

**STATEMENT OF WORK (SOW)  
IRRIGATION RESERVOIR (436)  
SOUTH DAKOTA  
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These deliverables apply to this individual practice. For other planned practice deliverables, please refer to those specific SOW's.

## **DESIGN**

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### **Deliverables**

1. Pre-design conference with client and Natural Resources Conservation Service (NRCS) representative.
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.
  - 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).
  - d. 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. Hydrology/Hydraulics.
    - iii. Structural including hazard class as appropriate.
    - iv. Vegetation.
    - v. Environmental Considerations.
    - vi. Safety Considerations (NEM, Part 503 - Safety, Subpart A, 503.10 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.
4. Specific detailed requirements for Irrigation Storage Reservoir design and the development of construction plans and specifications are outlined in the South Dakota Engineering and Spot Checking Manual (SDEDSCM), under the Earth Dams Practice Requirements. 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.
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).
6. 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(a)(3)).
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.
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.
10. Provide an anticipated installation schedule.
11. Design modifications during installation as required.

## **INSTALLATION**

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### **Deliverables**

1. Pre-installation conference with client, contractor, and NRCS representative.
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 (NEM, Part 512, Subpart D, Quality Assurance Activities, 512.33).
  - b. Inspection records.
5. Specific detailed requirements for Irrigation Storage Reservoir installation are outlined in the SDEDSCM, under the Earth Dams Practice Requirements. 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.
6. Facilitate and implement required design modifications with client and original designer.
7. Advise client/NRCS on compliance issues with all federal, state, Tribal, and local laws, regulations, and NRCS policies during installation.
8. Certification that the installation process and materials meet design and permit requirements.

## CHECK OUT

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### Deliverables

1. As-Built documentation:
  - a. Extent of practice units applied.
  - b. Drawings.
  - c. Final quantities.
2. Specific detailed requirements for Irrigation Reservoir checkout design and the development on construction plans and specifications are outlined in the SDEDSM, under the Earth Dams Practice Requirements. 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 meets NRCS standards and specifications and is in compliance with permits (NEM, Subpart A, 505.03(c)(1)).
4. Progress reporting.

### REFERENCES

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- NRCS South Dakota Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Irrigation Reservoir (436)
- NRCS NEM
- NRCS Technical Release 60, Earth Dams and Reservoirs
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook
- SDEDSM