
Merwin Road - Sidewalk Assessments / Design



Prepared by:

City of Raleigh Public Works Department
Design / Construction Division

Merwin Road – Sidewalk Assessments / Design



■ Project Overview

- Installation of sidewalk along the west side of Merwin Road from Swift Drive to Liles Road
 - Proposed 5' wide sidewalk with a 3.5' grass strip
 - Driveway reconstruction at 916 and 920 Merwin Road
 - Segmental concrete retaining wall at 900 Merwin Road

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■ Sidewalk Standards

- The current City standard is to provide a minimum 5' wide sidewalk inside public right-of-way. This standard has been established to meet the requirements of the Americans with Disabilities Act (ADA).
- Section 403.5.1 of the ADA Accessibility Guidelines for Buildings and Facilities (ADAAG):
 - 403.5.1 Clear Width. Except as provided in 403.5.2 and **403.5.3**, the clear width of walking surfaces shall be 36 inches minimum.
- With Section 403.5.3 stating further:
 - 403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches shall provide passing spaces at intervals of 200 feet maximum. Passing spaces shall be either: a space 60 inches minimum by 60 inches minimum; or, an intersection of two walking surfaces providing a T-shaped space complying with 304.3.2 where the base and arms of the T-shaped space extend 48 inches minimum beyond the intersection.

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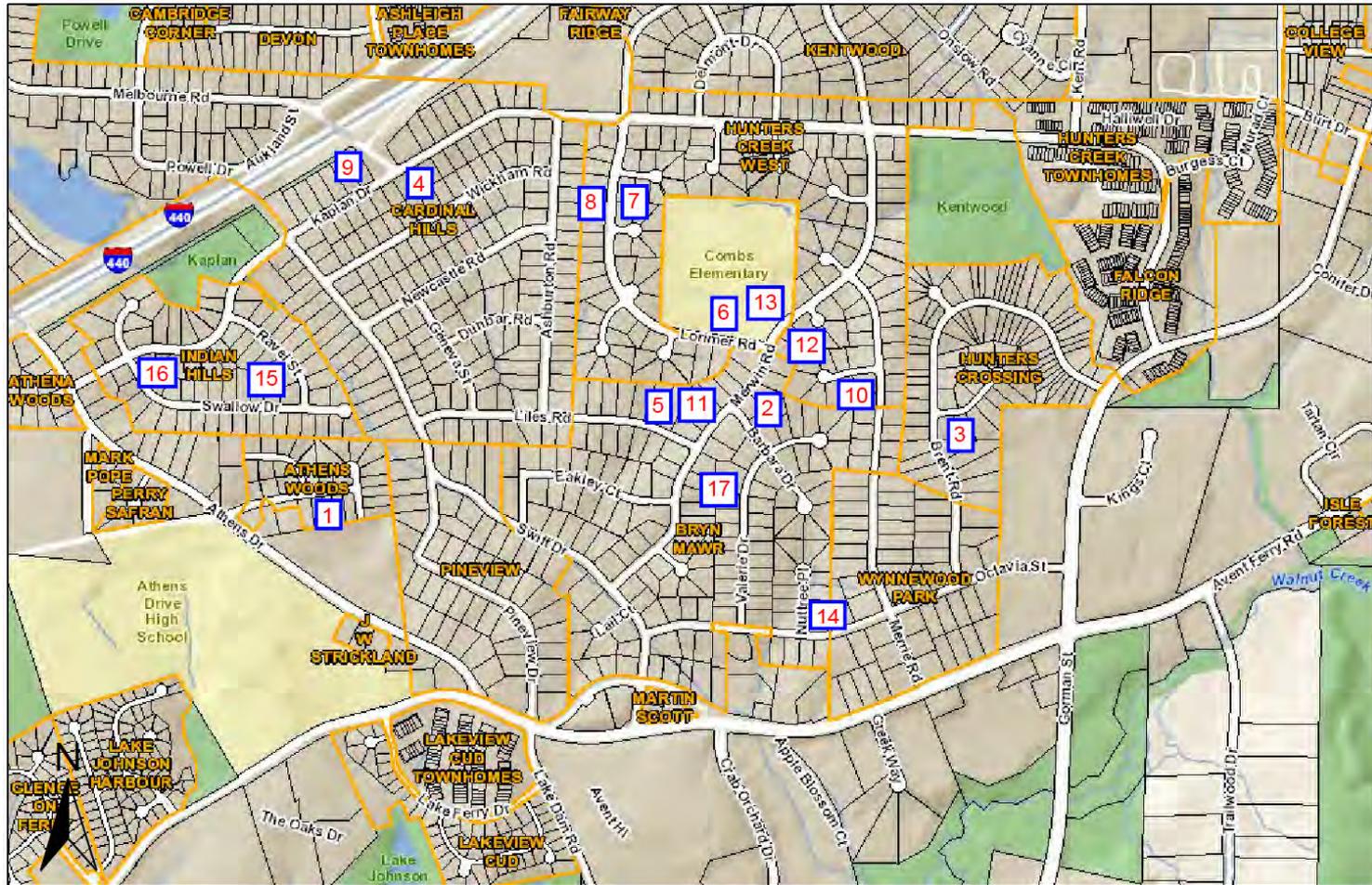
■ Sidewalk Standards continued

- Similar requirements are included in the guidelines of the following :
 - American Association of State Highway and Transportation Officials (AASHTO)
 - Institute of Transportation Engineers (ITE)
 - Federal Highway Administration (FHWA)
 - Safe Routes to School (SRTS)

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■ Sidewalk Inventory



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■ Sidewalk Inventory Summary

Index	Street with Sidewalk	Nearest Cross Street	Subdivision	Sidewalk Width (ft)	Grass Strip Width (ft)
1	Athena Woods Lane	Crete Drive	Athens Woods	5	3.5
2	Barbara Drive	Merwin Road	Bryn Mawr	5	5.5
3	Brent Road	Bearskin Court	Hunters Crossing	5	4.5
4	Kaplan Drive	Melbourne Road	Cardinal Hills	5	5.5
5	Liles Road	Merwin Road	Bryn Mawr	5	4.5
6	Lorimer Road	Merwin Road	Combs Elementary	5	4.5
7	Lorimer Road (east side)	Haddon Court	Hunters Creek West	5	4.5
8	Lorimer Road (west side)	Haddon Court	Hunters Creek West	5	4.5
9	Melbourne Road	Kaplan Drive	Cardinal Hills	5	3.8
10	Merrie Road	Hunters Creek Lane	Hunters Creek West	5	4.5
11	Merwin Road	Liles Road	Bryn Mawr	5	5.5
12	Merwin Road (east side)	Lorimer Road	Hunters Creek West	5	4.5
13	Merwin Road (west side)	Lorimer Road	Combs Elementary	5	4.5
14	Octavia Street	Nuttree Place	Bryn Mawr	5	4.5
15	Ravel Street	Swallow Drive	Indian Hills	5	4.5
16	Swallow Drive	Kaplan Drive	Indian Hills	5	4.5
17	Valerie Drive	Barbara Court	Bryn Mawr	5	5.5

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Merwin Road



Liles Road



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■ Construction

- This project was combined with the Brooks Avenue Sidewalk project and the informal bid was approved by the City Manager on 2/14/2012. The low bid is \$120,025.70.
- If the sidewalk width is reduced to 4', the only significant quantity reduction would be to the 4" Sidewalk (approximately 96 sy).
- The contractor's labor cost for installing a 4' wide sidewalk or a 5' wide sidewalk is nearly identical and since a 5' wide sidewalk was shown on the plan it is reasonable for the contractor to request an adjustment in the unit price to cover the increased labor cost per square yard to install a 4' wide sidewalk.
- The low bid contractor has provided a revised unit price of \$29.50 per square yard for the 4' wide sidewalk option (increased from \$26.50 per square yard for 5' wide sidewalk).
- Taking into account both the quantity decrease and the unit price increase, the resulting cost decrease would amount to a \$1,389 savings for the entire project (1.2% decrease).

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■ Summary

- 5' wide sidewalk is the City's standard and is required by ADA, unless other provisions are made and is also in guidelines published by AASHTO, ITE, FHWA and Safe Routes to School.
- All existing sidewalk inventoried showed 5' width sidewalk with varying width grass strips.
- A change to 4' wide sidewalk would result in a cost savings of approximately \$1,389 to the project.