

GENERAL NOTES:

1. CONFORM TO THE REQUIREMENTS OF SUPPLEMENTARY STANDARD SB-7 OF THE 2006 ONTARIO BUILDING CODE.
2. ALL WOOD MATERIALS TO BE S-P-F PRESSURE-TREATED WITH A WATER-BORNE PRESERVATIVE, OR UNTREATED CEDAR AS PER SB-7. GRADES AS INDICATED ON DRAWINGS.
3. ALL FASTENERS TO HAVE A CORROSION RESISTANT COATING AS PER SB-7, SUITABLE FOR USE WITH PRESSURE TREATED WOOD.
4. VERTICAL RAILS AND BALUSTERS HAVE BEEN DESIGNED IN ACCORDANCE WITH 2006 OBC AND 2005 NBCC SECTION 9.8.8.2 FOR THE FOLLOWING LOADS:
 - (i) 113 LB (0.5 kN) HORIZONTAL CONCENTRATED LOAD AT ANY POINT APPLIED OVER THREE BALUSTERS (COLONIAL, CLASSIC, BAROQUE, ARC, TRADITIONAL). LOAD IS APPLIED OVER TWO GLASS BALUSTERS.
 - (ii) A UNIFORM VERTICAL LOAD OF 100 PLF (1.5 kN/m) APPLIED TO THE TOP OF THE GUARD.
5. FLAT TOP RAIL IS DESIGNED TO RESIST THE FOLLOWING HORIZONTAL LOADS:
 - (i) 0.5 kN/m (34 lb/ft)
OR
 - (ii) 1.0 kN (225 lb)
CONCENTRATED LOAD AT ANY POINT,
WHICHEVER GOVERNS.
6. DRAWINGS S-1 TO S-13 ARE FOR THE DESIGN OF THE RAILS, BALUSTERS AND RAIL BRACKETS ONLY. ALL OTHER COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE.
7. METAL PICKETS SHALL NOT BE IN DIRECT CONTACT WITH PRESSURE TREATED WOOD.
8. THESE DETAILS ARE FOR USE IN HOUSES AND SMALL BUILDINGS CONFORMING TO THE REQUIREMENTS OF PART 9 OF THE 2006 ONTARIO BUILDING CODE AND THE 2005 NATIONAL BUILDING CODE. THESE DETAILS ARE FOR GUARDS NOT SERVING NOT MORE THAN TWO DWELLING UNITS.
9. DESIGN IS VALID UNTIL DECEMBER 31, 2012.

COMPONENTS

- ① LIV OUTDOOR NYLON RAIL BRACKET c/w 3-No.10 x 2" STAINLESS STEEL WOOD SCREWS TO POST AND 2-No.10 x 2" WOOD SCREWS TO END OF RAIL.
- ② 3/4" DIAMETER CLASSIC AND COLONIAL BALLUSTER WITH LIV OUTDOOR BALUSTER CONNECTORS, 3/4" x 3/4" SQUARE ESTATE BALUSTERS, 1" WIDE x 1/2" FLAT TRADITIONAL BALUSTERS, 1" WIDE FLAT BAROQUE OR ARC BALUSTERS, 4" WIDE x 0.31" THICK TEMPERED GLASS BALUSTERS, ALL BY DECKORATORS
- ③ 4x4 POSTS (MINIMUM) ANCHORED TO FLOOR STRUCTURE IN ACCORDANCE WITH DETAIL EB-5 TO EB-6 OF SB-7 OF THE ONTARIO BUILDING CODE.
- ④ 2x4 (FLAT) TOP RAIL FASTENED TO POSTS USING TWO 3" TOE-NAILS AS PER DETAIL EA-2 OF SB-7 OF THE ONTARIO BUILDING CODE.
- ⑤ 2x4 (FLAT) TOP RAIL - NO.2 OR BETTER PRESSURE TREATED S-P-F, OR SELECT STRUCTURAL CEDAR.
- ⑥ FASTEN 2x4 (FLAT) RAIL TO 2x4 VERTICAL RAIL WITH 3" LONG NO. 8 WOOD SCREWS AT 16" o/c. FACE SCREW FROM TOP OR TOE-SCREW FROM BELOW.
- ⑦ 2x4 RAIL - NO.2 OR BETTER PRESSURE TREATED S-P-F, OR SELECT STRUCTURAL CEDAR, OR 1-1/2" x 3-1/2" ALUMINUM PROFILE FROM LIVOUTDOOR.
- ⑧ 1" x 3-1/2" CLEAR, STRAIGHT GRAIN, DARK RED MERANTI
- ⑨ 1-1/2" DIAMETER ALUMINUM PIPE RAIL BY DECKORATORS
- ⑩ DECORATORS PIPE BRACKET c/w 3-No.8 x 2" WOOD SCREWS TO POST.



1. COMPONENT 7 NOTE REVISED JULY 26-11

SCALE: NTS		 <p>QUAILE ENGINEERING LTD.</p> <p>38 Parkside Drive, UNIT 7 Newmarket, ON L3Y 8J9 T: 905-853-8547 F: 905-853-7682 E: quaile.eng@rogers.com</p>	ENGINEER'S SEAL		PROJECT:	
DATE: JULY 26, 2010			 <p>LICENSED PROFESSIONAL ENGINEER S. J. BOYD PROVINCE OF ONTARIO</p> <p>JUNE 24, 2011</p>	LIVOUTDOOR INTERNATIONAL RESIDENTIAL GUARD		
DRAWN SJB	CHECKED SJB			GENERAL NOTES		
			PROJECT No.:	DRAWING No.:		
			11-120	S6 R1		