



# Park Township

52 152<sup>nd</sup> Avenue  
Holland, MI 49424  
(616) 738-4244



## Bike Path Supplemental

Supplemental to be submitted to the Building Department with a Zoning Permit Application

1. Responsible party/contractor for purposed work:

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone number: \_\_\_\_\_ Email: \_\_\_\_\_

2. Owner information:

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone number: \_\_\_\_\_ Email: \_\_\_\_\_

3. Job/Project address:

Address: \_\_\_\_\_

4. Estimated start and completion dates:

\*Additional plans required for projects that will take longer than 72 hours. See section A.5 of attachment A.  
Start Date: \_\_\_\_\_ Completion Date: \_\_\_\_\_

5. Description of Purposed Work:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. Proposed Bituminous Mix Contractor or Sub Contractor:

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone number: \_\_\_\_\_ Email: \_\_\_\_\_

7. Bond Deposit amount: ( to be determined by staff)

Amount: \$ \_\_\_\_\_

I acknowledge that Park Township has provided me a copy of the Bile Path Restoration Requirements. I agree to make the necessary improvements to keep the pathways open at all times and to keep the pathway safe and free from dirt and any other debris caused by my activity. I also agree to make the necessary repairs to restore the pedestrian pathway to the specifications contained in this ordinance and its restoration requirements to the fullest extent possible.

Signature of Responsible Party: \_\_\_\_\_

Date

Signature of Owner: \_\_\_\_\_

## How to Calculate Bond, letter of credit or cash deposit covering the required Restoration Work

- The permittee, responsible party or owner shall post a bond, letter of credit or cash deposit, as determined by Park Township prior to performing any work as a performance guarantee.
- The amount of the guarantee shall calculate as follows: Multiply \$20 by the lineal footage of the required repair area, as measured parallel to the pathway.
- The performance guarantee may be held by the Township for a period of one year. The township will perform a one-year maintenance inspection of the repair site (s). Should in the opinion of the township, any repaired area to be determined to be defective or otherwise unacceptable and require replacement, the permittee shall have the replacement work completed within three (3) weeks of the written notification by the township. Should the permittee fail to replace the defective work, the Township may utilize the performance guarantee amount: permittee shall reimburse the Township the difference in cost.

## ***Attachment A***

### **A. Submittals**

The following information must be submitted to the Township prior to performing any work which may cause damage to or requires the removal of any portion of a paved pathway or surrounding landscaping.

1. A drawing indicating the location and nature of the proposed work.
2. The start and completion dates for the proposed work.
3. Name, telephone, and fax number of the person responsible for the work.
4. A bond, letter of credit, or cash deposit covering the restoration work required.
5. For projects that will take longer than 3 business days to completely restore the path the applicant must also specify how the path will remain safe, usable and in working order during the duration of the construction activity. This plan shall include the signage plan for informing pedestrians about the project and warning them of the disturbance as well as a daily restoration plan to ensure that at the end of the construction day that the path will be free from dirt and debris.

### **B. Reconstruction**

The disturbed path must be restored within 3 business days of the initial disturbance unless a longer time is approved by the Township Manager. For an extension of the 3 days the Township shall take into consideration the following:

1. The scale of the project.
2. How the path is intended to remain open.
3. What materials are being used for any temporary path.
4. The public interest in providing a longer time to restore the path

The Township may also require other reasonable means of ensuring that the path remain safe, usable and in working order during the entire project. These items will also need to be made a part of the reconstruction plan.

If the required work is not performed within the specified time period, the Township may contract this work with an agent of its choosing. The cost for said repair work and administration shall be the responsibility of the entity responsible for the original disturbance.

### **C. General**

Damaged sections of the bike path or sidewalk must be completely removed full width of the surface. Patching will not be allowed. Existing surface shall be sawcut perpendicular to the path.

All work that will take place within 15 feet or within the zone of influence of a 1 on 3 slope to any pathway structure, including retaining walls and boardwalks may be subject to greater review, including additional information regarding protection of these structures and restoration around and to these structures.

#### **D. Hot Mix Asphalt (HMA) Bike Path Replacement**

1. Subbase In-situ materials may be reused as subbase provided it meets specification for MDOT Class III embankment. If not, it shall be removed and replaced with six (6") inch MDOT Class II material, compacted in place. The subbase shall be compacted to ninety-five (95%) percent maximum unit weight in accordance with MDOT procedures. Where fill sand is required it shall be compacted to achieve ninety-five (95%) percent maximum unit weight in accordance with MDOT procedures.
2. Aggregate The aggregate base shall be ten (10') feet wide (or two (2') feet wider than HMA surface) and consist of six (6) inches of compacted MDOT 22A crushed concrete or gravel in accordance with the sample cross section. Density of the gravel shall be ninety-five (95%) percent.
3. Hot Mix Asphalt (HMA) Surface  
The HMA surface shall consist of 120 lbs/s.y. MDOT 36A HMA (top) over 165 lbs/s.y. of MDOT 13A HMA (level) placed in accordance with the section as indicated on the sample cross section. The asphalt performance grade shall be 58-28. The HMA shall be placed with a self-propelled paver; spreader boxes will not be permitted. A bond coat shall be applied between successive courses of hot mix asphalt at an application rate of 0.1 gal/s.y.

#### **E. Concrete Sidewalk Replacement**

Concrete sidewalk shall conform to current MDOT Standard Specifications for Construction Section 803, "Concrete Sidewalks, Sidewalk Ramps and Steps".

##### **1. Subbase**

In-situ materials may be reused as subbase provided it meets specification for MDOT Class III embankment. If not, it shall be removed and replaced with four (4") inch MDOT Class II material, compacted in place. The subbase shall be compacted to ninety-five (95%) percent maximum unit weight in accordance with MDOT procedures. Where fill sand is required it shall be compacted to achieve ninety-five (95%) percent maximum unit weight in accordance with MDOT procedures.

##### **2. Concrete**

Concrete shall meet the requirements for Grade P1 Concrete or Grade S2 Concrete as specified in the current MDOT Standard Specifications for Construction Section 601, "Portland Cement Concrete Pavements". Concrete shall be six sack limestone mix and shall be air-entrained and shall have a compressive strength of not less than 3,500 pounds per square inch, within twenty-eight (28) days of paving. Other materials shall meet the requirements of the applicable portions of the current MDOT Standard Specifications for Construction. All concrete sidewalks shall be paved with a single course of concrete. Sidewalks through driveways shall be six (6") inches thick. All other walks shall be four (4") inches thick.

##### **3. Joints**

Full depth transverse expansion joints shall be constructed perpendicular to the surface of the sidewalk at intervals not to exceed fifty (50') feet. Expansion joint material shall be one-half (1/2") inch pre-molded expansion joints and shall be set one-quarter (1/4") inch below the surface of the sidewalk. Sealing of joints will not be required.

One (1") inch pre-molded expansion joints must be placed between the sidewalk and back of-curb when sidewalk is constructed between the curb and building or other rigid structures. Sealing of joints will not be required.

Transverse plane of weakness joints shall be true to line and grade, and shall be placed at four (4') foot intervals and shall be formed with a grooving tool. Planes of weakness joints shall be constructed to a depth of at least one (1") inch and a width of one-eighth (1/8") inch to one-quarter (1/4") inch. Sealing of joints will not be required.

#### **4. Surface**

The surface of the concrete shall be floated to a level uniform surface and left with a slightly rounded surface. The surface shall be roughened with mechanic's brush to prevent smooth and slippery surfaces. No surface shall be troweled to a glassy finish. Edges at the forms and joints shall be rounded with an edging tool.

### **F. Surface Restoration**

After construction is complete all disturbed lawn areas, including adjacent cut and fill areas as required to blend into the existing yards, shall be repaired using a maximum of 1 on 4 backslope, four (4") inches of topsoil, MDOT Class A seed, fertilizer and mulch.

Seed shall be distributed at a minimum of one (1) pound per four-hundred (400) square foot. Fertilizer shall be 4-1-2 and distributed at a minimum of two point four (2.4) pounds per four hundred (400) square foot.

Where existing slopes are greater than 1 on 4, straw blanket NAG S75 or equal shall be used according to manufacturer's recommendations to stabilize the restored surface until the grass is established.

In lieu of hydroseed, fertilizer and mulch; sod may be used.

