



## **Sidewalk and Bike Path Construction Standards and Specifications**

### **General Provisions for Sidewalks and Bike Paths**

All sidewalks and bike paths within the corporate limits or under the jurisdiction of the Village of Tinley Park shall be constructed in accordance with the provisions listed below and extend to the serve each parcel within the development. All subdivisions shall include sidewalks and/or bike paths that provide access to the development.

The design of all sidewalks shall meet the following criteria:

- Current Federal and State Codes and Regulations
- Latest editions of the "Standard Specifications for Road and Bridge Construction", Recurring Local Roads and Streets Special Provisions
- The Supplemental Specification and Recurring Special Provisions
- IDOT BDE Special Provisions
- Village of Tinley Park Subdivision and Development Regulations
- Village of Tinley Park Design Standards and Village Code of Ordinances.

In addition, the following specifications and standards shall apply.

### **Submittal Requirements**

All required submittal requirements entail:

- Plats
- Permits
- Easement Requests
- Licensing Agreements
- Other Agencies (IDOT, County, MWRD, Railroad, etc...)

All of these finalized, signed and approved items must be submitted to the Village Engineer to allow for review within two (2) weeks of construction. Any initial review requirements by the Village Engineer shall be submitted during the preliminary stages of the project allowing sufficient time for comments, revisions and final approval.

### **Coordination and Staging**

All sidewalk and bike path work by a Contractor shall be approved by the Village Board then coordinated with the State, County and/or Railroad along with the Village Engineer and Public Works Director, as required. Owner/Contractor is responsible for maintenance of improvements for one (1) year following acceptance by the Village.

Constructor shall maintain roadway and pedestrian access at all times. Temporary sidewalk and bike path closures as well as interruption of access to residents and businesses shall be of short duration with a minimum of forty-eight (48) hour notice to the Streets Department and Village Engineer or Public Works Director.

Prior to pouring any public sidewalk, the Public Works Department shall be notified twenty-four (24) hours in advance. After removal of forms, backfill sidewalk, schedule re-inspection through the Building Department and barricade to prohibit use until concrete cures. Contractor is responsible for any damage prior to complete cure time.

An Erosion Control Plan shall be submitted.

### **Hot-Mix Asphalt (HMA) and Portland Cement Concrete (PCC) Pavements**

The Geometric and Structural Design have been determined for each Street Classification in the Village. Any modifications to the minimum pavement thicknesses provided shall include a modified Pavement Structural Design meeting the IDOT Pavement Design Procedure.

➤ **Residential Sidewalks**

Aggregate Base Course, Type A    4" CA-6  
Portland Cement Concrete        5"  
Pavement Width:                    5'

➤ **Commercial and Industrial Sidewalks**

Aggregate Base Course, Type A    4" CA-6  
Portland Cement Concrete        5"  
Pavement Width:                    6'

➤ **Residential Bike and Multi-Use Paths**

Aggregate Base Course, Type B    6" CA-6  
HMA Surface Course, Mix "D", N50 3"  
Pavement Width:                    8'

➤ **Commercial and Industrial Bike Path and Multi-Use Paths**

Aggregate Base Course, Type B    6" CA-6  
HMA Surface Course, Mix "D", N50 3"  
Pavement Width:                    10'

### **Concrete Specifications**

- Minimum Compressive Strength: 3500 psi at fourteen (14) days
- Maximum Slump: Four (4") inches
- Maximum Water Content: Six (6) gallons per bag of cement, including water in stone
- Usage: IDOT Class PV, SI
- All sidewalk constructed in public right of way shall be cured using a white pigmented, liquid membrane-forming compound. Liquid forming compounds shall be applied within three (3) hours of pour, but not between November and April 15<sup>th</sup>.
- Accelerators shall be approved by the Village Engineer prior to usage.

## **Pavement Construction Criteria**

- Sidewalks shall be constructed in all Residential and Commercial Subdivisions and developments in accordance with the most recent Village Ordinances and Standard Details.
- All base courses shall be laid on a stabilized subgrade as per Section 301 of the latest edition of IDOT SSRBC and approved by the Village Engineer.
- Before any paving work is commenced, all grading shall be properly completed as shown in the plans and confirmed by the Village Engineer.
- Grades shall conform in general to the terrain and shall not be less than 0.4% or more than 5%.
- Sidewalks shall be a minimum thickness of five (5") inches. For areas under the jurisdiction of Cook County DOT, Will County DOT, IDOT, etc., that agency's thickness requirements shall be followed unless the Village's requirements are more restrictive.
- Sidewalks shall be a minimum of five (5') feet wide in Residential Districts and six (6') feet wide in Commercial and Industrial Districts.
- Bike paths shall be not less than fifteen (15') feet wide, without approval of the Village Board.
- All sidewalks at intersection and cross walks shall be ADA compliant and include detectable warning plates specified on Sidewalk Ramp Detail.
- Sidewalks shall be located in the right of way one (1') foot from the abutting property line. Sidewalks located along right of ways that are under jurisdiction of another agency shall be constructed according to the agency's requirements, unless the Village requirements are more restrictive.
- When constructed over water and sewer excavations, a minimum of ten (10') feet of rebar shall be used in the sidewalk for reinforcement to protect from future sidewalk settlement.
- The edge of all sidewalks and bike/multi-use paths shall be a minimum of two (2') feet for all elevated, existing or proposed structures (i.e. street light pole, fire hydrant, tree, etc..) except traffic signal and pedestrian signal poles in which it can abut and allow pedestrians to reach the push button while located on the sidewalk or path.
- All underground utility work (water main, sewer, gas mains, electric, house services, etc...) shall be backfilled, settled and compacted prior to the placement of the aggregate base course.
- Any Portland Cement Concrete or HMA Surface proposed to be constructed after November 1<sup>st</sup> shall have written approval from the Village Engineer.