

SPRING DEVELOPMENT DESIGN AND CONSTRUCTION CHECKLISTS

DESIGN

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.
2. List of required permits to be obtained by the client.
3. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06).
4. List of facilitating practices
5. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
 - a. Capacity
 - b. Hydrology/Hydraulics
 - c. Appurtenances
 - d. Environmental Considerations
2. Construction Specifications
 - a. Were construction specifications for all practice standards associated with the spring development included and modified to be fit the conditions for this closure
 - b. Were any additional specifications needed and included in the design
 - c. Materials to be used for anti-seep cutoff wall, spring box, pipes, and filter materials in collector drains
3. Engineering Drawings
 - a. Plan View
 - North Arrow
 - Bench Marks
 - Scale
 - Legend
 - Access Roads
 - Fencing
 - Construction Limits
 - Location of all components, including spring, spring box, collector trenches/pipes and troughs
 - Property Lines
 - Erosion and Sediment Control BMPs
 - b. Construction Details
 - Typical section of collection trenches if used showing length, width and depth, filter materials, and size and material of collector pipes
 - Typical section of anti-seep cutoff wall
 - Typical section of spring box showing inlet and outlet pipes with adequate grades and elevations for all components to ensure the system will function as planned
6. Operation and Maintenance Plan

INSTALLATION

1. Pre Installation conference with landowner and contractor.
2. Verification that client has obtained required permits.
3. Staking and layout according to plans and specifications including applicable layout notes.

CHECKOUT

1. As-Built documentation.
 - a. Elevations of spring area, collection pipes, spring box and outlet pipe
 - b. Dimensions and type of anti-seep cutoff wall

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- c. Quantity and type of components installed
- 2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Subpart A, 505.03(c) (1)).