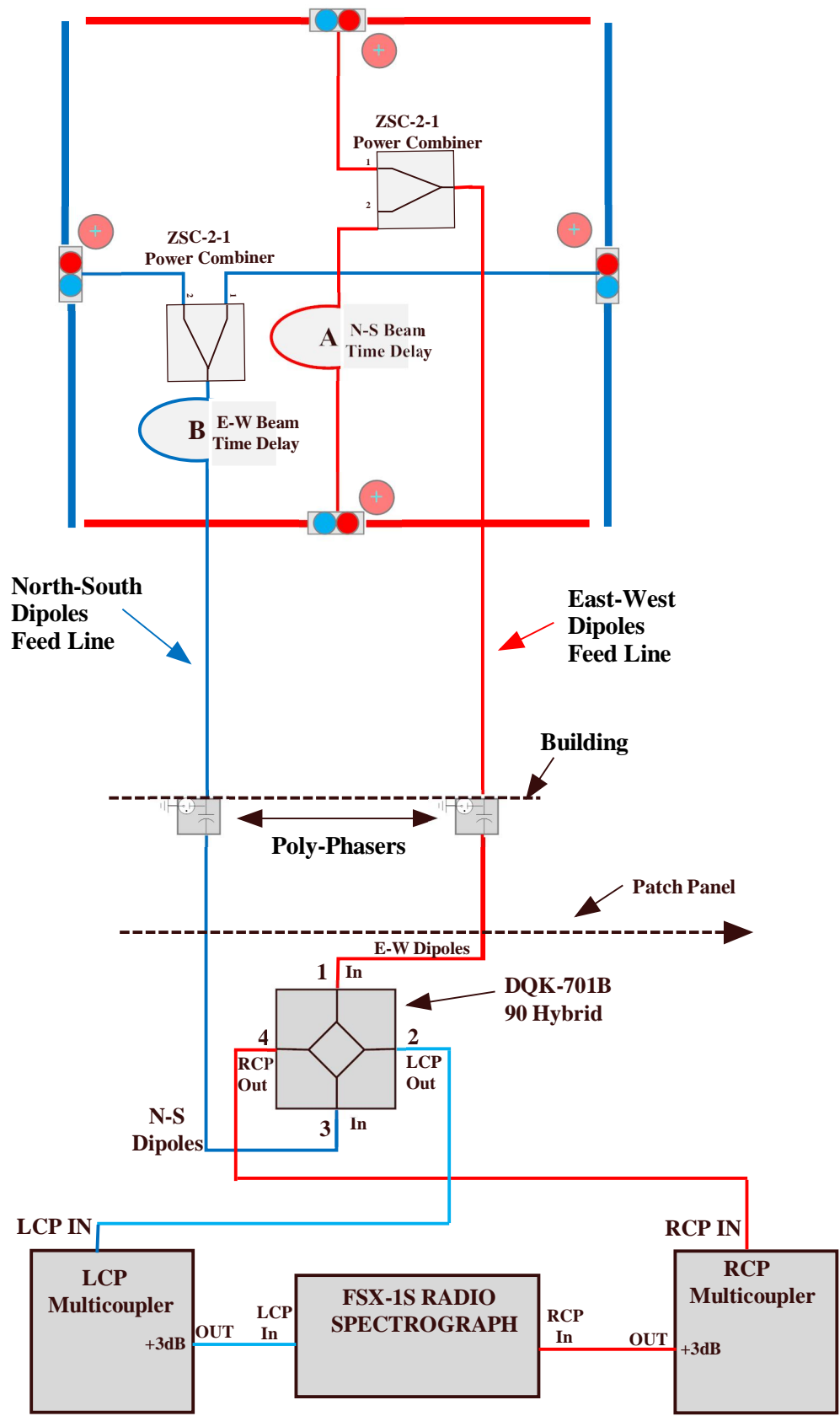
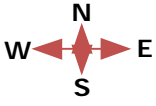


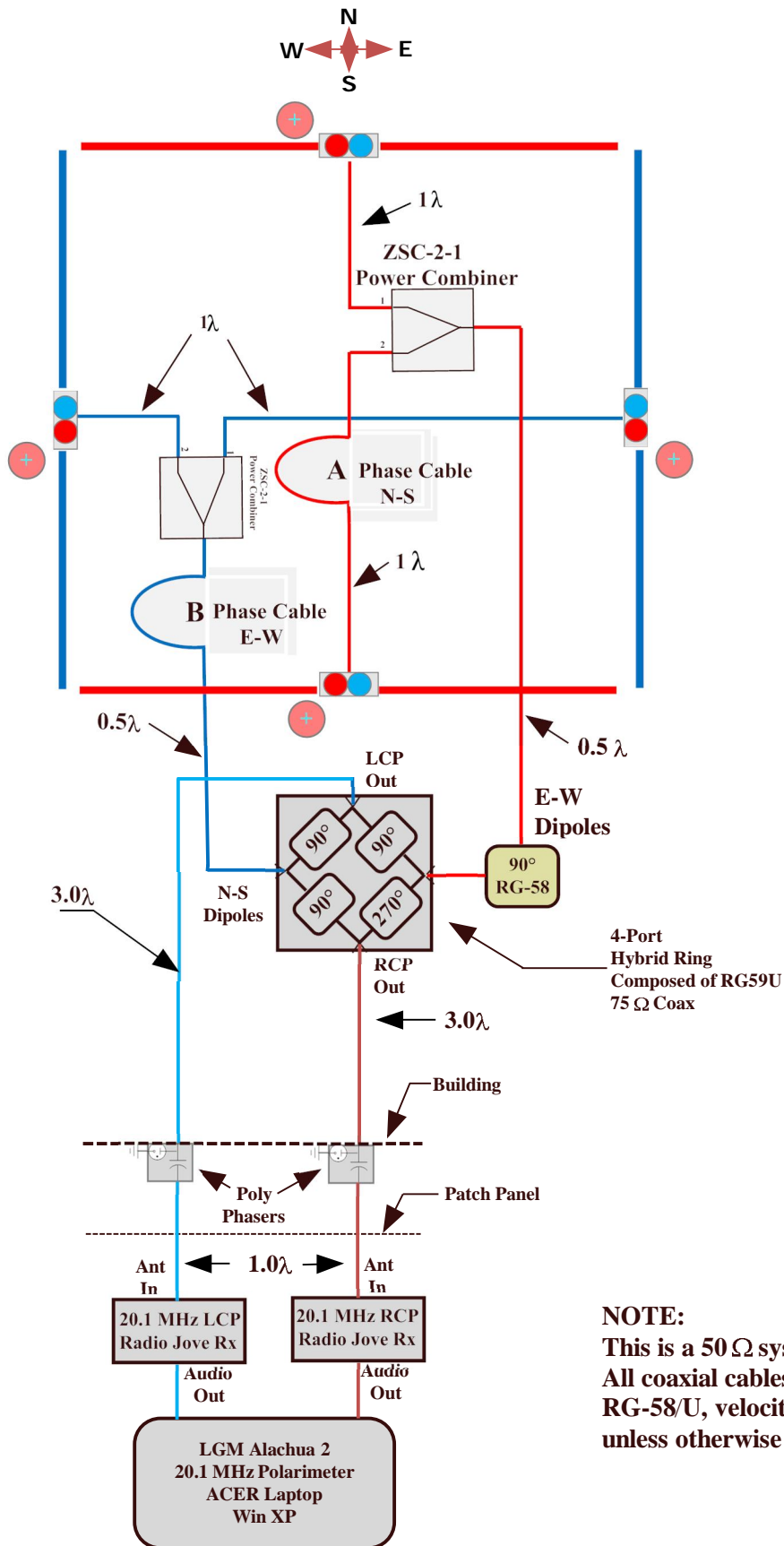
# LGM TFD ARRAY/FSX-1S Radio Spectrograph



## LGM Square TFD Array Feed System Losses

Freq (MHz)	12/19/2015	ASSUMED same as	08/11/2013	08/11/2013	Loss Between Antenna Terminals and Hybrid Inputs (dB)
	Hybrid inputs to j-box	AJ4CO feeds 1λ RG-58 element feeds	Mini-Circuits ZSC-2-1W+ Combiner	AJ4CO BALUN16-1A 16:1 Balun	
	One Way Loss (dB)	One Way Loss (dB)	Loss (dB)	Loss (dB)	
14	-1.87	-0.30	-0.20	-0.51	-2.9
16	-2.02	-0.33	-0.20	-0.52	-3.1
18	-2.16	-0.35	-0.21	-0.54	-3.3
<b>20</b>	<b>-2.32</b>	<b>-0.37</b>	<b>-0.21</b>	<b>-0.55</b>	<b>-3.5</b>
22	-2.44	-0.39	-0.22	-0.57	-3.6
24	-2.58	-0.40	-0.22	-0.58	-3.8
26	-2.71	-0.42	-0.23	-0.59	-3.9
28	-2.82	-0.45	-0.24	-0.60	-4.1
30	-2.94	-0.46	-0.24	-0.61	-4.3
32	-3.07	-0.46	-0.25	-0.62	-4.4

# 20.1 MHz POLARIMETER



**NOTE:**  
 This is a 50  $\Omega$  system.  
 All coaxial cables are Belden  
 RG-58/U, velocity factor = 0.66  
 unless otherwise noted.

# LGM RADIO ALACHUA DATA FLOW

