

## **GENERAL REQUIREMENTS FOR CONCRETE SIDEWALK, DRIVEWAYS, ETC.**

Summary of standards and requirements that generally apply to construction/replacement of concrete slabs/surfaces

Contact: Building Official, Steve Maciag, (734) 429-8296 ext: 2223 for specific project applications

**General Specifications:** The contractor shall excavate grass and unsuitable soil, place and compact granular base material, form, pour, and finish 4-inch, 6-inch, or 8-inch thick concrete slabs in accordance with the details and measurements shown on the layout plan, and as directed by the City Engineer. The contractor shall perform all required site preparation work. The contractor shall properly dispose of earth, grass, tree roots, and old concrete removed. Contractor shall leave the work sites in a neat and orderly condition with smooth grades and restore disturbed landscaping.

### **Installation Specifications:**

- Contact **MISS DIG** 1-800-482-7171 to locate underground utilities
- Excavate 8 inches or more below grade to stable soil and remove tree roots under concrete
- Place Class II granular base material or crushed stone and compact to 4-inch minimum thickness, 95% compaction
- Install forms that will be inspected by city staff as to line and grade prior to pouring concrete
- Pour non-reinforced or reinforced concrete as approved by the city
- Sidewalk slabs shall be 4 inches thick and 6 inches where crossing residential driveways. Sidewalks crossing commercial or industrial driveways shall be 6 to 8 inches in thickness, depending on use
- Drive approach concrete shall be 6 inches thick for residential and 6 inch reinforced or 8 inch non reinforced thick for commercial or industrial drive approached depending on use
- Driveway slabs on the lot beyond the sidewalk shall be not less than 4 inches thick for residential
- Poured concrete transit mix shall be air-entrained, 6-sack, 3500-psi design strength
- All concrete dimensions shall be shown on a layout plan or match existing dimensions
- Walks shall be installed with a 2% grade to facilitate drainage. Slope shall be towards the street or with the slope of the land as approved by the city. Small repairs shall match slope on adjacent sidewalk sections
- Concrete surfaces shall be tool-floated to produce a smooth surface free from irregularities. All edges shall be rounded to a ¼ inch radius. Surfaces shall be graded perpendicular to the direction of travel. After texturing, the pavement surface shall be coated and sealed with a uniform layer of curing compound.
- ½ inch expansion joint material shall be placed at maximum 50 foot intervals and where adjoining existing concrete or rigid structures. Expansion joint filler shall extend the full depth of the joint with the top slightly below the finished surface. Plane of weakness joint shall be cut to a depth at least ¼ the thickness of the sidewalk and a width of 1/8 to ¼ inch
- Sidewalk slabs shall be trowel-jointed or saw-cut to create square units and driveway/approach slabs not to exceed: 36 square feet for 4 inch thick slabs; 64 square feet for 6 inch thick slabs; 144 square feet for 8 inch thick slabs. Avoid narrow or pointed pieces of concrete formed by joints
- Protect all work from rain, freezing, cold and vandalism until fully cured (usually 7 days). Contractor shall repair or replace damaged work at his expense, upon request to the City

### **Construction References and Requirements:**

- Saline Code Sec. 74-65 to 74-157 and Saline Details
- Michigan Department of Transportation Standards and Details, including MDOT ADA Ramp provisions, apply as determined by the City Engineer/DPW Director
- Some projects may require design plans by a civil engineer and plan review by the City Engineer/DPW Director
- Michigan Barrier-Free Standards, including ANSI ADA Requirements

### **Building Department Forms Utilized:**

- Application for Zoning Compliance Permit – Miscellaneous Improvements

### **Other Permits:**

- Construction and/or replacement of a concrete slabs may require a Soil Erosion and Sedimentation Control permit or waiver form the Washtenaw County Office of Water Resources; call (734) 222-3978
- Properties in condominium associations require furnishing of an approval letter from the homeowners association board for the concrete slab project