

**STATEMENT OF WORK**  
**Animal Mortality Facility (316)**  
**Michigan**

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

Specific responsibility for the deliverables depends on the source of engineering technical assistance to NRCS-Michigan customers. Responsibilities for the four available sources of engineering assistance are described in NRCS-Michigan [Roles and Responsibilities for Engineering Technical Assistance](#).

## **DESIGN**

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### **Deliverables:**

1. Design documents that demonstrate criteria in NRCS practice standard have been met and are compatible with planned and applied practices. Include:
  - 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. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A-Engineering Activities Affecting Utilities).
  - d. List of facilitating practices
  - e. Practice standard criteria-related computations and analyses to develop plans and specifications including but not limited to:
    - i. Geology and Soil Mechanics (NEM Subpart 531a)
    - ii. Capacity
    - iii. Planned composting recipe with documented C:N, moisture and bulking agent ranges and is in compliance with the Michigan Bodies of Dead Animals Act
    - iv. Structural, Mechanical and Appurtenance design
    - v. Maximize Clean Water Diversion
    - vi. Environmental Considerations (e.g. air quality, hydrogeology and well isolation, bio-security)
    - vii. Safety Considerations
2. Written plans and specifications including sketches and drawings are to be provided to the client that adequately describes the requirements to install the practice and obtain necessary permits. The Construction drawings must include the notes shown on page 2 of the NRCS-Michigan standard drawing cover sheet ([8½ x 11](#)).
3. Quality Assurance Plan (NEM Part 512 - Construction, Subpart D - Quality Assurance Activities, 512.30 through 512.33). An inspection plan and quality control plan is required.
4. Operation and maintenance plan specific to the animal mortality facility
5. Certification that the design meets NRCS standards and specifications and is in compliance with applicable laws and regulations (NEM Part 505 - Non-NRCS Engineering Services, Subpart A - Introduction, 505.0 and 505.3)

## **INSTALLATION**

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### **Deliverables:**

1. Pre-installation conference with client and contractor
2. Verification that client has obtained required permits. (copy of permit or other documentation showing permits have been acquired)
3. Staking and layout according to plans and specification including applicable layout notes
4. Installation inspection
  - a. Actual materials used (NEM Part 512 - Construction, Subpart C – Evaluation of Construction Materials, 512.20 through 512.23; Subpart D - Quality Assurance Activities, 512.33)
  - b. Inspection records- All inspection narratives/notes
  - c. Documents showing compliance with Quality Assurance Plan and Inspection Plan

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5. Facilitate and implement required design modifications with client and original designer. Include documentation giving explanation and justification of need for modification
6. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation

## **CHECK OUT**

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### **Deliverables:**

1. As-built documentation
  - a. Extent of practice units applied
  - b. As-built drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52
  - c. Final quantities
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3).
3. Progress reporting

### **REFERENCES**

- NRCS-Michigan Field Office Technical Guide ([FOTG](#)), Section IV, Conservation Practice Standard – Animal Mortality Facility (Code 316)
- Michigan Bodies of Dead Animals Act 239 of 1982; as amended July 7, 2005
- Michigan Animal Tissue Composting Operational Standard; October 11, 2007.  
[http://msue.anr.msu.edu/program/managing\\_animal\\_mortalities/michigan\\_requirements](http://msue.anr.msu.edu/program/managing_animal_mortalities/michigan_requirements)
- NRCS Agricultural Waste Management Field Handbook ([AWMFH](#))
- NRCS National Engineering Manual ([NEM](#))
- [NRCS-Michigan Operation and Maintenance Plans](#)
- [NRCS-Michigan Construction Specifications](#)
- [Michigan Climate Information](#)
- National Engineering Handbook ([NEH](#)) Part 637, Chapter 2-Composting
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook