

Downtown Knoxville Design Overlay District Certificate of Appropriateness

Name of Applicant: GEORGE DAWS / CITY OF KNOXVILLE CIVIL ENGINEERING

Owner Contractor Architect Engineer Other _____

Date Filed: _____ Application accepted by: _____

Fee Amount: _____ Review Date: 4/16/08 File Number: _____

PRE-APPLICATION CONFERENCE		Date Completed:
<p style="text-align: center;">PROPERTY INFORMATION</p> <p>Building or Project Name: <u>DOWNTOWN CROSSWALK REPLACEMENT</u></p> <p>Street Address: <u>MAIN ST, SUMMIT HILL DR</u></p> <p>Tax Identification Number(s): _____</p>	<p style="text-align: center;">PROJECT ARCHITECT/ENGINEER</p> <p>PLEASE PRINT Name: <u>GEORGE DAWS</u></p> <p>Company: <u>CITY OF KNOXVILLE</u></p> <p>Address: <u>1400 LORAIN ST</u></p> <p>City: <u>KNOXVILLE</u> State: <u>TN</u> Zip: <u>37921</u></p> <p>Telephone: <u>865-215-6121</u></p> <p>Fax: <u>865-215-6109</u></p> <p>E-mail: <u>gdaws@cityofknoxville.org</u></p>	
<p style="text-align: center;">PROPERTY OWNER</p> <p>PLEASE PRINT Name: <u>CITY OF KNOXVILLE</u></p> <p>Company: <u>CITY OF KNOXVILLE</u></p> <p>Address: <u>400 MAIN ST</u></p> <p>City: <u>KNOXVILLE</u> State: <u>TN</u> Zip: <u>37902</u></p> <p>Telephone: <u>865-215-2000</u></p> <p>Fax: _____</p> <p>E-mail: _____</p>	<p style="text-align: center;">PROJECT CONTRACTOR</p> <p>PLEASE PRINT Name: <u>TO BE DETERMINED</u></p> <p>Company: _____</p> <p>Address: _____</p> <p>City: _____ State: _____ Zip: _____</p> <p>Telephone: _____</p> <p>Fax: _____</p> <p>E-mail: _____</p>	
ACCOMPANYING MATERIALS		
<p>Please see the reverse side of this form for a list of information required as part of this application.</p>		
FOR OFFICE USE ONLY		
<p style="text-align: center;">PROJECT INFORMATION</p> <p>LEVEL 1: \$30</p> <p><input type="checkbox"/> Minor Alteration of an Existing Building/Structure</p> <p><input type="checkbox"/> Sign</p> <p>LEVEL 2: \$70</p> <p><input type="checkbox"/> Major Alteration of an Existing Building/Structure</p> <p><input type="checkbox"/> Addition to an Existing Building/Structure</p> <p>LEVEL 3: \$100</p> <p><input type="checkbox"/> Construction of New Building/Structure</p>	<p style="text-align: center;">PROJECT CONTACT</p> <p>All application-related correspondence should be directed to:</p> <p>PLEASE PRINT Name: <u>GEORGE DAWS</u></p> <p>Company: <u>CITY OF KNOXVILLE</u></p> <p>Address: <u>1400 LORAIN ST</u></p> <p>City: <u>KNOXVILLE</u> State: <u>TN</u> Zip: <u>37921</u></p> <p>Telephone: <u>865-215-6121</u></p> <p>Fax: <u>865-215-6109</u></p> <p>E-mail: <u>gdawse@cityofknoxville.org</u></p>	

NOTE: Payment is due at time of application. Please make check payable to Knoxville Knox County Metropolitan Planning Commission.

Downtown Crosswalk Replacement

The City of Knoxville is proposing to replace the existing brick crosswalks on Main Street in front of the City-County Building and on Summit Hill Drive in front of the Crowne Plaza Hotel. The existing brick crosswalks are difficult to maintain and have been patched in places with asphalt. In addition, we are seeing problems with the asphalt breaking up where it abuts the existing concrete. In order to prevent future problems of these types, we are proposing to replace these crosswalks with stamped asphalt.

Once the existing concrete medians are removed, this area will be paved with asphalt to match the existing thicknesses. Once the asphalt has hardened, the surface is heated before being stamped. A dye is added to the surface of the asphalt to provide the desired color. At both of these locations, colors have been selected to match the existing brick in the area. A special coating is then applied to the surface. This coating seals in the colored dye, which prevents fading due to sunlight. In addition, when this coating hardens, it protects the asphalt from chipping and wear from vehicular traffic.

Stamped asphalt allows for more flexibility in the design of the crosswalks. In regards to the previously proposed concrete crosswalks, it was suggested that the proposed crosswalks match the existing crosswalks as closely as possible. Because of the dye added to the concrete, it would be impossible to install light colored bands on the outside of the crosswalks without doing two separate concrete mixtures and pours. Due to time restrictions for lane closures on these streets, it was determined that we would pursue using a stamped asphalt in these crosswalks.

