

# WATER WELL DESIGN AND CHECK DATA REQUIREMENTS

The following items must be addressed in the design folder for a water well. The following information shall be included:

- (1) Table of Contents
- (2) Operation and Maintenance Plan
- (3) Construction Specifications
- (4) Engineering Drawings
- (5) Erosion and Sediment Control Plan
- (6) Quality Assurance Plan

Listed below are specific items that are required in the design:

## **Table of Contents**

This organizes the design folder.

## **Operation and Maintenance Plan**

Provide the landowner with information on protecting the quality of the well water.

## **Construction Specifications**

Enclose Specification 642 and other applicable specifications (e.g. 342, 362).

Include the projected water use (type of use, daily volume, and gpm) and any other "additional conditions" or items that are site specific or must be defined to supplement the standard specification. (See instructions for use of Specification 642.)

Add any special or "by-others" specifications.

## **Engineering Drawings**

### **GENERAL**

On each drawing sheet, the title block should show the farm operator's name,

county and the persons involved in drawing and designing the water well.

A water well design prepared by NRCS or a cooperating agency requires approval by an Engineer with NRCS Engineering job approval authority for Water wells.

Include any standard drawings made by NRCS or designed by others and concurred in by NRCS that are needed, and include them in the drawing index on the cover sheet.

The design should **not** include the selected location for the well. Rather, it will show the areas that are available for the well. The well driller should have expertise in selecting the well location, based on the information provided in the design.

Listed are items that should be included:

### **PLAN VIEW SHEET**

North arrow  
Bench mark  
Scale  
Legend  
Property lines  
Utilities & PA One-Call information  
Roads and farm lanes  
Existing structures  
Potential contaminant sources & setback requirements  
Existing well, spring, & sinkhole location(s)  
Water courses  
100 year floodplain boundary or elevation

### **SEQUENCING STATEMENT WITH:**

E&S control  
Construction sequence  
Special considerations  
    Special equipment or site concerns  
    Surface water diversion requirements  
Vegetative requirements  
Safety considerations  
Act 187 (1996) statement  
**Erosion and Sediment Control Plan**

See DEP's Erosion and Sediment Pollution Control Program requirements for water well drilling and aquifer testing.

### **Quality Assurance Plan**

What specific items need inspection and when?

Include:

- setback requirements
- materials
- casing height above ground
- grouting
- wellhead protection
- water well completion report
- additional conditions

Who will do the actual inspection?