

## STATEMENT OF WORK

### Farmstead Energy Improvement (374)

**These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work.**

#### DESIGN

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##### Deliverables:

1. Design documentation that will demonstrate that the criteria in Florida NRCS practice standard have been met and are compatible with other planned and applied practices
  - a. Practice purpose(s) as identified in the conservation plan.
  - b. List of required permits to be obtained by the client and regulations to be met.
  - c. List of facilitating practices.
  - d. Compliance with NRCS national and state utility safety policy as per National Engineering Manual (NEM) Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities.
  - e. Practice standard criteria-related computations and analyses to develop plans and specifications including, but not limited to, the following:
    - i. Review of energy audit.
    - ii. Targeted areas for energy savings.
    - iii. Energy reduction calculations, analysis, etc.
    - iv. Capacity of Evaporative Cooling Pads
    - v. Evaporative Cooling Pad Materials
    - vi. Review of planned equipment and material specifications to ensure they can meet the planned energy reductions.
    - vii. Safety considerations.
2. Written plans and specifications including sketches and drawings shall be provided to the client that adequately describes the requirements (location, materials, components, extent, etc.) to install the practice and obtain necessary permits.
3. Design Report per NEM Part 511, Subpart B Documentation, 511.11.
4. Quality Assurance Plan (QAP) as per NEM Part 512, Subpart D Quality Assurance Activities.
5. Operation and Maintenance Plan as per NRCS National Operation and Maintenance, Part 500, Subpart D.
6. Certifications that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Subpart A, 505.03(b) (2))
7. Design modifications during installation as required.

#### INSTALLATION

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##### Deliverables

1. Pre-construction conference with client and contractor and signed form FL-ENG-40.
2. Verification that client has obtained required permits
3. Staking and layout according to plans and specifications including applicable layout notes
4. Inspection according to the QAP
  - a. Construction materials used as per NRM Part 512, Subpart D Quality Assurance Activities, Part 512.33, Inspection of materials
  - b. Inspection records
5. Facilitate and implement required design modifications with client and original designer.

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6. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation.
7. Certification that the installation process and materials meets the plans and specifications and permit requirements.

## CHECK OUT

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### Deliverables

1. Check out notes as specified in the Florida Supplement, NEFH, Part 650, Chapter 1
2. As-Built documentation
  - a. Extent of practice units applied.
  - b. Drawings as per NEM, Part 512 – Construction, Subpart F – As-Builts.
  - c. Final quantities installed.
3. Certification that the installation meets NRCS standards and specifications and is in compliance with permits, NEM Part 505 – Non NRCS Engineering Services, Subpart A.
4. Progress reporting.

## REFERENCES

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- Florida NRCS Field Office Technical Guide (FOTG), Section IV, Conservation Practice Standard – Farmstead Energy Improvement, Code 374
- Florida Supplement, National Engineering Field Handbook (NEFH), Part 650, Chapter 1, Procedure for Documenting, Planning, Design, Construction, and Checkout of Engineering Conservation Practices
- NRCS National Engineering Manual (NEM)
- NRCS National Environmental Compliance Handbook (NECH)
- NRCS National Operation and Maintenance Manual
- NRCS Cultural Resources Handbook (NCRH)

## STATE CONTACT

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