

SCHEDULE 2

Construction Standards for Roads, Streets, Bridges and Drainage Structures

Width Requirements:

Minimum right of way width for main artery, streets and roads.....	60 feet
Minimum right of way for other streets and roads.....	60 feet
Minimum shoulder-to-shoulder widths	50 feet
Minimum pavement width	28 feet
Minimum pavement width for Subdivision with lots 3 acres or more	24 feet
Minimum right of way width for cul-de-sacs	150 feet
Minimum pavement width for cul-de-sacs	120 feet
Minimum width for bridges, culverts and slabs	30 feet

Anytime a subdivider is to construct public or private roads, the roads must be paved unless all of the lots in the subdivision are twenty-five (25) acres or more and no resubdividing of lots into less than twenty-five acres is allowed.

Roadway Preparation:

Road and street right of ways shall be cleared of all trees, boulders, stumps and other such obstructions to traffic. Also, the roadbed shall be free of holes, ruts, depressions and plant matter. Further, the roadbed shall be shaped, moistened, compacted and fully prepared for the roadbed treatment.

Subgrade:

Soil types vary greatly within very short distances. In some Medina County locations, subgrade materials are in place, naturally and therefore, not required. In other areas, sandy soils for example, a subgrade is essential to quality road construction. Therefore, the decision regarding subgrade requirements has been delegated to the County Commissioner.

When required, the subgrade material shall be of such a quality to “set up” with proper watering and compaction tested to 95%. Throughout the 30-foot shoulder-to-shoulder width, the subgrade depth shall be a minimum of 6 inches deep, after compaction.

Flexible Base Material and Preparation for Applying Pavement:

Crushed base shall be mandatory. It shall not have a liquid limit of greater than 40 or plasticity index of greater than 12 %, upon completion, compaction tested to 95%.

Once the sub-base and base material is approved by the Commissioner, flexible base material will be applied throughout the 30-foot shoulder to shoulder width to a minimum depth of 10 inches, after compaction.

All irregularities, depressions or weak spots which develop, shall be corrected immediately by scarifying the areas affected, adding suitable material as required, reshape, and recompact.

The road or street will be crowned to permit proper drainage. Bar ditches will be located near the right-of way- perimeter to permit runoff water to be carried to the nearest natural drainage channel.

A tack coat is required and shall consist of water and emulsion (MS-1, EA 11M or a suitable substitute). The tack coat shall be applied at a rate of no less than 300 gallons of emulsion (mixed with an appropriate amount of water) to one mile of roadway surface. The tack coat shall be applied within 24 hours of the hard surface treatment.

Paving Requirements:

Once the base has been properly compacted and compaction tested, the tack coat is applied, and the street approved by the Court’s representative, paving may be completed. A ‘double asphalt surface treatment is required.’ The rate of application for MC-A, HVRS, CRS2 or HFRS2 emulsion for two (2) coats is .60 gallons per square yard minimum. Crushed rock will be applied at the rate of one (1) second course; the rate is one (1) cubic yard for one hundred square yards. Rolling is required to achieve a uniform embedment and the contractor shall broom off loose aggregate before the street receives final approval. If bleeding occurs, the contractor shall apply sand to the finished surface for whatever period is required to absorb the excess asphalt. Should a plant mix be used for paving, it shall be compacted to a minimum depth of one and one-half (1 ½) inch.

Drainage, Minimum Grades, Retards and Headwalls:

Steep grades in excess of twelve (12) percent will not be allowed. Permanent drainage structures to include slabs, culverts and bridges shall be installed where prescribed by Court’s representative. When culverts are required, headwalls to prevent erosion of base materials shall be constructed substantially in accordance with the example displayed on page 4 of this Schedule 2.

Road/Street Signage:

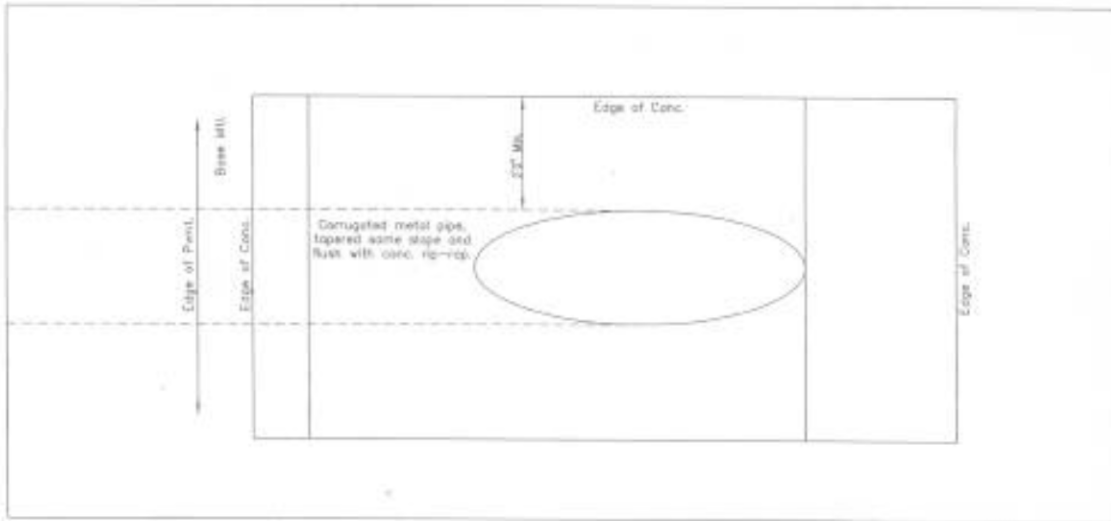
Road/Street signs shall have white letters on green background for county roads and red background for private roads.

Any signage before approval of these rules are grandfathered.

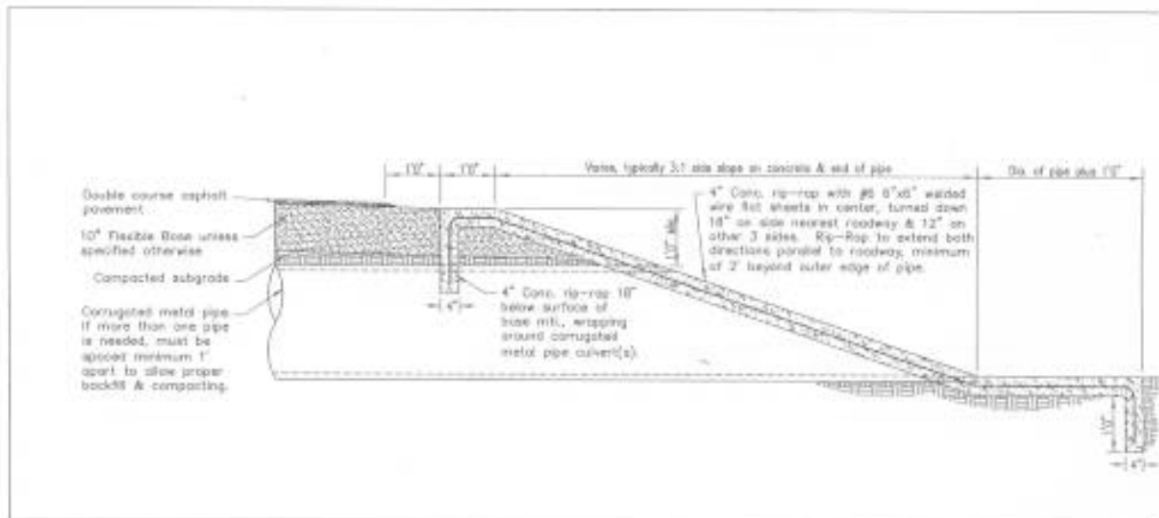
Unacceptable Items:

The following are not acceptable:

- 1) Unusual angles in roadways. Should sharp angles be necessary, “cutbacks” must be provided to enable proper turn. In addition, will be provided at all intersections. Generally, no more than 20 feet is required to permit a smooth traffic flow.
- 2) Public parks, islands and other unused space are not permitted without express consent of Commissioners Court.
- 3) Utility lines: unless same are buried no less than 20 feet from the road centerline and at a depth of not less than 48 inches lower than the road centerline.



1 Typical Drainage Culvert - Plan View
SCALE: 1"=2'



2 Typical Drainage Culvert - Profile
SCALE: 1"=2'