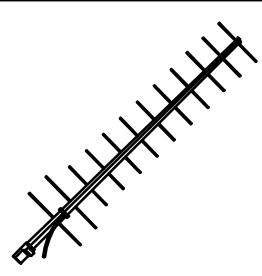


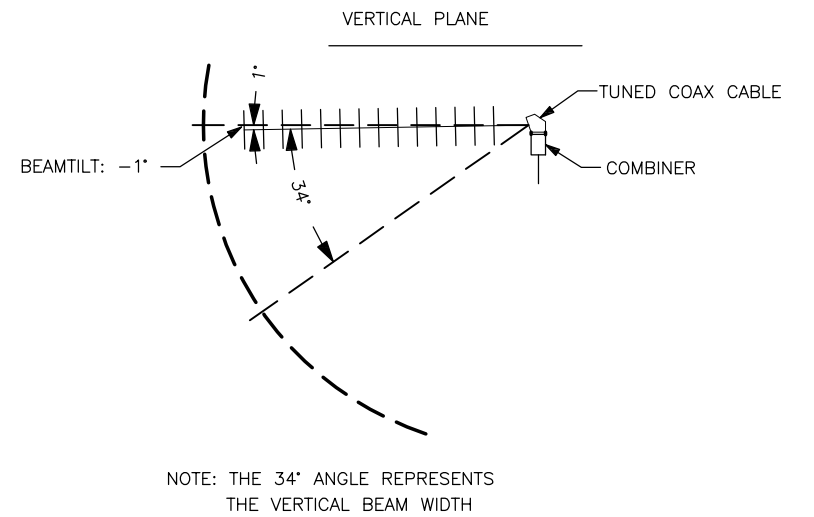
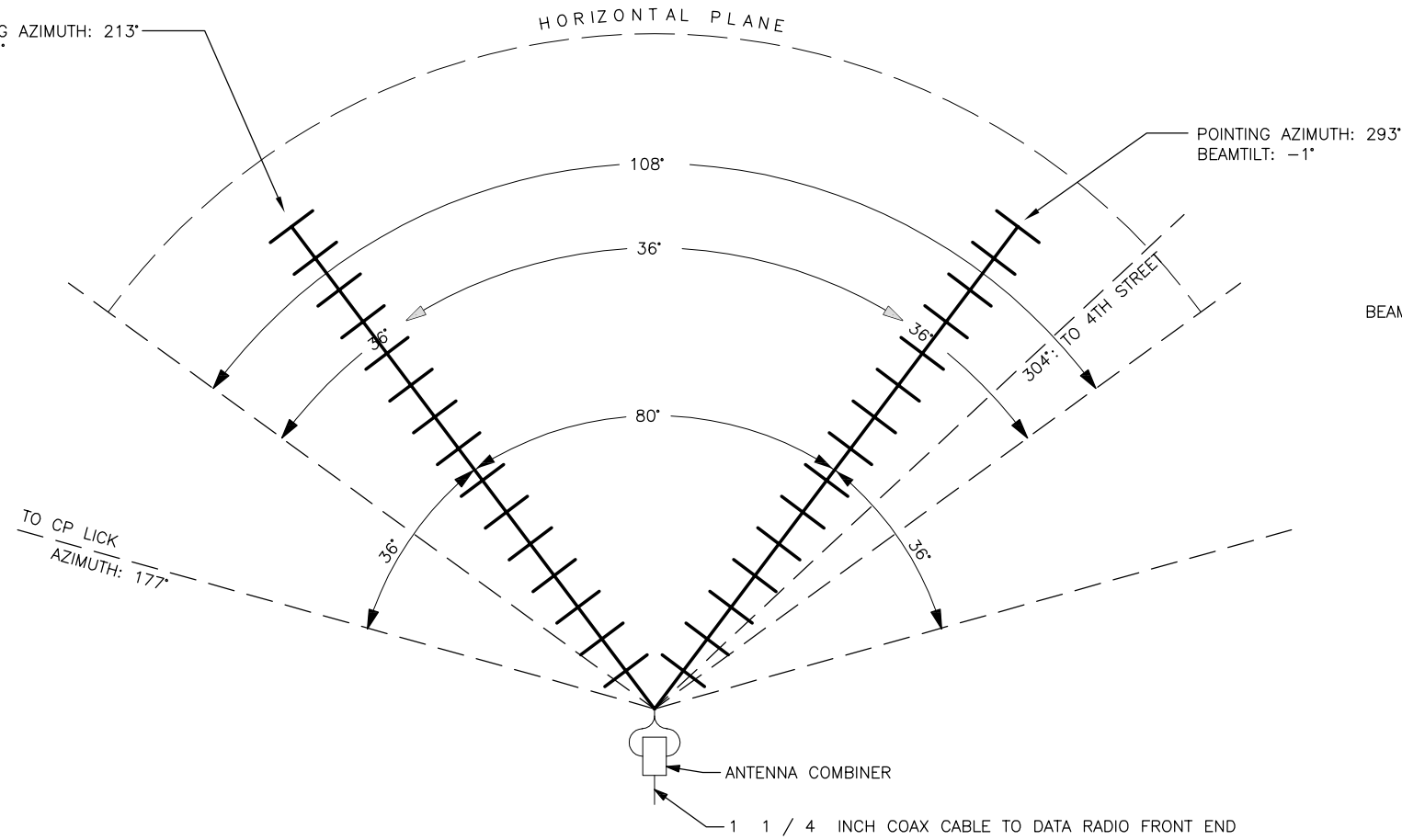
Manufacturer Mfg. Part Number	MAXRAD MYA93012
896-960 MHz Yagi/Corner Reflector Antenna	
Antenna Type:	12 -- ELEMENT YAGI
DESCRIPTION:	12 ELEMENT YAGI. 11 dB DIRECTIONAL GAIN. SOLID ELEMENTS MOUNTED THROUGH BOOM FOR LONG LIFE. ALSO AVAILABLE WITH A DURABLE BLACK FINISH.
ELECTRICAL SPECIFICATIONS General Frequency (MHz): Bandwidth @ rated VSWR (MHz) Specific Frequency: see below	806-960 80
Gain (dBd): Gain (dBi):	11 13, 15
Horizontal Beamwidth (degrees): Vertical Beamwidth (degrees):	36 DEG. 34 DEG.
Front to Back Ratio (dB): Maximum Power Input (W): VSWR @ 50 ohms:	20 dB 150 WATTS 1.5:1
Polarization: Lightning Protection:	VERT./HORIZ. DC GROUND
MECHANICAL SPECIFICATIONS Size (HxWxD): Weight (Lbs):	4' 2
Rated Wind Velocity (MPH): Wind Load, Flat Plate (Ft2): Lateral Thrust (Lbs): Bending Moment (ft Lbs):	125 0.27 16.6 23.3

DATA RADIO BASE STATION ANTENNA  
SINGLE ANTENNA SPECIFICATIONS

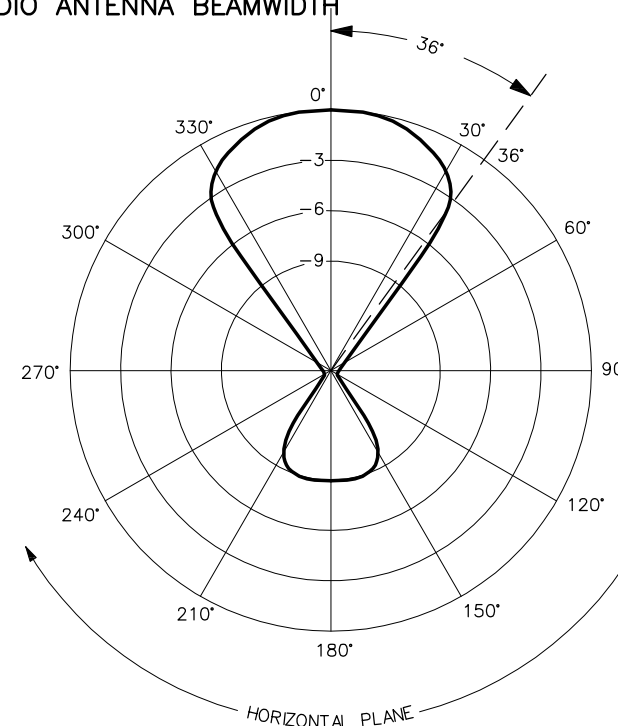
**NOTE:**

- 0 dB REFERENCE ON SINGLE ANTENNA PATTERN CORRESPONDS TO 13dBi GAIN
- 0 dB REFERENCE ON PHASED ARRAY PATTERN CORRESPONDS TO 15dBi GAIN
- ANTENNA POINTING AZIMUTHS ARE WITH RESPECT TO TRUE NORTH

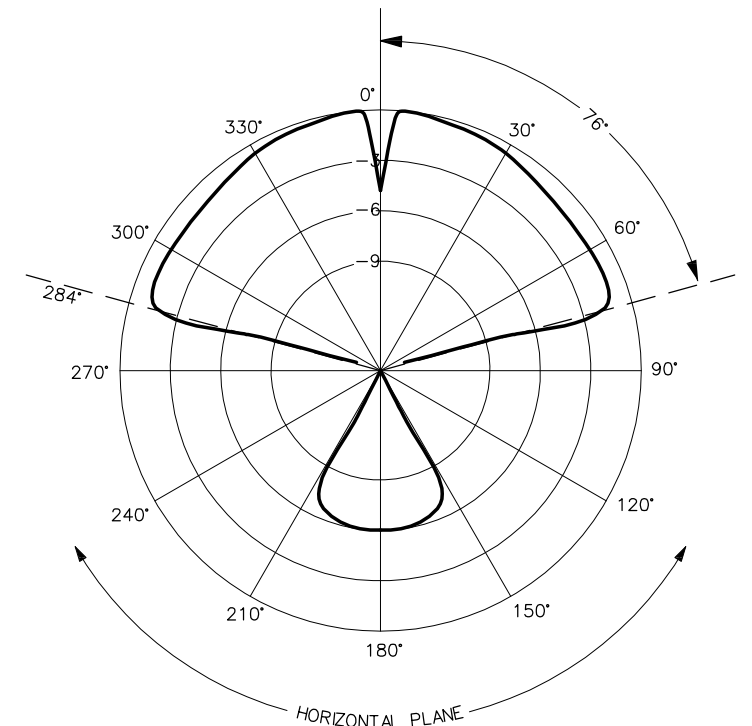
NOW POINTING AZIMUTH: 213°  
BEAMTILT: -1°



DESIGN OF CALTRAIN DATA RADIO ANTENNA BEAMWIDTH



SINGLE ANTENNA; VERTICALLY POLARIZED



2 ANTENNA PHASED ARRAY; VERTICALLY POLARIZED


REV	DATE	BY	CHK	APP	DESCRIPTION

**PENINSULA CORRIDOR JOINT POWERS BOARD**

APPROVED BY:

*Bernard Anzures*      *Steph Chen*

ENGINEERING MANAGER      DEPUTY DIRECTOR OF ENGINEERING



1250 San Carlos Avenue  
San Carlos, CA 94070

**STANDARD DRAWINGS**

TRAIN CONTROL COMMUNICATION  
ATCS (DATA) RADIO SYSTEM  
MONUMENT PEAK BASE STATION  
ATCS ANTENNA ARRAY DETAILS

CADD FILE NO.:	SD-6603
REV	DATE
0	093011
TRAIN CONTROL	
STANDARD NO.:	SD-6603