

ARCHITECTURAL ABBREVIATIONS

#	Number
&	And
@	At
ACT	Acoustic Ceiling Tile
AD	Area Drain
AFF	Above Finished Floor
ALUM	Aluminum
ANOD	Anodized
AP	Annunciator Panel
BBB	Barrier Free Push Button
BSMT	Basement
BYND	Beyond
BOT	Bottom
CIP	Cast In Place
CHNL	Channel
CJ	Control Joint
CLG	Ceiling
CLR	Clear
CMU	Concrete Masonry Unit
COL	Column
COMPR	Compressible
CONC	Concrete
CONT	Continuous
CPT	Carpet
COS	Carpet on Site
CT	Ceramic Tile
CYD	Courtyard
DBL	Double
DCD	Design Control Document
DEMO	Demolish or Demolition
DIA	Diameter
DIM	Dimension
DMS	Dimensions
DN	Down
DR	Door
DWG	Drawing
EJ	Each
EA	Expansion Joint
EL	Elevation
ELEC	Electrical
ELEV	Elevator or Elevation
EP	Electrical Panel
EPDM	Ethylene Propylene Diene M-Class (Roofing)
EQ	Equal
EXIST	Existing
EX JT	Expansion Joint
EXT	Exterior
FD	Floor Drain
FEC	Fire Extinguisher Cabinet
FF	Force Flow Heater
FFD	Funnel Floor Drain
FHC	Fire Hose cabinet
FXT	Fixture
FLR	Floor
FM	Filled Meta
FO	Face Of
FND	Foundation
GA	Gauge
GALV	Galvanized
GWB	Gypsum Wall Board
HB	Hose Bibb
HC	Hollow Core
HR	High
HM	High Metal
HP	High Point
HR	Hour
HVAC	Heating, Ventilating, And Air Conditioning
HWT	Hot Water Tank
IRGBW	Impact Resistant Gypsum Wall Board
LO	In Lieu Of
INSUL	Insulated or insulation
INT	Interior
IRS	Irrigation System
LO	Low
LP	Low Point
MAX	Maximum
MO	Masonry Opening
MECH	Mechanical
MEMBR	Membrane
MIN	Minimum
MRGBW	Moisture-Resistant Gypsum Wall Board
MTL	Metal
NIC	Not In Contract
NO	Number
NOM	Nominal
O/C	On Center
o.c.	On Center
OH	Over Head or Opposite Hand
OZ	Ounce
PCC	Pre-Cast Concrete
PLUMB	Plumbing
PLYD	Plywood
PT	Pressure Treated or Point
PNT	Paint or Painted
PVC	Polyvinyl Chloride
RBR	Rubber
RCP	Reflected Ceiling Plan
RD	Roof Drain
REDD	Required
RM	Room
RWL	Roof Water Leader
SAN	Sanitary Line
SDS	Standard Detail Sheet
SIM	Similar
SPEC	Specified Or Specification
SPK	Sprinkler or Speaker
SR	Sprinkler Rise
SSTL	Stainless Steel
STC	Sound Transmission Coefficient
STL	Steel
STRUCT	Structure or Structural
T&G	Tongue And Groove
TELE	Telephone
TLT	Tile
TO	Top Of
T/O	Top Of
TOC	Top Of Concrete
TOS	Top Of Steel
TPD	Toilet Paper Dispenser
T/D	Telephone Data
TP	Typical
UNO	Unless Noted Otherwise
U/S	Underside
VF	Verify In Field
V/P	Vision Panel
W/	With
WD	Wood

APPLICABLE CODE

ONTARIO BUILDING CODE (OBC) - 2024
 MULTIPLE OCCUPANCY AS PER OBC 3.1.3
 RETAIL - GROUP E (MAJOR OCCUPANCY)
 SERVICE CENTRE - REPAIR GARAGE - GROUP F DIV 2

OCCUPANCY

TOTAL GROSS BUILDING AREA = 2,643m² (28,445.3ft²)

BUILDING AREAS:

Name of Practice		Building Code Reference																															
RAI Architect Inc. 104-92 Church Street South Ajax, Ontario L1S 6B4 Email: rai@raichitect.com		2024 Ontario Building Code Matrix Part 3 - Fire Protection, Occupant Safety and Accessibility																															
Name of Project Clarington Toyota Bowmanville, Ontario		Building Code Reference O. Reg. 163/24 Last Amendment O. Reg. 447/24																															
Location: 10 Spicer Square, Bowmanville, ON, L1C 5M2		Date: APRIL 2, 2025																															
3.00	Project Description:	<input type="checkbox"/> New Construction <input type="checkbox"/> Change of use <input type="checkbox"/> Addition <input type="checkbox"/> Addition and Renovation	A) 1.3.3.2.																														
3.01	Major Occupancy Classification:	Group E Automotive Retail Group D Office Group F ₂ Automotive Repair (Medium Hazard Industrial)	3.1.2.																														
3.02	Superimposed Major Occupancies:	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Group D superimposed Group F ₂ with 45min. fire separation.	3.2.2.7.																														
3.04	Building Area (m ²):	<table border="1"> <thead> <tr> <th>Description</th> <th>Existing</th> <th>New</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Group E</td> <td>428.53</td> <td>129.18</td> <td>557.71</td> </tr> <tr> <td>Group D</td> <td>56.94</td> <td>0.00</td> <td>56.94</td> </tr> <tr> <td>Group F₂</td> <td>909.27</td> <td>323.45</td> <td>1232.72</td> </tr> <tr> <td>Total</td> <td>1,394.75</td> <td>452.63</td> <td>1,847.37</td> </tr> </tbody> </table>	Description	Existing	New	Total	Group E	428.53	129.18	557.71	Group D	56.94	0.00	56.94	Group F ₂	909.27	323.45	1232.72	Total	1,394.75	452.63	1,847.37	A) 1.4.1.2.										
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Group F ₂	52	0	52																														
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3.07	Building Height:	2 Storeys above grade 0 Storeys below grade	A) 1.4.1.2. & 3.2.1.1.																														
3.08	High Building:	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	324.																														
3.09	Number of streets/ fire-alarm access:	1 Street(s)	3.2.2.10. & 3.2.5.																														
3.10	Building Classification (Size & Construction Relative to Occupancy):	3.2.2 Group/Div 3.2.2.60 Group E, up to 3 storeys, Sprinklered	3.2.2.20-93.																														
3.11	Sprinkler System:	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required Provided: <input type="checkbox"/> Entire Building <input type="checkbox"/> selected compartments <input type="checkbox"/> selected floor areas <input type="checkbox"/> basement <input type="checkbox"/> in lieu of roof rating <input type="checkbox"/> none	3.2.1.5 & 3.2.2.18, 21, 22, 29, 32.4.1, 3.2.4.9, 3.2.4.15, and 3.2.5.12, to 14.																														
3.12	Standpipe System:	<input type="checkbox"/> Not required <input type="checkbox"/> Required	3.2.5.8 - 11.																														
3.13	Fire Alarm System:	<input type="checkbox"/> Required <input type="checkbox"/> Not required	3.2.4.																														
3.14	Water Service / Supply is Adequate:	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	3.2.5.7.																														
3.15	Construction Type:	Restriction: <input checked="" type="checkbox"/> Combustible Permitted <input type="checkbox"/> Non-Combustible required <input type="checkbox"/> Encapsulated mass timber permitted Actual: <input type="checkbox"/> Combustible <input type="checkbox"/> Non-Combustible <input type="checkbox"/> Combination of combustible and non-combustible <input type="checkbox"/> Encapsulated mass timber <input type="checkbox"/> Combination of encapsulated mass timber and non-combustible Heavy Timber Construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	3.2.20-93. & 3.1.6.																														
3.16	Importance Category:	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Normal <input type="checkbox"/> High <input type="checkbox"/> Post-disaster <input type="checkbox"/> Minor storage building <input type="checkbox"/> Explosive or hazardous substances	4.1.2.1(3) & 14.1.2.1.																														
3.17	Seismic Category:	Seismic Category: Site Class: D Seismic design for Table 4.1.8.18, item 6 to 22: <input type="checkbox"/> Required <input checked="" type="checkbox"/> Not Required	4.1.8.4(1) & 4.1.8.5-B																														
3.18	Occupant Load:	<table border="1"> <thead> <tr> <th>Floor Level/Area</th> <th>Occupancy Use</th> <th>Based On</th> <th>Occupant Load (Persons)</th> <th>Final Limit Required</th> </tr> </thead> <tbody> <tr> <td>Showroom Area</td> <td>Group E</td> <td>m²/person</td> <td>3.7</td> <td>151</td> </tr> <tr> <td>Service Area</td> <td>Group F₂</td> <td>Assigned</td> <td>-</td> <td>19</td> </tr> <tr> <td>Second Floor Office Area</td> <td>Group F₂</td> <td>Assigned</td> <td>-</td> <td>36</td> </tr> <tr> <td>Total</td> <td></td> <td></td> <td></td> <td>206</td> </tr> </tbody> </table>	Floor Level/Area	Occupancy Use	Based On	Occupant Load (Persons)	Final Limit Required	Showroom Area	Group E	m ² /person	3.7	151	Service Area	Group F ₂	Assigned	-	19	Second Floor Office Area	Group F ₂	Assigned	-	36	Total				206	3.1.7.					
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3.19	Barrier-free Design:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Explanation: One existing	3.8.																														
3.20	Hazardous Substances:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Explanation: None existing	3.8.1.2.																														
3.21	Required Fire Resistance Ratings:	<table border="1"> <thead> <tr> <th>Horizontal Assembly</th> <th>Rating (hr)</th> <th>Supporting Assembly (hr)</th> <th>Non-Combustible in Lieu of Rating:</th> </tr> </thead> <tbody> <tr> <td>Stores below grade</td> <td>N/A</td> <td>N/A</td> <td><input type="checkbox"/> No <input type="checkbox"/> Yes</td> </tr> <tr> <td>Floors over basement</td> <td>N/A</td> <td>N/A</td> <td><input type="checkbox"/> No <input type="checkbox"/> Yes</td> </tr> <tr> <td>Floors</td> <td>2hrs</td> <td>2hrs</td> <td><input checked="" type="checkbox"/> No <input type="checkbox"/> Yes</td> </tr> <tr> <td>Mezzanine</td> <td>Existing</td> <td>Existing</td> <td><input type="checkbox"/> No <input type="checkbox"/> Yes</td> </tr> <tr> <td>Roof</td> <td>N/A</td> <td>N/A</td> <td><input type="checkbox"/> No <input type="checkbox"/> Yes</td> </tr> </tbody> </table>	Horizontal Assembly	Rating (hr)	Supporting Assembly (hr)	Non-Combustible in Lieu of Rating:	Stores below grade	N/A	N/A	<input type="checkbox"/> No <input type="checkbox"/> Yes	Floors over basement	N/A	N/A	<input type="checkbox"/> No <input type="checkbox"/> Yes	Floors	2hrs	2hrs	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	Mezzanine	Existing	Existing	<input type="checkbox"/> No <input type="checkbox"/> Yes	Roof	N/A	N/A	<input type="checkbox"/> No <input type="checkbox"/> Yes	3.2.2.20-93, 3.2.1.2, 3.2.1.4, 3.2.2.15, 3.3.2.1.						
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3.23a	Plumbing Fixture Requirements:	<table border="1"> <thead> <tr> <th>Fixture</th> <th>Male</th> <th>Female</th> <th>WCs Required</th> <th>WCs Provided</th> </tr> </thead> <tbody> <tr> <td>Occupant Load</td> <td>151</td> <td>3.7</td> <td>2</td> <td>2</td> </tr> <tr> <td>Service Area</td> <td>19</td> <td>3.7, 4.9</td> <td>4</td> <td>5</td> </tr> <tr> <td>Second Floor Office Area</td> <td>36</td> <td>3.7, 4.7</td> <td>4</td> <td>6</td> </tr> </tbody> </table>	Fixture	Male	Female	WCs Required	WCs Provided	Occupant Load	151	3.7	2	2	Service Area	19	3.7, 4.9	4	5	Second Floor Office Area	36	3.7, 4.7	4	6	3.7.4, 3.8.2.3.										
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3.24	Energy Efficiency:	Compliance Path: Climate Zone: 6 Degree Days Below 18 °C: 400 Is there more than 1 dwelling unit per building? <input type="checkbox"/> Yes <input type="checkbox"/> No	12.2.1.2.																														
3.25	Sound Transmission Design:	Design: Is there more than 1 dwelling unit per building? <input type="checkbox"/> Yes <input type="checkbox"/> No Option Implemented: <input type="checkbox"/> Yes <input type="checkbox"/> No	SB-3, 5.8.1.2(2), 5.8.1.4, & 5.8.1.5.																														
3.26	Alternative Solution:		A) 1.2.1.1 and C) 2.1.																														
3.27	Notes:																																

1. All references are to Division B of the OBC, unless provided by (S) for Division A and (I) for Division C.

CONSULTANTS

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 Email: info@dgibiddle.com
 Website: dgibiddle.com

CONSTRUCTION ASSEMBLIES

EXTERIOR WALL CONSTRUCTION

- (W1) 51mm [2"] TOYOTA WHITE PREFINISHED ACM PANEL
16mm [5/8"] EXTERIOR GRADE PLYWOOD SHEATHING
203mm [8"] STEEL STUDS AT 400mm [16"] o.c. MAX.
- (W2) REMOVE EXISTING EIFS SYSTEM AND INSTALL
51mm [2"] TOYOTA WHITE PREFINISHED ACM PANEL
76mm [3"] STEEL 2-GRIT
73mm [3"] SOPRA-XPS 30 INSULATION RSI-2.75 [R-15.62]
0.152mm [6mil] AIR BARRIER
EXISTING SHEATHING
- (W3) 51mm [2"] TOYOTA WHITE PREFINISHED ACM PANEL
76mm [3"] STEEL 2-GRIT
76mm [3"] SOPRA-XPS 30 INSULATION RSI-2.75 [R-15.62]
0.152mm [6mil] AIR BARRIER
16mm [5/8"] EXTERIOR GRADE PLYWOOD SHEATHING
152mm [6"] STEEL STUDS AT 400mm [16"] o.c. MAX.
100mm [4"] SOPRA-CELLULOSE AB INSULATION RSI-2.3 [R-13]
- (W4) 0.152mm [6mil] VAPOUR BARRIER
13mm [1/2"] GYPSUM BOARD
- (W5) 51mm [2"] TOYOTA WHITE PREFINISHED ACM PANEL
76mm [3"] STEEL 2-GRIT
76mm [3"] SOPRA-XPS 30 INSULATION RSI-2.75 [R-15.62]
0.152mm [6mil] AIR BARRIER
16mm [5/8"] EXTERIOR GRADE PLYWOOD SHEATHING
152mm [6"] STEEL STUDS AT 400mm [16"] o.c. MAX.
100mm [4"] SOPRA-CELLULOSE AB INSULATION RSI-2.3 [R-13]
- (W6) 0.152mm [6mil] AIR BARRIER
16mm [5/8"] EXTERIOR GRADE PLYWOOD SHEATHING
152mm [6"] STEEL STUDS AT 400mm [16"] o.c. MAX.
100mm [4"] SOPRA-CELLULOSE AB INSULATION RSI-2.3 [R-13]
- (W7) 190mm [3 5/8"] SHEETROCK GYPSUM FIRECORE CORE PANELS, JOINTS FINISHED
100mm [4"] C-H STUDS 0.5mm [25 GAUGE] AT 610mm [24"] o.c.
25.4mm [1"] SHEETROCK GYPSUM LINER PANELS
ULC DESIGN No.W452 (2 HOUR RATED WALL)
- (W8) 15.9mm [5/8"] TYPE 'X' GYPSUM BOARD
92mm [3 5/8"] STEEL STUDS @ 400mm [16"] o.c. MAX.
15.9mm [5/8"] TYPE 'X' GYPSUM BOARD
ULC DESIGN No.W407 (1 HOUR RATED WALL)
- (W9) 15.9mm [5/8"] TYPE 'X' GYPSUM BOARD
92mm [3 5/8"] STEEL STUDS @ 400mm [16"] o.c. MAX.
92mm [3 5/8"] SOUND ATTENUATION BATT
15.9mm [5/8"] TYPE 'X' GYPSUM BOARD
ULC DESIGN No.W424 (2 HOUR RATED WALL)
- (W10) 13mm [1/2"] GYPSUM BOARD
152mm [6"] STEEL STUDS AT 400mm [16"] o.c. MAX.
- (W11) 13mm [1/2"] GYPSUM BOARD
152mm [6"] STEEL STUDS AT 400mm [16"] o.c. MAX.
0.152mm [6mil] AIR BARRIER
16mm [5/8"] EXTERIOR GRADE PLYWOOD SHEATHING
152mm [6"] STEEL STUDS AT 400mm [16"] o.c. MAX.
100mm [4"] SOPRA-CELLULOSE AB INSULATION RSI-2.3 [R-13]
- (W12) 190mm [3 5/8"] SHEETROCK GYPSUM FIRECORE CORE PANELS, JOINTS FINISHED
100mm [4"] C-H STUDS 0.5mm [25 GAUGE] AT 610mm [24"] o.c.
25.4mm [1"] SHEETROCK GYPSUM LINER PANELS
ULC DESIGN No.W407 (1 HOUR RATED WALL)
- (W13) 15.9mm [5/8"] TYPE 'X' GYPSUM BOARD
92mm [3 5/8"] STEEL STUDS @ 400mm [16"] o.c. MAX.
92mm [3 5/8"] SOUND ATTENUATION BATT
15.9mm [5/8"] TYPE 'X' GYPSUM BOARD
ULC DESIGN No.W424 (2 HOUR RATED WALL)
- (W14) 190mm [3 5/8"] SHEETROCK GYPSUM FIRECORE CORE PANELS, JOINTS FINISHED
100mm [4"] C-H STUDS 0.5mm [25 GAUGE] AT 610mm [24"] o.c.
25.4mm [1"] SHEETROCK GYPSUM LINER PANELS
ULC DESIGN No.W407 (1 HOUR RATED WALL)
- (W15) 15.9mm [5/8"] TYPE 'X' GYPSUM BOARD
92mm [3 5/8"] STEEL STUDS @ 400mm [16"] o.c. MAX.
92mm [3 5/8"] SOUND ATTENUATION BATT
15.9mm [5/8"] TYPE 'X' GYPSUM BOARD
ULC DESIGN No.W424 (2 HOUR RATED WALL)
- (W16) 190mm [3 5/8"] SHEETROCK GYPSUM FIRECORE CORE PANELS, JOINTS FINISHED
100mm [4"] C-H STUDS 0.5mm [25 GAUGE] AT 610mm [24"] o.c.
25.4mm [1"] SHEETROCK GYPSUM LINER PANELS
ULC DESIGN No.W407 (1 HOUR RATED WALL)
- (W17) 190mm [3 5/8"] SHEETROCK GYPSUM FIRECORE CORE PANELS, JOINTS FINISHED
100mm [4"] C-H STUDS 0.5mm [25 GAUGE] AT 610mm [24"] o.c.
25.4mm [1"] SHEETROCK GYPSUM LINER PANELS
ULC DESIGN No.W407 (1 HOUR RATED WALL)
- (W18) 190mm [3 5/8"] SHEETROCK GYPSUM FIRECORE CORE PANELS, JOINTS FINISHED
100mm [4"] C-H STUDS 0.5mm [25 GAUGE] AT 610mm [24"] o.c.
25.4mm [1"] SHEETROCK GYPSUM LINER PANELS
ULC DESIGN No.W407 (1 HOUR RATED WALL)
- (W19) 190mm [3 5/8"] SHEETROCK GYPSUM FIRECORE CORE PANELS, JOINTS FINISHED
100mm [4"] C-H STUDS 0.5mm [25 GAUGE] AT 610mm [24"] o.c.
25.4mm [1"] SHEETROCK GYPSUM LINER PANELS
ULC DESIGN No.W407 (1 HOUR RATED WALL)
- (W20) 190mm [3 5/8"] SHEETROCK GYPSUM FIRECORE CORE PANELS, JOINTS FINISHED
100mm [4"] C-H STUDS 0.5mm [25 GAUGE] AT 610mm [24"] o.c.
25.4mm [1"] SHEETROCK GYPSUM LINER PANELS
ULC DESIGN No.W407 (1 HOUR RATED WALL)
- (W21) 190mm [3 5/8"] SHEETROCK GYPSUM FIRECORE CORE PANELS, JOINTS FINISHED
100mm [4"] C-H STUDS 0.5mm [25 GAUGE] AT 610mm [24"] o.c.
25.4mm [1"] SHEETROCK GYPSUM LINER PANELS
ULC DESIGN No.W407 (1 HOUR RATED WALL)
- (W22) 190mm [3 5/8"] SHEETROCK GYPSUM FIRECORE CORE PANELS, JOINTS FINISHED
100mm [4"] C-H STUDS 0.5mm [25 GAUGE] AT 610mm [24"] o.c.
25.4mm [1"] SHEETROCK GYPSUM LINER PANELS
ULC DESIGN No.W407 (1 HOUR RATED WALL)
- (W23) 190mm [3 5/8"] SHEETROCK GYPSUM FIRECORE CORE PANELS, JOINTS FINISHED
100mm [4"] C-H STUDS 0.5mm [25 GAUGE] AT 610mm [24"] o.c.
25.4mm [1"] SHEETROCK GYPSUM LINER PANELS
ULC DESIGN No.W407 (1 HOUR RATED WALL)
- (W24) 190mm [3 5/8"] SHEETROCK GYPSUM FIRECORE CORE PANELS, JOINTS FINISHED
100mm [4"] C-H STUDS 0.5mm [25 GAUGE] AT 610mm [24"] o.c.
25.4mm [1"] SHEETROCK GYPSUM LINER PANELS
ULC DESIGN No.W407 (1 HOUR RATED WALL)
- (W25) 190mm [3 5/8"] SHEETROCK GYPSUM FIRECORE CORE PANELS, JOINTS FINISHED
100mm [4"] C-H STUDS 0.5mm [25 GAUGE] AT 610mm [24"] o.c.
25.4mm [1"] SHEETROCK GYPSUM LINER PANELS
ULC DESIGN No.W407 (1 HOUR RATED WALL)
- (W26) 190mm [3 5/8"] SHEETROCK GYPSUM FIRECORE CORE PANELS, JOINTS FINISHED
100mm [4"] C-H STUDS 0.5mm [25 GAUGE] AT 610mm [24"] o.c.
25.4mm [1"] SHEETROCK GYPSUM LINER PANELS
ULC DESIGN No.W407 (1 HOUR RATED WALL)
- (W27) 190mm [3 5/8"] SHEETROCK GYPSUM FIRECORE CORE PANELS, JOINTS FINISHED
100mm [4"] C-H STUDS 0.5mm [25 GAUGE] AT 610mm [24"] o.c.
25.4mm [1"] SHEETROCK GYPSUM LINER PANELS
ULC DESIGN No.W407 (1 HOUR RATED WALL)
- (W28) 190mm [3 5/8"] SHEETROCK GYPSUM FIRECORE CORE PANELS, JOINTS FINISHED
100mm [4"] C-H STUDS 0.5mm [25 GAUGE] AT 610mm [24"] o.c.
25.4mm [1"] SHEETROCK GYPSUM LINER PANELS
ULC DESIGN No.W407 (1 HOUR RATED WALL)
- (W29) 190mm [3 5/8"] SHEETROCK GYPSUM FIRECORE CORE PANELS, JOINTS FINISHED
100mm [4"] C-H STUDS 0.5