

**STATEMENT OF WORK
TERRACE (600)
SOUTH DAKOTA
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These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work.

DESIGN

Deliverables:

1. Pre-design conference with client and Natural Resources Conservation Service (NRCS) representative.
2. Design documents that demonstrate criteria in practice standard have been met and are compatible with 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, Section 503.00 through 503.22)
 - d. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
 - i. Hydrology/Hydraulics
 - ii. Interval/Spacing
 - iv. Outlet Capacity and Stability
 - v. Erosion Control
3. Sufficient copies of written plans and specifications shall be provided to the client that adequately describes the requirements to install the practice and obtain necessary permits. As a minimum they must include:
 - a. A plan view of the layout of the terrace system.
 - b. Typical cross sections of the terrace(s).
 - c. Profile(s) or planned grade of the terrace(s).
 - d. Details of the outlet system.
 - e. If underground outlets are used, details of the inlet and profile(s) of the underground outlet.
 - f. Seeding requirements if needed.
 - g. Quantity of materials needed for the construction.
 - h. Site specific construction specifications that describe in writing the installation of the terrace system.
4. Specific detailed requirements for Terrace design and the development of construction plans and specifications are outlined in the South Dakota Engineering and Spot Checking Manual (SDEDSCM), under the Terrace 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. Operation and maintenance plan for the operator to follow. The minimum requirements to be addressed in the written plan are:
 - a. Periodic inspections, especially immediately following significant runoff events.
 - b. Prompt repair or replacement of damaged components.
 - c. Maintenance of terrace ridge height, channel profile, terrace cross-sections and outlet elevations.
 - d. Removal of sediment that has accumulated in the terrace channel to maintain capacity and grade.
 - e. Regular cleaning of inlets for underground outlets. Repair or replacement of inlets damaged by farm equipment. Removal of sediment around inlets to ensure that the inlet remains the lowest spot in the terrace channel.
 - f. Where vegetation is specified, complete seasonal mowing, control of trees and brush, reseeding and fertilizing as needed.
 - g. Notification of hazards about steep slopes on the terraces.
6. Certification that the design meets practice standard criteria and complies with applicable laws and regulations (NEM Subpart A, 505.03(b)(2)).
7. 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.

8. 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.
9. Provide an anticipated installation schedule.
10. Design modifications during installation as required

INSTALLATION

Deliverables:

1. Pre-installation conference with client, NRCS representative, 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. materials used (NEM, Part 512, Subpart D, Quality Assurance Activities, 512.33)
 - b.
5. Specific detailed requirements for Terrace installation are outlined in the SDEDSM, under the Terrace 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.
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 meets design and permit requirements (NEM Subpart A, 505.03(c) (1)).

CHECK OUT

Deliverables:

1. As-built documentation
 - a. Extent of practice units applied
 - b. drawings
 - c. Final quantities
2. Specific detailed requirements for Terrace checkout design and the development on construction plans and specifications are outlined in the SDEDSM, under the Terrace 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
4. Progress reporting

REFERENCES

- NRCS South Dakota Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Terrace, 600.
- NRCS National Engineering Manual
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook
- SDEDSM
- USDA, NRCS. 2004. Revised Universal Soil Loss Equation, Ver. 2 (RUSLE2).
- USDA, NRCS. National Engineering Handbook, Part 650, Engineering Field Handbook, Chapter 7, Grassed Waterways.
- USDA, NRCS. National Engineering Handbook, Part 650, Engineering Field Handbook, Chapter 8, Terraces.