

## Boulder Installation for Earth Anchors

1. Boulders must always be placed on level, stable, compacted and well drained ground. Concrete footings are optional but not required.
2. Area around the boulders should be thoroughly cleared and leveled. No obstructions, stones, stumps, other structures, or hazards of any kind should be present within the fall safety zone.
3. Unload the Boulders and place them in position. Be sure that no other equipment or structures are within the fall safety zone.
4. Install the Earth-Anchors anchors next to the leg brackets found at the base of each Boulder. The Earth Anchors cannot be placed through the hole in the leg bracket. They must be set next to the hole in the leg bracket in a position where the bracket can be lifted over it once the anchor is driven into the earth.
  - a. Note: Boulders contain more anchoring brackets than are required for final installation. This provides flexibility if one location is not able to be utilized.
  - b. The following is the minimum number of anchors needed per Boulder.
    - Size A (small) – 2 Anchors
    - Size B (medium) – 3 Anchors
    - Size C (large) – 4 Anchors
    - Size D (x-large) – 4 Anchors
5. Follow instructions provided by the manufacturer 'Manta Ray' for driving the Earth Anchors into the ground.
6. Drive the Earth Anchors until about 2" of the threads are left exposed above the leg bracket. This will allow the leg bracket to be lifted and set over the anchor. Do Not set (pull up) the anchor until all of the anchors are driven into place and the leg brackets have been lifted over the threads.
7. Once all of the Earth Anchors have been driven into the ground, lift and place the leg brackets over the Earth Anchors. Place the large steel plate washers over each anchor and install the nut.
8. Tighten each nut as specified in 'Manta Ray' instructions. This process sets the anchor into place.

9. Cut off the excess threaded rod with a sawzall or reciprocating type saw. Grind off any sharp edges as necessary.

10. Cover the area with bark mulch or other landing surface as may be required by local codes and ASTM F-1292-04.