



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.

EMC CHAMBER DESCRIPTION

TEST SUITE 22

Test Room ID: R22A

Description:	Semi-Anechoic Shielded Whole Vehicle Test Enclosure
Primary Testing Uses:	Automotive, MIL-STD
Dimensions:	21.30m x 10.67m x 5.49m (70ft x 33ft x 18ft) Chamber Door Opening: 5.00m H x 4.98m W (16.4ft H x 16.3ft W) Garage Access Door Opening: 4.21m H x 6.65m W (13.8ft H x 21.8 [see Figure - 4 below])
Construction:	3oz. Copper RF absorber placed on all four walls and the ceiling RF hardened Camera systems used for monitoring for susceptibility test
Ground Plane Dimensions:	No table mount ground plane 19.51m x 6.55m (64.0ft x 21.5ft) accessible ground plane on floor of chamber
Room Filters:	(1) 30A DC Filtered Line
Power Availability:	230VAC (Delta), 60Hz, 3Phase, 30 Amp 120VAC, 60Hz, 1Phase, 30 Amp 115VAC, 60Hz, 1Phase, 15 Amp outlets 480VAC, 60Hz, 3Phase, 100 Amp available at enclosure Note: Other power arrangements are available upon request.
Ventilation:	(3) 10,000CFM Fans exhausting outside of enclosure. (1) 40in by 30in windows with window flaps for rain protection. (2) External window flaps adjusted from outside for rain protection. (2) 3ft by 3ft Louvered Roof Vents.
Exhaust Outlets:	(2) 12in diameter (stainless steel pipe through enclosure ceiling.) 16ft above the floor (1) 5.25in diameter (galvanized steel pipe through east side of enclosure)



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EMC CHAMBER DESCRIPTION

TEST SUITE 22

Test Room ID: R22P

Description:	Shielded Monitor Enclosure
Primary Testing Uses:	Automotive, MIL-STD
Dimensions:	10.67m x 5.18m x 3.05m (35ft x 17ft x 10ft) [see Figure - 4 below]
Construction:	3oz. Copper Continuous Copper Tape for Ground Plane Bonding
Ground Plane Dimensions:	2.44m x 0.76m x 0.78mm (8ft x 2.5ft x 0.031in) [see Figure - 4 below]
Room Filters:	(1) 30A DC Filtered Line
Power Availability:	208VAC, 60Hz, 3Phase, 30A Filtered AC Power 115VAC, 60Hz, 1Phase, 15A Outlets Note: Other power arrangements are available upon request.
Distance from Cable Tunnel to front of Ground Plane:	76.2cm (30in)



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Figure – 1: Room 22A (Test Room)





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Figure – 2: Room 22A (Test Room)



Figure – 3: Room 22P (Monitor Room)



