

Colorado Practice Documentation Requirements Checklist for 580 – Streambank & Shoreline Protection

Minimum documentation requirements for this practice are outlined below. Documentation for associated practices or system components shall follow the appropriate practice documentation requirements for those practices or components. Some items may not be applicable in all cases; mark "N/A" in the check box if such is the case.

Participant Name:	Address:
Project Name & Location:	

✓	By:	Date:
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RESOURCE INVENTORY

Purpose and objectives of practice clearly identified.			
Soils identified (soil map, description, properties, etc.).			
NRCS-CPA-52, Env. Effects Worksheet, & CO-SSC-1, Cult. Res. Survey Form, completed.			
Right of way easements, utility clearances, SHPO clearance, and applicable State and Federal permits are obtained.			
Streambank – stream flow records (if available).			
Shoreline – mean high water line (if available).			
CO-ENG-13, Notice of Participant Responsibilities, has been reviewed with the cooperator, signed, and filed.			

SURVEY

Treatment area defined.			
Geomorphic evaluation (Rosgen or Schumm, Harvey, and Watson) is documented and soils investigation of the site is made as necessary for determining applicable treatment measures, filter requirements, etc.			
Design survey of area to be treated (cross sections, profiles, and/or topographic survey, as needed).			
Investigate and identify source(s) of potential materials to be used for treatment.			
Maximum apparent high water line located, if possible.			
Location of trees, willows, etc. to be removed or retained.			

DESIGN

Engineering Job Class determined and noted.			
Appropriate method of protection is determined; aquatic habitat concerns/criteria are identified.			
Hydrologic computations are made as necessary for selecting and designing the stabilization measures.			
Protection measures designed in accordance with the appropriate standards. Design guidance may be found in NEH Part 650, Chapter 16, <u>Streambank and Shoreline Protection</u> or NEH, Part 654, <u>Stream Restoration Design</u> handbook.			
Information and/or design details given to Cooperator for applicable State and Federal permits.			
Records indicating NRCS obligations regarding State and Federal regulations have been met including wetland and floodplain regulations.			
Quantity and quality of materials determined. Verify availability of materials.			

Design computations have been checked and approved by the appropriate person(s).			
Cost estimate.			

PLANS AND SPECIFICATIONS

Construction drawings drawn on appropriately-sized standard drawing sheets. Include standard drawings as appropriate. Drawings and/or specifications to include the following:			
• Engineering Job Class.			
• Location map or description.			
• Overall plan view of project.			
• Site plan of each treatment area, dimensioned as necessary, showing practice alignment and extent of work.			
• Cross sections and profiles as necessary.			
• Details of treatment measures (materials, rock gradations, bioengineering materials, anchorage/toe excavation details, etc.).			
• Location and details of appurtenances, such as culverts.			
• Source of materials.			
• Special requirements for diverting water and/or dewatering site as needed.			
• Special requirements for pollution control as needed.			
• Requirements for compliance with 404 permit or other applicable regulations.			
• Seeding requirements (species, seeding rates, seeding dates, etc.) as needed.			
• Table of material quantities.			
• Construction notes and General notes as required.			
• Note on drawings to call the Utility Notification Center of Colorado (UNCC), 8-1-1 or 1-800-922-1987, prior to any excavation.			
Construction specifications prepared (Colorado FOTG Practice Specifications or other).			
Construction drawings and specifications have been checked and approved and drawings signed.			
O&M Plans prepared.			
Plans, specifications, and O&M plans have been reviewed with the cooperator.			
Preconstruction meeting with cooperator and contractor.			

CONSTRUCTION LAYOUT SURVEYS

Extent of treated area.			
Necessary cut or fill stakes.			
Location of appurtenant structures as needed.			

COMPLIANCE CHECKS & FINAL DOCUMENTATION

Length of area protected.			
Typical profile or cross section of completed work, as appropriate.			
Size and thickness of rock and thickness of bedding material or geotextile fabric (for riprap). Type and amount of vegetative material used. Verify all materials meet design and specifications.			
Number, size, and spacing of structures (vanes, trees, cribs, etc.)			
UNCC (Utility Notification) ticket number has been recorded.			
Construction inspection reports recorded on NRCS-CPA-6.			
Changes in design are noted and approved by the landowner and the designer, and proper engineering review/approval is obtained.			
“As-Built” plans prepared and filed (Required if significant changes in design occur during construction and for Job Class V and above). If no significant changes, mark original plans “As-Built”.			
Practice completion certified on CO-ENG-1, CO-ENG-12, or checkout notes.			
Progress reported.			