

**STATEMENT OF WORK**  
**ABOVE GROUND, MULTI-OUTLET PIPELINE**  
**CODE (431)**

**DESIGN**

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**Deliverables:**

1. Design documentation that will demonstrate that the criteria in the 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, along with other participant (client) responsibilities (Reference Form CO-ENG-13, Notification of Participant Responsibilities)
  - 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)
  - d. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
    - i. Capacity
    - ii. Hydraulics and Appurtenance Design
    - iii. Installation Requirements
    - iv. Materials
    - v. Vegetation
    - vi. Environmental Considerations (e.g. erosion and water quality)
2. Written plans and specifications, including sketches and drawings, that adequately describe the requirements to install the practice and obtain necessary permits shall be provided to the client. All applicable State and Federal (OSHA) safety requirements shall be addressed in the plans and specifications where appropriate.
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 complies with applicable laws and regulations (NEM Subpart A, 505.03 (a) (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. Itemized cost estimate and list of materials.
7. Design modifications during installation as required.

**INSTALLATION**

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**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. Installation inspection (according to inspection plan as appropriate).
  - a. Actual materials used (NEM Part 512, Subpart 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 meet design and permit requirements. Form CO-ENG-1 may be used for this certification.

## **CHECK OUT**

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### **Deliverables:**

1. As-Built documentation.
  - a. Extent of practice units applied
  - b. Drawings
  - c. Final quantities
2. Certification that the installation meets NRCS standards, specifications, and all design requirements, and is in compliance with permits (NEM Subpart A, 505.03 (c) (1)). Form CO-ENG-12 may be used for this certification.
3. Progress reporting.

## **REFERENCES**

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- • See references listed in Conservation Practice Standard
- CO Engineering Forms, eFOTG Section IV, Tools