

**STATEMENT OF WORK**  
**Constructed Wetland (656)**  
**Kansas**  
**August 2010**

**State contact: State Conservation Engineer, 785-823-4534**

**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 the Natural Resources Conservation Service (NRCS) practice standard has been met and is 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
  - c. Compliance with NRCS national and state utility safety policy ([National Engineering Manual \[NEM\] Sections 503.0 through 503.6](#) and [NEM Part KS503](#))
  - d. List of facilitating/component practices
  - e. Practice standard criteria-related computations and analyses to develop plans and specifications including but not limited to the following:
    - i. Geology and soil mechanics ([NEM Sections 531.0 through 531.3](#) and [NEM Part KS531](#) and [Appendix 10d in National Engineering Handbook Part 651, Agricultural Waste Management Field Handbook](#))
    - ii. Hydrology/hydraulics
    - iii. Structural
    - iv. Vegetation
    - v. Environmental considerations
2. Written plans and specifications (including sketches and drawings) shall be provided to the client that adequately describe the requirements to install the practice and obtain necessary permits. (Details of what to include in the drawings can be found in the [Manure and Wastewater Handling and Storage Engineering Procedure](#) [Kansas Web site > Technical Resources > Technical Service Providers > Engineering Procedures]).
3. Design report and inspection plan as appropriate ([NEM Sections 511.11](#) and [512.30 through 512.32](#) and [NEM Section KS512.32](#)).
4. Operation and maintenance plan.
5. Certification that the design meets practice standard criteria and complies with applicable laws and regulations ([NEM Section 505.3B\(2\)](#)).
6. Design modifications during installation as required.
7. If enrolled in a conservation program, this practice must meet all conditions and requirements of program enrollment that may exceed the practice standard.

## **INSTALLATION**

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### **Deliverables**

1. Pre-installation conference with client and contractor.
2. Verification that client has obtained required permits.
3. Staking and layout according to plans and specifications including applicable layout notes.
4. Installation inspection (according to inspection plan as appropriate).
  - a. Actual materials used
  - b. Inspection records ([Form KS-ENG-16, Waste Management System Inspection Report](#), or equivalent)
5. Facilitate and implement required design modifications with client and original designer.
6. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws and regulations and NRCS policies during installation.
7. Certification that the installation process and materials meet design and permit requirements.

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**CHECKOUT**

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**Deliverables**

1. As-built documentation.
  - a. Extent of practice units applied (use the [Technical Service Provider Performance Worksheet](#) or equivalent)
  - b. Drawings
  - c. Liner construction verification - Additional information can be found in the Practice Documentation Requirement for Conservation Practice 521, Pond Sealing and Lining
  - d. Final quantities
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits ([NEM Section 505.3C\(1\)](#)).

**REFERENCES**

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- NRCS electronic Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard 656, Constructed Wetland
- NRCS National Engineering Manual (NEM)
- National Engineering Handbook (NEH) Part 651, Agricultural Waste Management Field Handbook (AWFMH)
- NEH Part 637, Environmental Engineering, Chapter 3, Constructed Wetlands
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook