



TOWN OF NEWMARKET
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Newmarket, ON L3Y 4X7

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Decks

To submit for a deck building permit, please make sure you have the following:

- Completed application form – Application for permit to Construct or Demolish, click on “Building Permits” in the A to Z Services at www.newmarket.ca
- Survey or Site plan of your property showing property lines, house, deck and dimensions from edge of deck (or stairs) to each property line, in metric. This can be hand drawn but must be clear, concise and drawn to scale. (See sample)
- Construction drawings consisting of a fully dimensioned plan and section showing all structural components – piers, posts, beams, joists and decking. (See sample plan and section)
- Guard / handrail – required if the deck is more than 2 feet above grade
 - Details must meet Ontario Building Code Supplementary Standard SB-7 Guidelines which are for wood construction only
 - If guard used is other than wood or if it is not in SB-7 then details must be stamped and signed by an engineer. Ask for details where you purchase the system
- Provide two (2) copies of all drawings, in ink.
- The 2016 Building Permit rate for decks is \$185.00, payable at time of application

BUILDING A DECK IN NEWMARKET

ZONING STANDARDS EXPLAINED

“Deck” means a platform, with no solid roof or walls, which is constructed on piers or a foundation above *finished grade* adjacent to a ground floor or *walkout basement* wall, is used as an outdoor living area, and shall include stairs and privacy screening up to 2.0 metres in height measured from the deck floor to the highest part of the privacy screen including any ornamental features. (Zoning By-law 2010-40, amended by By-law 2012-74).

Decks 0m to 0.6m in height*

- Not permitted in the front yard.
- Must maintain the side yard setbacks of the zone category.
- Must be at least 1.2m from the rear lot line
- Side yard setbacks do not apply between two attached units

Decks 0.6m to 3m in height*

- Not permitted in the front yard.
- Must maintain the side yard setbacks of the zone category.
- May encroach into the rear yard 3.6m
- May never be closer than 2.4m to the rear lot line regardless of permitted encroachment
- Side yard setbacks do not apply between two attached units

Decks over 3m in height*

- Not permitted in the front yard.
- Must maintain the side and rear yard setbacks of the zone category.

