



City of Dania Beach

DETAIL SPECIFICATIONS FOR CONSTRUCTION OF SIDEWALKS, SWALE AND SWALE PAVING

SIDEWALKS

*Does NOT Apply to Public Right-of-Way Covered under a Right-of-Way Permit.

Dimensions of Sidewalk:

The sidewalk shall be constructed in accordance with the following dimensions:

- (a) Width Width of sidewalk shall be 5'0".
- (b) Slope The sidewalk shall slope from property line toward street at a rate of $\frac{1}{4}$ " per foot.
- (c) Thickness The sidewalk shall be constructed 4" thick except where driveways are located. Thickness of sidewalk at driveways shall be 6" and shall be reinforced with 6" x 6" #10 mesh.
- (d) Panel Length Panel lengths shall not exceed 5'0".

Line and Grade:

All rear sidewalk lines shall be at the right of way (property) line. Elevation of the rear edge of the sidewalk shall be crown of road grade plus one-tenth of a foot.

Joints:

A. Panels and Joint: Joints shall be formed by forms removed after finishing, stricken joints, or by cutting slab not less than one-third of the full depth. All edges shall be rounded to a $\frac{1}{2}$ " radius.

B. Expansion Joint: Joints shall be $\frac{1}{2}$ " premolded mastic type not more than 20'0" on center. Joint material shall be securely held in place during pouring of concrete. After concrete has been finished over the joint, it shall be edged with a tool having a $\frac{1}{2}$ " radius. Expansion joints of $\frac{1}{2}$ " premolded mastic shall be constructed where concrete is placed adjacent to existing curb, concrete driveways, buildings, walkways and as shown on the Plans. Premolded mastic filler shall extend the full width of the slab and to within one inch of the top of the slab.

C. Sidewalk must be installed separately from driveways. Forms must be installed so that the sidewalks will be separate pours continual through the driveway.

Forms:

Forms shall be made of wood or metal and shall be straight and free from warp or bends. They shall be of sufficient length, when staked, to resist the pressure of the concrete without springing. If of wood, they shall be of two inch material. If of metal, they shall be of approved section and shall have a flat surface on top. Forms shall have a depth equal to the dimensions for the depths of concrete being deposited against them.

Subgrade:

Excavation shall be made to required depth, and subgrade or base upon which sidewalk is to be constructed shall be compacted to a firm, even surface.

When fill is required for the subgrade, it shall be thoroughly compacted. Fill shall be deposited on the subgrade in layers not exceeding 6". All fill shall be water compacted by puddling. Where sidewalk is constructed on fill, additional fill shall be placed on each side of the sidewalk to protect the subgrade. All such fill shall be graded at a 1 to 2 slope to grade.

All excess excavation not required for fill shall be removed and disposed of by Contractor.

The subgrade shall be moistened prior to placing concrete, but shall not be muddy or excessively wet.

Concrete:

A. All concrete shall develop a strength of not less than 3,000 psi at 28 days. Maximum water-cement ratio shall be six gallons per sack. Maximum slump shall be four inches. Strength of concrete shall be checked during construction by testing not less than four cylinders for each 150 cubic yards of concrete placed. Tests of concrete cylinders shall be performed by an approved laboratory in accordance with A.S.T.M. specifications and results forwarded to the Building Department. All such tests shall be performed at the expense of the Contractor.

B. Placing - Concrete shall be placed in the forms to the required depth without segregation. Contact with forms shall be insured by spading or vibrating.

C. Finishing - All surplus water, laitance or inert material shall be worked off the surface of the concrete with a six foot straight edge. The concrete shall be given a wood float finish and broomed before initial set. The surface shall show no variation more than 1/4" under a 10 foot straight edge.

D. Form Removal - Form removal shall be carefully done without damage to concrete and not before 12 hours after placing of concrete. Holes, voids, or honeycomb shall be filled with mortar and floated smooth. Expansion joints shall be cut free of concrete. Edges shall be protected by earth berm.

E. Curing - Traffic shall not be permitted on the finished sidewalk for seven days after placing of concrete. It shall be the Contractor's responsibility to protect the finished surface. Opening of sidewalk to traffic shall not constitute final acceptance of the sidewalk.

Connection of Sidewalk to Existing Driveways and Walkways:

The Contractor shall replace those portions of driveways and walkways damaged by construction of sidewalk, in such a manner as to present a neat, finished, and continuous appearance. Driveways and walkways which will be disturbed to such an extent that they will not match the sidewalk, or otherwise be broken or damaged, shall be rebuilt so that the slope at entrance shall not exceed two inches per foot.

Property Damage:

Any private property such as survey stakes, fences, etc., disturbed or damaged by the Contractor shall immediately be replaced. Any trees or shrubs partly or wholly in the right-of-way shall be relocated.

Safeguards:

The Contractor shall provide, erect, and maintain adequate barricades, warning lights, and signs at all excavations, closures, detours, points of danger, and completed pavements.

DRIVEWAY

Driveway apron in the swale, and swale, to be 6" below crown of road. Swale to be sodded.

Driveway apron to have 5' radius at each side where it connects to the edge of the paving.

Asphalt and swale 6" compacted lime rock with 1" asphalt topping.

Alternate materials (concrete, pavers, etc.) must be accompanied by a Swale Affidavit.

