

Colorado Practice Documentation Requirements Checklist for 574 – Spring Development

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 & DESIGN INVESTIGATIONS

Purpose and objectives of practice clearly identified.			
Soils identified (soil map, description, properties, etc.).			
Location of underground utilities.			
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.			
CO-ENG-13, Notice of Participant Responsibilities, has been reviewed with the cooperator, signed, and filed.			

DESIGN SURVEY

Geologic investigation as necessary.			
Topography of site as needed to determine location, water surface elevations, grades, etc.			
Determination of spring flow rate, if possible.			
Determination of type of collection system needed.			
Water quality assessment, as needed.			

DESIGN

Engineering Job Class determined and noted.			
Design of collection system and outlet works – materials, configuration, appurtenances, etc.			
Hydraulic computations, as required.			
Requirements for fencing, re-vegetation, etc.			
Quantity computations and cost estimate.			
Records indicating that NRCS obligations regarding State and Federal regulations have been met. Participant(s) have applied for all permits and cleared water rights issues.			
Design computations have been checked by the appropriate person(s).			

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 site plan showing location of spring development, collection system, and associated structures and pipelines.			
• Profile and cross sections, as needed.			
• Structure details, where needed.			
• Outlet, overflow, piping, and appurtenance details, as needed.			
• Seeding requirements, if necessary.			
• Requirements for fencing or other spring development protection, if needed.			
• 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).			
All engineering reports, designs, drawings, specifications, and related information have been reviewed and checked by appropriate personnel in accordance with current Colorado NRCS policy.			
Construction drawings and specifications have been 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

Structure location(s) and pipe alignments.			

COMPLIANCE CHECKS & FINAL DOCUMENTATION

Profile, cross sections, elevations, as needed.			
Collection system and materials used and quantities.			
Outlet and overflow details and material type used and quantities.			
Fencing or other protection materials and quantities.			
UNCC (Utility Notification) ticket number has been recorded.			
Construction inspection reports recorded.			
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.			