



Elite Electronic Engineering, Inc.  
1516 Centre Circle  
Downers Grove, IL 60515  
630-495-9770  
www.elitetest.com

**NOTE: FOR ELITE CUSTOMER USE ONLY.** Information listed here is subject to revision without notice. Actual chamber performance will depend on test item and specification requirements. Contact Elite for current test equipment information and test application assistance.

**EMI CHAMBER DESCRIPTION**

**TEST SUITE 11**

**Test Room ID: R11M**

<b>Description:</b>	ANECHOIC ABSORBER-LINED UNIVERSAL TEST ENCLOSURE
<b>Primary Testing Uses:</b>	MIL-STD, CISPR, CE MARK, DO-160
<b>Dimensions:</b>	Outside 5.8m x 6.1m x 4.2m (19ft. x 20ft. x 14ft) Inside/Usable 5.18m x 5.48m x 3.96m (17ft. x 18ft. x 13ft.) [See Figure – 5 below]
<b>Construction:</b>	Galvanized Steel Ferrite tiles placed on all four walls and the ceiling. RF absorber placed on all four walls and the ceiling. <i>Ground Plane Bonding: Brass Brackets</i>
<b>Ground Plane Dimensions:</b>	4.88m x 1.88m x 0.78mm (16ft. x 6ft. x 0.031in.); Removable [see Figure – 5 below]
<b>Distance from Cable Tunnel to Front of Ground Plane:</b>	2.16m (85in.)
<b>Room Filters:</b>	(2) 30A DC Filtered Lines (2) 50A DC Filtered Lines
<b>Power Availability:</b>	115VAC, 400Hz, 3Phase, 30A Filtered AC Power 115VAC, 60Hz, 3Phase, 50A Filtered AC Power 115VAC, 60Hz, 1Phase, 20A Outlets <b>Note: Other power arrangements are available upon request.</b>



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**Monitor Room ID: R11P**

<b>Description:</b>	MONITOR ENCLOSURE
<b>Dimensions:</b>	4.88m x 2.44m x 3.05m (16ft x 8ft x 10ft) [see Figure – 5 below]
<b>Construction:</b>	1 Layer Bronze Screen 1 Layer 3oz. Copper <i>Ground Plane Bonding: Copper Straps</i>
<b>Ground Plane Dimensions</b>	(2) 2.44m x 0.76m x 0.78mm (8ft x 2.5ft x 0.031in) [see Figure – 5 below]
<b>Distance from Cable Tunnel to Front of Ground Plane:</b>	1.06m (42in)
<b>Room Filters:</b>	(2) 30A DC Filtered Lines (3) 30A DC/AC Filtered Lines
<b>Power Availability:</b>	115VAC 60Hz 1Phase 20 Amp Outlets <b>Note: Other power arrangements are available upon request.</b>
<b>General Cabling Considerations:</b>	<p>Please note that the distance from the front edge of the monitor room table and the test room ground plane is <u>10ft 7in</u>. Plan cable lengths accordingly.</p> <p><b>Mil Std Tests:</b>  <i>Power and interconnect leads need to be 2 meters in length within 10cm of the front of the ground plane. (Ref 461E section 4.3.8.6.1 &amp; 4.3.8.6.2)</i></p> <p><b>DO-160 Tests:</b>  <i>Power leads need to be 1 meter in length within 10 cm of the front of the ground plane. Interconnect leads need to have 3.3 meters exposed and at least 1 meter within 10 cm of the front of the ground plane. (Ref DO-160G Section 20.3)</i></p>

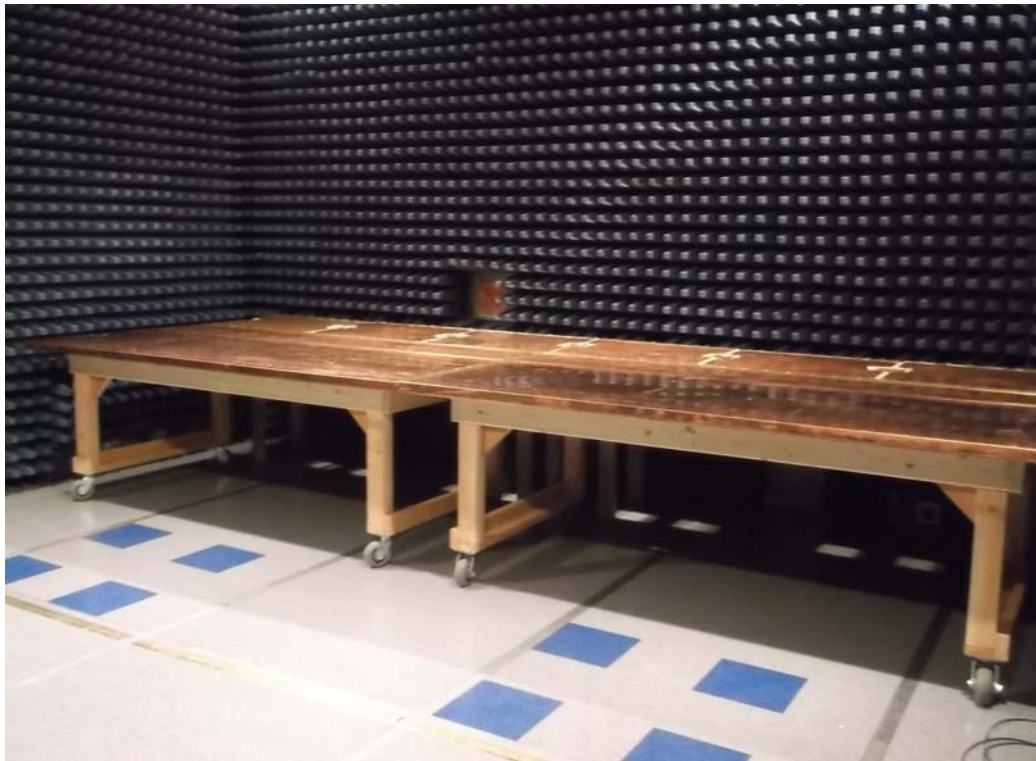


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**Figure - 1: Room 11M (Test Room)**



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**Figure - 2: Room 11P (Monitor Room)**



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**Figure – 3:** Room R11P (Monitor Room) Upper & Lower waveguide locations (View from outside chamber)

