



# *EARTH CONTACT PRODUCTS*

## *SUBSTATION FOUNDATION INSTALLATION*

A&N COOPERATIVE





## THE CHALLENGE

A&N Cooperative, on Virginia's eastern shore, must deal with unique challenges when building and maintaining infrastructure. With a substation on an island, very close to ocean waves, and subject to hurricane winds, structure stability is a critical environmental issue. The only way to reach the island with manpower and equipment is by barge. With this in mind, A&N was looking for a structural foundation solution that didn't include yards of heavy concrete transported over water to produce foundations that would dry slowly in very humid conditions. And they needed to reach soil depths that provide greater stability than concrete.

## THE SOLUTION

By working with the engineering firm Power Services, as well as installing contractor T&D Solutions, Earth Contact Products (ECP) quickly designed a custom solution to meet A&N's requirements. Once Power Services provided the Geo-Technical survey data defining soil conditions, and loading criteria, ECP designed and fabricated a high-tolerance screw-in foundation that reached more stable soil depths in less than a quarter of the time it would have taken to install concrete foundations.

“Given reasonable soil conditions, screw foundations are a better solution than concrete for similar structures. With no prior experience, we were able to install all 4 foundations in 8 hours.”

- Hugh Sutton, Foreman, T&D Solutions



**Call for more information**  
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## BENEFITS

- Quarter the installation time of concrete
- Build in all weather condition - no delays
- Verifiable capacity and tolerance
- Placement below active soil layers
- Lower manpower, equipment costs
- Easier to transport piles and prepare site

## ADVANTAGES

- Easy to construct in limited access areas
- Piles take full load immediately
- Only small equipment needed to install
- Driven in with little or no vibration
- Designed and engineered to perform
- Makes soil removal unnecessary