LEGEND:

- SOLAR MODULE
- STRUCTURES
- RAIL
- PROPERTY LINE
- ROCK LEDGE
- LIMIT OF DISTURBANCE

SURFACE UNDER THE ARRAY IS PERVIOUS-BROKEN SHALE ROCK

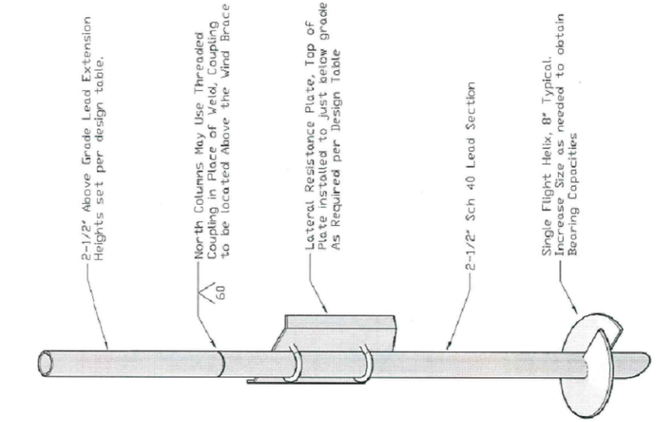
Specification Requirements:

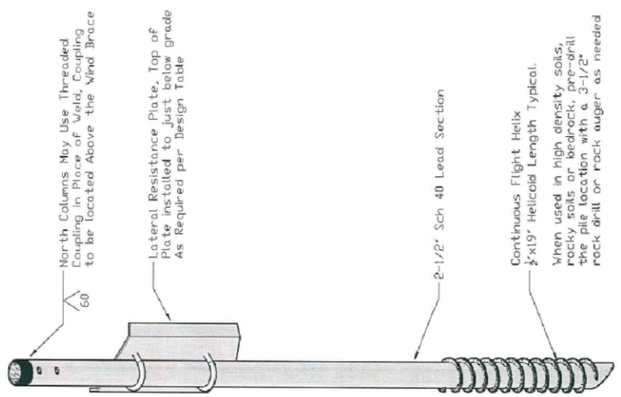
The following material specification requirements pertain to the fabrication of the Solar Foundations USA ground mount solar support structure as indicated on these drawings.

1. Solar Foundation aluminum rails shall conform to ASTM B221.
2. Structural steel tubing shall be ASTM A500 Grade C.
3. Steel pipe for piles shall conform to ASTM A500 Grade C.
4. Steel pile extensions shall be ASTM A53 Grade B.
5. Fabricated steel plate for column and assemblies, bracing components shall conform to ASTM A36 or ASTM A572.
6. Steel bolts for cap fasteners shall conform to SAE J429 Grade 5. All other bolts shall conform to SAE J429 Grade 2 or better.
7. Steel U-bolts shall conform to ASTM 1018.
8. USS flat steel washers shall conform to ASTM F844 and nuts for steel connections shall conform to ASTM A563 Grade A.
9. All field welding shall conform to AWS D1.1/D1.1M -Structural Welding Code requirements.
10. All steel shall be hot-dip galvanized per ASTM A123 or A153 after all fabrication has been completed.

Installation Requirements:

1. The minimum average installation torque required to obtain the required indicated capacities and the minimum installation depth shown on the plans shall be satisfied prior to termination of the installation. The installation torque shall be an average of the installation torques indicated during the last 1 foot of installation.
2. The torsional strength rating of the torque anchor shall not be exceeded during the installation. If the torsional strength limit of the anchor has been reached, but the anchor has not reached the target depth, perform the following:
   - 2.1. If the torsional strength limit is achieved prior to reaching the target depth, the installation may be acceptable if reviewed and approved by the engineer and/or owner.
   - 2.2. The installer may remove the torque anchor and install a new one with smaller diameter helical plates.
   - 2.3. If using a continuous flight pile, pre-drill the pile location with a 3-1/2" rock auger or rock drill as needed.
3. If the target depth is achieved, but the torsional requirement has not been met the installer may do one of the following:
   - 3.1. Install the torque anchor deeper to obtain the required capacity.
   - 3.2. Remove the torque anchor and install a new one with a larger diameter helical plate or one with multiple helical plates.
   - 3.3. Reduce the load capacity on the individual torque anchor by providing additional torque anchors at a reduced spacing.



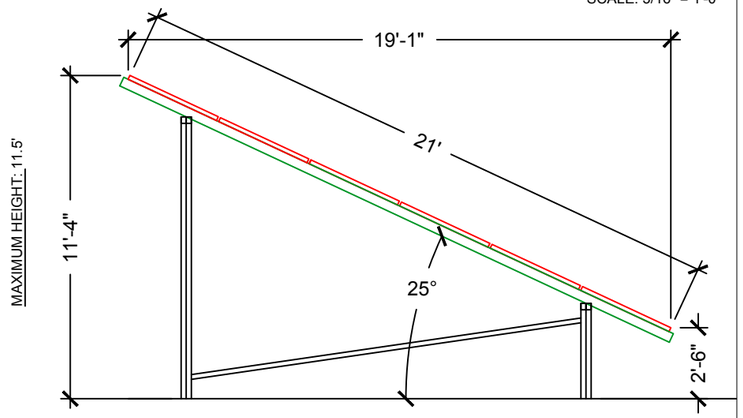


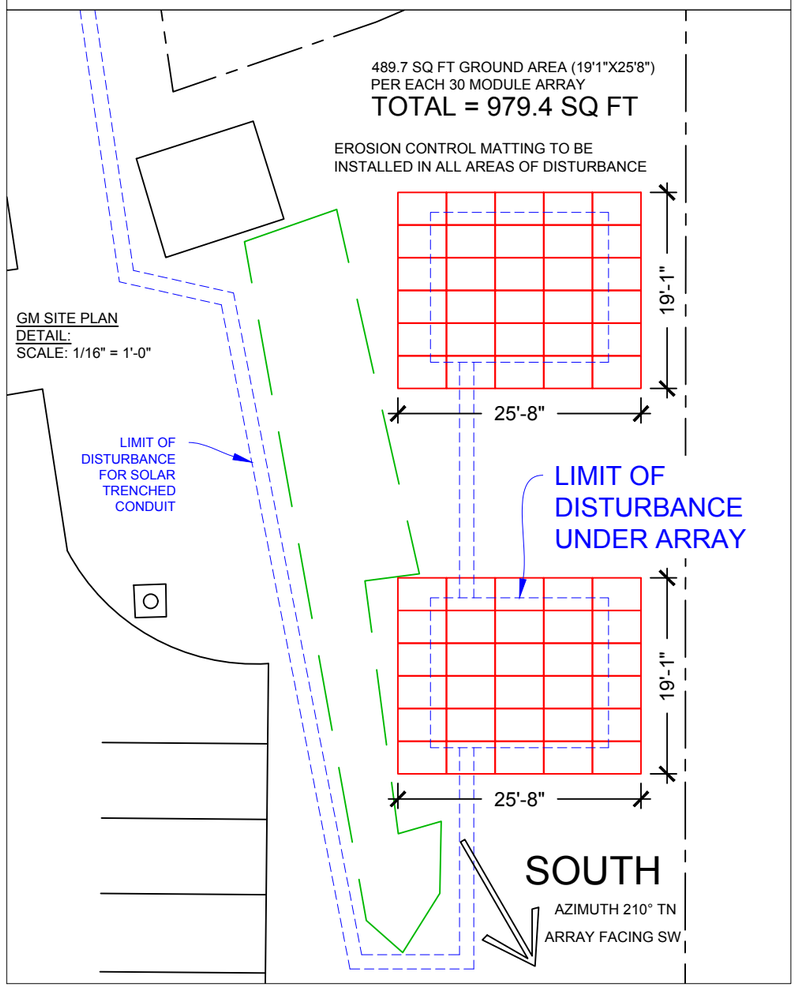
Helical Pile Detail

NOT TO SCALE

NO GRADING IS PROPOSED

ARRAY X SECTION:
SCALE: 3/16" = 1'-0"





NEW YORK STATE SOLAR FARM INC.

871 STATE ROUTE 208

GARDINER, NY 12525 USA

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by
New York State Solar Farm

CUSTOMER:
DR. HOWARD MINTZER
4938 U.S. 9
STAATSBURG, NY 12580

PV SYSTEM CONFIGURATION:
SYSTEM SIZE: 21.6 kW DC
PV MODULES:(60) SUNPOWER X22-360-COM
INVERTER: SOLAREDGE (2) SE10000H-US

DRAWN BY: BRET O'CONNOR
DATE: 10-25-2019
REV: 0
INSTALLER CODE: 2D

SHEET #: PV1
SHEET TITLE: SITE PLAN
1 OF 10 SHEETS

SCALE: LISTED

SOLAR ARRAYS AND THEIR SYSTEM COMPONENTS SHALL BE INSTALLED IN CONJUNCTION WITH LOCAL CODES, 2017 NY UNIFORM BUILDING CODE SUPPLEMENT & 2014 NEC