

ARTICLE 9
ROAD STANDARDS

For the purpose of these Engineering Standards, Roads shall be defined based on the number of vehicle trips per day as follows:

<u>Classification</u>	<u>Vehicles per day (vpd)</u>
Major Thoroughfare	1501+ & Moves traffic through County
Arterial	1500+
Collector	401-1500
Local	0- 400

Utility installation (electrical, telephone, cable television and gas) are encouraged to be placed underground in all new Subdivisions, except where overhead service can be provided to adjoining properties without the addition of new poles.

See Detail for preferred locations of underground utilities and services.

Road standards not specifically addressed or where conditions warrant, the design shall conform to the standards of practice in TRAFFIC ENGINEERING HANDBOOK, Institute of Transportation Engineers, latest edition.

Section 900. Roads.

(1) Sight Distance:

No fence, wall, tree, terrace, building, sign, shrubbery, hedge, other planting or structure or object capable of obstructing driver vision will be allowed at intersections.

(2) Clear Right-of-way:

Except as otherwise provided herein, it shall be required that the right-of-way be cleared, all surface improvements removed from the right-of-way, and all sub-surface improvements parallel to the pavement be re-located from under the pavement. All areas disturbed during construction and shoulders and slopes shall, be seeded to obtain permanent vegetation for controlling erosion.

(3) Clear Zone:

The maximum possible clear zone within the proposed right-of-way shall be provided. Guardrails shall be provided if obstructions cannot be eliminated. Also, guardrails shall be provided at bridge ends, along slopes steeper than 4:1 exceeding ten (10) feet height, and at other hazardous locations.

(4) Roadside Parking:

All Roads shall be considered to provide Road-side parking unless plans clearly state that Road-side parking will be prohibited. Where Road-side parking is prohibited, the Applicant shall provide for "No Parking" signage as part of the design. Where Road-side parking is provided, a nine (9) foot wide paved surface will be provide for each lane.

(5) Roadside Shoulders:

Except as otherwise provided herein, Roadside shoulders shall be a minimum of eight (8) feet wide for Arterial Roads and Collector Roads and six and one half (6½) feet for Local Roads, except where Road-side parking is permitted.

(6) Roadway Drainage:

The Roadway drainage shall be adequate with sufficient outfall.

(7) Roadside Subgrade Drains:

Parallel Roadside sub-drains shall be a six (6) inch diameter perforated pipe surrounded with graded aggregate, surrounded with an approved geotextile material in a twenty-four (24) inch wide trench with a minimum of two (2) foot depth. See detail herein.

(8) Roadside Signs:

All signs, structures, and appurtenances located within the shoulder shall be of break-away construction.

(9) Geometry:

The geometry (vertical and horizontal) shall conform to the following requirements:

Sight Distance for Vertical Curves:

	Design Speed MPH	Minimum Curve Radii	Minimum Stopping Sight Distance
Local	30	275 feet	200 feet
Collector	35	350 feet	240 feet
Arterial	40	500 feet	- 275 feet

Horizontal Curves.

Where a deflection angle of more than ten (10) degrees occurs in the alignment of a Marginal Access or Minor Road or Road, a curve of reasonable radius shall be introduced. A curve shall be introduced at any change in direction of a Collector, Road or Major Thoroughfare. On Major Thoroughfares, the centerline radius of curvature shall be determined by the County Engineer. On Collector Roads, the centerline radius of curvature shall not be less than three hundred fifty (350) feet. On Local Roads, the centerline radius of curvature shall not be less than one hundred (100) feet unless the topography of the land to be Subdivided makes this impractical.

(10) Access to Adjacent Property:

Each Road must connect to an existing Public Road or an Approved Private Road System. The Road must not possess any unusual features that will cause the construction or maintenance cost to be abnormal.

The proposed Road layout shall be coordinated with the Road system of the surrounding area. Where possible, existing Roads shall be extended.

(11) Roads Located on Dams:

If a Road is located on a dam, the dam must be declared safe in accordance with the Dams and Reservoirs Safety Act.

(12) Reserved Strips Prohibited:

A Road intended to be dedicated to the County shall not be located so that a narrow buffer strip is maintained between the right-of-way of such Road and adjacent property in such a manner as to deny access to another adjacent property.

(13) Access to Arterial Roads:

No residential Road, driveway, or other access point shall enter an Arterial Road at a point nearer than five hundred (500) feet from an existing highway, Road, driveway, or other access point; except, where an Existing Lot of Record would be rendered unusable by the strict application of this provision.

(14) Roadside Ditches:

Roadside ditches over three (3') feet deep shall be piped, and a parallel sub-drain system shall be provided as deemed appropriate by the County Engineer.

Adopted: August 1, 1995

Donna M. Waters, County Clerk

Section 907. Bryan County Dirt Road Standards.

(1) Materials:

Soil shall be Class. 11-B-3 or better as defined in Georgia Department of Transportation Standard Specifications Construction of Roads and Bridges, Section 810.01 . Where this Soil is not naturally available it shall be stabilized With graded aggregate or sand.

(2) Compaction:

The entire surface of the in-place material shall be plowed, harrowed and mixed to a depth of six (6) inches, brought to grade and compacted using a sheepsfoot roller. In areas predominantly sand, the Engineering Director may permit the use of a vibratory roller.

(3) Elevation:

The minimum elevation shall be eight (8) feet mean sea level.

(4) Crown:

The Road shall slope from the centerline to the edge at 3/811/foot or shall drop a minimum of 0.3 feet.

(5) Drainage:

The Road shall have adequate drainage provided by means of Road side swales or ditches. Where there are low points in the Road topography, drainage shall be provided using a minimum eighteen (18) inch diameter reinforced concrete pipe across the Road laid on grade with the existing ditch profile and the Road constructed over the pipe. There shall be a minimum of twelve (12) inches of clearance between the top of the pipe and the top of the fill over the pipe.

(6) Design Criteria:

Average daily traffic Design width (minimum) Shoulder width (minimum) Design speed
Brake reaction time Brake reaction distance Brake distance (level) Stopping sight
distance Passing sight distance Decision sight distance

50 vehicles per day
20 feet (181-Less than 300')
4 feet
20 mph
2.5 seconds
73.3 feet
33.3 feet
125 feet
350 feet
220 feet