



RESIDENTIAL ENGINEERING SERVICES, LLC  
 INSPECTIONS · CONSULTING · ENVIRONMENTAL

September 28, 2016

Millcreek #118 - 401 SE Mill Creek Cir  
 Summit Custom Homes  
 120 SE 30<sup>th</sup> St.  
 Lee's Summit, Mo 64082

**RE: Plumbing holes cut in web of I-joist**

- Plumbing holes shall be permitted in the web of the I-joist according to the following manufacturer's specifications:

**BCI® Joist Hole Location & Sizing**

BCI® Joists are manufactured with 1/2" round perforated knockouts in the web at approximately 12" on center

MINIMUM DISTANCE (D) FROM ANY SUPPORT TO THE CENTERLINE OF THE HOLE		2	3	4	5	6	6 1/2	7	8	8 1/2	9	10	11	12	13
Round Hole Diameter [in]															
Rectangular Hole Side [in]				3	5	8	7								
Any 2x4 Joist	Span 16	8	1'-0"	1'-1"	1'-5"	2'-1"	2'-6"	3'-1"	3'-5"						
	Span 12	1'-0"	1'-2"	2'-2"	3'-2"	4'-2"	4'-8"	5'-2"							
	Span 16	1'-0"	1'-7"	2'-11"	4'-3"	5'-7"	6'-3"	6'-11"							

Select a table row based on joist depth and the actual joist span rounded up to the nearest table span. Scan across the row to the column headed by the appropriate round hole diameter or rectangular hole side. Use the longest side of a rectangular hole. The table value is the closest that the centerline of the hole may

- Existing hole may be repaired by screwing and gluing plywood to each side of the web sufficiently for the area removed.

Sincerely,

Bradley Huxol, PE