### **G. Inspection**

The Permittee shall notify the Township of any completed restoration work within 5 working days of completing the work and submit the required material and testing certifications. The Township shall inspect the work and will notify the permittee within 10 working days, after receipt of the required submittals, as to the acceptability of the completed work.

### **H. Guarantee**

The permittee shall post a letter of credit or cash deposit, as determined by the township, prior to performing any work as a performance guarantee. The guarantee amount shall be calculated as follows: Multiply \$20 by the lineal footage of the required repair area, as measured parallel with the pathway.

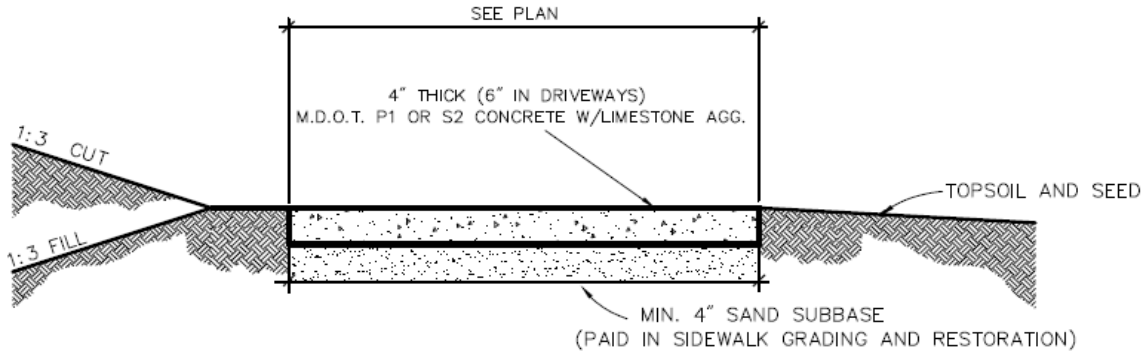
The performance guarantee may be held by the Township for a period of one year. The Township will perform a one-year maintenance inspection of the repaired site(s). Should, in the opinion of the Township, any repaired area be determined to be defective or otherwise unacceptable and require replacement, the permittee shall have the replacement work completed within 3 weeks of written notification by the Township. Should the permittee fail to replace the defective work, the Township may utilize the performance guarantee to have the work completed. Should the cost for such work total more than the guarantee amount, permittee shall reimburse the Township the difference in cost.

### **I. Enforcement**

Should the Township determine that pathway disruption has occurred by other than the permitted activity or that disruption has occurred without a permit, the Township may require a \$1,000 cash performance bond for any subsequent pathways permits requested by an applicant.

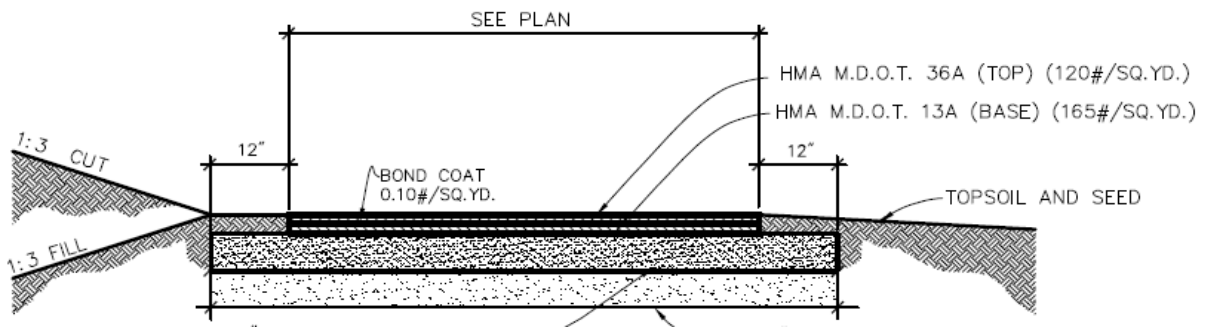
# Attachment B

## Park Township Bike Path and Sidewalk Cross Section Details



### CONCRETE SIDEWALK DETAIL

NO SCALE



### HMA Bike Path Detail

No scale

### HMA BIKE PATH AND SIDEWALK DETAIL