

## Minimum requirements for Class VI roads shall be as follows:

1. A minimum of sixty (60) foot right-of-way, calculated from the center of the road, shall be required in all instances. **The right-of-way for standard round cul-de-sac shall be (60) foot radius.** Additionally, a ten (10) foot utility/road work easement, five (5) feet on each side beginning where the public right-of-way ends, is required except when curb and gutters are used. All right of ways and easements will be cleared.
2. Before any road work starts there shall be a preconstruction meeting including the Owner(s), the Resident Engineer, Contractor, the Saline County Planning Board Code Enforcement Officer, and the County Road Superintendent or his representative. The meeting is to be arranged by the owner or contractor.
3. The owner shall conform to all Storm Water regulations.
4. When absent in the Master Road Plan, materials and methods must comply with Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, applicable manual to date.
5. Anyone working in existing Saline County right of way shall have a surety bond with Saline County for a minimum of \$10,000. (SALINE COUNTY ORDINANCE NO. 2001-80)
6. SUB BASE:
  - A. All trees, grass, weeds, top soil or rubbish of any nature that may be considered deleterious shall be removed.
  - B. The road bed will be a minimum of 31 feet wide with 18 inch deep ditch lines measured from top of sub grade with 3 to 1 front slopes and no steeper than 2 to 1 back slope.**The road bed for cul-de-sac shall be 99 feet to accommodate an 88' diameter asphalt paved surface adjoined by a 4 feet gravel shoulder bulb.**
  - C. The sub base shall be compacted to 95% using a modified proctor to a depth of 18 inches. To identify any weak areas the sub base shall be proof rolled with a loaded tandem or tri axle dump truck. Any weak areas identified shall be removed and replaced with compacted suitable material. In areas requiring fill to bring the road bed to grade suitable material shall be compacted to 100 percent standard proctor in 18" lifts. Before placement of base gravel density test shall be taken at a rate not less than one per two stations or directed by the County Engineer.
  - D. In areas where inadequate soil exists the resident engineer is to submit a guaranteed plan of action for the area to the County Engineer for review.
  - E. Where cuts are made across road beds for utilities they are to be back filled with a selected backfill class 7 crushed stone (sb2) or equal and be compacted from bottom to top to 95% Modified Maximum Density. To be considered equal the selected backfill shall satisfy Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction requirements based on material samples and testing by a materials laboratory.
  - F. The sub grade shall be graded to a smooth and even surface with a 3% crown.
  - G. No road shall be accepted by the county unless adequate drainage is provided. Drainage must be designed so that water will not collect or stand at any point in the road right-of-way and any drainage crossing the roadway must have sufficient length and carrying capacity to insure that water will not run across the roadway surface. Pipe used for cross drains drainage under the roadway will be reinforced concrete no smaller than 18 inches. Pipe used for side or parallel drains shall be reinforced concrete or type S. polyethylene corrugated plastic with smooth insides no smaller than 18 inches. The type S. polyethylene pipe shall be bedded per manufactory recommendations or if the pipe is outside any traffic areas with a minimum of 4 inches of crushed stone ballast material below the pipe and up the sides to the spring line.
7. ROAD BASE & SURFACE:
  - A. Must be a minimum of 28 feet wide
  - B. Have a minimum of **eight (8)** inches of class 7 crushed stone and cover all 28 feet of sub base.
  - C. Compacted to 98% using a modified proctor **eight (8)** inches deep the full width of base.
  - D. Graded to a smooth and even surface with a 3% crown.
  - E. Have a minimum of .3 gallons per square yard of prime coat and **three (3)** inches of compacted asphalt that meets Arkansas state specification and be least twenty (20) feet wide.

