

Interoffice

NATIONAL RADIO ASTRONOMY OBSERVATORY

TUCSON, ARIZONA

November 17, 1976

*25 Meter Millimeter Wave Telescope  
Memo #59*

To: B. Peery

From: B. L. Ulich

Subject: Vertex Cabin for 25-M Telescope

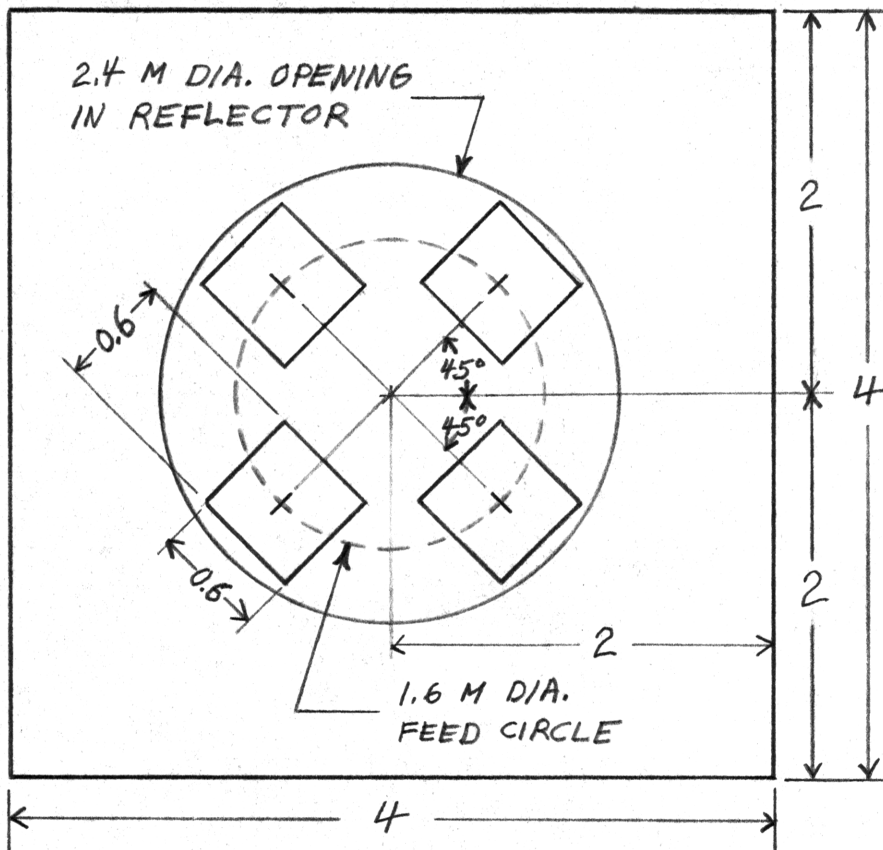
I have redesigned the vertex cabin based on the discussion at the last Working Group Meeting. Enclosed is a sketch showing the basic cabin dimensions, receiver placement, and focal plane position. The following is a summary of the basic specifications:

Cabin size	4 m square x 2.4 m high
Reflector opening	2.4 m diameter circle
Feed circle (focal plane)	1.6 m diameter, 0.5 m below vertex
Receiver positions	4 located 90° apart under feed legs
Receiver dimensions	0.6 m x 0.6 m x 2.0 m
Receiver feed phase center location	0.3 m below top of box
Receiver weight	≤ 450 kg each
Auxiliary equipment (test equipment, cables, personnel) weight	≤ 1000 kg

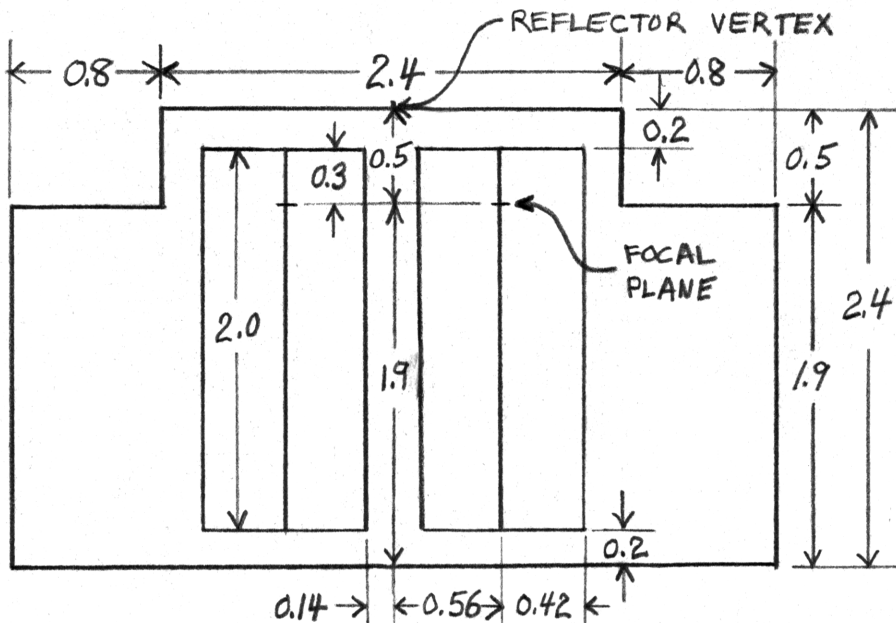
c: W. Y. Wong  
M. Ballister  
J. Payne

# 25-M TELESCOPE VERTEX CABIN

TOP VIEW:



SIDE VIEW:



SCALE: 1" = 1 M