

Such protection shall remain in place during the period of not less than five (5) days. Neither salt nor chemical admixtures shall be added to the concrete to prevent freezing. The Contractor shall be responsible for the quality and strength of concrete under cold weather conditions, and all concrete damaged by freezing shall be removed and replaced by the Contractor at his own expense.

- 1.6. **Finishing:** Concrete sidewalks shall be finished to a true, even surface. They shall be troweled and finished with a light broom transverse to the direction of traffic. Where adjacent sidewalks differ from this standard, new sidewalks shall conform to adjacent sidewalks, i.e., exposed aggregate. Joints and all edges shall be finished to a one-quarter ($\frac{1}{4}$) inch radius with suitable edging tools.
- 1.7. **Joints:** Expansion joints for sidewalks shall be formed using expansion joint material of an approved type and shaped to the section. Expansion joints shall be placed in sidewalks at 40-foot intervals, and to match street expansion joints when possible. Expansion joints shall also be placed at all driveways, curbs, foundations, other sidewalks, and other adjacent concrete work. Similar material shall be placed around all obstructions protruding into or through sidewalks. All expansion joints shall be $\frac{1}{2}$ inch in thickness. Sidewalks shall be jointed with a $\frac{1}{4}$ " radius trowel at intervals equal to the width of the sidewalk. Any expansion material extending above the finished work shall be neatly trimmed to the surface of the finished work. All gaps between expansion material and curb, walks, or objects protruding through sidewalk, shall be sealed with a sealer approved by the Street Superintendent.
- 1.8. **Curing:** After finishing operations are complete, the concrete surfaces shall be sprayed with curing compound. The surface of the concrete shall be kept thoroughly damp between the completion of the finishing operations, and the application of the curing compound. The curing compound shall be applied under pressure, by means of a spray nozzle, at a rate not to exceed 200 square feet per gallon. A minimum of 72 hours curing time shall be required. Should the Contractor elect to remove the forms before the minimum curing time has elapsed, he shall apply curing compound to the newly exposed vertical faces. Forms shall remain in place at least 24 hours after completion of the concrete placement.
- 1.9. **Testing:** Standard 6" X 12" test cylinders shall be used. Three cylinders will be made as per applicable A.S.T.M. specifications for each 24 cubic yards poured. One (1) will be broken in 7 days and the other two in 28 days. No extra compensation will be paid the Contractor for materials and labor involved in fulfilling these requirements. A City approved lab shall conduct all testing.