.7	22.1	(0.4)	(1.9%)	
Support Costs	1				<u> </u>
Administrative and	(1.1)	(1.1)	0.0	0.0%	
Support Costs	11	A COMPANY AND ADDRESS OF THE PARTY OF		1.35 - 27.3 - 27	Disconnection of the second control of the s
Total Net Cost	20.6	21,1	(0.4)	(2.0%)	

Strategic Policy

ltem (\$ Millions)	2015	2015 Year-End Forecast	Year-End	Variance	Comments and Action Plan
	Budget		\$ Surplus/ (Deficit)	% of Budget	
Revenues	(0.8)	(0.8)	0.0	0.0%	
Other Operating Expenses	3.1	3.4	(0.3)	(9.6%)	Legal Services Division over expenditure in professional services is largely due to the need to retain external counsel on several trials; various other litigations and the high volume of legal matters.
Labour and Benefits	10.2	10.4	(0.1)	(1.4%)	Unfavorable variance relates to continous improvement initiatives (e.g. LEAN) within the Corporate Performance and Innovation divison. Variance is funded from labour gapping city- wide.
Total Net Cost before Administrative and	12.5	12.9	(0.4)	(3.6%)	
Support Costs	1		(***,	(=:,	·
Administrative and Support Costs	0.0	0.0	0.0	0.0%	
Total Net Cost	12.5	12.9	(0.4)	(3.6%)	

Land Development Services

	2015	2015	Year-End	Variance	Comments and Action Plan
	Budget	Year-End Forecast	\$ Surplus/ (Deficit)	% of Budget	
Revenues	(12,5)	(12.3)	(0.2)	(1.6%)	The unfavorable variance is largely due to the Site Plan revenue forecast deficit of (\$400K). The unfavorable variance is partially offset by the projected surplus of \$250K for Building Permit revenue.
Other Operating Expenses	1.9	1.7	0.2	9.0%	Professional Services will be \$170K underspent due to uncontrollable delays to Development and Design Division and Policy Planning Division projects.
Labour and Benefits	18,6	18.3	0.3	1.5%	Normal labour gapping savings.
Total Net Cost before Administrative and Support Costs	8.0	7.8	0.3	3.1%	
Administrative and Support Costs	0.0	0.0	0.0	0.0%	
Total Net Cost	8.0	7.8	0.3	3.1%	

Operating Forecast Details by Service Area
Arts & Culture

Appendix 1

ltem (\$ Millions)	2015 Budget	2015 Year-End Forecast	Year-End Variance		Comments and Action Plan
			\$ Surplus/ (Deficit)	% of Budget	
Revenues	(1.7)	(1.8)	0.2	8.9%	Net positive year end variance is expected due to higher than projected rentals at Meadowvale Theatre and MCS.
Other Operating Expenses	4.1	4.1	0.0	0.0%	
Labour and Benefits	4.6	4.6	0.0	0.5%	Favourable variance due to normal gapping offset by unfavourable variance due to part time labour being used to compensate full time vacancies.
Total Net Cost before		7			
Administrative and	7.0	6.8	0.2	2.5%	
Support Costs	<u> </u>				
Administrative and Support Costs	0.0	0.0	0.0	0.0%	
Total Net Cost	7.1	6.9	0.2	2.5%	

Mayor & Council

i e a la liem da la como	2015 Budget	2015 Year-End Forecast	Year-End Variance		Comments and Action Plan
(\$ Millions)			\$ Surplus/ (Deficit)	% of Budget	
Revenues	0.0	0.0	0.0	0.0%	
Other Operating Expenses	0.7	0.7	0.0	0.2%	
Labour and Benefits	3.9	3.9	0.0	0.0%	
Total Net Cost before Administrative and	4.7	4.7	0.0	0.0%	
Support Costs					
Administrative and Support Costs	0.0	0.0	0.0	0.0%	
Total Net Cost	4.7	4.7	0.0	0.0%	