Stamped asphalt crosswalks require very little maintenance. A sealant will need to be reapplied every couple of years depending on the amount of vehicular traffic. Being that these locations are both mid-block crosswalks, they are great candidates for stamped asphalt. The majority of wear from vehicular traffic comes from turning vehicles, particularly at intersections. In the event that a portion of the stamped asphalt crosswalks needs to be replaced due to a utility cut, etc, the new asphalt surface merely needs to be heated, stamped, and dyed to match the existing crosswalk. Matching the colors used, even years from now, is easier due to the fade resistant coatings applied to the asphalt.

At the recommendation of Stephanie Cook, we are proposing a design that includes 4' wide stamped brick bands with a smooth surface in the middle. This design has a stamped brick design on the sides of the crosswalk that would help delineate the crosswalk as well as provide a smooth surface that is preferred by accessible users. Pictures of the existing crosswalks as well as the proposed layouts are included.



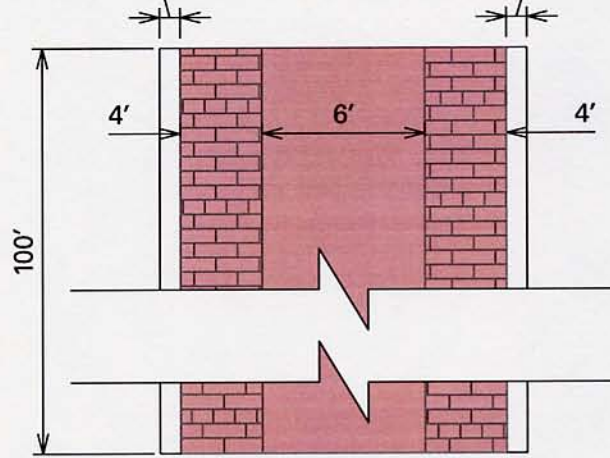
Existing Crosswalk at Summit Hill



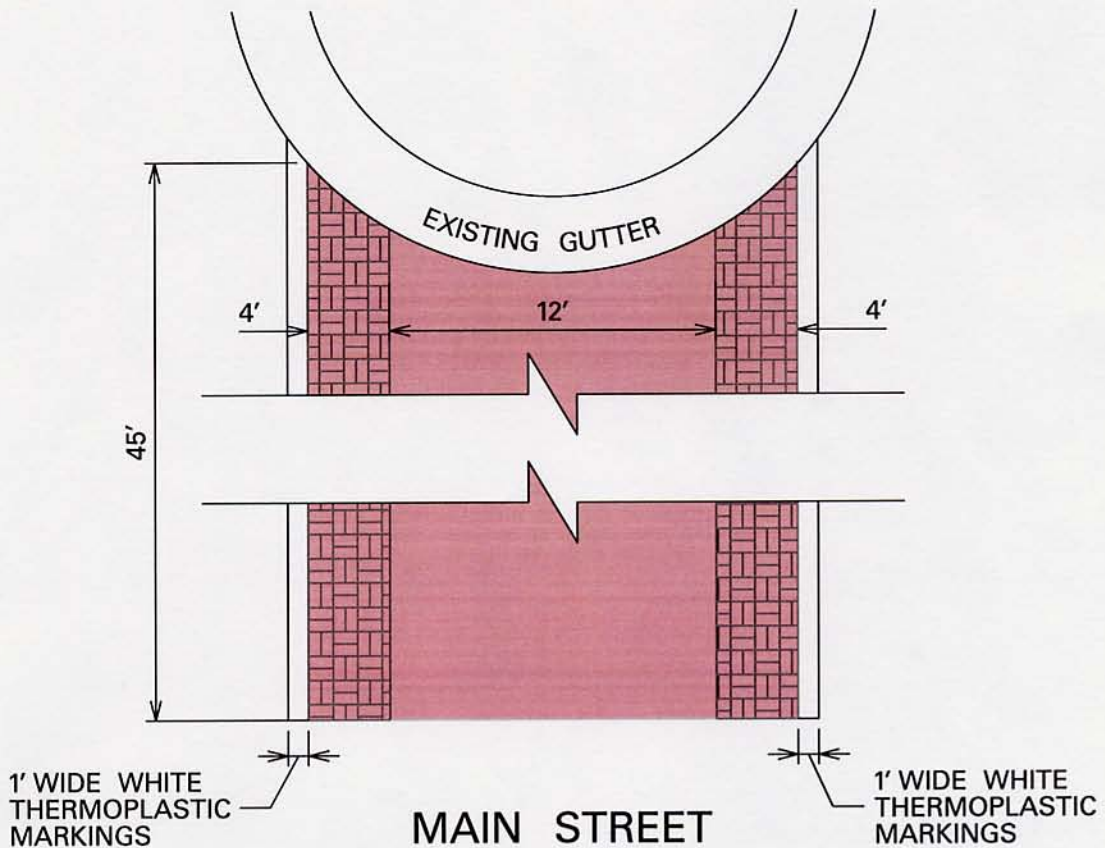
Existing Crosswalk at Main St

1' WIDE WHITE
THERMOPLASTIC
MARKINGS

1' WIDE WHITE
THERMOPLASTIC
MARKINGS



SUMMIT HILL DRIVE
STAMP PATTERN DETAIL
N.T.S.



MAIN STREET
STAMP PATTERN DETAIL
N.T.S.