

INSTRUCTIONS FOR DRIVEWAY CONSTRUCTION

1. Where the county road ditch is in unstable material, as in a swamp or boggy area, bedding for the culvert will be required. This will be noted in the Driveway Permit's *Special Provisions*.
2. Note that rivets are used in the fabrication of some corrugated metal pipe culverts. Longitudinal rivets are used to construct the individual sections, than each section is riveted together. When placing riveted culverts in a position to backfill, twist the culvert so that the longitudinal rivets are in the side of the culvert, not in the bottom or top (see rivet detail). Some culverts do not use rivets, and this step can be ignored.
3. On the culvert end will be painted an arrow marking the direction which water should flow through the culvert. Place the culvert so that the arrow on the culvert points in the direction water flows in the ditch.
4. The culvert should be placed in the center of the ditch, and fit the alignment of the ditch.
5. When backfilling the culvert, care should be taken to avoid placing rocks against the culvert. The culvert should be covered with 1.5 feet of earth, if possible, to protect it from heavy equipment. Approximately 4" of crushed gravel should be used on the top of the fill material to finish the entrance.
6. Once the culvert has been placed, backfilled, and shaped, place topsoil on the slopes. All areas disturbed, with the exception of the gravel surfaced area, shall be seeded with either pasture mix or lawn mix, whichever the owner chooses, and straw or hay cover moderately spread over the seeded areas for erosion control. **Note that the placement of rock (riprap) along the driveway side slopes is not allowed.** Rock may be necessary to prevent erosion of the outlet in the bottom of the ditch in special areas.
7. The Public Works Department will not allow entrances closer than 300' center to center on 55 mph roads for safety reasons unless separate property ownership dictates, and in such cases special construction details will be required.
8. The Pubic Works Department requires a sight distance of 600' in each direction from the driveway for safety reasons.

CULVERT MATERIAL

Galvanized corrugated metal pipe is the only acceptable material for driveway culverts located in the road right-of-way.

Plastic pipe and concrete pipe are *not approved* for use on County and County State Aid roads in Mille Lacs County.

Used pipe must be in excellent condition with no holes, rust or bends. They must be inspected and approved prior to installation.