



Sample of ENGIE scope of work description -- not actual Adams Solar specifications

Installation of Piles

Provide all labor, materials, equipment and taxes necessary to install the piles as described herein.

1. *Layout and Surveying*

- a) Control points will be set by Owner.
- b) Contractor shall work from these points and provide all surveying and layout for their work.
- c) Pile heights will not be provided by Owner. It will be the Contractor's responsibility to establish pile heights. See Item 2d, below.

2. *Tracker Pile Installation*

- a) Receive, unload, inventory, stage and install tracker piles (piles) as shown. Piles will be furnished and delivered to site by Owner.
- b) Contractor shall be responsible for establishing staging locations, receiving pile delivery trucks at site entrance and directing them to the staging locations. It is expected that piles will be unloaded as close to their installation location as is practical.
- c) Prior to executing a contract for pile installation, the number of trucks to be received per day and the amount of time within which the trucks must be unloaded shall be agreed upon. To the extent possible, piles will be delivered in even increments on a weekly basis.
- d) Pile quantities and sizes are as follows (See drawings for detailed information)
 1. Total Piles – 103,734
 2. Piles range from W6x7 to W6x25
 3. There are 2 pile classifications for corrosion resulting in 12 different pile types.
- e) Piles shall be installed in conformance with the tolerances established by NEXTracker. Adjustment by bumping is allowed within the tolerances they outline.
- f) Pile installation Contractor shall be responsible for determining pile heights within the tolerances established by NEXTracker (3.05' to 5.00' = 23.4"). See NEXTracker drawings.
- g) Only minor clearing and grubbing will be performed within the solar arrays – site is all active or fallow farmland. No grading work will be performed in most areas; thus, Contractor shall carefully plan pile heights for each row to ensure the above grade height within a single row is within the established range. See civil drawings for areas and extent of grading work to be performed.
- h) Top of pile heights between two rows in the east-west direction shall generally follow the east-west slope between the two rows. Following the natural slope will minimize the effects of row to row shading. Pile heights between any two adjacent rows in the east-west direction may not vary more than 6" from the natural slope between the two rows. If conditions are encountered which prevent Contractor from meeting this requirement, prior to the installation of piles, Contractor shall advise Owner of such condition and propose the best solution to the problem. Owner will select the appropriate remedy which will be either be having the Civil Contractor regrade the problem area

or allow Contractor to exceed the 6" maximum limitation. Piles driven outside this tolerance must be corrected prior to the installation of Trackers.

- i) The pile driving times achieved when performing the pull-out testing were carefully recorded. See Geotechnical Report for details. Actual drive times may vary due to site conditions or equipment used. Responsibility and liability for drive times achieved are solely those of the Contractor. Under no circumstances will additional compensation be provided if the actual drive times vary from those recorded in the Geotechnical Report. Contractor may install test piles prior to submitting their proposal.
- j) Piles will be ordered in the lengths shown in the table located in the drawing set; see Pier Dimensions provided by NEXTracker. Owner will work with Contractor to develop optimal length to minimize overdrive.
- k) Contractor shall be responsible for the legal off-site disposal or recycling of all pile shipping packaging and dunnage.

3. *Weather Station Pile Installation*

- a) Install weather station piles for NEXTracker weather stations where shown. Weather station piles will be furnished and delivered to site by Owner.

4. *Quality Assurance / Quality Control – Pile Installation Work*

a) General

- 1. Quality Control Documents and Logs shall be maintained using Procore software. Documents prepared in the field will be filled out using tablets and uploaded into Procore electronically.
- 2. Contractor shall perform inspections as outlined and shall participate in inspections conducted by Owner's site management team. Include the cost of this work in this line item of the Bid Form.
- 3. Contractor shall participate with Owner in developing the Quality Assurance / Quality Control report forms and logs to be used in Procore.

b) The following tests and inspections will be performed.

- 1. Contractor shall inspect and document that all piles have been installed in conformance with the design requirements. This will include the following:
 - a) The correct piles are installed in the correct locations. Each pile will be color coded or numbered to identify each of the 12 pile types. Contractor shall document the color code or number of the pile at each location and verify it is the correct pile.
 - b) The minimum embed depth has been achieved and that the above grade height is within the allowable range.
 - c) The top of pile heights between two adjacent rows are within the allowable range (See item 2h above)
 - d) The installed x and y coordinates, and yaw are within the allowable range.
- 2. Once the inspection is completed in a given area or block; any piles found out of conformance shall be corrected or replaced by Contractor as allowed by NEXTracker.
- 3. After all corrections are made in a given area, not greater than one block, Contractor shall notify Owner, and Owner's site management team will perform random inspections. Any non-conforming work will be corrected by Contractor at Contractors' expense.
- 4. Owner will work with Contractor and inspect 100% of the piles in the first block to establish acceptable inspection and reporting procedures.
- 5. It is expected that once the Contractor reports an area is complete, Owner will not find any non-conforming work. Owner reserves the right to back charge Contractor for any required re-inspections.
- 6. No trackers may be installed in a given row or block (as agreed between Contractor and Owner) until the pile installation has been signed off by Owner.

5. *General Requirements*

- a) Contractor shall be responsible for maintaining on-site facilities required for their work. Include all site management and temporary facilities costs in this line item.
- b) For other General Requirements that apply to this section, see the General Conditions section at the end of this document.
- c) Submittals –
 - 1. Prior to beginning work, Contractor shall submit a Quality Control Plan outlining the processes and procedures that will be implemented to ensure the piles are properly installed, inspected, and corrected (if necessary); and how the results of the inspections will be reported. Owner shall review and approve the plan or make necessary changes. Contractor shall conform with changes made by Owner.
 - 2. Provide shop drawings of Inverter Skid piles and weld plates. Include galvanizing specification for materials and galvanized paint to be applied after welding is complete.

6. *Inverter Skid Pile Installation*

- a) Install skid piles for Power Electronics skids and weld plates where shown. ITS skid piles will be furnished and delivered to site by Owner.
- b) Weld plates are to be welded to the inverter skid support piles as shown.

General Requirements

In general, Contractor will be responsible for providing all management, safety and temporary facilities for Contractor's work. Power to job trailers at site entrance, and temporary toilets will be furnished and paid for by Owner. Power for other temporary facilities about the site will be the responsibility of the Contractor.

Site security will be provided by Owner. All Contractor employees will be required to obtain a badge and shall be badged in and out of the site on a daily basis.