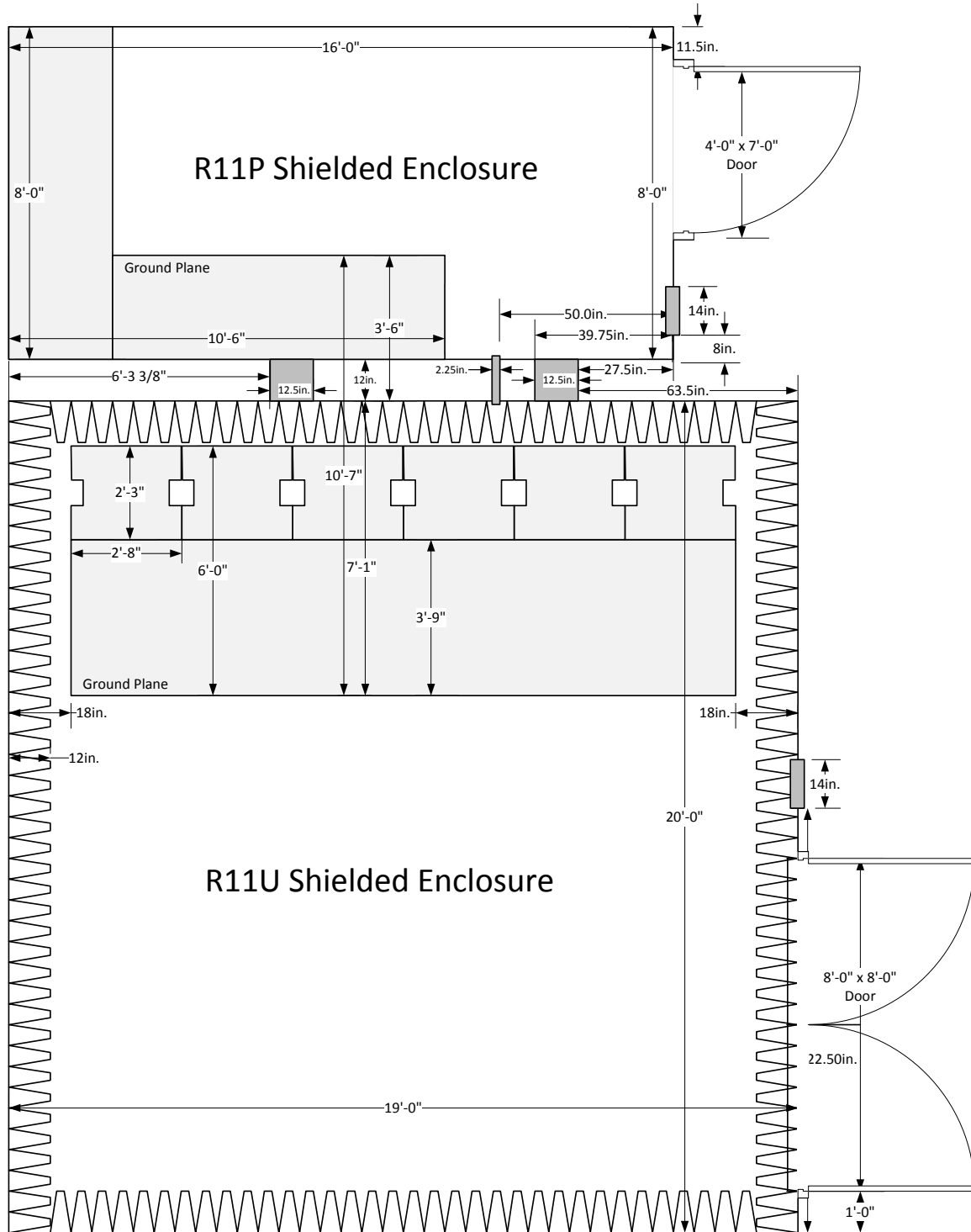


**Figure – 4:** Room R11P (Monitor Room) Lower Waveguide opening (View from inside chamber)



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**Figure - 5: Rooms 11M and 11P**

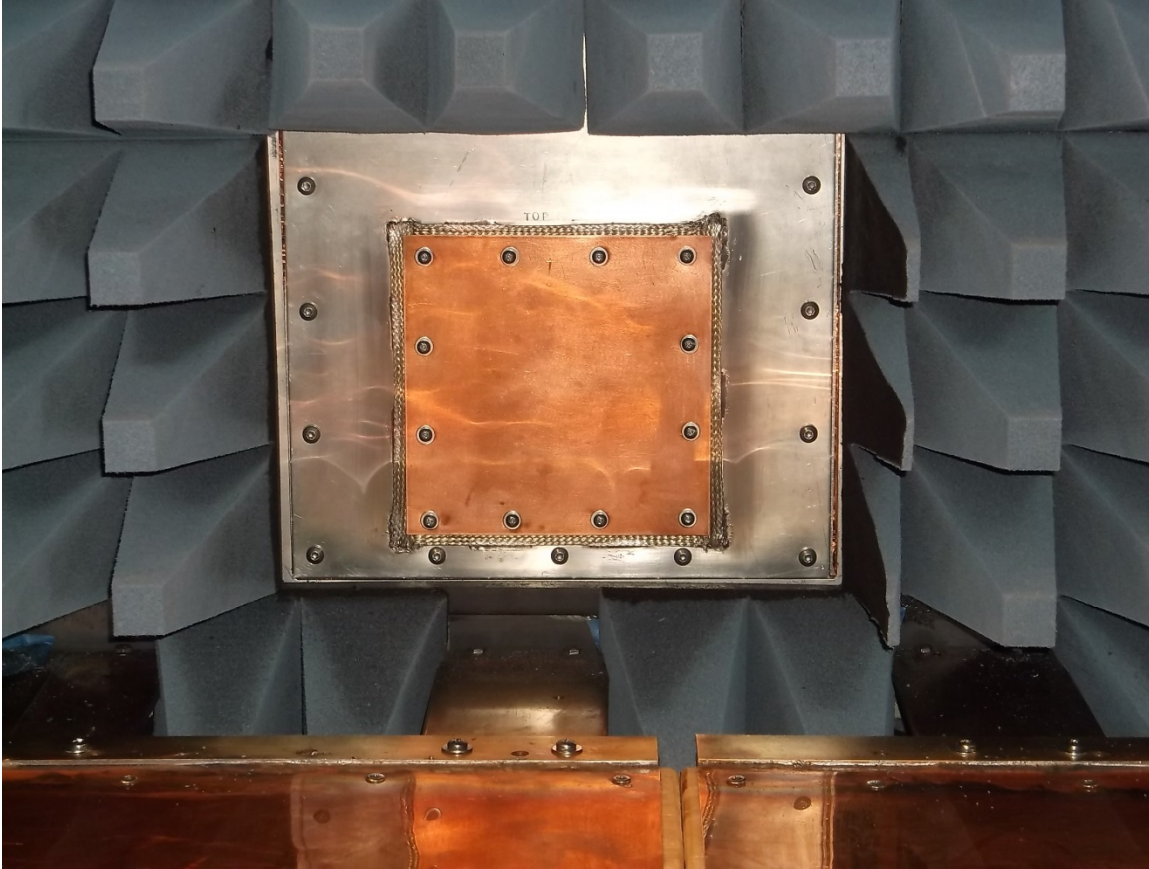


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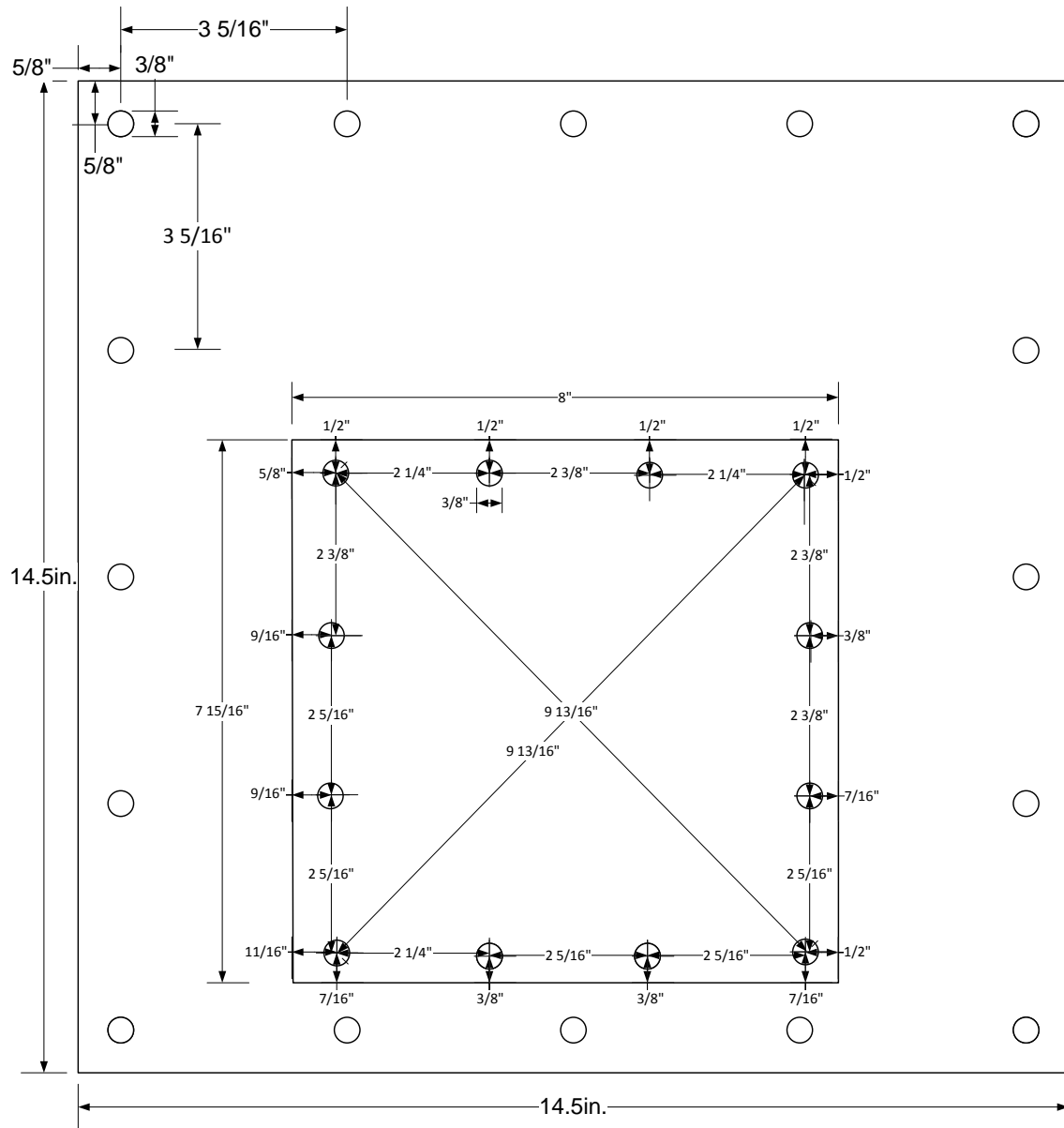


**Figure – 6: Room 11M Waveguide Mount (Test Room)**



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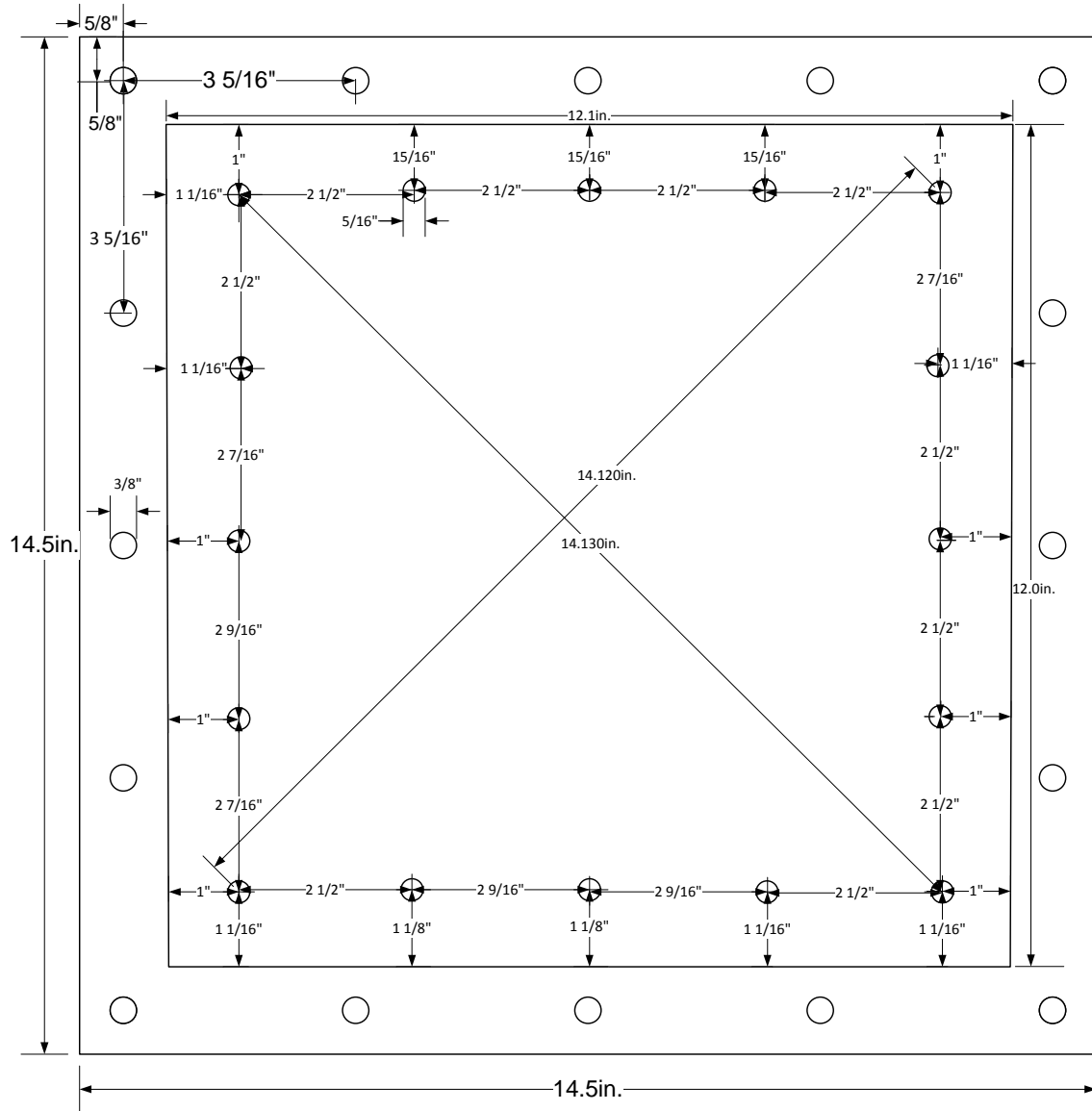
**Figure – 7: Room R11U (Test Room) Large Waveguide Plate with 8 inch Copper Plate with Dimensions**





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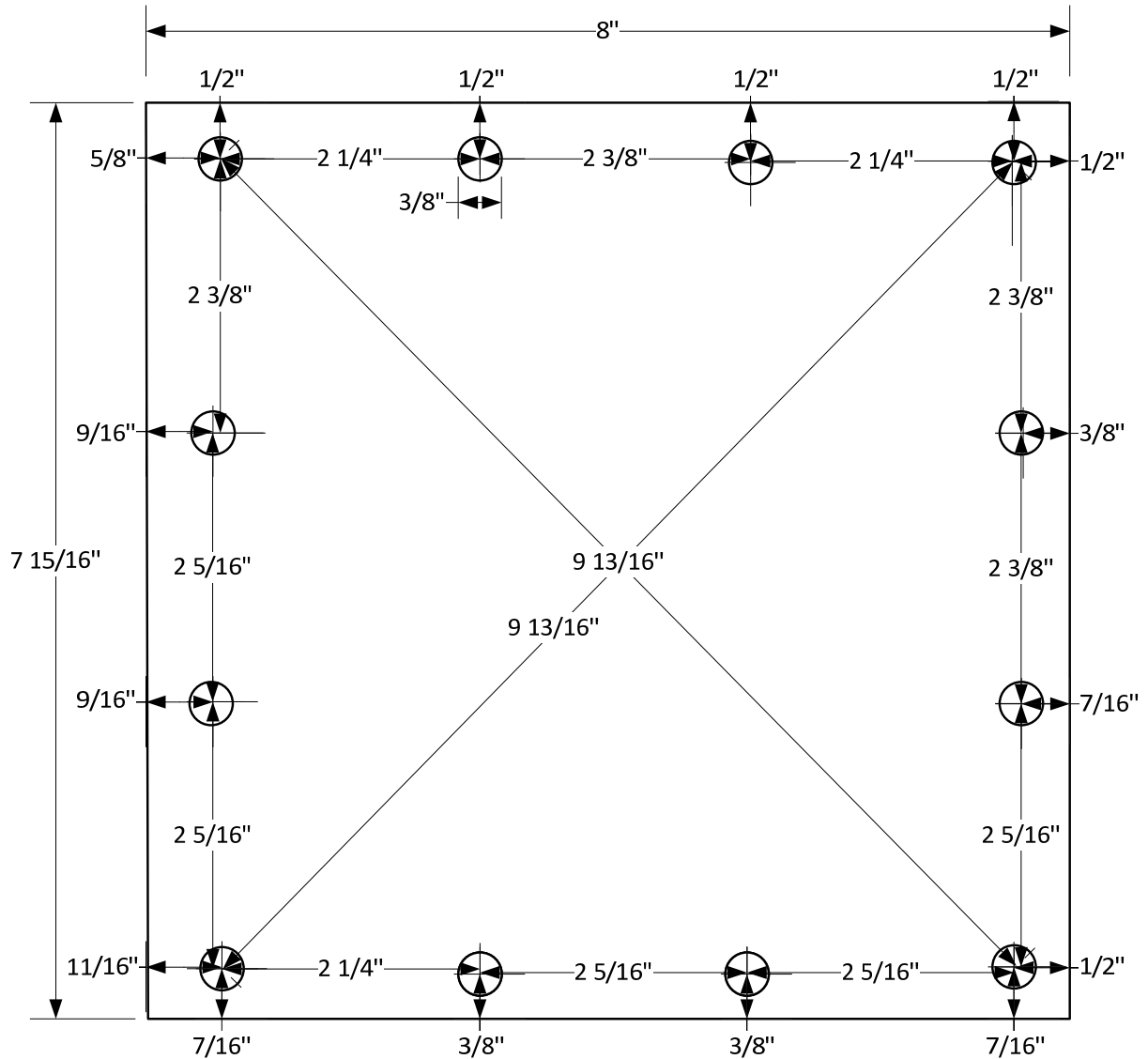


