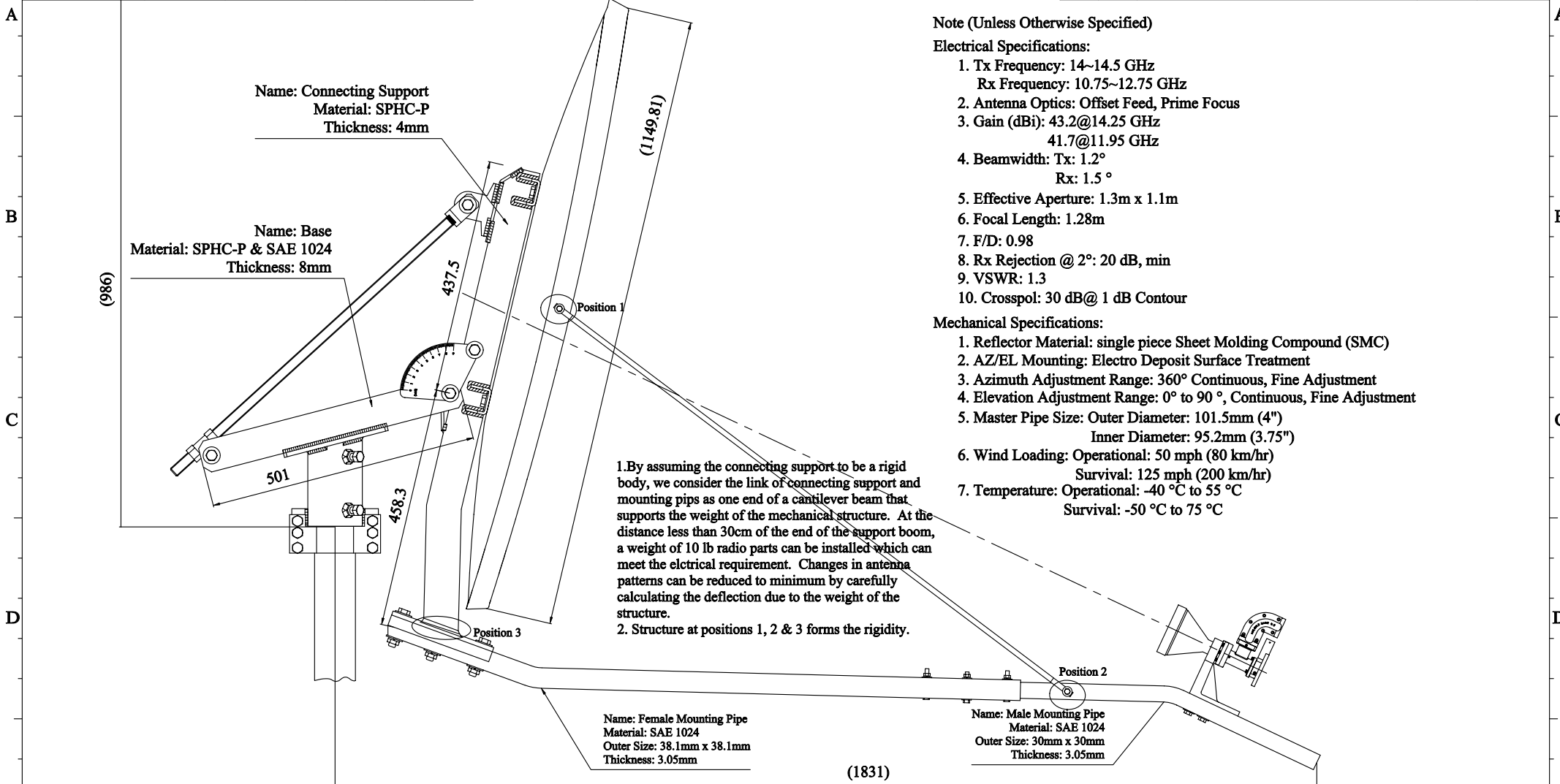


THIRD ANGLE PROJECTION						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE NOT INCLUDING THICKNESS OF PLATING AND TOLERANCES ARE						
DECIMAL		INTEGRAL		ANGLE	FRACTION	
mm	inch	mm	inch			
.X ±0.1	.X ±0.03			±0.5°	±1/64	
.XX ±0.05	.XX ±0.02	±0.2	±0.06			
	.XXX ±0.005					

REVISIONS				
REV	ZONE	DESCRIPTION	DATE	APPROVED
N/A	N/A	N/A	N/A	N/A



Note (Unless Otherwise Specified)

Electrical Specifications:

- Tx Frequency: 14~14.5 GHz
Rx Frequency: 10.75~12.75 GHz
- Antenna Optics: Offset Feed, Prime Focus
- Gain (dBi): 43.2@14.25 GHz
41.7@11.95 GHz
- Beamwidth: Tx: 1.2°
Rx: 1.5°
- Effective Aperture: 1.3m x 1.1m
- Focal Length: 1.28m
- F/D: 0.98
- Rx Rejection @ 2°: 20 dB, min
- VSWR: 1.3
- Crosspol: 30 dB@ 1 dB Contour

Mechanical Specifications:

- Reflector Material: single piece Sheet Molding Compound (SMC)
- AZ/EL Mounting: Electro Deposit Surface Treatment
- Azimuth Adjustment Range: 360° Continuous, Fine Adjustment
- Elevation Adjustment Range: 0° to 90°, Continuous, Fine Adjustment
- Master Pipe Size: Outer Diameter: 101.5mm (4")
Inner Diameter: 95.2mm (3.75")
- Wind Loading: Operational: 50 mph (80 km/hr)
Survival: 125 mph (200 km/hr)
- Temperature: Operational: -40 °C to 55 °C
Survival: -50 °C to 75 °C

1. By assuming the connecting support to be a rigid body, we consider the link of connecting support and mounting pips as one end of a cantilever beam that supports the weight of the mechanical structure. At the distance less than 30cm of the end of the support boom, a weight of 10 lb radio parts can be installed which can meet the electrical requirement. Changes in antenna patterns can be reduced to minimum by carefully calculating the deflection due to the weight of the structure.

2. Structure at positions 1, 2 & 3 forms the rigidity.

PC NO/DIR	W:\Project\64\6406B
FLOPPY DISK NO	DISK NO
FILE NAME	6406B_config.dwg

DRAWN	Chou Yu-Shan	DATE	01/07/02	DWG NAME	1.2m Antenna Config	
CHECKED				DWG NO	6406B000	REV. B.1
ENGINEER				CONTRACT NO		
APPROVED				SIZE	A3	SCALE N/A
				UNIT	mm	SHEET 1 OF 1

6351	6351A000	N/A	1	1	N/A	N/A
USED ON	CI NO	NEXT ASSY	NEXT ASSY QTY	FINAL ASSY QTY	APPLICABLE SPECIFICATIONS	
APPLICATION						

