

# City of Escanaba Sidewalk Construction

## GENERAL INFORMATION

The Contractor will be responsible for damage to any existing walks and will be required to replace any walks damaged due to his construction. Sidewalk squares must be replaced on a full square. Patching or cutting of squares will not be permitted.

The Contractor will be responsible for damage to any utility service. Curb boxes or other utility fixtures lying within the sidewalk shall be adjusted to finished sidewalk grade and be protected during the construction.

In areas where tree roots are present, the roots shall be cut and removed from the sidewalk area. Roots shall be cut at least 4" to 6" each side of the sidewalk alignment. Cost of root removal shall be incidental to the construction costs.

Either fixed-forms or slip-forms may be used. Forms shall be straight and free from warp and of sufficient strength to resist springing during the process of depositing concrete against them. The forms shall be the full depth of the concrete with a minimum length of 8 feet.

Fixed forms shall be firmly staked to the required line and grade. A string line shall be used to control line and grade when necessary.

After the concrete has gained sufficient strength, the fixed forms, if used, shall be removed and the spaces on both sides shall be backfilled with sound earth. The backfill shall be compacted and leveled to a grade one inch below the surface of the walk if possible and left in a neat, workmanlike condition.

All areas disturbed shall be cleaned up at the same time as forms are removed.

## SPECIFICATIONS

All concrete shall be six-bag mix using air entrained cement and crushed aggregate. Minimum 3500 psi 28 day strength. Delivery slips shall be available indicating the mix being delivered to the job site. The City reserves the right to conduct any testing it desires and reject any work not in conformance with these standards.

All regular walks shall be 4 inches thick, except at driveways where sidewalks shall be 6 inches across approaches.

Dummy joints shall be spaced every five feet and shall be 3/4 inches to 1 inch deep.

Expansion joints of 1/2 inch felt shall be placed every 50 feet at the intersection of crosswalks, adjacent to concrete driveways or at any locations otherwise instructed by the engineer.

## FINISHING

A straight edge shall be used to strike off across the forms to obtain a true surface. The concrete shall be worked to a smooth finish with proper finishing tools. The final surface shall be lightly broomed to obtain a slightly rough finish. All edges of each square shall be finished with an edger of 1/4 inch radius or less.

## PROTECTION

The Contractor shall be responsible to provide adequate protection to assure no damage will occur to the setting of the concrete. All barricades, lights, weather protection and curing equipment or supplies must be available and furnished by the Contractor. Finished surfaces must be kept wet or covered with a curing compound for at least three (3) days. Any sidewalk damaged by improper protection against weather condition or marked up prior to initial set may be cause for rejection of payment and will be replaced at the Contractor's expense.

## INSPECTION

Prior to placing any concrete, the Contractor shall have all locations approved as to line, grade and depth.

**NOTE:** Deicing chemicals used for snow and ice removal can cause surface scaling on new concrete. The City Engineer recommends not using deicing chemicals for at least one (1) year.