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TEST SUITE 22

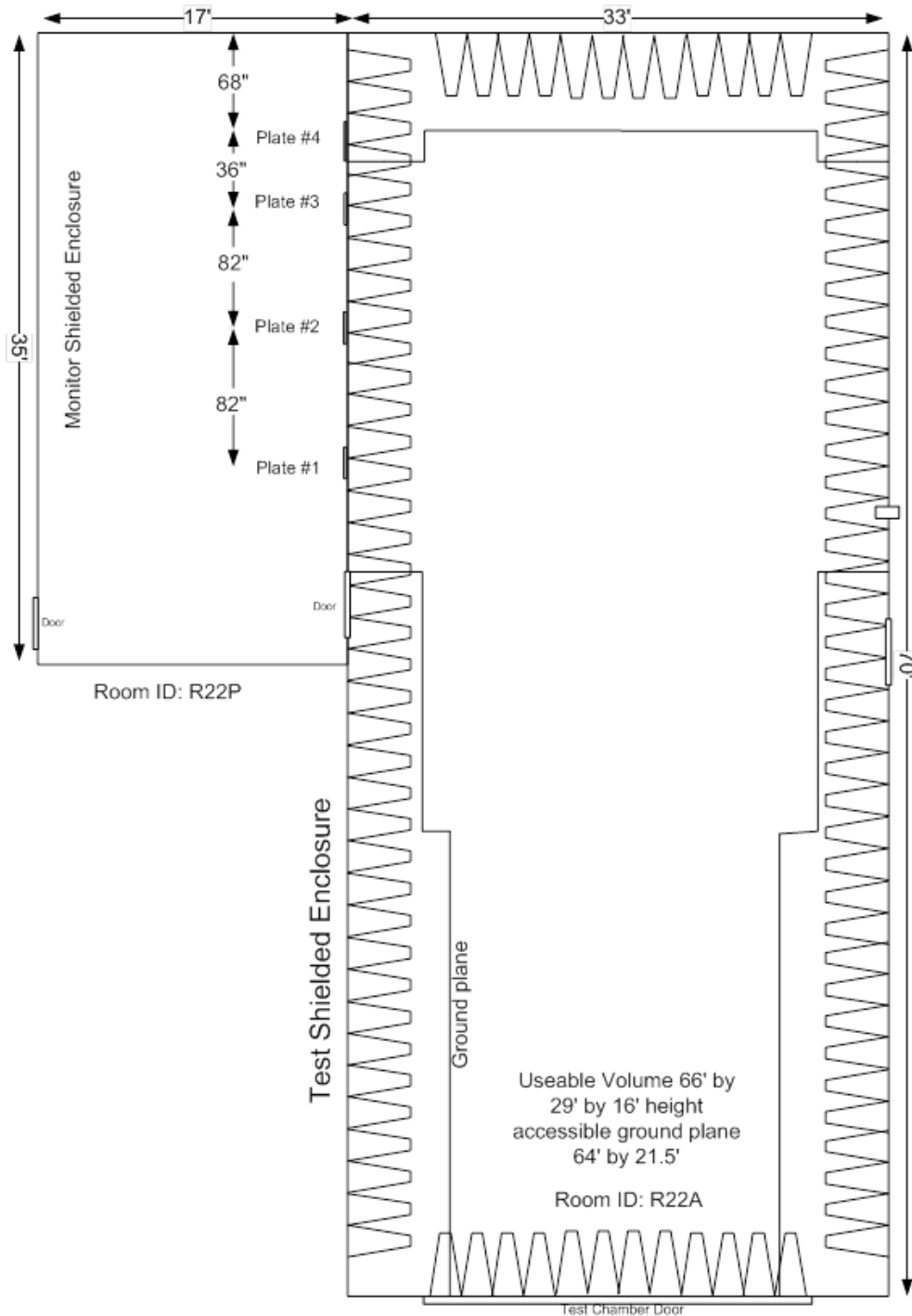


Figure – 4: Rooms 22A (Test Room) & 22P (Monitor Room)



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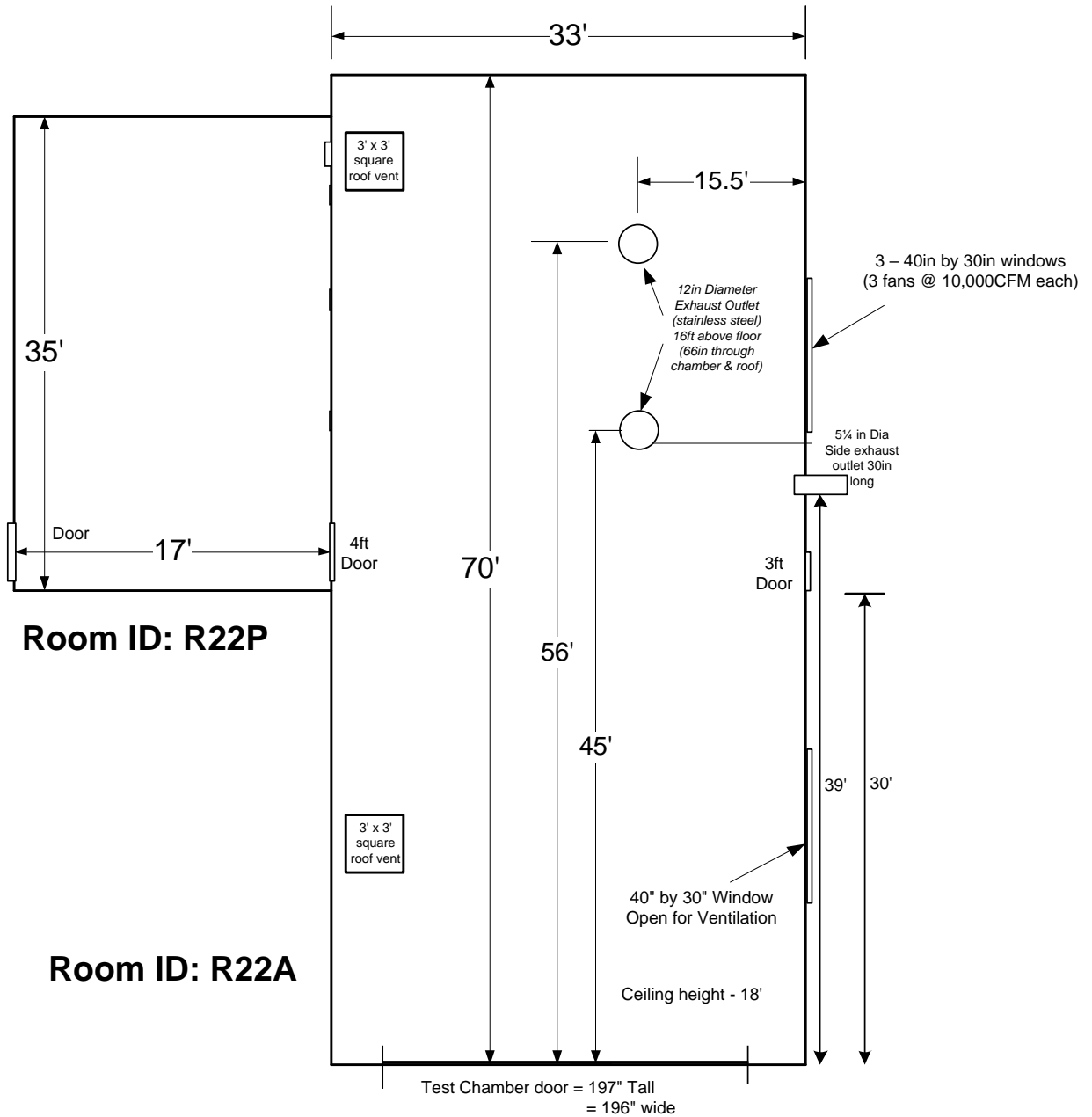