ltem (\$ Millions)	2015 Budget	2015 Year-End Forecast	Year-End Variance		Comments and Action Plan
			\$ Surplus/ (Deficit)	% of Budget	
Revenues	(12.9)	(14.1)	1.3	9.9%	The forecasted revenue surplus of \$1.3M is primarily attributed to Administrative Penalties System (APS) fees & external recoveries.
Other Operating Expenses	2.2	2.2	(0.0)	(1.2%)	The forecasted other operating over expenditure of \$0.03M relates to various unfavourable variances.
Labour and Benefits	11.7	12.0	(0.250)	(2.1%)	The unfavourable labour variance of \$0.3M is forecasted which is primarily attributed to temp labour costs in parking.
Total Net Cost before					
Administrative and	1.0	0.0	1.0	97.5%	
Support Costs					
Administrative and Support Costs	0.1	0.1	0.0	0.0%	
Total Net Cost	1.2	0.2	1.0	86.8%	

(6. 15) Appendix 1

Legislative Services

ltem	2015	2015	Year-End	Variance	Comments and Action Plan
(\$ Millions)	Budget	Year-End Forecast	\$ Surplus/ (Deficit)	% of Budget	
Revenues	(11.1)	(11.7)	0.6	5.4%	Forecasted surplus is due to higher than planned fine revenue per ticket.
Other Operating Expenses	1.6	1.7	(0.0)	(1.2%)	
Labour and Benefits	6.2	6.0	0.2	3.2%	Normal labour gapping savings.
Total Net Cost before Administrative and Support Costs	(3.3)	(4.0)	0.8	23.9%	
Administrative and Support Costs	0.0	0.0	0.0	0.0%	
Total Net Cost	(3.3)	(4.0)	0.8	23.9%	

#### **Environmental Services**

Environmental Services							
ltem	2015 Budget	2015 Year-End	Year-End Variance		Comments and Action Plan		
(\$ Millions)			\$ Surplus/	% of			
a dologo pologo po		Forecast	(Deficit)	Budget	### 1   Proceedings   Proceeding   Proceeding   Proceeding   Proceeding   Proceding   Proceding   Proceding   Proceding   Proceeding   Proceding   Pro		
Revenues	(0.1)	0.0	(0.1)	(100.0%)	Reserve is not to be transferred to the division to fund the Climate Change work as it is deferred to 2016.		
Other Operating Expenses	0.3	0.2	0.1	31.6%	Favorable operating expense is related to Climate Change work which is deferred to 2016.		
Labour and Benefits	0.8	0.8	0.0	0.0%			
Total Net Cost before							
Administrative and	1.0	1.0	(0.0)	(0.9%)	,		
Support Costs							
Administrative and	0	0.0	0.0	0.0%			
Support Costs	0.0	0.0	0.0	0.076			
Total Net Cost	1.0	1.0	(0.0)	(0.9%)			

# Financial Transactions

ltem	2015	2015 Year-End Forecast	Year-End Variance		Comments and Action Plan	
(\$ Millions)	Budget		\$ Surplus/ (Deficit)	% of Budget		
Revenues	(75.4)	(82.5)	7.1	9.4%	\$1.5 M additional interest revenue, \$1.1M Greater Toromto Airport Authority payment inlLieu of tax revenue associated with increased passenger count, \$1.7M asset disposal revenue (see offset below in transfer to reserve funds), \$0.8M transfer from WSIB reserve for higher claim volume (see offset below in WSIB expense), various rebates/recoveries \$0.3M and \$1.7M Enersouce dividend (see offset below in transfer to reserves).	
Other Operating Expenses	78.2	80.7	(2.5)	(3.2%)	\$0.8M higher WSIB claim volume (see offset above in revenues) and \$1.7M increased transfer to reserve funds from proceeds of asset disposal (see offset above in revenues), offset by \$1.7M debt funding surplus related to timing of principal and interest payments. \$1.7M transfer to reserves to smooth out future Enersource dividend fluctuations (see offset above in Enersource dividend revenue).	
Labour and Benefits	4.0	3.3	0,7	17.0%	\$0.7M savings from Sunlife surplus deposit.	
Total Net Cost before Administrative and Support Costs	6.8	1.5	5.2	77.4%		
Administrative and Support Costs	0.0	0.0	0.0	0.0%		
Total Net Cost	6.8	1,5	5.2	77,4%		

4129 4018 111	2.7%

Note: Numbers may not add due to rounding.