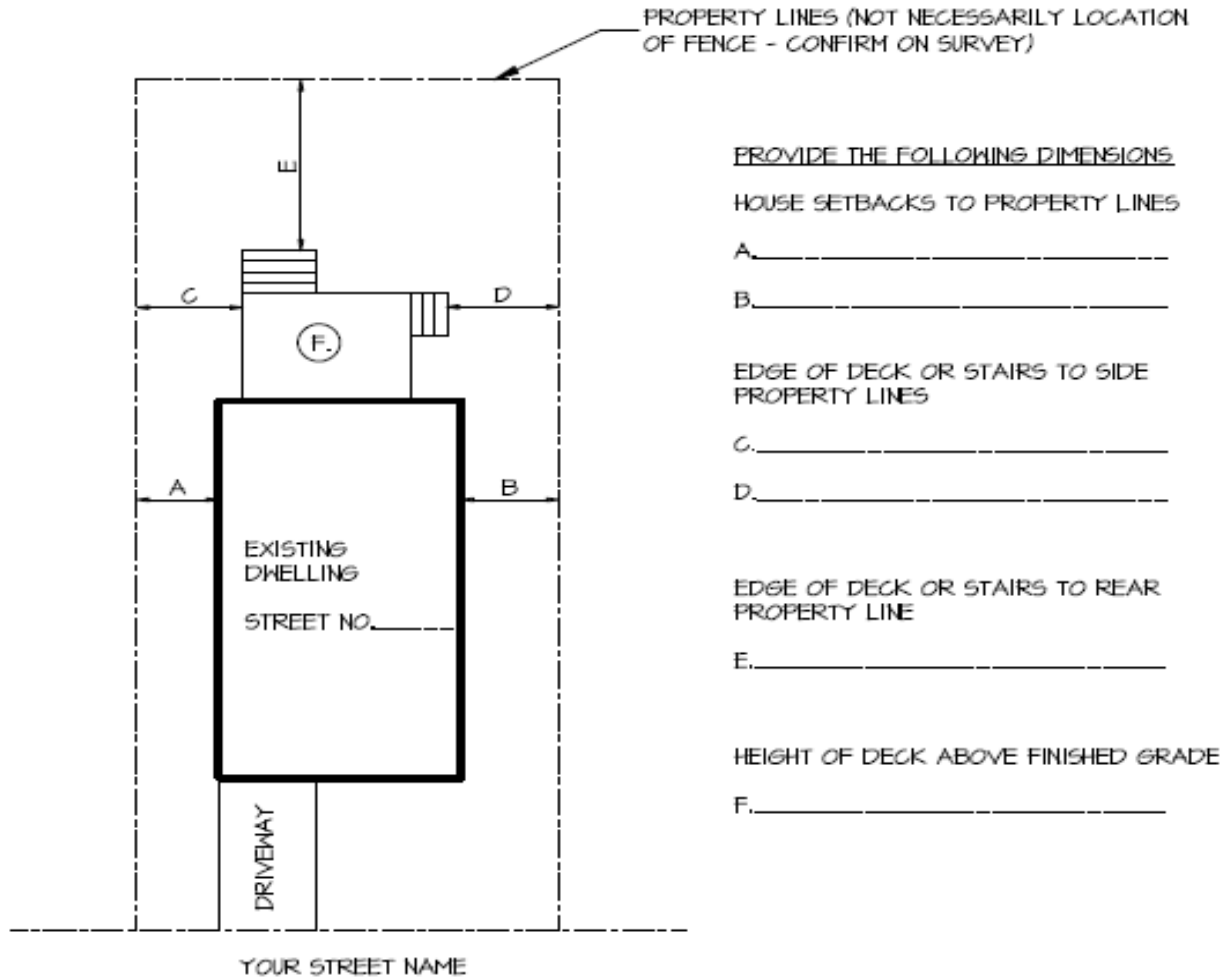
Rules for all decks

- Maximum height of a privacy screen (including ornamental features) is 2 metres
- Height of privacy screen is measure from deck floor to highest point
- Solid roof and/or walls are not permitted (it then becomes an addition to the house)
- Steps must be outside of the minimum setback requirements

If there is a Residential Accessory Structure (i.e. gazebo or patio shelter) on top of the deck the Residential Accessory Structure setbacks apply to that structure (separate handout available).

****Height is measured from the average grade to the deck floor.***

SAMPLE SITE PLAN



PROVIDE THE FOLLOWING DIMENSIONS

HOUSE SETBACKS TO PROPERTY LINES

A. _____

B. _____

EDGE OF DECK OR STAIRS TO SIDE PROPERTY LINES

C. _____

D. _____

EDGE OF DECK OR STAIRS TO REAR PROPERTY LINE

E. _____

HEIGHT OF DECK ABOVE FINISHED GRADE

F. _____

* USE SURVEY TO SHOW SETBACKS (PROVIDED WITH HOUSE PURCHASE) OR SKETCH DRAWN TO SCALE

* THE SETBACKS FROM THE EDGE OF THE DECK OR EDGE OF STAIRS (WHERE APPLICABLE) ARE SET OUT BY THE TOWN OF NEWMARKET COMPREHENSIVE ZONING BY-LAW 2010-40

* LAKE SIMCOE REGION CONSERVATION AUTHORITY APPROVAL MAY BE REQUIRED DEPENDING ON YOUR ADDRESS

* CONSIDER CONTACTING SOMEONE IN THE PLANNING OFFICE FOR YOUR ZONING AND SETBACK REQUIREMENTS BEFORE APPLYING FOR A BUILDING PERMIT

Site plan measurements and scale to be in metric.