Figure - 5: Room 22A (Test Room Ventilation)



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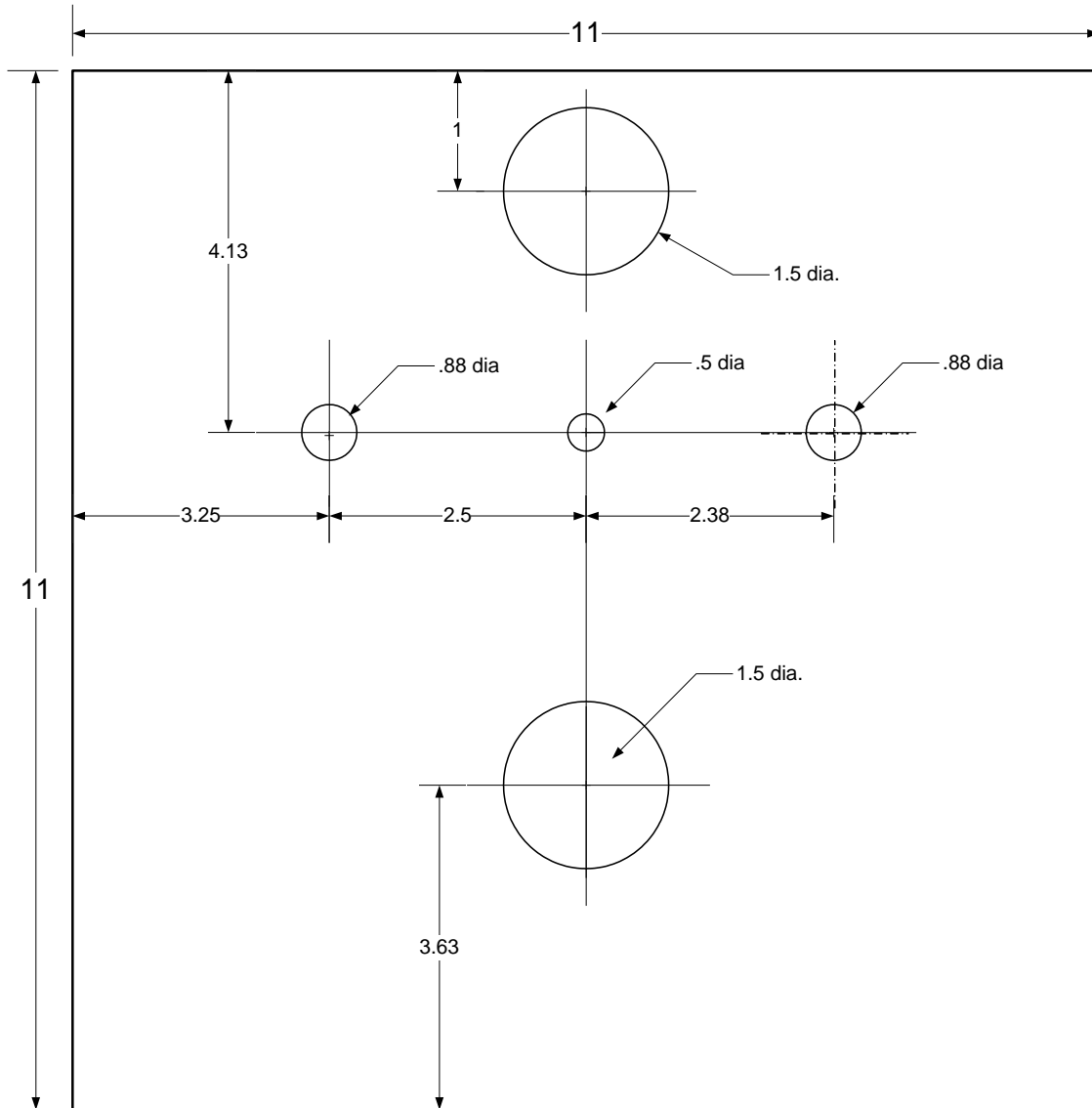


