



**ENGINEERING & OPERATIONS**

PO Box 1110, Tampa, FL 33601-1110

813-276-2530 | Fax: (813) 272-5811

**TRANSPORTATION DESIGN MANUAL BULLETIN 22-10**

**DATE:** November 21, 2022

**TO:** County Director of Engineering & Operations Department,  
County Director of Capital Programs Department,  
County Manager of Construction Services,  
County Director of Transportation Maintenance Division,  
County Project Managers, and Project Engineers of Record

**FROM:** County Engineer,  
County Director of Technical Services Division

**COPIES:** County Director of Performance Data and Analytics Department

**SUBJECT: DESIGN CRITERIA TABLE SUBMITTAL REQUIREMENTS**

This bulletin announces the requirement to provide a Design Criteria Table for all Hillsborough County Transportation Projects including Project Development and Environment Studies, Preliminary Engineering Reports, Construction Plans and other reports and analyses requiring a selection of design criteria.

**REQUIREMENTS**

Design Criteria must be provided in the table format attached for all Project Development and Environment Studies (PD&E), Preliminary Engineering Reports (PER), Construction Plans and other reports and analyses requiring a selection of design criteria.

The Design Criteria Table must be included in the Notes to Reviewers Sheet in all Construction Plans.

The Design Criteria Table must cover all applicable design features involved with the project. The labeled columns shown in this table must be provided. The Engineer of Record should add any additional design elements to the table that are applicable to the project. "N/A" should be placed in the Design Criteria column for those design elements that are not applicable. The Engineer of Record should not remove a design element from the table if it is not applicable, so reviewers will know that the design element was not overlooked.

The Design Criteria Table is provided in excel format and can be found at the following link: [Hillsborough County Public Work Design Criteria Table](#).

**BACKGROUND**

There has been no Design Criteria standardized submittal requirement for Hillsborough County Transportation Projects. Providing a Design Criteria Table will inform all evaluators of Hillsborough County documents the parameters by which the projects were analyzed and designed.

**IMPLEMENTATION**

Effective Immediately.

**CONTACT**

Please use the email link below to address any questions or comments in reference to this Design Bulletin:

[PW-Standards\\_Inquiry](#)

Recommended / Date:

Approved / Effective Date:

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Leland Dicus, Professional Engineer  
Technical Services Division Director

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Michael J. Williams, Professional Engineer  
County Engineer



**ENGINEERING & OPERATIONS DEPARTMENT**

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**SUBJECT: DESIGN CRITERIA TABLE**

County Street Name and/or Road Number: \_\_\_\_\_

County Capital Improvement Program Number: \_\_\_\_\_

Type of Project:

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Corridor Reconstruction                           | <input type="checkbox"/> Trail and Share Use                                  | <input type="checkbox"/> Drainage Retrofits and Enhancements |
| <input type="checkbox"/> New Construction                                  | <input type="checkbox"/> School Routes Safety Improvements                    | <input type="checkbox"/> Safety and Mobility Projects        |
| <input type="checkbox"/> Resurfacing, Restoration and Rehabilitation (RRR) | <input type="checkbox"/> Intersection Modifications and Signalization Updates | <input type="checkbox"/> Complete Street                     |
| <input type="checkbox"/> Pedestrian Corridors                              | <input type="checkbox"/> Bridge Repair and Replacements                       | <input type="checkbox"/> Other _____                         |

**DESIGN CRITERIA TABLE**

DESIGN ELEMENT	DESIGN CRITERIA	CRITERIA SOURCE (REFERENCE MANUAL AND CHAPTER)	EXISTING CONDITIONS	PROPOSED DESIGN	DESIGN EXCEPTION OR DESIGN DEVIATION REQUIRED (YES/NO) (DE or DDM)
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**ROADWAY DESIGN ELEMENTS**

**Controlling Criteria**

Context Classification					
Functional Classification					
Access Classification					
Access Classification Median Spacings					
Access Classification Signal Spacings					
Access Classification Connection Spacings					
Design Period					
Design Year					
Design Speed (MPH) / Posted Speed (MPH)					
Design Vehicle					
Type of Construction (New Construction or RRR)					

**Cross Section**

Lane Widths					
Cross Slope					
Median Widths					
Shoulder Widths					
Border Width					
Sidewalk Widths					

## DESIGN CRITERIA TABLE

DESIGN ELEMENT	DESIGN CRITERIA	CRITERIA SOURCE (REFERENCE MANUAL AND CHAPTER)	EXISTING CONDITIONS	PROPOSED DESIGN	DESIGN EXCEPTION OR DESIGN DEVIATION REQUIRED (YES/NO) (DE or DDM)
Bicycle Lane Width					
Clear Zone (Travel / Auxiliary)					
Front Slopes					
Back Slopes					
Ditch Bottom Width					
Lateral Offset to Signal Poles / Cabinets					
Lateral Offset for ITS Poles					
Lateral Offset for Breakaway Objects					
Lateral Offset for Overhead Signs					
Lateral Offset to Trees					
Lateral Offset for Aboveground Utilities					
Lateral Offset to Bridge Piers / Abutments					
Lateral Offset to Pedestrian Railing					
<b>Horizontal Geometry</b>					
Maximum Deflection Without Curve					
Length of Horizontal Curve					
Minimum Radius for Existing Horizontal Curve					
Superelevation e (max)					
Minimum Full Superelevation Length					
Superelevation Transition Rate					
Curvature of Horizontal Curve					
Sight Diagrams for Intersecting Road and Curves					
<b>Vertical Geometry</b>					
Maximum Grades					
Maximum Change in Grade Without a Vertical Clearance					
Minimum Distance between Vertical Points of Inflection (Curb and Gutter)					
Minimum K Value (Crest / Sag)					
Minimum Lengths of Curves (Crest / Sag)					
Stopping Sight Distance (<4% Downgrade)					
Minimum Vertical Clearances for Bridges					
Minimum Vertical Clearances for Overhead Signs					

**DESIGN CRITERIA TABLE**

<b>DESIGN ELEMENT</b>	<b>DESIGN CRITERIA</b>	<b>CRITERIA SOURCE (REFERENCE MANUAL AND CHAPTER)</b>	<b>EXISTING CONDITIONS</b>	<b>PROPOSED DESIGN</b>	<b>DESIGN EXCEPTION OR DESIGN DEVIATION REQUIRED (YES/NO) (DE or DDM)</b>
Minimum Vertical Clearances for Dynamic Message Signs (DMS)					
Minimum Vertical Clearance for Aboveground Utilities					
Minimum Vertical Clearance for Signals					
<b>Intersections</b>					
Turn Lanes: Total Deceleration and Queue Length					
Deflection Angle Through Intersection					
Maximum Lane Shift Through Intersection					
Slope Rates for Intersection Approaches					
Median Width at Intersection					
Control Radii for Minimum Speed Turns					
On-Street Parking Restrictions for Driveways and Intersections					
Edge of Traveled Way, Simple Curve Radii					
Superelevation Rates for Turning Roadways					
Offset Distances for Left Turn Lanes					
<b>OTHER DESIGN DISCIPLINE</b>					
<b>Controlling Criteria</b>					
<b>Design Element Criteria</b>					

**DESIGN CRITERIA TABLE**

DESIGN ELEMENT	DESIGN CRITERIA	CRITERIA SOURCE (REFERENCE MANUAL AND CHAPTER)	EXISTING CONDITIONS	PROPOSED DESIGN	DESIGN EXCEPTION OR DESIGN DEVIATION REQUIRED (YES/NO) (DE or DDM)
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**OTHER DESIGN DISCIPLINE**

**Controlling Criteria**


**Design Element Criteria**


**Design Element Criteria**


**COMMUNITY COMMITMENTS:**