- F. Have graveled shoulders 4 feet wide on each side with the same crown slope as the asphalt.
8. The surface of the road at intersections shall flare on both sides with a radius of 25 feet. The shoulder width shall carry around the radius.
  9. Minimum angle of intersections shall be 75 degrees.
  10. Maximum grade shall be 12%.
11. CURB AND GUTTER STREETS;
- A. Curb and gutters are optional. They must be four (4) inch integral stand up curbs with ten (10) inch back.
  - B. Asphalt surface width shall be a minimum of twenty-four feet
  - C. Curbs width minimum is 1.5 feet.
  - D. Surface water shall run no more than 600' in the gutter before being channeled off the road.
  - E. TESTING
    - a. All testing is to be at owner or contractor expense and is to be done with certified personal.
    - b. Testing is to be done just before placing gravel on the roadbed and just before asphalt is laid.
    - c. When testing is to be done the Planning Board Code Enforcement Officer or someone from the Saline County Road Dept. is to be present.
    - d. The Saline County representative has the right to ask for test in any area he has doubt
    - e. The Planning Board Code Enforcement Officer is to be given a copy of all test results.
12. CONCRETE STREETS;
- A. The street will not be accepted if any water is found standing in the street or gutter after the concrete is poured.
  - B. No traffic will be allowed on new concrete streets for a minimum of fourteen (14) days after pouring.
  - C. No concrete may be poured unless the sub-grade moisture content is approved and is at optimum moisture content levels.
  - D. No concrete is to be poured on frozen ground or below 40 degrees.
  - E. ALL SUB GRADES AND BASE WILL BE THE SAME AS ASPHALT STREETS and the moisture content shall be optimum.
  - F. No concrete may be poured without passing the sub base preparation test
  - G. All culverts under concrete streets are to be reinforced concrete type
  - H. TESTING
    - a. All testing shall be at the expense of the contractor.
    - b. The county shall determine the type, frequency and location of all required testing.
    - c. A copy of all test results shall be provided to Saline County.
    - d. The construction must satisfactorily pass all tests before the County will approve a project.
    - e. All concrete pours are subject to coring for verification of depth. All core testing shall be at the expense of the developer and shall be performed by a laboratory approved by the county. All coring holes shall be immediately sealed with approved epoxy to the appropriate level.
    - f. There shall be breaks at 7 days and 28 days (4000 psi minimum strength required at the 28 day period).
13. RESIDENTIAL STREETS:
- A. Shall be a minimum of six (6) inch thickness concrete pavement.
  - B. Shall be a minimum of twenty four (24) feet in width (back of curb to back of curb).
  - C. The street shall have a 3% crown.
  - D. Shall be 4,000 psi concrete.
  - E. Shall have four (4) inch integral stand up curbs with ten (10) inch gutters.
  - F. All contraction joint patterns shall, as close as practicable, approximate a square pattern and be no longer than 15 feet.
  - G. Unless otherwise isolated, align joints in street to match joints in curb& gutter. (Diagram attached)
  - H. Surface water shall run no more than 600' in the gutter before being channeled off the road
  - I. Expansion/Construction Joints

- a. All expansion/construction joints shall be doweled.
- b. The dowel shall be smooth and 3/4 inch in diameter and 24 inches long and placed on 12 inch centers with an expansion joint on one end.
- c. The dowel shall be greased on the expansion joint end only.
- d. All joints will be calked and sealed.
- e. The expansion/construction joint materials must meet state highway specifications and be predrilled or drilled holes for the dowels to go through.

14. COMMERCIAL COLLECTOR AND ARTERIAL STREETS:

- A. Shall be eight (8) inch thickness concrete pavement.
- B. Shall be 4,000 psi concrete.
- C. Shall have eight (8) inch integral stand up curbs with twelve (12) inch gutters.
- D. Expansion/Construction Joints
  - a. All expansion/construction joints shall be doweled.
  - b. B. The dowel shall be smooth and 1 inch in diameter and 24 inches long and on 12 inch centers with an expansion joint on one end.
  - c. The dowel shall be greased on the expansion joint end only.
  - d. The expansion/construction joint materials must meet state highway specifications and be predrilled or drilled holes for the dowels to go through.

15. STORM PIPE and STORM INLET DRAINAGE CONSTRUCTION:

- A. All culverts crossing County Roads shall conform to the current specifications for reinforced concrete storm sewer pipe.
- B. Culverts used for side or parallel drains shall be reinforced concrete or type S. polyethylene corrugated plastic with smooth insides no smaller than 18 inches. The type S. polyethylene pipe shall be bedded per manufactory recommendations or if the pipe is outside any traffic areas with a minimum of 4 inches of crushed stone ballast material below the pipe and up the sides to the spring line.
- C. All inlet structures shall be curb inlet.

16. STORM DITCH DRAINAGE CONSTRUCTION:

- A. Capacity (size) shall be determined by engineering study.
- B. Ditches within a subdivision carrying storm water from a drainage basin greater than 5 acres shall be in an easement. Ditches within or crossing a subdivision carrying storm water from a drainage basins greater than 10 acres shall have the calculated 100 year flood level determined.
- C. Ditches shall be grassed lined unless the water velocity determined by the engineer study exceeds 7 ft. per second then the ditch shall be lined with erosion resistant material.