Figure – 6: Plate 1



EMC CHAMBER DESCRIPTION

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All dimensions are in inches

Figure – 7: Plate 1 Dimensions



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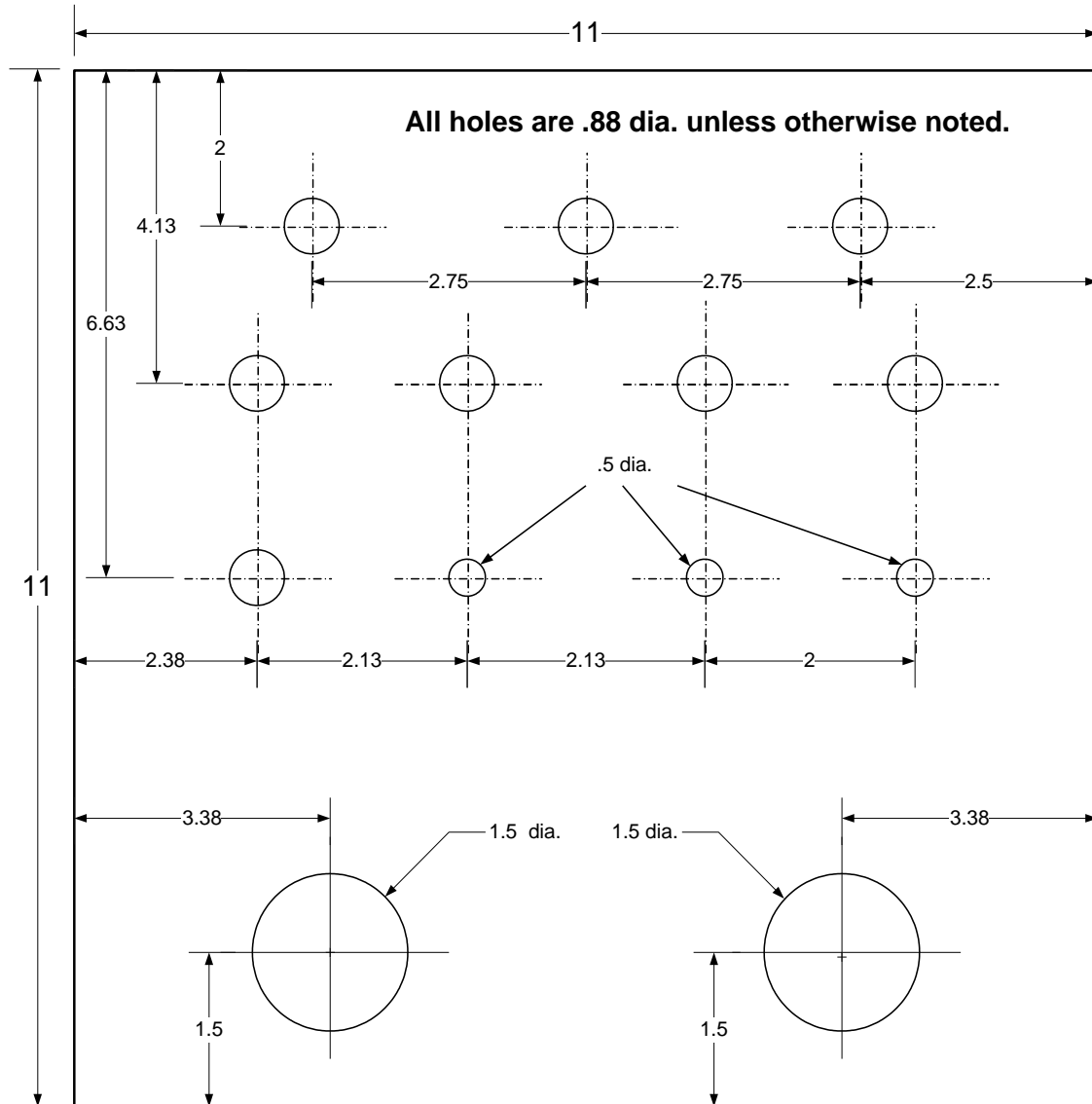


Figure – 8: Plate 2



EMC CHAMBER DESCRIPTION

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All dimensions are in inches