# Operating Budget Reserve Requests

# Appendix 2

Service Area	Standard or Special Contract Reference	Supplier	Description of Goods/Services Ordered	Account Number	Amount \$
Land Development	FA.49.569-14	North-South Environmental	Natural Areas System Updates	26846-715601-67725	9,016
Land Development	FA.49.438-15	Hemson Consulting Ltd	Regional Growth Allocation Study	26846-715601	21,600
Facilities & Property  Management	P.O. will be issued in the Fall	To Follow	Relocate light pole at Celebration Square	22100-715636	15,000
Facilities & Property Management	P.O. will be issued in the Fall	To Follow	Relocate drain at Celebration Square	22100-715636	15,000
Facilities & Property Management	P.O. will be issued in the Fall	To Follow	Repairs to sidewalks within Civic Precint Masonary repairs to crumbling walls at Amphitheatre	22100-715636	18,000
Facilities & Property Management	P.O. will be issued in the Fall	To Follow	Replace exhust pipe for Civic Centre generator	22100-715636	10,000
Total					88,616

6.15

Operating Budget Adjustments by Service

Appendix 3
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Change Request Number	Service Description	Reason	Tofal
2233	Strategic Policy	Redistribute Labour Gapping Targets	107,915
}	Land Development Services	Redistribute Labour Gapping Targets	98,519
	Information Technology	Redistribute Labour Gapping Targets	88,153
	Legislative Services	Redistribute Labour Gapping Targets	19,584
	Facilities & Property Management	Redistribute Labour Gapping Targets	14,273
	Business Services	Redistribute Labour Gapping Targets	241,760
	Total		570,204
2237	Fire & Emergency Services	Redistribute Labour Gapping Targets	123,582
	Total		123,582
2242	MiWay	Redistribute Labour Gapping Targets	(693,786)
	Total		(693,786)

# REPORT 5-2015

# TO: CHAIR AND MEMBERS OF GENERAL COMMITTEE

The Governance Committee presents its fifth report for 2015 and recommends:

## GOV-0020-2015

- 1. That Rule 1 of the Council Code of Conduct (the "Code"), as set out in Appendix 1, be amended by removing subsections a., c. and h, placing them under the general heading of "Key Principles that Underlie the Code of Conduct" and re-lettering the remaining subsections of Rule 1, so that the Code to the end of Rule 1 reads as set out in Appendix 2.
- 2. That similar amendments be made to the Codes of Conduct for members of Local Boards.

(GOV-0020-2015)

## GOV-0021-2015

- That an off-site strategic session takes place in the first quarter of 2016 for members of Council to consider what it might take to become recognized as a leader in municipal governance and commit to taking the steps necessary to achieve that goal.
- 2. That a retreat planning subcommittee of Governance Committee be established and that Councillor Saito, Councillor Ras, Councillor Tovey, Sandy Milakovic and John Magill be appointed to the subcommittee.

(GOV-0021-2015)

# GOV-0022-2015

WHEREAS there is currently a prohibition against Councillors resigning their Council seat to take a seat at federal and provincial levels of governments only; and

WHEREAS City of Mississauga Councillors are currently entitled to receive severance pay even if of their own choosing they resign their Council seat prior to the conclusion of that term of Council;

BE IT THEREFORE RESOLVED that the City of Mississauga shall not pay severance to an elected or appointed office holder if that person is elected or appointed to another office at any level of government, including another municipality, or if choosing to return to paid employment for an organization or business before his/her term of office with the City is completed; AND

That the necessary by-laws be enacted. (GOV-0022-2015)

## GOV-0023-2015

That the Corporate Report entitled "Elected Official Expense Policy information report" dated November 3, 2015 from the Commissioner of Corporate Services and Chief Financial Officer, be received and that the matter regarding the definition of teams be referred to staff for review and report back to Governance Committee. (GOV-0023-2015)

## GOV-0024-2015

- That the Corporate Report dated August 25, 2015 from the Director, Legislative Services and City Clerk entitled 2014 Municipal Election, 2015 Municipal By-Election Review and technology options of future Municipal Elections be received.
- 2. That the Ministry of Municipal Affairs and Housing be requested to do the following:
  - Address concerns related to the accuracy of the Voters' List with the Municipal Property Assessment Corporation and that the Ministry insist on a lower acceptable margin of error with respect to the Voters' List.
  - b. Specify the parameters for the administration of internet voting in the *Municipal Elections Act, 1996.*
- That staff be requested to prepare amendments to the City of Mississauga's Records Retention By-law 537/96 to align with section 88 of the *Municipal Elections Act, 1996*. (GOV-0024-2015)

# GOV-0025-2015

That the Report dated October 30, 2015, from the Director of Legislative Services and City Clerk providing an update on the financial and administrative impact of Ranked Choice Voting, be received for information.

