

STATEMENT OF WORK

Pond

CODE 378

DESIGN

Deliverables:

1. Provide design documentation demonstrating compliance with the criteria in NRCS practice standard and compatibility 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, along with other participant (client) responsibilities (Reference Form CO-ENG-13, Notification of Participant Responsibilities).
 - c. Impacts on adjacent properties and structures.
 - d. Assure compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06).
 - e. Provide 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
2. Provide written plans and specifications including sketches and drawings, to the client that adequately describes the requirements to install the practice and obtain necessary permits. All applicable State and Federal (OSHA) safety requirements shall be addressed in the plans and specifications where appropriate.
3. Provide Design Report and Quality Assurance Plan as appropriate (NEM Part 511, Subpart B Documentation, 511.11 and Part 512, Subpart D Quality Assurance Activities, 512.30 through 512.32). Construction Quality Assurance Plan, where appropriate, to include, but not limited to, the following items:
 - a. General description of work
 - b. Items of work requiring inspection or testing
 - c. Timing of inspections or tests
 - d. Skills or certifications required by inspectors
4. Provide Operation and Maintenance Plan
5. Provide certification that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Part 501 – Authorizations, Subpart A –Review and Approval, 501.3). For jobs completed by NRCS employees, affix the approval signature of the individual with delegated engineering job approval authority to the drawings. For jobs completed by non-NRCS employees, affix a Colorado Professional Engineer’s seal to design and construction documents, when required by state laws and regulations.
6. Provide itemized cost estimate and list of materials.
7. Provide design modifications during installation as required.

INSTALLATION

Deliverables

1. Pre Installation conference with client and contractor. (Reference Form CO-ENG-13, Notification of Participant Responsibilities).
2. Verification that client has obtained required permits.
3. Staking and layout according to plans and specifications including applicable layout notes.
4. Provide quality assurance of installation (according to Quality Assurance plan as appropriate).
 - a. Actual materials used. (Part 512, Subchapter D Quality Assurance Activities, 512.33)
 - b. Quality Assurance 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. Form CO-ENG-1 may be used for this certification.

CHECK OUT

Deliverables

1. As-Built documentation.
 - a. Extent of practice units applied
 - b. Drawings
 - c. Final quantities
2. Provide certification that the installation meets NRCS standards and specifications and complies with permits (NEM Part 501-Authorizations, Subpart A-Review and Approval 501.3).
3. Progress reporting. Form CO-ENG-12 may be used for this certification.

REFERENCES

- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Pond, 378.
- CO-ENG Forms: eFOTG Section IV, Tools
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook