

2014 Q1 – PWD Proposed Rule Changes

PROPOSED VERSION for 1st Quarter 2014 Posting

Transportation Criteria Manual – Section 1

Earliest Possible Adoption: February 2014

SECTION 1 - VISION, GOALS, AND STREET DESIGN CRITERIA

1.1.0 GENERAL - This section provides guidelines for the assignment of street classifications and their respective design criteria

1.1.1 VISION: The Vision of the TCM is to provide design criteria for roadways that help the City of Austin:

- Grow as a compact, connected city,
- Integrate nature into the city,
- Provide paths to prosperity for all,
- Develop as an affordable and healthy community,
- Sustainably manage storm water, and other environmental resources,
- Think creatively and work together.

1.1.2 GOALS:

1.1.2.1 Promote Complete Streets to serve all roadway users, pedestrians, bicyclists, transit riders, and motorists regardless of age or ability

1.1.2.2 Provide safe and efficient movement of people, goods, and services.

1.1.2.3 Integrate roadways into the existing and future context of the adjacent land uses and the built environment.

1.1.2.4 Incorporate trees and natural vegetation to maximize their community benefits.

1.1.3 Reference Standards

The most current version of the references in APPENDIX I may be used along with engineering judgment to justify waivers from the criteria outlined below in support of the Vision and Goals of the Transportation Criteria Manual. Inconsistencies between references shall be resolved by the City Traffic Engineer for all aspects related to transportation operations including but not limited to vertical and horizontal alignment or the Public Works Director for all other aspects.

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Appendix I: References

| | Design | Roadway Geometry | Transportation Engineering (Signs, Signals, Markings) | Roadway Safety Systems (Guardrails, Barricades, Fencing) | Pavements | Bridges | Bike/Ped | Transit |
|---|--------|------------------|---|--|-----------|---------|----------|---------|
| Designing Walkable Urban Thoroughfares – A Context Sensitive Approach (Recommended Practice) –ITE | * | * | | | | | * | * |
| Neighborhood Street Design Guidelines(Recommended Practice) -ITE | * | * | | | | | | * |
| Promoting Sustainable Transportation Through Site Design (Recommended Practice) –ITE | * | | | | | | * | * |
| Smart Growth Transportation Guidelines (Recommended Practice) -ITE | * | * | | | | | * | * |
| Planning Urban Roadway Systems (Recommended Practice) -ITE | * | | | | | | | |
| City of Austin Complete Streets Resolution (#020418-40) | * | | | | | | * | |
| A Recommended Practice: Guidelines for Residential Street Design (ITE) | | * | | | | | | |
| Traditional Neighborhood Development Street Design Guidelines (Recommended Practice) –ITE | | * | | | | | | |
| Urban Street Geometric Design Handbook-ITE | | * | | | | | | |
| Flexibility in Highway Design - FHWA | * | * | | | | * | | |
| Highway Capacity manual (HCM) – FHWA | | * | * | | | | * | * |
| Residential Streets – ASCE | * | * | | | * | | | |
| Roundabouts – An Informal Guide (NCHRP 672) – FHWA | * | * | | | | | | |
| Roadside Design Guide – AASHTO | | * | * | * | | | | |
| Texas Manual on Uniform Traffic Control Devices (TxMUTCD) – TxDOT | | | * | | | | * | |

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|---|--------|------------------|---|--|-----------|---------|----------|---------|
| Access Management Manual – TxDOT | | * | | | | | | |
| Access Management Manual – TRB | | * | | | | | | |
| Highway Safety Manual (HSM) - AASHTO | | * | * | * | | | | |
| Guide for the Design of Pavement Structures – AASHTO | | | | | | * | | |
| Guidelines for Geometric Design of Very Low-Volume Local Roads – AASHTO | | * | | | | | | |
| International Building Code (IBC) – ICC | | | | | | * | * | * |
| Building Code Requirements for Structural Concrete – ACI 318 | | | | | | * | | |
| Design and Construction of Joints for Concrete Streets – ACPA | | | | | | * | | |
| | Design | Roadway Geometry | Transportation Engineering (Signs, Signals, Markings) | Roadway Safety Systems (Guardrails, Barricades, Fencing) | Pavements | Bridges | Bike/Ped | Transit |
| Design Handbook for Precast and Prestressed Concrete – PCI | | | | | * | | | |
| Steel Construction Manual – AISC | | | | | | * | | |
| Roadway Design Manual (RDM) – TxDOT | | * | | * | | * | * | |
| Load and Resistance Factor Design Bridge Design Specification – AASHTO | | | | | | * | | |
| Load and Resistance Factor Design Guide Specification for the Design of Pedestrian Bridges – AASHTO | | | | | | * | * | |
| Guide Specifications for Bridge Railings – AASHTO | | | | | | * | | |
| Bridge Design Guide (BDG) – TxDOT | | | | | | * | | |
| Design and Safety of Pedestrian Facilities (Recommended Practice) - ITE | | | | | | | * | * |
| Urban Bikeway Design Guide – NACTO | | | | | | | * | |
| Guide for the Development of Bicycle Facilities – AASHTO | | | | | | | * | |
| A Policy on Geometric Design of Highways and Streets – AASHTO | | * | | | | | * | |

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|--|---|---|---|--|--|--|---|---|
| Pedestrian facilities users guide – providing safety and mobility – FHWA | | | * | | | | * | * |
| Public rights-of-way accessibility guidelines (DRAFT) – US Access Board | | * | * | | | | * | * |
| Transit-Friendly Development Guide - CMTA | * | | * | | | | | * |
| Design Guide, Sustainability and Urban Design Program, APTA | * | | | | | | | * |