Complete Streets Design Guidelines

• Provides guidance to planners, engineers, and transportation professionals on two main project aspects
  • Planning
  • Design

• Applicable to transportation and land development projects
Complete Streets Design Guidelines

- Proactive design recognizes that the way we design our streets can impact behavior of street users
  - Safety for all users as the fundamental theme
  - Guide users through physical and environmental cues
  - Manage vehicle speeds
  - Encourage walking, bicycling, and public transit use
  - Embrace the unique place characteristics around the street
Complete Streets Design Guidelines

- Intended audience
  - Local government practitioners who are performing transportation planning and/or design work for projects in urban and suburban areas of Palm Beach County
Project Elements

• Complete Streets Working Group
• Multimodal Complete Streets Typology
  • Street Framework
  • Land Use
    • (Building Form and Function)
  • Road Use
    • (Roadway Form and Function)
  • Example Streets
• Design Guidance
• Typical Sections
• MPO Advisory Committee Coordination
Multimodal Complete Streets Typology

• Street Framework
  • Suggested framework for categorizing the street network
  • Functional classification works well for automobile travel, but does little to address other modes
  • Need to promote a more nuanced and balanced understanding of each street’s role within the transportation system
Multimodal Complete Streets Typology

- Land Use (Building Form and Function)
### BUILDING FORM AND FUNCTION

**Mixed-Use (M)**

<table>
<thead>
<tr>
<th>Typology Code</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typology Name</td>
<td>Mixed-Use</td>
</tr>
</tbody>
</table>
| Characteristics | - buildings with service and commercial uses on the ground floor that serve surrounding neighborhoods  
- residential or office uses above the ground floor |
| Typical Zoning Districts* | RM, B1, B2 |
| Typical Buildings | Height is 2 or more stories and buildings typically abut the sidewalk |
| Examples | - 103rd (Longwood to Wood)  
- Damen Avenue |

*Chicago Zoning Ordinance.*
Multimodal Complete Streets Typology

- Road Use
  (Roadway Form and Function)
PBC Thoroughfare Plan
## ROADWAY FORM AND FUNCTION

**Connector (CN)**

<table>
<thead>
<tr>
<th>Typology Code</th>
<th>CN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typology Name</td>
<td>Connector</td>
</tr>
</tbody>
</table>

**Definition**
- main roads
- may have median
- connects between urban centers
- may be commercial

**Characteristics**
- Lanes: 2 to 4
- Speed\(^a\): 20-30 mph
- Blocks: 300-660 ft
- ADT: 5-25k
- Flow: 1 or 2 way

**Examples**
- North Avenue
- Harlem Avenue
- Ashland Avenue
- Milwaukee Avenue
- Most of the streets in the loop

\(^a\) Speed refers to Target Speed, see Section 3.5.5.
Design Trees

FIGURE 19

Mode Hierarchy

PEDESTRIAN
P > T > B > A

TRANSIT
T > P > B > A

BICYCLE
B > P > A > T

AUTO
A > P > T > B

Building Form and Function

P Parks
R Residential
M Mixed-Use
C Commercial Center
D Downtown
IC Institutional/Campus
IN Industrial

Categorize streets as per typologies in Chapter 2

Roadway Form and Function

ROW Width
Target Speed
Volume - ADT

PW Pedestrian Way
Varies

SW Service Way
5 to 10
Varies

NS Neighborhood Street
10 to 20
Vehicles
< 5,000

MS Main Street
15 to 25
Vehicles
< 10,000

CN Connector
80 to 100
Vehicles
< 25,000

TH Thoroughfare
> 100
Vehicles
> 20,000

Cross Sections
Label Code = mode.building.roadway

Refer to tables & text in Chapter 3 for dimensions

Design Tree for Mixed-Use
Multimodal Complete Streets Typology

• The same roadway can have different functions in different areas
Example Streets
- Federal Highway/Dixie Highway/Broadway/U.S. 1
- Atlantic Avenue
- Center Street
- Jog Road

U.S. 1
Building Form and Function

• Potential examples
  • Residential
    • Single family residential
    • Multi family residential
  • Commercial
    • Suburban commercial
    • Town center commercial
  • Industrial
  • Mixed-use
  • Downtown
  • Institutional
  • Parks
  • Others
Roadway Form and Function

- Potential examples
  - Thoroughfare
  - Connector
  - Neighborhood Street
  - Main Street
  - Service/Alley
  - Pedestrian Way
  - Others

- What are some local examples of each type of roadway form?
Potential Outline

• Introductory chapter
  • Relationship to design criteria and standards
  • Relationship to other design guideline documents

• Street typology chapter

• Roadways elements

• Sidewalk elements

• Intersection elements

• Implementation
Potential Outline

• Introductory chapter
  • Relationship to design criteria and standards
  • Relationship to other design guideline documents
• Street typology chapter
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Potential Outline

- Roadway elements
Potential Outline

• Sidewalk elements
Potential Outline

• Intersection elements
Some of the Key Elements

• Target Speed
• Lane Widths
• Sidewalk Zone
• Bike Facilities
• Others
Cross-Section Elements
## Cross-Section Dimensions

### FIGURE 20.3

<table>
<thead>
<tr>
<th>Building Form and Function</th>
<th>CN (Pedestrian Realm)</th>
<th>CN (Interstitial Area)</th>
<th>CN (Vehicle Realm)</th>
<th>CN (Median)</th>
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<tbody>
<tr>
<td><strong>ROADWAY FORM AND FUNCTION</strong></td>
<td>Frontage</td>
<td>Pedestrian Zone</td>
<td>Furniture Zone</td>
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<td>8</td>
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Questions?