(GOV-0025-2015)

## GOV-0026-2015

That the memorandum dated November 6, 2015 from the Legislative Coordinator with respect to the 2016 Governance Committee Meeting Dates be received for information. (GOV-0026-2015)

# **REPORT 6-2015**

TO:

CHAIR AND MEMBERS OF GENERAL COMMITTEE

The Public Vehicle Advisory Committee presents its sixth report for 2015 and recommends:

#### PVAC-0044-2015

- 1. That the report from the Commissioner of Transportation and Works, dated October 14, 2015 and entitled "Consultant's Review of the Taxi Plate Issuance Model", be received;
- 2. That the Public Vehicle Advisory Committee consider Appendix 1 to the report from the Commissioner of Transportation and Works, dated October 14, 2015 and entitled "Consultant's Review of the Taxi Plate Issuance Model", when Council has approved a framework to address the regulation of transportation network companies.

(PVAC-0044-2015)

## PVAC-0045-2015

That the memorandum dated October 23, 2015 from the Legislative Coordinator with respect to Recommendation PVAC-0042-2015, be received. (PVAC-0045-2015)

#### PVAC-0046-2015

That the memorandum dated October 16, 2015 from the Legislative Coordinator with respect to the 2016 Public Vehicle Advisory Committee meeting dates, be received. (PVAC-0046-2015)

# PVAC-0047-2015

That the Public Vehicle Advisory Committee (PVAC) Action List, updated for the November 19, 2015 meeting of PVAC, be received. (PVAC-0047-2015)

#### PVAC-0048-2015

That the letter dated November 2015 from Mayor Crombie to the Premier of Ontario regarding New and Emerging Transportation Services, be received.

(PVAC-0048-2015)

# PVAC-0049-2015

That the email dated November 14, 2015 from Peter Pellier, Taxi Industry with respect to the Hara Associates report, be received and forwarded to staff for consideration. (PVAC-0049-2015)

# PVAC-0050-2015

That the letter dated November 14, 2015 from Ron Baumber, Accessible Taxi Owner/Operator regarding the Hara Associates report recommendations, be received and forwarded to staff for consideration.

(PVAC-0050-2015)

# PVAC-0051-2015

That the email dated November 18, 2015 from Tahir Iqbal, Taxi Industry regarding new taxi plate issuance and unattended to issues, be received and forwarded to staff for consideration. (PVAC-0051-2015)

# PVAC-0052-2015

That the matter of the Public Vehicle Licensing By-law 420-04, as amended specifically pertaining to the licensing of taxi and limousine drivers and demerit points, be referred back to staff for a report at a future Public Vehicle Advisory Committee meeting. (PVAC-0052-2015)

# November 23, 2015

# MISSISSAUGA ACCESSIBILITY ADVISORY COMMITTEE

# REPORT 5-2015

#### TO:

#### CHAIR AND MEMBERS OF GENERAL COMMITTEE

The Mississauga Accessibility Advisory Committee presents its fifth report for 2015 and recommends:

## AAC-0036-2015

That the deputation and associated memorandum dated November 23, 2015 from the Community and Neighbourhood Development Unit, Recreation Division with respect to the Inclusion Resource Team, be received for information.

(AAC-0036-2015)

# AAC-0037-2015

That the memorandum dated October 8, 2015 from Darlene Utarid, Business Analyst, Facilities and Property Management with respect to a Crohns and Colitis Canada 'GoHere' Initiative update, be received for information.

