

**STATEMENT OF WORK  
DAM (402)  
West Virginia**

**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 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. ***The owner or operator shall be responsible for securing all required permits or approvals and for performing in accordance with such laws and regulations prior to any construction or earth moving. Permits may be required from the following agencies:***
    1. ***US Army Corps of Engineers,***
    2. ***West Virginia Department of Environmental Protection (WVDEP), NPDES/Stormwater Permit,***
    3. ***WVDEP, Dam Safety Certificate of Approval, and***
    4. ***Applicable City & County Permits.***
    5. ***WVDEP, Environmental Enforcement, Dam Safety Section, "Application for Certificate of Approval" DS-1 is required for non-agricultural purpose dams***
  - 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 ***and 210-VI-EFH, Amendment WV -45, Nov 1996- WV 5-23 Engineering Field Handbook and subsequent updates, and all engineering activities that affect utilities (above and underground). This includes contacting and documenting Miss Utility 1-800-248-4848 according to WV Chapter 24-C, Underground Facility Damage Prevention act. The law makes it a requirement to notify the state of WV before any excavation or demolition activities commence.***
  - d. ***Practice or drawings documenting the applicable NRCS Conservation Standards Practice standards (stating conservation practice name and number and job classification).***
  - e. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
    - i. Investigation and Survey
    - ii. Geology and Soil Mechanics (NEM Subpart 531a ***and WV 5- 23(3)*** for all practices)
    - iii. Hydrology/Hydraulics
    - iv. Structural including hazard class as appropriate
    - v. Stability (permissible velocity, geotechnical, etc.)
    - vi. Vegetation
    - vii. Environmental Considerations
    - viii. Safety Considerations (NEM Part 503-Safety, Subpart A, 503.10 through 503.12)
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...
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 (a) (3)).
6. Design modifications during installation as required.

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**Note: Design of practice will be in compliance with practice standard and applicable criteria for the appropriate purpose(s). Practice specification will include the information listed in the "Plans and Specifications" and "Operation and Maintenance" section of the conservation practice standard. The design will document the clients' decisions using narrative, check sheet and/or jobsheet.**

### 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 (Part 512, Subchapter D Quality Assurance Activities, 512.33)
  - 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.

*Note: Provide written documentation of any modification of the approved design. Certify that the modification meets practice standard on appropriate NRCS form and/or letter of certification as applicable. At a minimum, documentation will include quantities and amounts. The location of the applied practice will be identified on the conservation plan map for non-structural practices.*

### CHECK OUT

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#### Deliverables

1. As-Built documentation.
  - a. Extent of practice units applied
  - b. Final As-Built Drawings
  - c. Final quantities
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Subpart A, 505.03 (c) (1))
3. Progress reporting

*Note: Meet with client to review practice operation and maintenance. Certify the conservation practice has been installed according to practice design and specifications using a letter of certification or appropriate NRCS form.*

### REFERENCES

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- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard – Dam, 402
- NRCS National Engineering Manual (NEM).
- NRCS Technical Release 60, Earth Dams and Reservoirs

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- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook
- ***WV Department of Health***
- ***WV Department of Agriculture***
- ***US Army Corps of Engineers,***
- ***West Virginia Department of Environmental Protection (WVDEP), NPDES/Stormwater Permit,***
- ***WVDEP, Dam Safety Certificate of Approval***
- ***Applicable City & County Permits.***

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