- Find flat surface (use chisel if necessary to flatten surface around rods). Surface must also be relatively level; mast can accommodate ~3” slope from side to side.
- Place drill jig with edges aligned to true north east south west
- Level drill jig as close to the rock surface as possible
- Measure depth to surface of rock in each drill tube
- Place drill bit in shallowest hole and mark with tape the desired depth
  (be sure you have at least 2.5 inch of the rod sticking out of the rock, but that threads go well into rock!)
- Stand on drill jig and keep it steady
- Drill the holes (don’t push on the drill in hard rock)
- Wipe dust off, before taking off drill jig and use tube to blow all dust out of holes.
- Check depth of hole with steel pin and check with bolt to see if required depth is reached, drill deeper if necessary
- Fill hole with epoxy (not too much) such as Hilti HIT-500
- Place protective cap over threads and hammer rod in until at least 0.5 inch of treads are into hole. Do not hammer quite to refusal – bolt will bend.
- On each bolt place washer and then nut.
- Place another nut on each bolt and then a washer.
- Place monument mast with on bolts with the offset screw hole facing north, then rough level monument.
- Crank bottom nuts hard to the surface to lock expansion bolts.
- Place washer and nut on top of each bolt, fine tune the leveling, and tighten watching that monument remains level.
- Tighten bottom nut up tightly to ensure monument is solid. Watch the level.
- Smear epoxy on threads to prevent nuts from loosening over time.
- Fine tune the antenna orientation to true north when attaching it to the cap plate.

All components available from:
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