(AAC-0037-2015)

# AAC-0038-2015

That the memorandum dated October 23, 2015 from Karen Morden, Legislative Coordinator with respect to Recommendation AAC-0027-2015, pertaining to employment opportunities for persons with developmental and intellectual disabilities, be received for information. (AAC-0038-2015)

## AAC-0039-2015

That the letter dated October 23, 2015 from Frank Dale, Regional Chair and Chief Executive Officer, Region of Peel with respect to telephone or video conference participation by appointed Members of Municipal Accessibility Advisory Committees, be received for information. (AAC-0039-2015)

# AAC-0040-2015

That the document regarding the Principles for the Canadians With Disabilities Act, as referenced by the Barrier-Free Canada website, be received for information. (AAC-0040-2015)

# AAC-0041-2015

Memorandum dated October 16, 2015 from Karen Morden, Legislative Coordinator with respect to the 2016 Accessibility Advisory Committee meeting dates, be received for information. (AAC-0041-2015)

## AAC-0042-2015

That the invitation to the third annual Dec 3<sup>rd</sup> Tribute (formerly the Abilities Awards) to be held on December 3, 2015, be received for information. (AAC-0042-2015)

November 23, 2015

## AAC-0043-2015

That the Pending Work Plan Items chart, updated for the November 23, 2015 Accessibility Advisory Committee meeting, be received. (AAC-0043-2015)

## AAC-0044-2015

That the Corporate Policies and Procedures Subcommittee report dated October 19, 2015, be received for information. (AAC-0044-2015)

#### AAC-0045-2015

That the Promotional Awareness Subcommittee report dated October 19, 2015, be received for information.

(AAC-0045-2015)

#### AAC-0046-2015

- That the PowerPoint presentation regarding Trail Development Within Sawmill Valley Trail, P-161 to the Facility Accessibility Design Subcommittee on October 26, 2015, be received;
- That subject to the comments on the presentation, the Facility Accessibility Design Subcommittee is satisfied with the design of Trail Development Within Sawmill Valley Trail, P-161, as presented.

(AAC-0046-2015)

# AAC-0047-2015

- 1. That the PowerPoint presentation regarding Off Road Trail (ORT) #11 to the Facility Accessibility Design Subcommittee on October 26, 2015, be received;
- 2. That subject to the comments on the presentation, the Facility Accessibility Design Subcommittee is satisfied with the design of Off Road trail (ORT) #11, as presented.

# (AAC-0047-2015)

# AAC-0048-2015

- That the memorandum dated October 26, 2015 from Lawrence Franklin, Urban Designer, Development and Design Division, Planning and Building with respect to referral of Region of Peel projects to the Facility Accessibility Design Subcommittee, be received;
- 2. That the matter be referred to staff to investigate the appropriate processes in referring Regional projects to the Mississauga Facility Accessibility Design Subcommittee and report back and report back at a future meeting.

(AAC-0048-2015)

# REPORT 4 - 2015

# TO: MEMBERS OF GENERAL COMMITTEE

The Museums of Mississauga Advisory Committee presents its fourth report for 2015 and recommends:

#### MOMAC-0017-2015

That the Update from John Linton, TCI Consultants, with respect to the Museums and Heritage Planning Strategic Plan to the Museums of Mississauga Advisory Committee dated November 24, 2015 be received.

(MOMAC-0017-2015)

#### MOMAC-0018-2015

That the Interim Recommendations for Staff from the Community Vision Task Group and the Engagement and Outreach Task Group, as part of the Museums of Mississauga Advisory Committee's Work Plan, be deferred to the next MOMAC meeting on January 19, 2016.

(MOMAC-0018-2015)

## MOMAC-0019-2015

That the Memorandum from Stuart Keeler, Manager, Museums and Chief Curator, dated November 6, 2015, entitled *Museums of Mississauga Deaccession Artifacts from the Collections*, be received for information.

(MOMACO-0019-2015)

#### MOMAC-0020-2015

That the Memorandum dated November 12, 2015 from Stuart Keeler, Manager, Museums and Chief Curator, Museums of Mississauga entitled *Museums Update from Manager, Museums & Chief Curator*, be received.

(MOMAC-0020-2015)

#### MOMAC-0021-2015

That the Museums of Mississauga Mission and Key Messages/Education Feedback from Stuart Keeler, Manager, Museums and Chief Curator be deferred to the next MOMAC meeting on January 19, 2016. (MOMAC-0021-2015)

## MOMAC-0022-2015

That the Memorandum from Mumtaz Alikhan, Legislative Coordinator, dated November 13, 2015, with respect to the 2016 Museums of Mississauga Advisory Committee Meeting Schedule amending the time to be 6:00 p.m., be received. (MOMAC-0022-2015)

# MUSEUMS OF MISSISSAUGA ADVISORY COMMITTEE

November 24, 2015

MOMAC-0023-2015

That the Diversity and Inclusion Training to be set for next year by Stuart Keeler, Manager, Museums & Chief Curator, to the Museums of Mississauga Advisory Committee dated November 24, 2015, be received.

(MOMAC-0023-2015)

# **REPORT 8 - 2015**

## TO: CHAIR AND MEMBERS OF GENERAL COMMITTEE

The Traffic Safety Council presents its Eight Report for 2015 and recommends:

#### TSC-0150-2015

- 1. That the warrants for a crossing guard in front of Lancaster Public School has been met.
- 2. That Transportation and Works be requested to review the signage on Redstone Road and Netherwood Road in the vicinity of Lancaster Public School.
- 3. That the Peel District School Board be requested to review the operation of the Kiss & Ride and Dismissal Program at Lancaster Public School
- 4. That the Traffic Safety Council, approach the Principal of Lancaster Public School regarding the Walk to School Program.

(Ward 5) (TSC-0150-2015)

# TSC-0151-2015

That the request for a crossing guard at the intersection of Hush Lane and Second Line for Students attending Hush Lane and Second Line for the students attending Meadowvale Village Public School be denied as warrants are not met.

(Ward 11)

(TSC-0151-2015)

# TSC-0152-2015

- That the request for a crossing guard at the intersection of Paisley Boulevard and Pollard Drive, for students attending St. Jerome Catholic School be denied as the warrants are not met
- 2. That Transportation and Works be requested to review signage on Paisley Boulevard in the vicinity of St. Jerome Catholic School.

(Ward 7)

(TSC-0152-2015)

# TSC-0153-2015

That the report from the Manager of Parking Enforcement with respect to parking enforcement in school zones for the month of October 2015 be received for information. (TSC-0153-2015)

## TSC-0154-2015

That the WildeWood Award for School Zone Safety Award be awarded to the following schools which: have demonstrated that they have a team of staff and/ or volunteers that deserve to be recognized for the efficient operation of the School Zone Safety (Kiss & Ride) Program and promote and/ or encourage active transportation to and from school:

- Plum Tree Park Public School
- Shelter Bay Public School
- Canadian Martyrs Catholic School
- St. Gertrude Catholic School

(Wards 4, 5 and 9) (TSC-0154-2015)

# TSC-0155-2015

That the City of Mississauga Advisory Committees Role and Rules dated November 2015, be received for information.

(TSC-0155-2015)

## TSC-0156-2015

- 1. That Transportation and Works be requested to:
  - a) review the feasibility of installing flashing 40 KM school zone signage in front of St.
     Marcellinus and Mississauga Secondary School, from 7:00 a.m. to 9:00 a.m. and from 2:00 p.m. to 4:00 p.m.
  - b) implement a "No Stopping" driveway prohibitions at Mississauga Secondary School.
- 2. That Parking Enforcement be requested to enforce the "No Stopping" prohibitions on Courtneypark Drive between Mavis Road and the entrance to St. Marcellinus Catholic School driveway.
- 3. That Peel Regional Police be requested to continue to enforce "No U-turn" violations on Courtneypark Drive at Spinnaker Circle.
- 4. That the Peel District School Board be requested to review the operation of the Kiss and Ride at Mississauga Secondary School.
- 5. That the Principal of Mississauga Secondary School be requested to:
  - a) advise students and parents to use the east entrance on McLaughlin Road
  - b) remind students to cross at the controlled intersection in the afternoon dismissal.
- 6. That STOPR be requested to:
  - a) advise school bus drivers not to block the sidewalk when entering and exiting school property at Mississauga Secondary School.
  - b) advise school bus drivers to load students only in the designated areas.
- 7. That the request for a crossing guard at the intersection of Envoy Drive and Othello Court (Tabbyman Walk) be denied as warrants are not met.

(Ward 11)

(TSC-0156-2015)

## TSC-0157-2015

- 1. That Parking Enforcement be requested to enforce "No Stopping" prohibitions opposite of Meadowvale Secondary School on Edenwood Drive.
- That the Principals of Meadowvale Secondary School and Edenwood Middle School be requested to consider changing their school entrance and dismissal times to be offset by 15 minutes,

(Ward 9) (TSC-0157-2015)

## TSC-0158-2015

- That the request for a crossing guard at the intersection of Forest Avenue and Cayuga Avenue, for the students attending Forest Avenue Public School and Mentor College, be denied as warrants are not met.
- 2. That Transportation and Works be requested to review signage on Forest Avenue in front of Forest Avenue Public School and Mentor College.
- 3. That Parking Enforcement be requested to enforce "No Stopping" prohibitions from 3:00 p.m. to 3:30 p.m. on Forest Avenue in front of Forest Avenue Public School and Mentor College once signage is in place.
- 4. That the request for a crossing guard at the intersection of Forest Avenue and Briarwood Avenue, (East and South Legs), for the students attending Mentor College, be denied as the warrants are not met.
- 5. That the Principal of Mentor College be Advised of Section 176 of the *Ḥighway Traffic Act* which stipulates, that no one other than a crossing guard display a stop sign and that crossing guards must be employees of a municipality.

(Ward 1) (TSC-0158-2015)

# TSC-0159-2015

That the Action Items List from the Transportation and Works Department for the month of October 2015 be received for information.

(TSC-0159-2015)

# REPORT 1 - 2015

# TO: MEMBERS OF GENERAL COMMITTEE

The Diversity and Inclusion Advisory Committee presents its first report for 2015 and recommends:

#### DIAC-0001-2015

That Councillor Sue McFadden be appointed Chair of the Diversity and Inclusion Committee for the term ending November 2018, or until a successor is appointed. (DIAC-0001-2015)

#### DIAC-0002-2015

That Councillor Ron Starr be appointed Vice-Chair of the Diversity and Inclusion Committee for the term ending November 2018, or until a successor is appointed (DIAC-0002-2015)

#### DIAC-0003-2015

That Pervez Akhter, Kris Noakes, Hanoz Kapadia, E. Justin Ratnarajah, and Davan Seebarran be appointed to the Diversity and Inclusion Advisory Committee subcommittee who will work with staff on the Multicultural Media and Advertising Strategy. (DIAC-0003-2015)

# DIAC-0004-2015

That the deputation from the Diversity and Inclusion Charter of Peel, Regional Diversity Roundtable, be received and that further discussion related to the potential endorsement of the Charter be deferred to a future meeting of the Diversity and Inclusion Advisory Committee.

(DIAC-004-2015)

# DIAC-0006-2015

That the presentation from the Raj Chopra and Maureen Brown regarding the Mississauga Diversity Program, be received.

# (DIAC-006-2015)

# DIAC-0007-2015

- 1. That the report entitled "Community Recognition Program, Policy and Process for Requests in Support of Community Campaigns and Special events," be received.
- 2. That the Diversity and Inclusion Advisory Committee support the current policy and practice related to proclamations.
- 3. That the Diversity and Inclusion Advisory Committee support the current practice related to the lighting of the Clock Tower requiring all requests to go to Council.
- 4. That the matter of flag raisings be referred to staff for further review and investigation and to report back to a future the Diversity and Inclusion Advisory Committee meeting.

# (DIAC-007-2015)

# DIVERSITY AND INCLUSION ADVISORY COMMITTEE \_\_\_

November 18, 2015

# DIAC-0008-2015

That the request from Mississauga Gives to light the clock tower to commemorate "Giving Tuesday" on December 1, 2015, be supported. (DIAC-0008-2015)

# DIAC-0009-2015

That the Memorandum from Diana Rusnov, Manager, Legislative Services, dated November 12, 2015, with respect to the results of the Diversity and Inclusion Advisory Committee's Priorities and Vision and Action Plan exercise, be received. (DIAC-0009-2015)