Figure – 9: Plate 2 Dimensions



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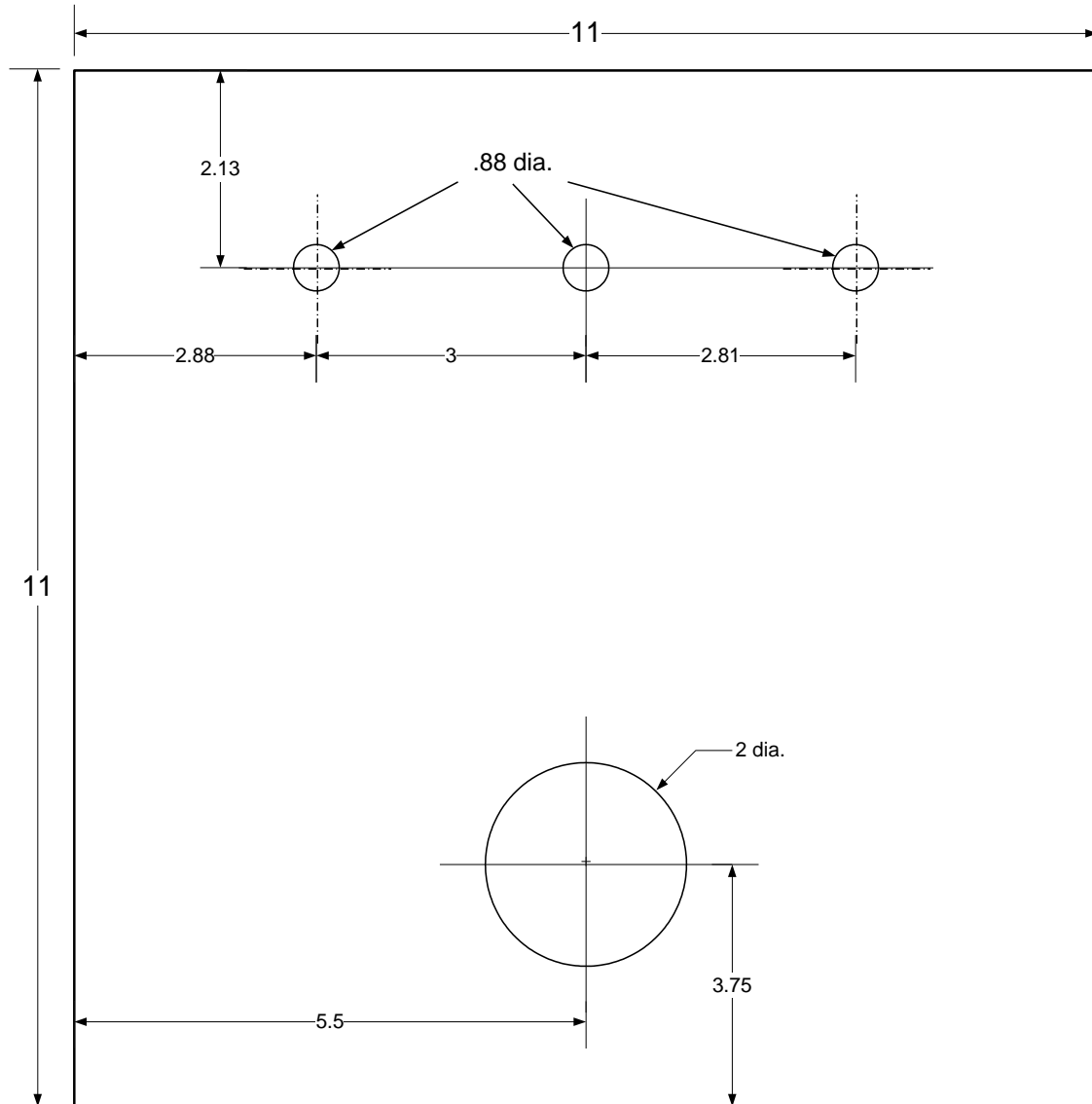


Figure – 10: Plate 3



EMC CHAMBER DESCRIPTION

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All dimensions are in inches

Figure – 11 Plate 3 Dimensions



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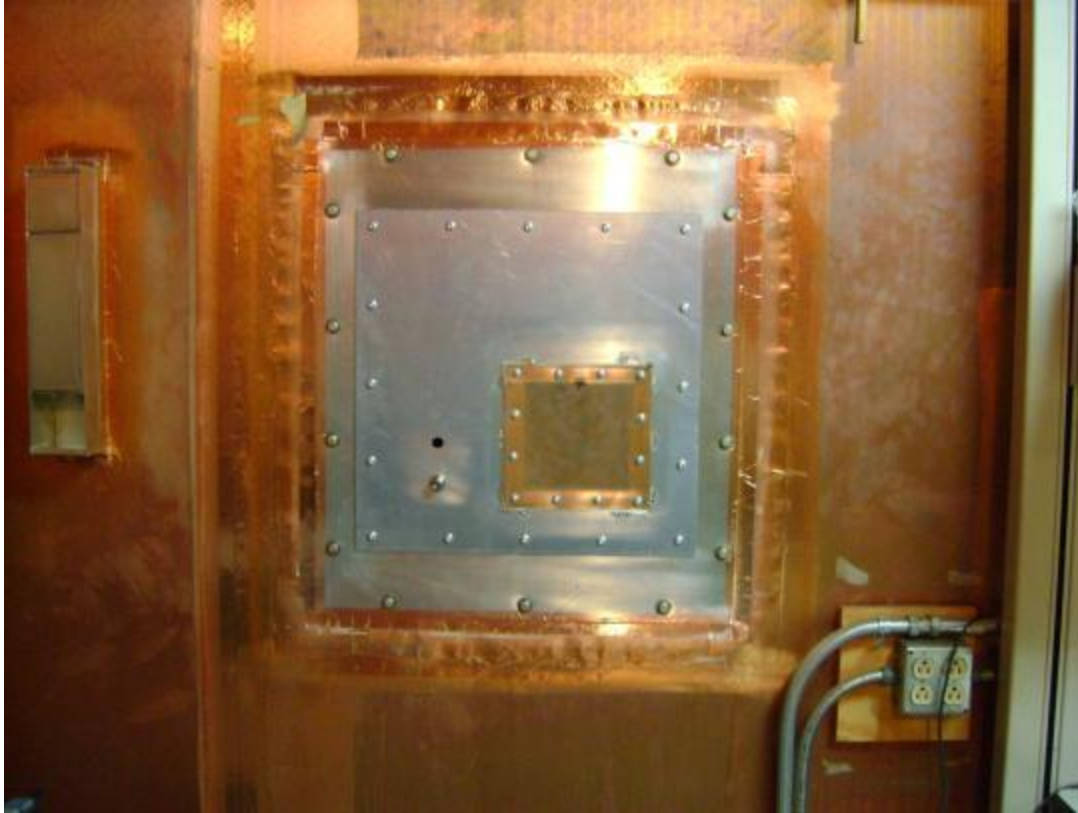


Figure – 12: Plate 4



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○ = 5/16" Holes Drilled in Plate for Mounting of Plate to Chamber Wall

