

**STATEMENT OF WORK**  
**Pipeline (516)**  
**Minnesota**

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

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## **DESIGN**

### **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. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06).
  - b. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
    - i. Capacity to meet livestock needs (source and pipeline)
    - ii. Hydraulics including minimum and maximum pressures
    - iii. Materials
    - iv. Climatic Considerations (e.g. freezing)
    - v. Vegetation (See practice standard 342-Critical Area Planting)
2. Adequate plan view, profile, details, and specifications to ensure that the project can be properly constructed.
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. Certifications 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.
7. Itemized engineer's cost estimate.

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## **INSTALLATION**

### **Deliverables**

1. Documentation of 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 (according to inspection plan as appropriate).
  - a. Actual materials used.
  - b. Inspection and test records
5. Facilitate and implement required design and cost modifications with client, original designer and agency staff.
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.

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## **CHECK OUT**

### **Deliverables**

1. As-Built documentation.
  - a. Extent of practice units applied
  - b. 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.

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**REFERENCES**

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- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Pipeline, 516
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook