

# Clay County Environmental Health Waste Water Construction Inspection

Owner \_\_\_\_\_ Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_  
 Permit No. \_\_\_\_\_ Site Address \_\_\_\_\_

**Pre-construction Inspection**

Inspected by \_\_\_\_\_ Date \_\_\_\_\_  
 Approved \_\_\_\_\_ Not Approved \_\_\_\_\_

**Construction Inspection**

Inspected by \_\_\_\_\_ Date \_\_\_\_\_  
 Approved \_\_\_\_\_ Not Approved \_\_\_\_\_

Contractor \_\_\_\_\_

**Pre-Construction Inspection - Location**

Description	Not Applicable	Meets Standard	Does Not Meet Standard	Notes
Topography				
Drainage Ways				
Terraces				
Floodplain				
Percent of Land Slope				
Location of Property Lines				
Location of Easements				
Buried Utilities				
Existing & Proposed Tile Lines				
Existing, Proposed and Abandoned Water Wells				
Available Area for Installation				
Evidence of Unstable Ground				
Alteration of Existing Soil Profile				
Soil Analysis				
Old Septic Tank Abandoned				
Minimum Distances				

**Construction Inspection – Building to Primary Treatment Unit**

Description	Not Applicable	Meets Standard	Does Not Meet Standard	Notes
Schedule 40 Plastic Pipe – 4” dia.				
Tank not less than 10’ from house				
Grade – 4” = 12” per 100’ and 6” = 8” per 100’				
Cleanout where the line leaves the building & every 100’				
Cleanout at any change of				

direction exceeding 45 degrees				
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### Construction Inspection – Primary Treatment

Description	Not Applicable	Meets Standard	Does Not Meet Standard	Notes
Easement				
No chemicals, grease, roof drains, foundation drains or area drains				
Effluent Filter				
Capacity – See 69.8(2) a.				
Fill soil – level, will not settle				
Two compartments				
Inlet/outlet – inlet shall be 2” to 4” higher than outlet pipe				
Baffles – 4” schedule 40 plastic pipe				
Access – Must be provided at each end of the tank & shall be at least 18”. Watertight risers shall be installed to bring the access openings to the ground surface. Risers shall be secured.				
Tank shall be constructed of watertight poured concrete, fiberglass or plastic resistant to corrosion or decay.				
Dividers – tank divider walls and divider wall supports should be constructed of heavy durable plastic, fiberglass concrete or other similar corrosion resistant materials				
Inlet and outlet ports – constructed of schedule 40 pvc plastic sanitary tees or other similar corrosion resistant material				
Wall thickness meets minimum standard – See 69.8 (5) (6) (7) (8) & (9)				
Bedding – fiberglass or plastic tanks shall be bedded according to manufacturer’s specifications. Prevent flotation				

### Construction Inspection – Connecting Pipes

Description	Not Applicable	Meets Standard	Does Not Meet Standard	Notes
Minimum diameter – 4” diameter schedule 40 for at least the first 5’ out of tank				
Tank connections – shall be made by self-sealing gaskets cast into the concrete or formed into				

the plastic or fiberglass				
Joints – shall be approved plastic pipe connections such as solvent-welded or compression type gaskets				
Pipe in unstable ground – schedule 40 plastic pipe shall be used extending across excavations or unstable ground to at least 2 feet beyond the point where original ground has not been disturbed				

#### Construction Inspection – Distribution Box

Description	Not Applicable	Meets Standard	Does Not Meet Standard	Notes
Distribution box is level				
Speed levelers installed				

#### Construction Inspection – Secondary Treatment

Description	Not Applicable	Meets Standard	Does Not Meet Standard	Notes
Vertical separation from seasonal high groundwater no less than 3'				
Percolation Test				
Soil Survey				
Confining layer determination – groundwater level and rock formations				
Site limitations				
Prohibited drainage – Roof, foundation and storm drains shall not discharge into or upon subsurface absorption systems				
Prohibited construction – No construction of any kind shall cover the septic tank, distribution box or absorption field				
Driveway crossings – Lines under driveways shall be constructed of schedule 40 plastic pipe and shall be protected				

from freezing				
Easements				
Depth – Lateral trenches shall not exceed 36 inches in depth. Not less than 6” of porous soil shall be provided over the laterals				
Length – shall be no greater than 100’				
Separation Distance – 6’ of undisturbed soil shall be let between each trench edge on level sites				
Grade – Trench bottom should be constructed level from end to end				
Compaction – shall be minimum use on the area of the soil absorption field				
Fill soil – soil absorption systems shall not be installed in fill soil				
Soil smearing – soils with significant clay content should not be worked when wet				

Type of system \_\_\_\_\_

**Gravel Systems:** A minimum of 6 inches of clean, washed river gravel, free of clay and clay coatings, shall be laid below the distribution pipe, and enough gravel shall be used to cover the pipe. This gravel shall be of such a size that 100 percent will pass a 2 ½” screen and 100 percent will be retained on a ¾” screen. Limestone or crushed rock is not recommended for soil absorption systems. Lateral trenches for gravel systems shall be a minimum of 24 inches and a maximum of 36 inches in width at the bottom of the trench. The distribution pipes shall be laid with a minimum grade of 2 inches per 100 feet of run and a maximum grad of 6 inches per 100 feet of run, with a preference given to the lesser slope. Distribution pipe shall be PVC rigid plastic meeting ASTM Standard 2727, or other suitable material approved by the administrative authority. The inside diameter shall be not less than 4” with perforations at least ½” and not more than ¾” in diameter spaced no more than 40 inches apart. Two rows of perforations shall be provided located 120 degrees apart along the bottom half of the tubing (each 60 degrees up from the bottom centerline). The end of the pipe in each trench shall be sealed with a watertight cap. Unbacked, rolled 3 ½ inch thick fiberglass insulation, untreated building paper, synthetic drainage fabric or other approved material shall be laid so as to separate the gravel from the soil backfill.

Notes \_\_\_\_\_  
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