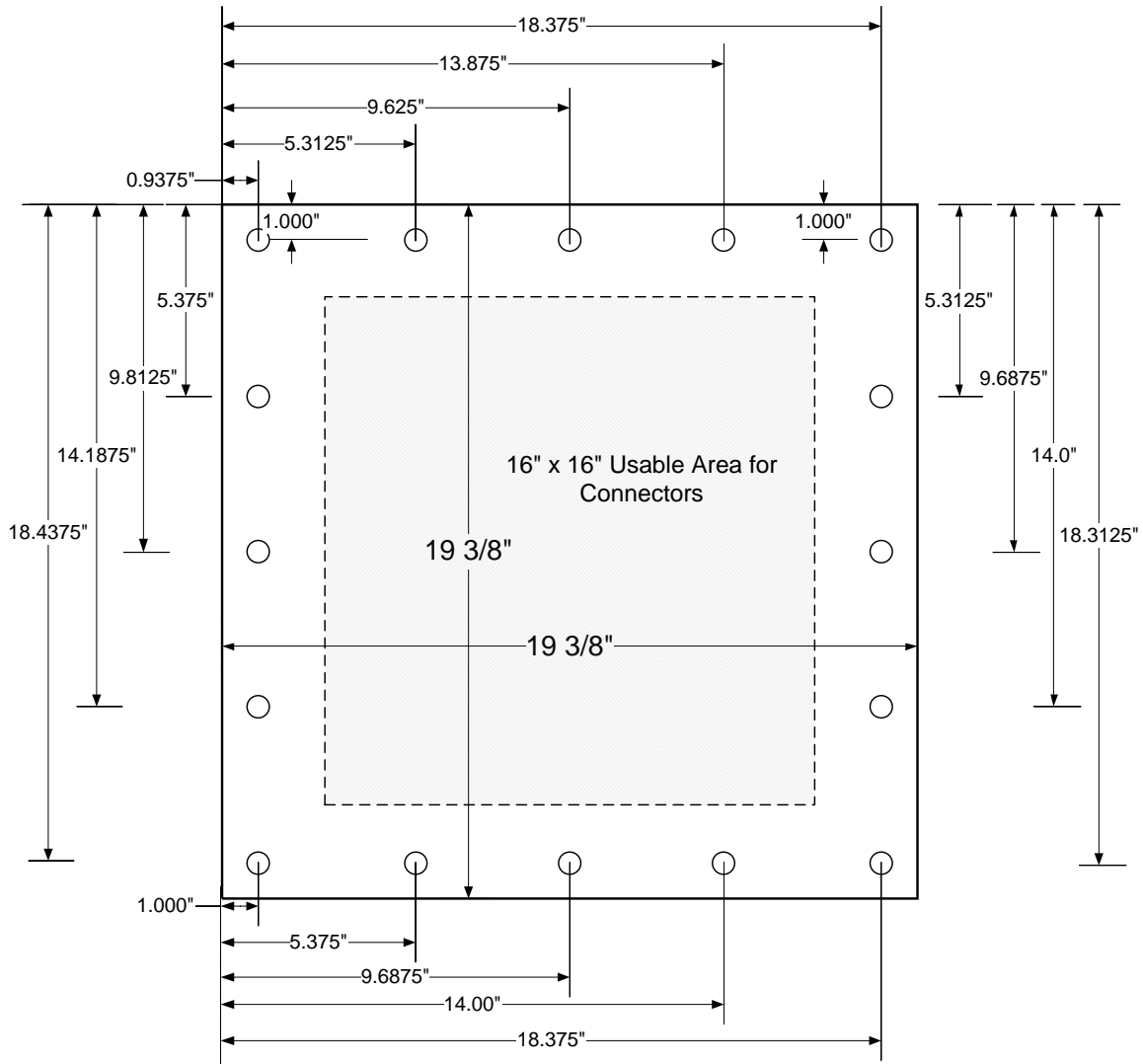


Figure – 13: Plate 4 Dimensions



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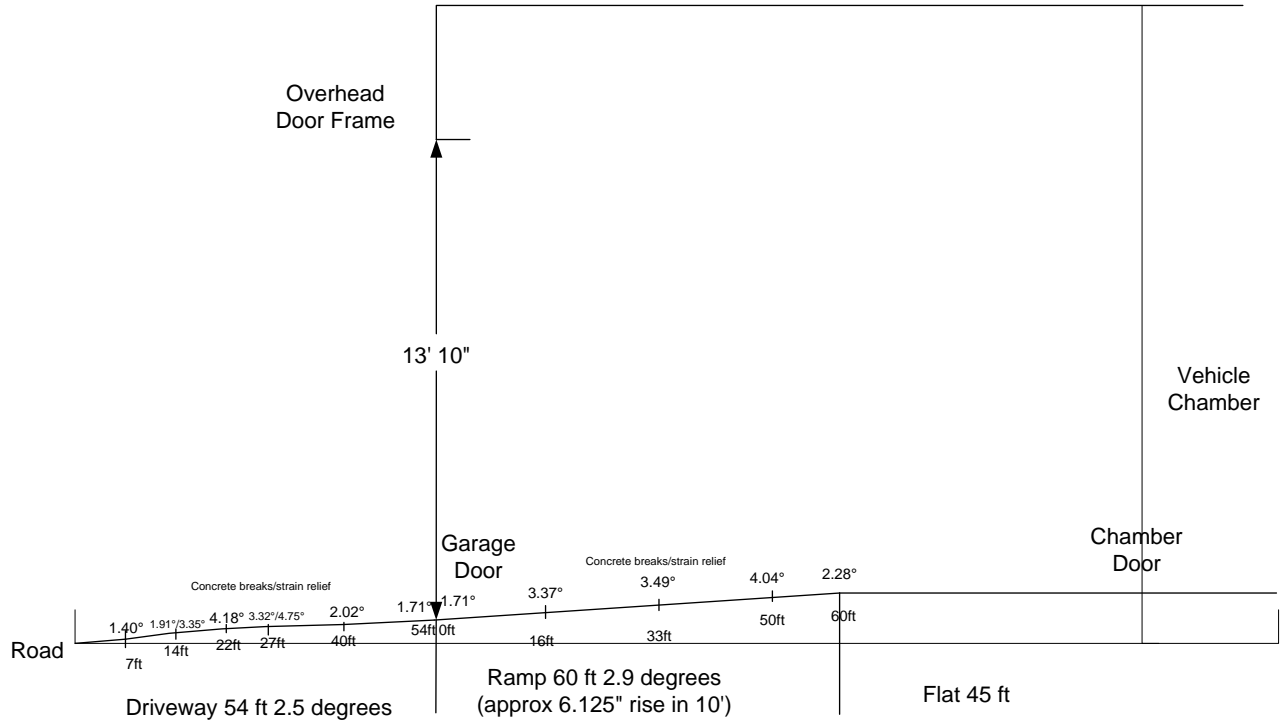


Figure – 14: Shielded Enclosure Door



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Note: The degree measurements were taken at break points in the concrete with a digital level. The overall degree indicated was calculated, based on the high and overall length measurements using a laser level. With the flat to door measurement (36.75 inches) and door to road measurement (28 inches).

