Complete Streets: Highway Law & Pedestrian Safety and Mobility in New York State

Mark Grainer Policy and Planning Division NYSDOT

Presented at

2012 Annual Planning Symposium Onondaga County Planning Federation

NY Consolidated Law Highway - Section 331 Consideration of Complete Street Design

Effective February 11, 2012, the law:

- Requires consideration of complete street design features for projects undertaken by the Department of Transportation, municipalities and public authorities that receive both state and federal funding and are subject to department of transportation oversight.
- Requires consideration of convenient access and mobility on the road network by all users of all ages, including motorists, pedestrians, bicyclists, and public transportation users.

Recognize the needs of the users and the network context:

 The legislation provides a list of features and elements that may be considered in complete street design.

These features and elements include but not limited to -
SidewalkBicycle lanesShare the road signageRoad dietsCrosswalksBus pull outsLane stripingPedestrian control signalizationCurb cutsRaised crosswalks and ramps

Exceptions to the law exist, when documented and set forth in publically available documents:

- Shall not apply when bicyclists and pedestrians are prohibited by law.
- Shall not apply when cost is disproportionate to the need as determined by factors such as land use context, current project traffic volumes, and population density.
- Shall not apply when demonstrated lack of need including factors such as land use, current project traffic volumes, or lack of community support.
- Shall not apply when the use of design features would have an adverse impact on, or be contrary to, public safety.

Effective February 11, 2012, the law:

- Does not require any municipality to expend monies for complete street design, other than monies provided by the state and federal governments for complete street features, but does not preclude the department or municipality from spending monies from its own budget for complete street design features.
- Requires the Department of Transportation to produce a report within two years of the effective date of the law, that:
 - Documents compliance with this law and change of procedures to institutionalize complete street design features into the planning, project scoping, design and implementation of projects.
 - Includes review and guidance regarding certain highway features.
 Includes any best practices identified by the Department, whether created by the department or identified from another source.

A lot has changed.....



CONTEXT SENSITIVE DESIGN

NYSDOT Context Sensitive Solutions

Engineering Instruction 01-020

CSS strives for outcomes that meet transportation service and safety needs, as well as environmental, scenic, aesthetic, cultural, natural resource, and community needs.



COMPLETE STREETS IMPLEMENTATION

- Programs
- Policy & Procedures
- Design standards



EXISTING PROGRAMS



- **Smart Growth** Undertaken a comprehensive, agency-wide, phased implementation effort to integrate the requirements of Law into the existing, federally-required transportation project development process
- NYSDOT Bicycle and Pedestrian Program Responsible for promoting bicycle and pedestrian access, mobility, and safety as a routine part of all Department sponsored activities. Reviews policies and programs and NYSDOT guidance regarding the accommodation of bicyclists and pedestrians; distribution of technical and engineering guidance to all Regional and Main Office program and executive level staff.
 - A **Regional Bicycle and Pedestrian Coordinator** is responsible for promoting bicycle and pedestrian issues within each region.
- Safe Routes to School (NYSDOT) \$27.5 million in funding for 89 projects, benefitting 181 schools in 67 communities.
- **SafeSeniors (NYSDOT)** Pilot program to address senior pedestrian crashes on Long Island.
- **Bicycle Pedestrian Initiative (NYSDOT)** Committee convened to examine standards, policies and programs relating to non-motorized travel. Drafting new policy to ensure non-motorized transportation is considered in the early planning stages of projects.
- **Pedestrian Signal Countdown Timers (NYSDOT)** Nearly 3,000 pedestrian countdown timers installed from 2005 to 2009 as part of a plan to upgrade traffic signals and pedestrian control at intersections.

EXISTING POLICY & PROCEDURES Federal Authority

Current surface transportation authorization legislation 23 CFR Part 652 - Pedestrian and Bicycle Accommodation and Projects 23 USC Section 217 – Bicycle Transportation and Pedestrian Walkways 23 USC Section 402 - Highway Safety 23 USC 109(a)(35) - Transportation Enhancement Activities 23 USC 109(m) – Protection of Nonmotorized Transportation Traffic 23 USC 103(b)(6) Section 103 – Federal – aid systems [Eligibility for National Highway System Funds] 23 USC 134 - Metropolitan Planning 23 USC 135 - Statewide Planning 23 USC 152 - Hazard Elimination 23 USC Section 206 – Recreational Trails Program 23 USC Section 204 – Federal Lands Highway Program 23 USC Section 162(c)(4) – National Scenic Byways Program Section 1602 of TEA-21 – High Priority Projects and Designated **Transportation Enhancement Activities** 49 USC Section 5307 – Transit Enhancement Activity 49 CFR 27.7 - Nondiscrimination on the Basis of Disability in Programs or Activity Receiving Federal Financial Assistance 28 CFR 35.150 Transition Plan (America with Disability Act of 1990) National Manual on Uniform Traffic Control Devices for Streets & Highways



Source: www.fhwa.dot.gov

EXISTING POLICY & PROCEDURES

Pedestrian Safety in NYSDOT Project Development

Planning & Scoping

- Pedestrian safety issues and needs are considered as part of the effort to identify the project area's safety, mobility, infrastructure, community, and environmental conditions, needs, and objectives.
- "Pedestrian accommodation" is one of 17 items considered to be Critical Design Elements in the Project Scoping Report.
- Project Development Manual (PDM) 3.2.2.2 Project Issues, Elements, and Initiatives lists "Bicycle and pedestrian considerations" as an issue requiring analysis and consideration during scoping.
- Safety Considerations, Accident History & Analysis are a consideration on every project.
- Public involvement efforts give the community an opportunity to alert NYSDOT to a potential or existing pedestrian situation that may not be evident in the accident history.



EXISTING POLICY & PROCEDURES

Pedestrian Safety in NYSDOT Project Development

Design

Highway Design Manual

Chapter 18 – Pedestrian Facility Design provides procedural requirements for determining if pedestrian facilities are warranted; and provides guidance to design, construct and maintain these facilities.

"...Department policy...aligns with FHWA policy (23 CFR 652.5) which requires that the safe accommodation of pedestrians and persons with disabilities should be given full consideration during the planning, design, and construction phases of federal aid highway projects. The Department has determined that this policy also applies to all projects, regardless of the fund source, including 100% state-funded projects."

•18.5.2 Pedestrian Data Acquisition (for use in PSRs and DADs)

"Pedestrian accident history, including causes and site context (roadway description and surrounding land use). Pedestrian accident history should include actual recorded incidents and local feedback on perceived safety. The absence of an accident history does not necessarily indicate a safe and accessible condition exists for pedestrians. Information may be gathered from local highway supervisors, local police, residents or business owners."

- •18.6.1 *Pedestrian Facility Design under the Americans with Disabilities Act (ADA)* The Department has a duty to construct, maintain, monitor, and update, any facility it owns or maintains to meet the most current ADA standards.
- •18.6.1.1 Additional Design Considerations for Persons with Special Needs Includes "Older Persons" and "Visually Impaired Persons"

EXISTING POLICY & PROCEDURES

Pedestrian Safety in NYSDOT Project Development

Design

Design Approval Document

Chapter 3.3.2 - Multimodal considers accommodations for pedestrians, as indicated by completion of a standardized 'Pedestrian Generator Checklist,' (HDM Ch. 18) to determine if pedestrian facilities are needed. The checklist is submitted to the Regional Bicycle and Pedestrian coordinator for review.

Chapter 4.2.1 -Social considers impacts (including mobility) on:

- Elderly and/or Disabled Persons or Groups
- Transit Dependent, Pedestrians, and Bicyclists

