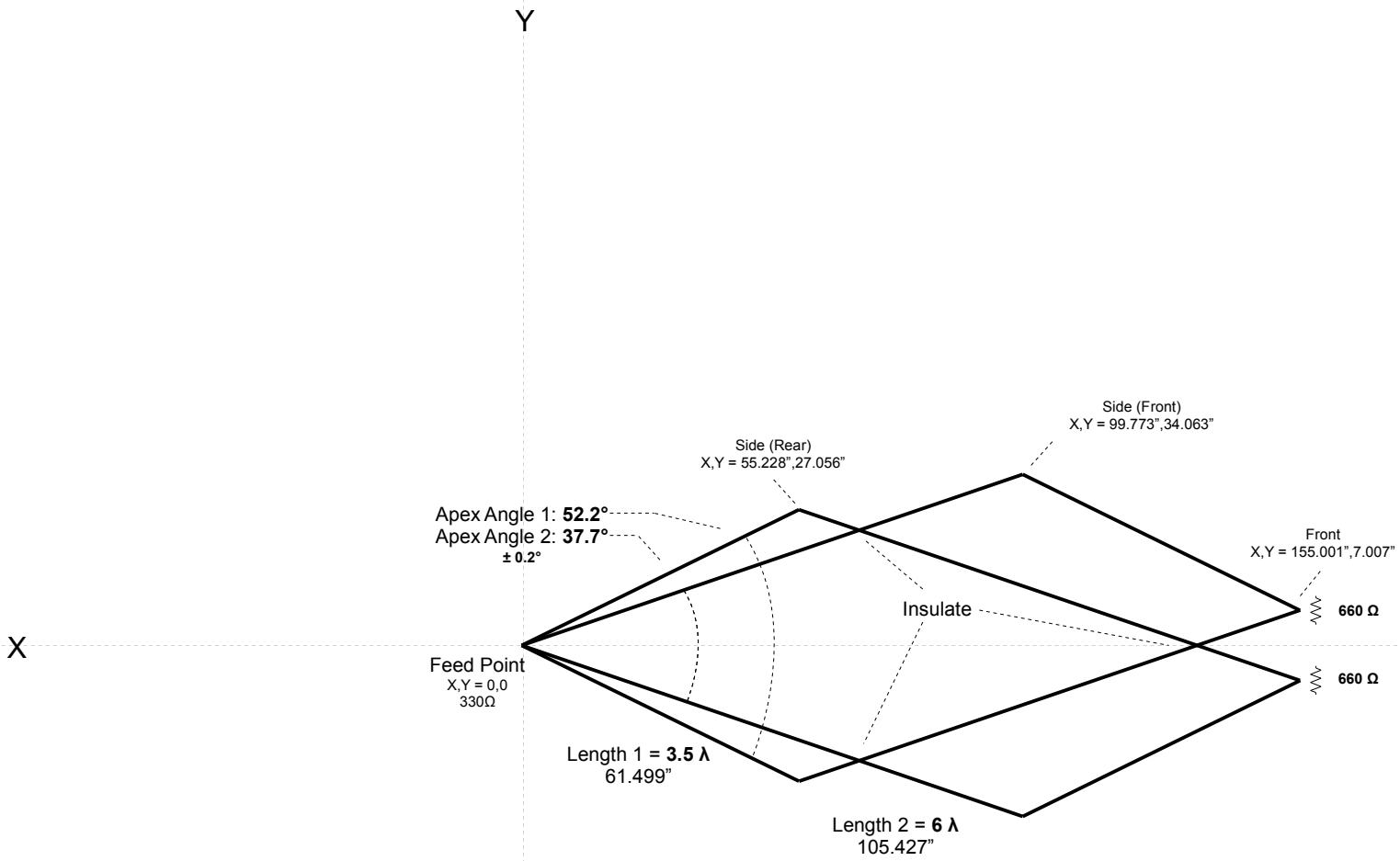


Notes:

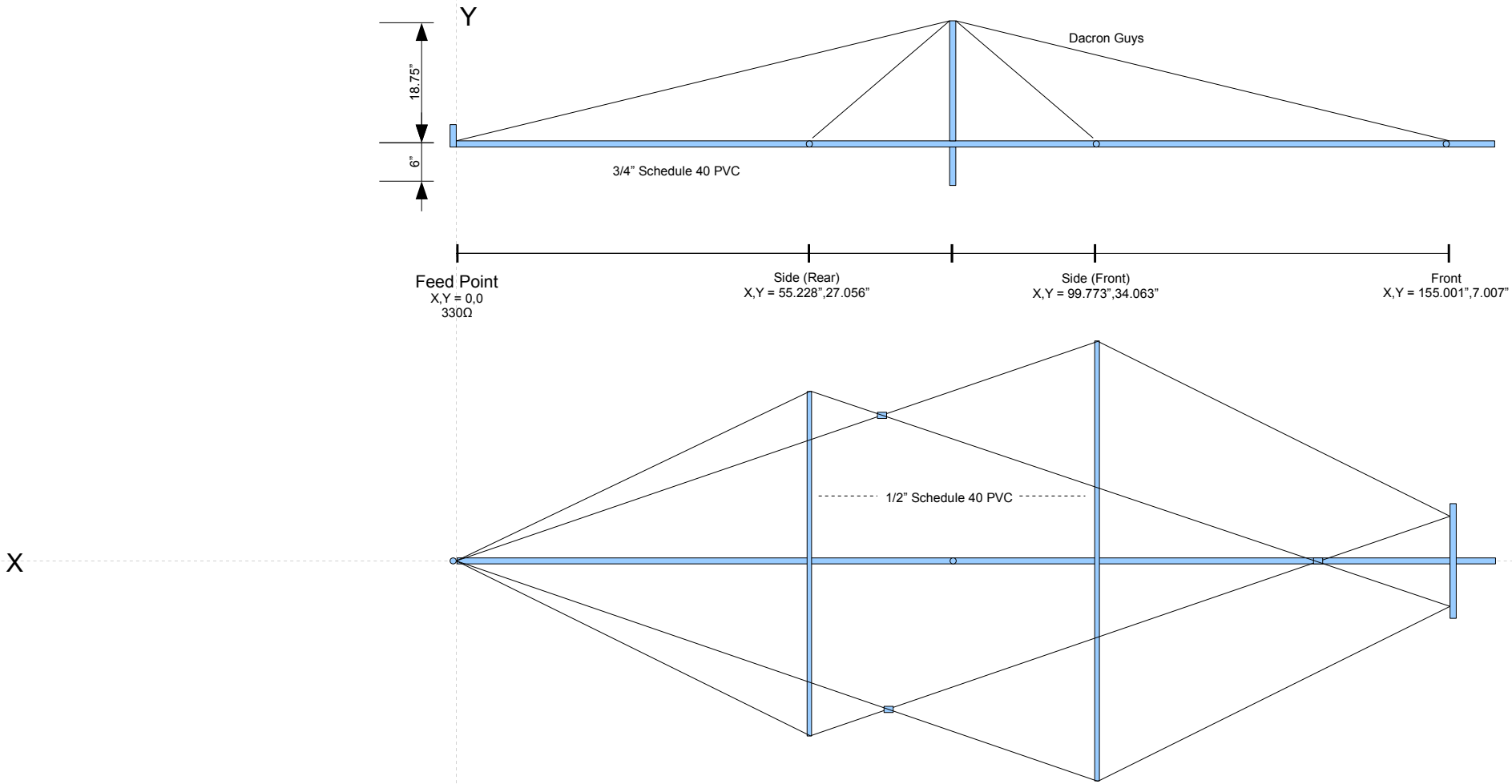
Apex Angles, **Leg Lengths** (wave lengths) and **Front Terminations** are specified by Edmund A. Laport's research and are independent of design frequency.

All other dimensions are calculated.
A velocity Factor of 0.99 is assumed.

Predicted Gain: 27 dBd per CATJ
Computer Modeling indicates about 18 dBi
Forward Horizontal Beam Width: 11°
Forward Vertical Beam Width: 6°

Active elements are virtually co-planar – insulate at all three crossing points

Laport Rhombic Design Frequency: 665 MHz (UHF-46) Based on information published in CATJ, October 1976	6/72011	Scale: 1" = 2λ
	By: TAJ	Sheet 1 of 2



Notes:

Boom and spreaders are constructed from off the shelf Schedule 40 PVC pipe and fittings.

Active elements are virtually co-planar – insulate at all three crossing points

Laport Rhombic
Design Frequency: 665 MHz (UHF-46)
Based on information published in CATJ, October 1976

Scale: 1:24

Sheet 2 of 2