

STATEMENT OF WORK
Structure for Water Control (587)
Tennessee

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

DESIGN

Deliverables:

1. 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. Impacts on adjacent properties and structures
 - d. Compliance with NRCS national and state utility safety policy (NEM part 503-Safety, Section 503.00 through 503.22)
 - e. List of facilitating practices
 - f. 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. Environmental Considerations
 - v. Vegetation
 - vi. Safety Considerations
 - vii. Evaluation and completion of NRCS-CPA-52, Environmental Evaluation Worksheet
2. 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.
 - a. Drawings that show the site location, plan view, all section views that are needed, and other NRCS approved drawings approved by NRCS engineer.
 - b. Material and Construction Specifications.
 - c. Lengths and widths of various structures.
 - d. Grade or percent slope of all subgrades, cutoff trenches, and constructed surface of all structures.
 - e. Grade or percent slope of stream channel upstream and downstream of planned structure.
 - f. Planned elevations of excavated subgrade and surface elevations of structures at cutoff trenches, constructed fills, pipe conduits, riser pipes, concrete around risers, antiseep collars, sand diaphragms, auxiliary spillways, stabilization measures around outlet pipes, and other key locations in the structures.
 - g. Type, dimensions, locations, and method of installation of antivortex devices, and trash guards
 - h. Type, dimensions, and locations of geotextile fabric around outlet pipes.
 - i. Types, dimensions, and locations of other bedding materials used around outlet pipes.
 - j. Types dimensions, and locations of erosion control blankets.
 - k. Method of securing the geotextiles and erosion control blankets.
 - l. Type and size of anchoring pins used to secure the geotextile fabric and erosion control blankets to the soil surface.
 - m. Gradation, type, and quantity of rock riprap, sand bedding, sand diaphragms, conduit pipes, riser pipes, concrete, and other materials.
 - n. Location and extent of fencing required.
 - o. Location and quantities of seed, lime, fertilizer, and mulch needed to vegetate disturbed areas.
 - p. Method of surface water diversion during construction.
 - q. Location of silt fence and any other required erosion control methods.
3. 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).
4. Operation and maintenance plan
5. Certification that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Subpart A, 505.03(b)(2))
6. Design modifications during installation as required

INSTALLATION

Deliverables

1. Pre-construction 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
 - a. Actual materials used
 - b. Inspection records
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, regulations and NRCS policies during installation
7. Certification that the installation process and materials meets design and permit requirements

CHECK OUT

Deliverables

1. As-built documentation
 - a. Extent of practice units applied
 - b. Drawings
 - c. Final quantities
 - d. Slopes and elevations of all constructed subgrades, constructed surfaces, slopes, and cutoff trenches.
 - e. Thickness of all rock riprap stabilization measures.
 - f. Profiles and cross sections of water control structures to show structures are constructed to the correct lines and elevations.
 - g. Type and quantity of geotextile used.
 - h. Gradation, quantity and type of rock riprap, sand diaphragms, concrete and other materials that may be needed (If required).
 - i. Type and quantity of pipe conduits, riser pipes, and antiseep collars used.
 - j. Type and quantity of antivortex devices and trash guards used.
 - k. Adequacy of vegetation.
 - l. Adequacy of fencing.
 - m. Other pertinent data.
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Subpart A, 505.03(c)(1)) Signature and date by person with adequate NRCS Engineering Approval Authority making certification.
3. Progress reporting

REFERENCES

- Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard, Structure for Water Control, 587.
- National Engineering Manual
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook