

STATEMENT OF WORK
Clearing and Snagging (326)
Kentucky

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

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. Practice purpose(s) as identified in the conservation plan
 - b. List of required permits to be obtained by the client
 - a. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.6) It is the client's responsibility to contact Kentucky811, Call 811 Before You Dig. See www.kentucky811.org for more information.
 - c. 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
 - iv. Environmental Considerations
 - v. Vegetation
 - vi. 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.

INSTALLATION

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
 - 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.
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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.
4. Photo documentation recommended.

SPECIAL REQUIREMENTS FOR COST SHARED PRACTICES

As noted in GM KY Supplement 450-407.12: Certifying Performance for Cost Sharing (June 2008)

- A. All practices will be located and identified using Global Positioning Systems (GPS) unit. (See GM KY 450-407.12 for additional guidance.)
- B. Practices receiving cost share assistance will be photo identified with no less than one before picture and no less than one after picture. (See GM KY 450-407.12 for additional guidance)

A quick link to the policy is: ftp://ftp-fc.sc.egov.usda.gov/KY/GM_Supplement_450.pdf

SUPPORTING DATA AND DOCUMENTATION

Planning Information, Field Data, and Survey Notes

The following is a list of the minimum data needed:

- A. Preliminary Investigation

Make a preliminary investigation to determine the complexity and extent of the obstructions, availability of an outlet, and the type and extent of surveys needed. Make the necessary planning surveys and assessments to develop an engineering plan map of the areas requiring clearing and snagging.

Field location, extent of planned work in linear feet, conservation plan map showing the location of the practice, and assistance notes. Assistance notes shall include dates of site visits, name or initials of the person who made the visit, alternatives discussed, decisions made, and by whom;
- B. Engineering Surveys
 1. Minimal surveys are required depending on degree of removal. The area may be designated on an aerial photograph.
 2. Note the location of utilities or utility markers.
- C. Design
 1. Locate areas requiring clearing and snagging. Can be a sketch on job sheet or plans.
 2. Document channel capacity before and after improvement.
 3. Develop engineering plans and specifications. As a minimum the plans and specifications shall include:
 - a. Location of area to be cleared and snagged.
 - b. Limits of debris removal.
 - c. Disposal location and requirements for debris.
 - d. Vegetative requirements for disturbed areas.
 - e. Location of utilities and notification requirements.
 4. Written operation and maintenance plan.
 5. Signed by someone with appropriate design Job Approval Authority.

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A. Construction Layout

1. Review the plans and specifications with the landowner and contractor prior to the start of construction. Ensure the landowner/contractor thoroughly understand their responsibilities including obtaining all permits, easements, etc.
2. Record layout information in the engineering field book.
 - a. Stake the work limits of areas requiring clearing and snagging.
 - b. Set stakes or flags on intervals not exceeding 200 feet.

B. Construction

Make adequate site visits and checks shall be made during construction to verify that the plans and specifications are being met.

Construction Checkout

All areas cleared and snagged shall be checked for completion by making an engineering survey as follows:

1. Determine the total length of channels cleared and snagged. The length shall be measured in the field using a chain, calibrated measuring wheel, GPS, or other equivalent method.
2. Locate area that was cleared and snagged on aerial photograph.
3. Prepare as-built drawings showing final construction dimensions, details, etc. If the practice meets NRCS standards and specifications, then the statement "This practice meets NRCS practice standards and specifications" shall be placed on the check out document and signed and dated by the responsible person.

REFERENCES

- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Clearing and Snagging, 326
- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard – Critical Area Planting, 342
- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard – Streambank and Shoreline Protection, 580
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook
- National Engineering Handbook (NEH) Part 654, Stream Restoration Design
- National Biology Handbook (NBH) Part 614, Stream Visual Assessment Protocol