**Figure – 8: Room R11U (Test Room) Large Waveguide Plate with 12 inch Copper Plate with Dimensions**



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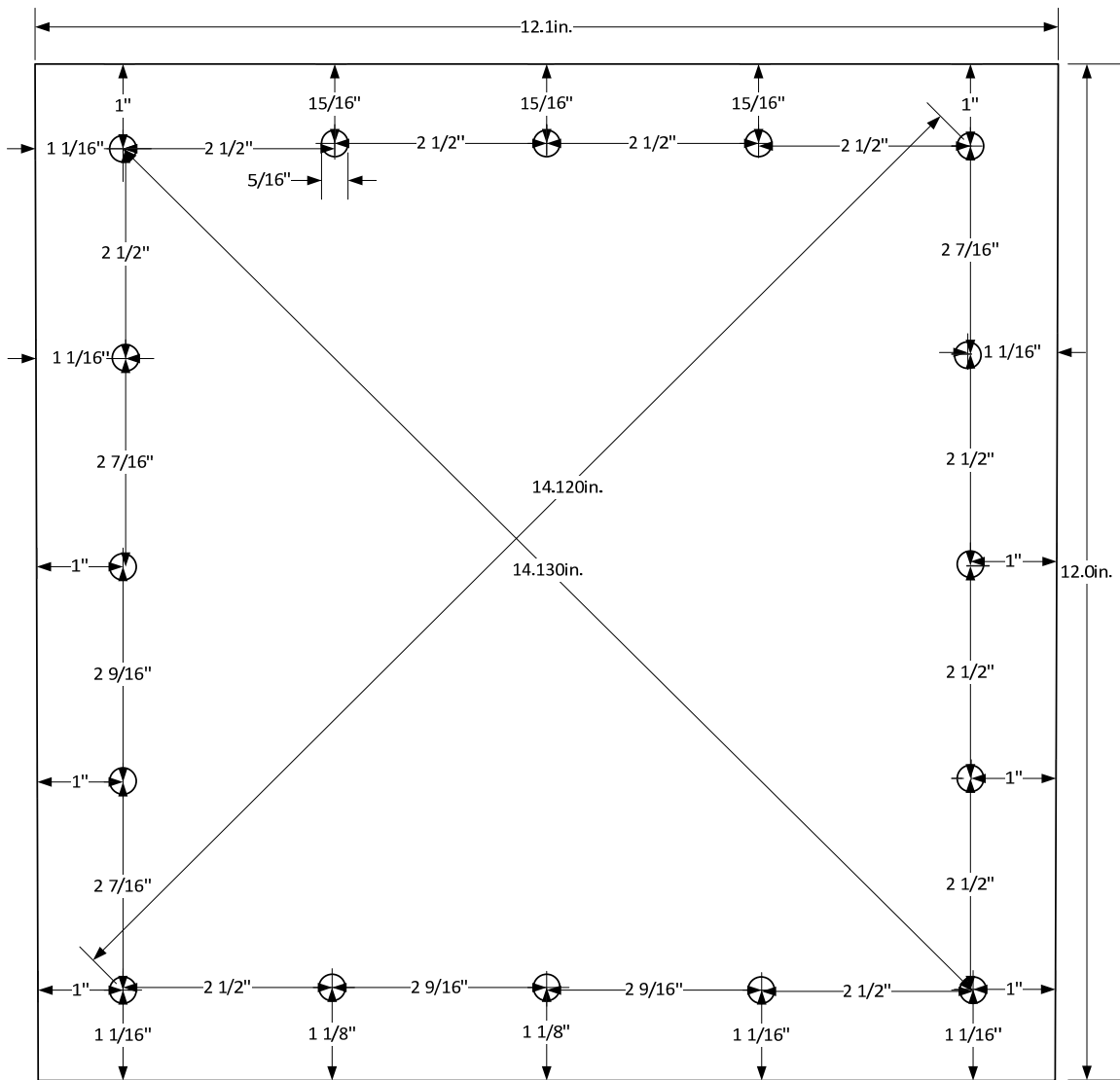


**Figure – 9: Room R11U (Test Room) 8 Inch Copper Plate w/ Dimensions**



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**Figure – 10: Room R11U (Test Room)  
12 Inch Copper Plate w/ Dimensions**

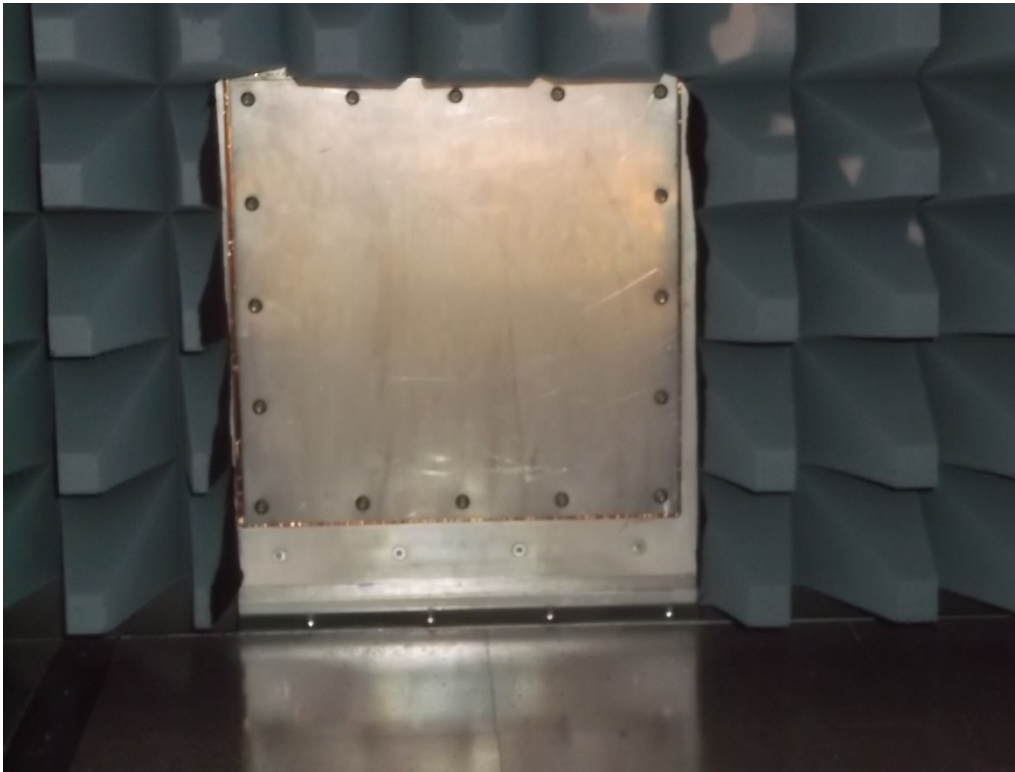


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**Figure – 11:** Room 11U Waveguide Opening  
(Below Ground Plane Test Room)