

**STATEMENT OF WORK (SOW)  
CONSTRUCTED WETLAND (656)  
SOUTH DAKOTA  
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**These deliverables apply to this individual practice. For other planned practice deliverables, please refer to those specific SOWs.**

## **DESIGN**

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### **Deliverables**

1. Conduct pre-design meeting with client and Natural Resources Conservation Service (NRCS) representative. Complete and sign SD NRCS Pre-design Meeting Checklist. (Example: SD NRCS Pre-design Meeting Checklist)
2. Design documentation that will demonstrate that the criteria in 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. (Examples: SD DENR permits, county zoning permit)
  - c. Compliance with NRCS national and state utility safety policy NEM, Part 503, Safety, Subpart A, Engineering Activities Affecting Utilities, 503.00 through 503.06). (Example: SD One Call ticket number)
  - d. List of facilitating practices. (Examples: Diversion (362), Fence (382), Critical Area Planting (342), etc.)
  - 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). (Example: Soil log and testing reports)
    - ii. Storage Volume and Maximum Operating Level. (Example: Pond volume computations)
    - iii. Structural, Mechanical, and Appurtenances. (Example: Soil log and testing reports)
    - iv. Nutrient Management Plan.
    - v. Maximize Clean Water Diversion. (Example: Diversion(362) capacity calculations)
    - vi. Environmental Considerations (e.g., liner failure, location, breaching, air quality).
    - vii. Safety Considerations (NEM, Part 503, Safety, Subpart A, 503.06 through 503.12).
3. Sufficient copies of written plans and specifications including sketches and drawings shall be provided to the client that adequately describes the requirements to install the practice and obtain necessary permits. (Examples: Plans, specifications, construction notes, construction details, etc.)
4. Specific detailed requirements for design and the development of construction plans and specifications are outlined in the South Dakota Engineering and Spot Checking Manual (SDEDSCM). Where specific forms or job sheets are mentioned in the SDEDSCM, an equivalent may be substituted. The guidance contained in this manual shall be considered as the minimum acceptable for this practice. (Examples: Plans, specifications, construction notes, construction details, etc.)
5. Design Report and Inspection Plan as appropriate (NEM, Part 511, Subpart B, Documentation, 511.11, and Part 512, Subpart D, Quality Assurance Activities, 512.30 through 512.32). (Example: Inspection Plan and the Design Report)
6. Operation and Maintenance Plan. (Example: Operation and Maintenance Plan)
7. Certifications that the design meets practice standard criteria and comply with applicable laws and regulations (NEM, Subpart A, 505.03(b)(2)). (Examples: Certification statement indicating the project meets NRCS standards, a letter from SD DENR approving plans and specifications for the project under the General Water Pollution Control Permit for Concentrated Animal Feeding Operations, documentation of approval for construction from county zoning authority, etc.)
8. Develop and sign an engineer's cost estimate based on project quantities. Provide revised cost estimates in the event of changes to project quantities or completion of final design. (Example: Signed cost estimate)
9. Develop a list of practices for the project that includes the practice unit and extent. Provide a revised list of practices, practice units, and extents in the event of changes to these values or completion of the final design. (Example: SD NRCS Practice Payment Spreadsheet for appropriate year)
10. Provide an anticipated installation schedule. (Example: Construction Schedule)
11. At any point when the practices or practice extents change for the project, the TSP must immediately provide the NRCS representative with a revised *EQIP Payment Unit and Technical Service Payment Unit Worksheet* prior to any construction activity associated with the change. The NRCS representative will promptly modify the contract with these new practices/practice extents if the change is within policy and funding is available. (Example: Provide a revised SD NRCS Practice Payment Spreadsheet prior to any construction changes being constructed)

## **INSTALLATION**

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### **Deliverables**

1. Conduct a preconstruction meeting with client, contractor, and NRCS representative. Complete and sign SD NRCS Preconstruction Meeting Checklist. (Example: SD NRCS Preconstruction Meeting Checklist)

2. Verification that client has obtained required permits. (Examples: Letter from SD DENR approving plans and specifications for the project under the General Water Pollution Control Permit for Concentrated Animal Feeding Operations, documentation of approval for construction from county zoning authority, etc.)
3. Staking and layout according to plans and specifications including applicable layout notes. (Example: Construction staking and layout survey notes and plans)
4. Installation inspection (according to inspection plan):
  - a. Actual materials used (NEM, Part 512, Subpart D, Quality Assurance Reviews, 512.33).
  - b. Inspection records.
5. Specific detailed requirements for installation are outlined in the SDEDSM. Where specific forms or job sheets are mentioned in the SDEDSM, an equivalent may be substituted. The guidance contained in this manual shall be considered as the minimum acceptable for this practice.
6. At any point when the practices or practice extents change for the project, the TSP must immediately provide the NRCS representative with a revised *EQIP Payment Unit and Technical Service Payment Unit Worksheet* prior to any construction activity associated with the change. The NRCS representative will promptly modify the contract with these new practices/practice extents if the change is within policy and funding is available. (Example: Provide a revised SD NRCS Practice Payment Spreadsheet prior to any construction changes being constructed)
7. 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. Drawings.
  - c. Final quantities.
  - d. Final *EQIP Payment Unit and Technical Service Payment Unit Worksheet*
2. Specific detailed requirements for checkout design and the development on construction plans and specifications are outlined in the SDEDSM. Where specific forms or job sheets are mentioned in the SDEDSM, an equivalent may be substituted. The guidance contained in this manual shall be considered as the minimum acceptable for this practice.
3. Certification that the installation and materials meets NRCS standards and specifications (*Signed Warranty of Technical Services Provided Form*) and is in compliance with permits (NEM, Subpart A, 505.03(c)(1)). (Examples: Certificate of Compliance from SD DENR approving that the project has received a permit under the General Water Pollution Control Permit for Concentrated Animal Feeding Operations, documentation of obtaining a county zoning permit, etc.)

## REFERENCES

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- NRCS South Dakota Technical Guide (FOTG), Section IV, Conservation Practice Standard – Constructed Wetland (656)
- NRCS NEM
- National Engineering Handbook, Part 651, Agricultural Waste Management Field Handbook
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook