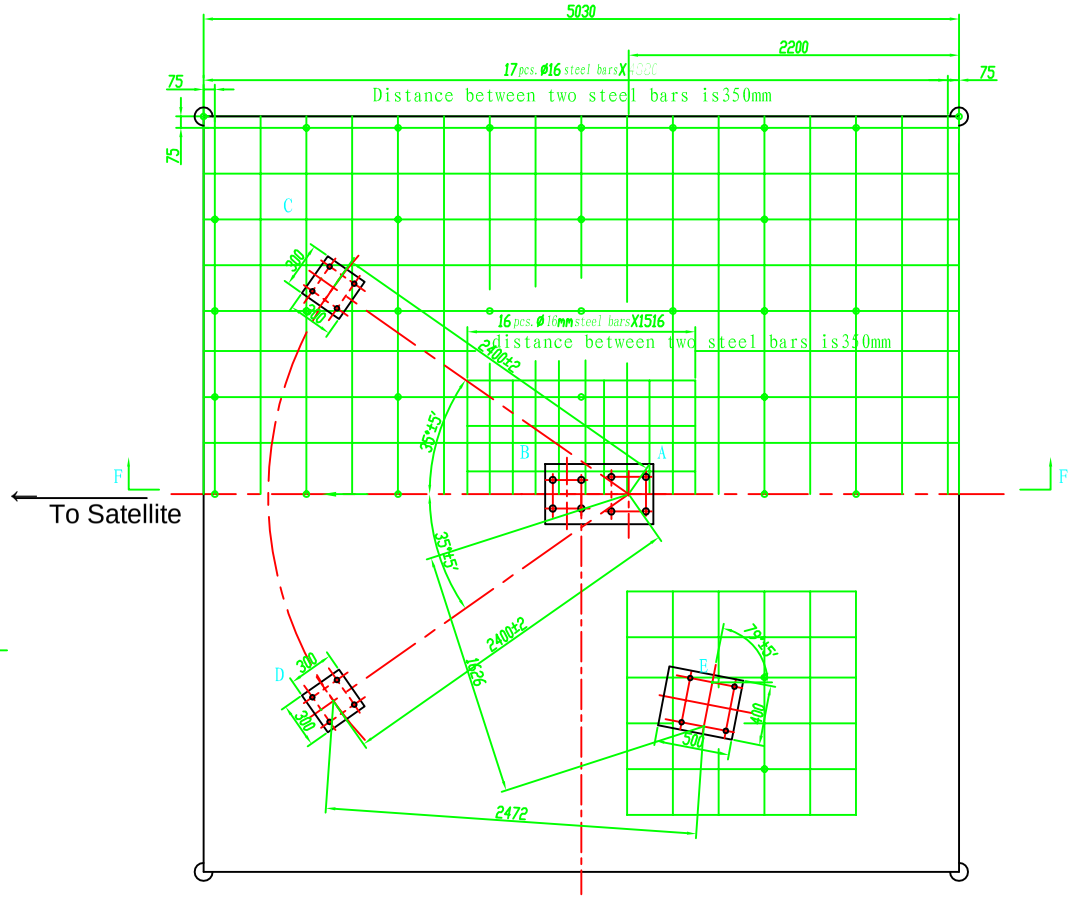
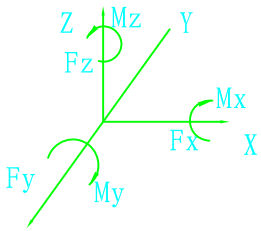
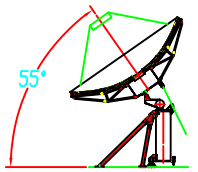






Calculate Table of 6.2M Foundation Loading

Operation situation / Foundation Loading	Antenna El. angle 6° , wind speed 45m/s	Antenna El. angle 55° , wind speed 45m/s
	Fx=Fy=60KN, Fz=60KN, Mx=My=±225KN·m, Mz=60KN·m	Fx=Fy=29KN, Fz=60KN, Mx=My=±110KN·m, Mz=47KN·m

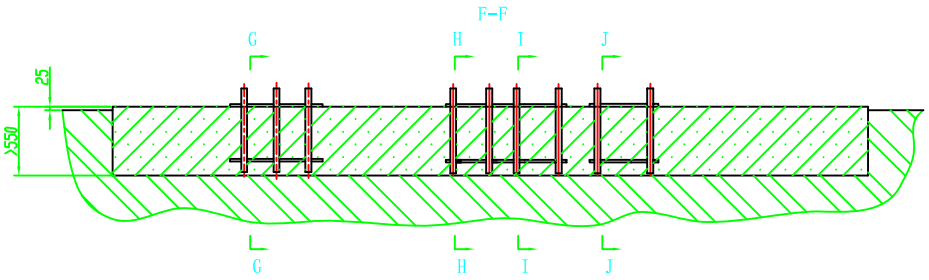
Note: 1. There should have lightning protection measures in the area of antenna erect.

2. Antenna should be locked into the sky when the wind speed surpass the operational wind speed.

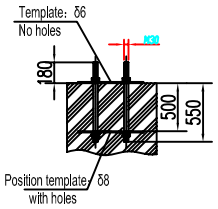
3. Antenna direction is uncertain due to the wind blow, and the diection of horizontal load F and the vertical load M are also uncertain, so Fx, Mx and Fy, My in the above table can be maximum value along with the diection of axis X, Y separately. When select Fx, My along with the direction of axis X, Fy, Mx is 0 in the direction of axis Y ; or when select Fy, Mx along with the direction of axis Y, Fx, My is 0 in the direction of axis X. However, both the two directions must be considered when designing the foundation.

Foundation Technical Requirement:

1. Use C30 concrete, steel bars: "Ø is I steel" "ϕ is II steel".
2. Foundation bury depth should be modified according to the bearing ability of soil and the antenna erected height.
3. Height of four supporting points of the foundation should be in the same plane surface, height error less than 5mm, the distance precision between the bolts should meet the installation requirement.
4. The direction of foundation is refer to the direction of antenna point to satellite, that is the intermediate value between the Az. angle of two satellites.
5. The four pull rings in the four angles are used to fix the steel rope when the antenna point to the sky, the pull rings must be weled with the nearby steel bars.



I–I, J–J, G–G, H–H



设 计			Foundation Drawing		PROBECOM
校 核					
审 核					6.2M ESA ANTENNA FOUNDATION
工 艺					
标准化			阶段标记	重量	比例
CAD					1:25
			共 张	第 张	
批 准					