PEDESTRIAN FACILITY DESIGN

18-6

Exhibit 18-1 Pedestrian Generator Checklist

P.I	.N.: Project Location:		
	PEDESTRIAN GENERATOR CHECKLIST		
and A ch Bicy	: The term "generator" in this document refers to both pedestrian generators (where ped destinations (where pedestrians travel to). eck of "yes" indicates a potential need to accommodate pedestrians and coordination cle and Pedestrian Coordinator is necessary during project scoping. Answers to the fe id be checked with the local municipality to ensure accuracy.	with the Re	giona
1.	Is there an existing or planned sidewalk, trail, or pedestrian-crossing facility?	YES	NO
2.	Are there bus stops, transit stations or depots/terminals located in or within 800 m of the project area?	YES	NO
3.	Is there more than occasional pedestrian activity? Evidence of pedestrian activity may include a worn path.	YES	
4.	Are there existing or approved plans for generators of pedestrian activity in or within 800m of the project that promote or have the potential to promote pedestrian traffic in the project area, such as schools, parks, playgrounds, places of employment, places of worship, post offices, municipal buildings, restaurants, shopping centers, or other commercial areas, or shared-use paths?	YES	NOD
5.	Are there existing or approved plans for seasonal generators of pedestrian activity in or within 800 m of the project that promote or have the potential to promote pedestrian traffic in the project area, such as ski resorts, state parks, camps, amusement parks?	YES	
6.	Is the project located in a residential area within 800 m of existing or planned pedestrian generators such as those listed in 4 above?	YES	NO
7.	From record plans, were pedestrian facilities removed during a previous highway reconstruction project?	YES	NO
8.	Did a study of secondary impacts indicate that the project promotes or is likely to promote commercial and/or residential development within the intended life cycle of the project?	YES□	NO
9.	Does the community's comprehensive plan call for development of pedestrian facilities in the area?	YES	NO
10.	Based on the ability of students to walk and bicycle to school, would the project benefit from engineering measures under the Safe-Routes-To-School program? Eligible infrastructure-related improvements must be within a 3.2 km radius of the project.	YES⊡	NO
	: This checklist should be revisited due to a project delay or if site conditions or local pla ig the project development process.	nning chang	jes
Con	iments:		
Regi	onal Bicycle and Pedestrian Coordinator:		
Proje	ect Designer:		

EXISTING POLICY & PROCEDURES

Pedestrian Safety in NYSDOT Project Development

Construction

Highway Design Manual

16.4.4.2 - Maintenance and Protection of Pedestrian and Bicycle Traffic

Section 619 of the Standard Specifications provides for the safe passage of pedestrians and bicyclists over any portion of the highway under construction where traffic is to be maintained.



EXISTING POLICY & PROCEEDURES

Features Identified in Complete Street Law:

- Sidewalks (HDM Ch. 18 Pedestrian Facility Design, 18.5, 18.6,)
- Paved Shoulders Suitable for Use By Bicyclists (HDM Ch. 17 Bicycle Facility Design, 17.4)
- Lane Striping (HDM Ch. 17 Bicycle Facility Design, 17.4; MUTCD, Part 9)
- Bicycle Lanes (HDM Ch. 17 Bicycle Facility Design, 17.4)
- Share The Road Signage (HDM Ch. 17 Bicycle Facility Design, 17.4; MUTCD, 2C.51)
- Crosswalks (HDM Ch.18 Pedestrian Facility Design, 18.7; MUTCD Section 3B.18)
- Road Diets (HDM Ch. 25 Traffic Calming, 25.6, Table 25-1)
- Pedestrian Control Signalization (HDM Ch.18 Pedestrian Facility Design, 18.7; HDM Ch. 11 Signs, Signals and Delineation, 11.3; MUTCD, Chapters 4C, 4D, 4E, 4F)
- Bus Pull Outs (HDM Chapter 24 Mobility Measures, 24.3; HDM Ch. 18 Pedestrian Facility Design, 18.10)
- Curb Cuts (HDM Ch. 5 Basic Design, Appendix A, HDM Ch. 18 Pedestrian Facility Design, 18.7)
- Traffic Calming Measures (HDM Ch. 25 Traffic Calming)

...most design features are included in the Department's existing design standards

EXISTING DESIGN STANDARDS

Pedestrian Facility & Safety Design Elements

New sidewalk installation



Pedestrian lighting



EXISTING DESIGN STANDARDS

Pedestrian Facility Safety Design Elements

In-road crosswalk lighting

Typical Pedestrian Street Crossings







EXISTING DESIGN STANDARDS

Pedestrian Facility Safety Design Elements

Signage and Signals at Pedestrian Street Crossings



Pedestrian Refuges

Intersection Curb Extensions





EXISTING DESIGN STANDARDS

Pedestrian/Bicycle Facility Safety Design Elements



R5 Kensington Expressway/Humboldt Parkway

Over/Under passes

R7 Route 37



Design features yet to be implemented-



HAWK Beacons at Pedestrian Street Crossings

CONTEXT

Why care about streets and their design?

- Streets are a major SHARED public resource that are under-utilized.
- Streets and network design address big issues:
 - Climate change
 - Energy independence
 - Health and safety







Used by Permission: Project for Public Spaces

Complete Streets

Mark Grainer Policy and Planning Division NYSDOT <u>Mark.Grainer@dot.ny.us</u> 315.428.4612