

**STATEMENT OF WORK**  
**Grassed Waterway (412)**  
**Ohio Template**

**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 documents that demonstrate criteria in practice standard have been met and are compatible with planned and applied practices.
2. Practice purpose(s) as identified in the conservation plan.
  - a. List of required permits to be obtained by the client.
  - b. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06).
  - c. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
    - i. Hydrology/hydraulics.
    - ii. Statement of drainage area, design storm capacity, and vegetative retardance values as described in the NRCS Engineering Field Handbook (EFH) Part 650, Chapter 7. Design charts are available in OH e-FOTG under this standard
    - iii. Outlet capacity and stability.
    - iv. Drawings and design documentation need to include other components or structures necessary for the waterway to function; such as inlet structures, outlet structures, and subsurface drainage along the waterway
    - v. Seedbed preparation, soil amendments and vegetation requirements.
3. 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. Plans and specification shall be developed in accordance with the requirements of conservation practice standard Grassed Waterway (Code 412). Engineering drawings shall meet the requirements stated in NEM 541.00 through 541.09, and Ohio supplement (OH541.00 (b)(4), pages 1 through 6) for the applicable practice.
4. Operation and maintenance plan, including mowing intervals necessary for design retardance.
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.

## **INSTALLATION**

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### **Deliverables**

1. Pre-installation conference with client and contractor.
2. Verification that client has obtained required permits. Landowner is to be made aware of stormwater permit criteria.
3. Staking and layout according to plans and specifications including applicable layout notes; in particular the contractor may need specific instructions and construction monitoring for building the design parabolic shape.

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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/RECORDS OF IMPLEMENTATION**

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**Deliverables**

1. As-built documentation.
  - a. Extent of practice units applied.
  - b. Drawings.
  - c. Final quantities.
  - d. Survey records conforming to the survey intensity and method stated in NEM page OH505-6 (6) or OH505-6 (8) as appropriate for the waterway section shape. OH waterway check-out criteria is in OH e-FOTG under this standard.
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

**REFERENCES**

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- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Grassed Waterway, 412, Ohio FOTG: [http://efotg.nrcs.usda.gov/efotg\\_locator.aspx?map=OH](http://efotg.nrcs.usda.gov/efotg_locator.aspx?map=OH)
- NRCS National Engineering Manual (NEM): <http://www.info.usda.gov/CED/ftp/CED/NEM.html>
- Ohio NRCS supplements to the NEM: <http://www.oh.nrcs.usda.gov/intranet/NEM/supplements.html>
- NRCS National Environmental Compliance Handbook: [http://policy.nrcs.usda.gov/scripts/lpsiis.dll/H/H\\_190\\_610\\_Content.htm](http://policy.nrcs.usda.gov/scripts/lpsiis.dll/H/H_190_610_Content.htm)
- NRCS Cultural Resources Handbook: [http://policy.nrcs.usda.gov/scripts/lpsiis.dll/H/H\\_190\\_601\\_Content.htm](http://policy.nrcs.usda.gov/scripts/lpsiis.dll/H/H_190_601_Content.htm)