Deck Permit Specifications

Joist Span	Pier Size				Beam Size				Joist Size
	Pier Spacing				Pier Spacing				
	6'	8'	10'	12'	6'	8'	10'	12'	
6'	8" dia.	10" dia.	10" dia.	12" dia.	2/2"x 6"	2/2"x 6"	2/2"x 8"	2/2"x 10"	**2 x 6
8'	10" dia.	10" dia.	12" dia.	12" dia.	2/2"x 6"	2/2"x 6"	2/2"x 8"	2/2"x 10"	**2 x 6
10'	10" dia.	12" dia.	12" dia.	<u>*12" dia.</u>	2/2"x 6"	2/2"x 8"	2/2"x 10"	2/2"x 12"	2 x 8
12'	10" dia.	12" dia.	<u>*12" dia.</u>	<u>*12" dia.</u>	2/2"x 6"	2/2"x 8"	2/2"x 10"	2/2"x 12"	2 x 10

Wood Deck (2500 PSF)

***NOTE:** Piers with these spacing and joist spans might require bell-out at the bottom or footing.

****NOTE:** All joist sizes shall be a minimum 2"x 8" with joists spaced not more than 16" on centre where the deck is more than 2'- 0" above adjacent grade.

BEAM SIZING TABLE

SUPPORTED JOIST LENGTH (mm)	LIVE LOAD 1.9 kPa			LIVE LOAD 2.5 kPa			LIVE LOAD 3.0 kPa		
	PIER SPACINGS (mm)			PIER SPACINGS (mm)			PIER SPACINGS (mm)		
	2000	3000	4000	2000	3000	4000	2000	3000	4000
1500	2/38x140	2/38x184	3/38x235	2/38x140	3/38x184	3/38x235	3/38x140	2/38x235	2/38x286
2000	2/38x140	3/38x184	3/38x235	2/38x184	2/38x235	3/38x286	2/38x184	2/38x235	3/38x286
2500	2/38x184	2/38x235	3/38x286	2/38x184	3/38x235	3/38x286	2/38x184	3/38x235	4/38x286
3000	2/38x184	2/38x235	3/38x286	2/38x184	3/38x235	4/38x286	2/38x184	3/38x235	4/38x286
3500	2/38x184	3/38x235	3/38x286	2/38x184	3/38x235	4/38x286	3/38x184	3/38x286	N/A
4000	2/38x184	3/38x235	4/38x286	2/38x184	3/38x286	N/A	3/38x184	3/38x286	N/A

JOIST SIZING TABLE

JOIST SPAN (mm)	LIVE LOAD 1.9 kPa			LIVE LOAD 2.5 kPa			LIVE LOAD 3.0 kPa		
	JOIST SPACING (mm)			JOIST SPACING (mm)			JOIST SPACING (mm)		
	300	400	600	300	400	600	300	400	600
2000	38x140	38x140	38x140	38x140	38x140	38x140	38x140	38x140	38x140
2500	38x140	38x140	38x184	38x140	38x140	38x184	38x140	38x184	38x184
3000	38x140	38x184	38x184	38x184	38x184	38x235	38x184	38x184	38x235
3500	38x184	38x184	38x235	38x184	38x235	38x235	38x235	38x235	38x235
4000	38x235	38x235	38x286	38x235	38x235	38x286	38x235	38x235	38x286

FOOTING SIZES

SOIL BEARING CAPACITIES (kPa)	
SOIL TYPE	BEARING PRESSURE (kPa)
SOFT CLAY	40
LOOSE SAND OR GRAVEL	50
FIRM CLAY	75
DENSE OR COMPACT SILT	100
STIFF CLAY	130
DENSE COMPACT SAND OR GRAVEL	150
TILL	200
CLAY SHALE	300
SOUND ROCK	500

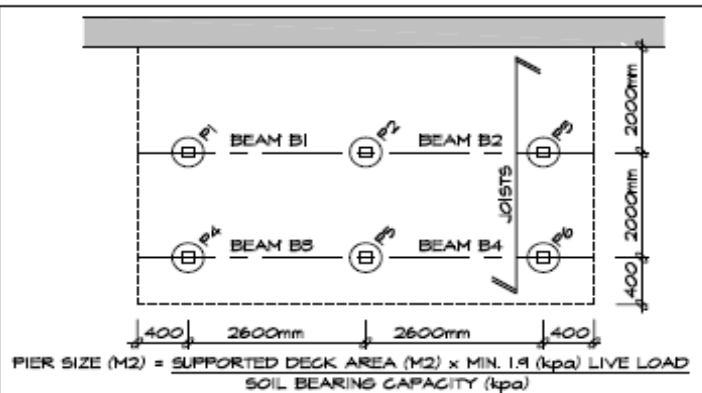
PIER SIZES

DIAMETER (mm)	M ²
200	0.03
250	0.05
300	0.08
350	0.10
400	0.13
500	0.20
600	0.30

POST SIZING TABLE

POST SIZE (mm)	MAXIMUM HEIGHT (M)	MAX. SUPPORTED DECK AREA (M ²)		
		LIVE LOAD (kPa)		
		1.9	2.5	3.0
84x84	1.0	10.86	8.71	7.48
	1.5	5.93	4.76	4.09
	2.0	3.15	2.55	2.17
140x140	2.0	15.67	10.98	9.43
	2.5	9.32	7.48	6.43
	3.0	6.35	5.10	4.38
	3.5	4.41	3.54	3.04

EXAMPLE PLAN	PIERS	SUPPORTED DECK AREA
	P1	2 x 1.7 = 3.4m ²
	P2	2 x 2.6 = 5.2m ²
	P3	2 x 1.7 = 3.4m ²
	P4	1.4 x 1.7 = 2.4m ²
	P5	1.4 x 2.6 = 3.6m ²
	P6	1.4 x 1.7 = 2.4m ²
	BEAMS	SUPPORTED JOIST LENGTH
	B1	2000mm
	B2	2000mm
B3	1400mm	
B4	1400mm	
BEAM SPAN = 2600mm		
JOIST SPAN = 2000mm		



GENERAL NOTES

- A MINIMUM LIVE LOAD OF 1.9 (kPa) SHALL BE APPLIED IN ALL LOCATIONS.
- THE PRESCRIBED SNOW LOAD FOR 225 SELECTED ONTARIO LOCATIONS IS INDICATED IN COLUMN 12 OF TABLE 1.2 IN SUPPLEMENTARY GUIDELINE SB-1 OF THE ONTARIO BUILDING CODE. THE SNOW LOAD SHALL BE APPLIED AS THE MINIMUM LIVE LOAD WHERE IT IS GREATER THAN 1.9 (kPa).
- A SITE PLAN OR SURVEY IS REQUIRED SHOWING ALL LOT LINES & DIMENSIONS, SIZE & LOCATION OF ALL EXISTING BUILDINGS & DECKS.
- LUMBER NO. 2 SPF OR BETTER WOOD POSTS MIN. 84x84 (SOLID). USE CORROSION RESISTANT SPIRAL NAILS OR SCREWS.
- A DECK IS NOT PERMITTED TO BE SUPPORTED ON BRICK VENEER.
- CANTILEVERED JOISTS AND BEAMS ARE LIMITED TO 1/6 THE MEMBERS LENGTH.
- CONCRETE PIERS SHALL BEAR ON UNDISTURBED SOIL. THE BEARING CAPACITY OF THE SOIL SHALL BE DETERMINED PRIOR TO CONSTRUCTION.
- MAXIMUM HEIGHT REFERS TO THE HEIGHT OF THE POST FROM THE TOP OF THE PIER TO THE DECK SURFACE.
- BEAMS WITH MORE THAN 2 MEMBERS MUST BE SUPPORTED BY 140x140 POSTS.
- THE ALLOWABLE SOIL BEARING PRESSURE SHALL BE REDUCED BY 50% WHILE THE WATER IS AT OR NEAR THE BOTTOM OF THE FOOTING EXCAVATION.
- CONTACT YOUR LOCAL BUILDING DEPARTMENT FOR FURTHER INFORMATION ABOUT LOCAL SOIL BEARING CAPACITIES.
- JOISTS SPANNING MORE THAN 2100mm ARE TO HAVE BRIDGING AT LEAST EVERY 2100mm O.C.

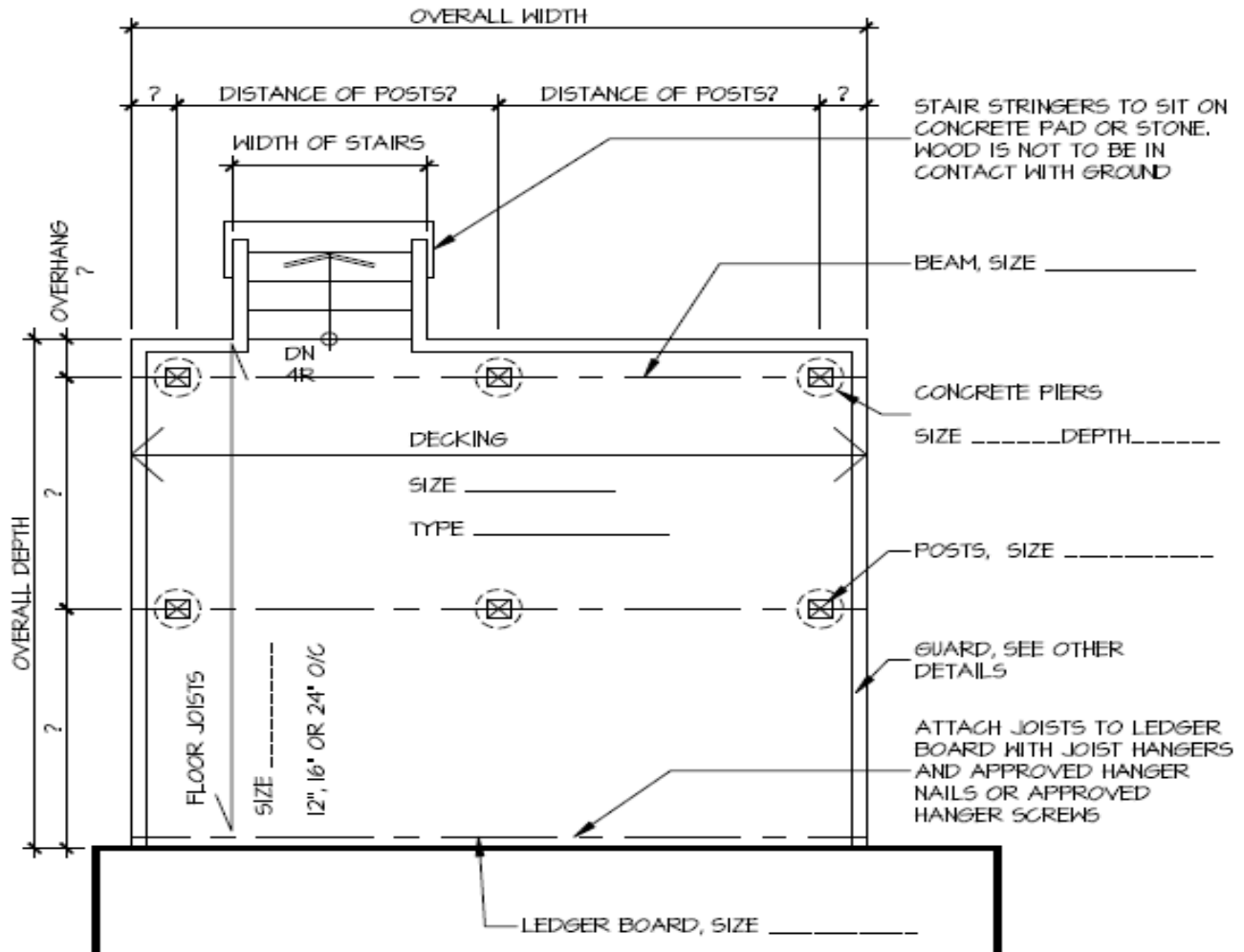
TACBOC
STANDARD DETAIL

TITLE
WOOD DECK
STRUCTURAL SIZING TABLES

DWG. NO.
Dold
2007

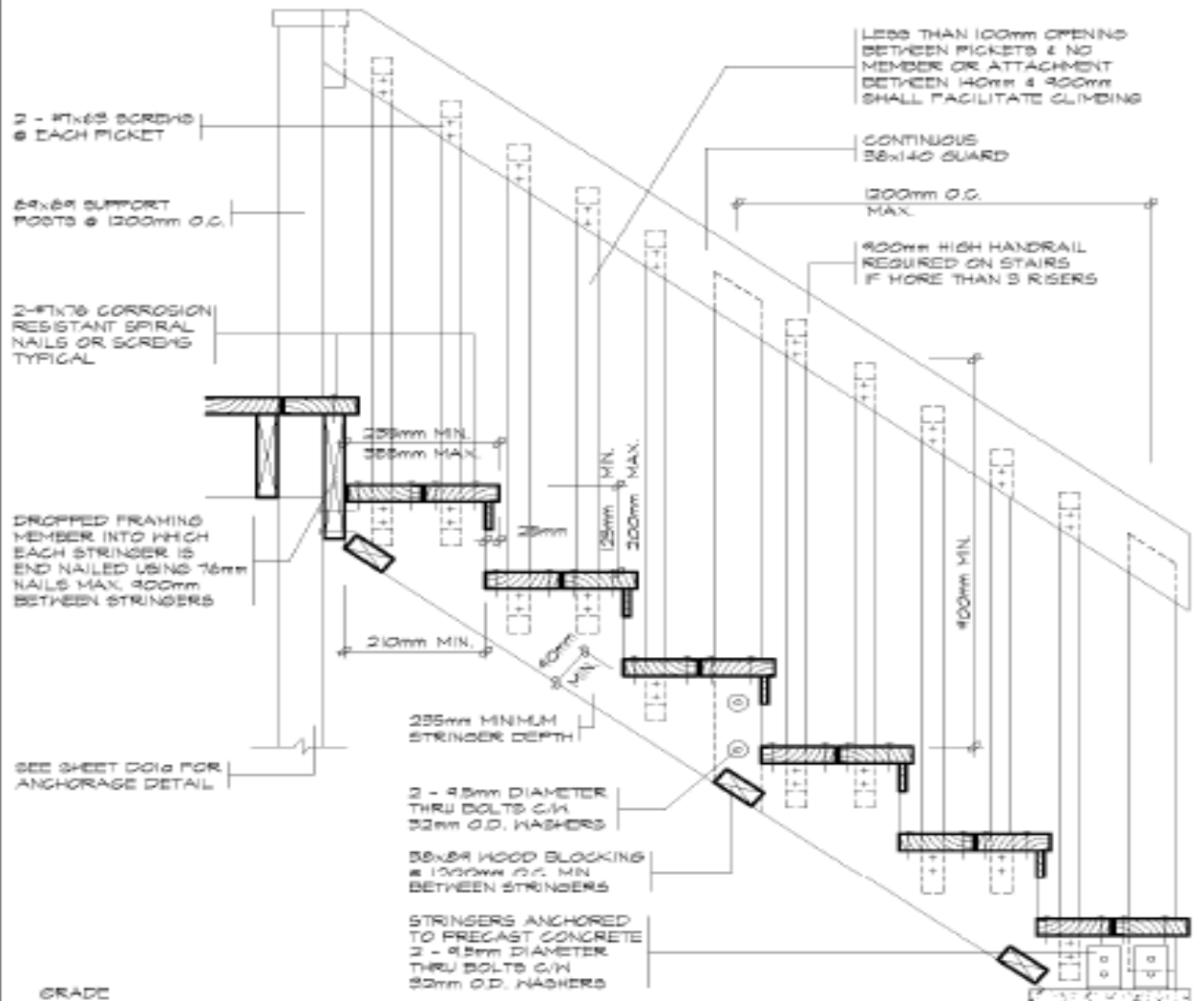
SAMPLE FLOOR PLAN

(EXAMPLE ONLY, REFER ALSO TO THE ONTARIO
BUILDING CODE AND TACBOC STANDARD DETAILS)



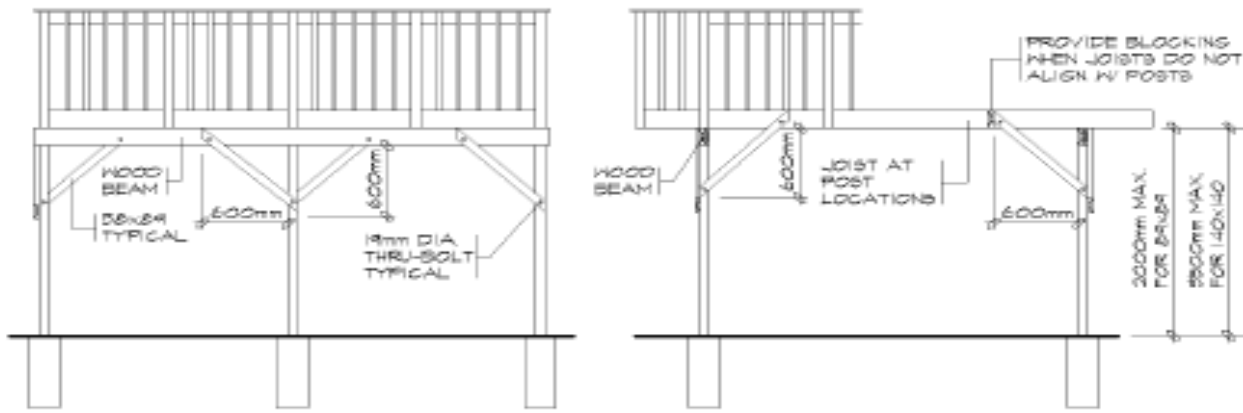
- * LEDGER BOARD TO BE ATTACHED TO HOUSE WITH MIN. 1/2" CONNECTORS AT MAX. 32" CENTRES
- * PROVIDE TYPE OF MATERIAL USED FOR STRUCTURE
- * PROVIDE TYPE OF MATERIAL USED FOR DECKING
- * PROVIDE TYPE OF MATERIAL USED FOR GUARD
- * GUARD REQUIRED AT ANY PORTION OF DECK THAT IS 24" ABOVE GRADE OR MORE

***LAG BOLT TO MASONRY VENEER IS NOT
CONSIDERED A STRUCTURAL CONNECTION**



GRADE

SECTION 'B'



BRACING PARALLEL TO BEAM

BRACING PERPENDICULAR TO BEAM

FREE STANDING DECKS GREATER THAN 600mm ABOVE GRADE SHALL RESIST LATERAL LOADING & MOVEMENT. ALL POSTS MUST BE BRACED WHERE THE SUPPORTED AREA EXCEEDS THOSE LISTED IN THE TABLE ON D01d

TACBOC
STANDARD DETAIL

FILE
WOOD DECK
STAIR SECTION
LATERAL SUPPORT FOR FREE STANDING DECKS

DRG. NO.
D01c
2007

SAMPLE SECTION

(EXAMPLE ONLY, REFER ALSO TO THE ONTARIO BUILDING CODE AND TAGBOC STANDARD DETAILS)