Road to door measurements

Road/door = arc tan (28/636) = 2.5°
 14ft to door = arc tan (21.5/468) = 2.6°
 27ft to door = arc tan (11/312) = 2.0°

 Road/14ft = arc tan (6.5/168) = 2.2°
 14ft/27ft = arc tan (10.5/156) = 3.8°
 27ft/54ft = arc tan (11/312) = 2.0°

Figure – 15: Driveway & Ramp Grade



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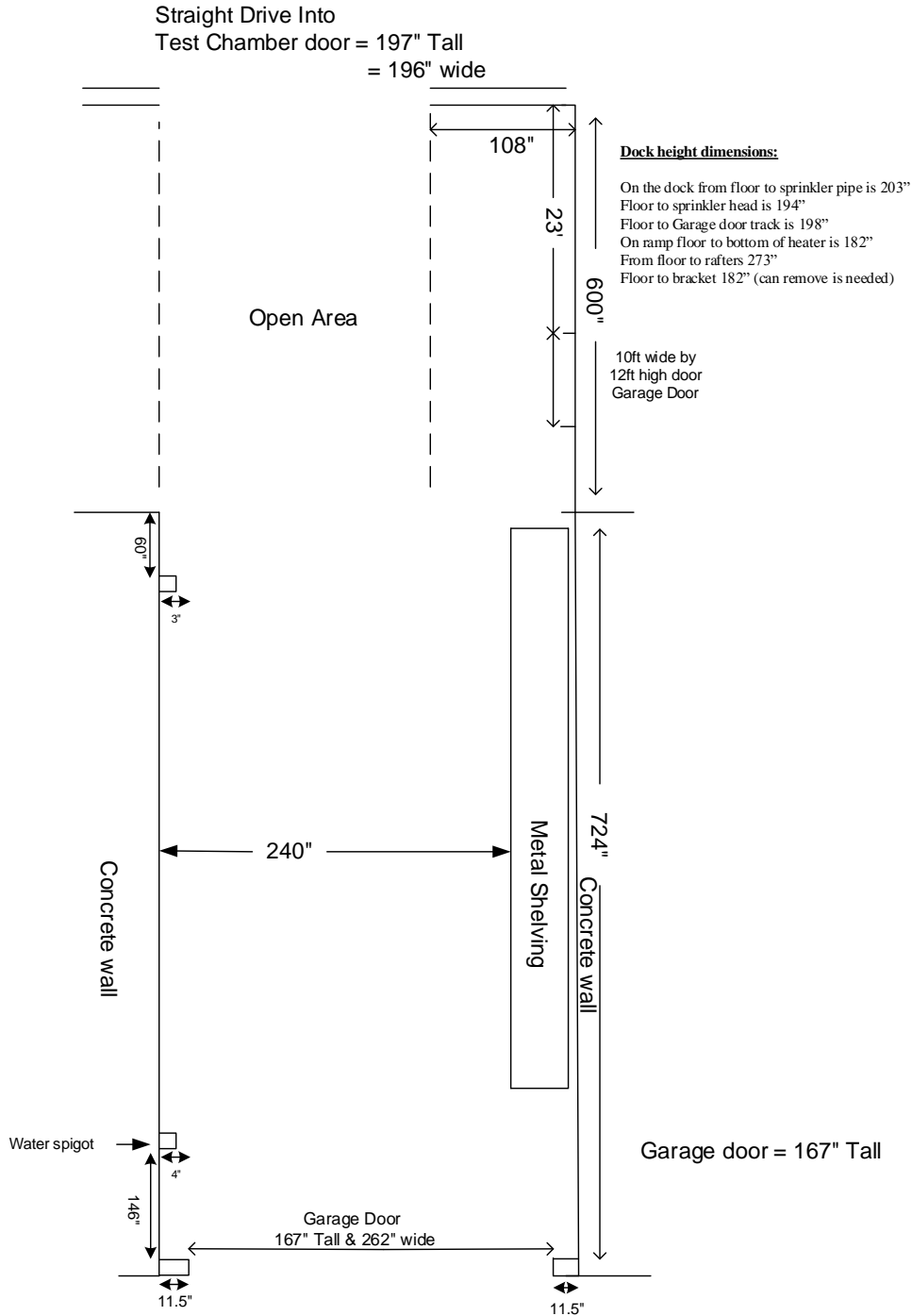


Figure – 16: Driveway & Ramp Grade