

MnDOT Complete Streets Resource List: A Starting Point

This resource list may serve as a starting point for developing a Complete Streets policy or approach in your community. Reviewing all or some of these resources can be an important first step to building a Complete Streets library as your community takes its first steps or its next steps in implementing Complete Streets to improve safety, accessibility, efficiency and mobility for years to come. Check back with us from time to time! As we identify new and helpful resources, we will add them to this list!

Please check the MnDOT Complete Streets website to see the latest in Complete Streets development statewide: <http://www.dot.state.mn.us/planning/completestreets/> and be sure sign up for email updates on Complete Streets policy development.

This is not an exhaustive resource list. There are additional standards, regulations and guidelines beyond what is listed here. This document should not be considered legal or technical advice or direction or a substitute for obtaining technical or legal advice or direction.

Table 1. Topic Areas: Road design, transportation plans (mostly MnDOT plans) and Complete Streets specific topics: Resources to respond to some of the most typical questions relating to Complete Streets policy development

Table 2. MnDOT Specific: MnDOT road design and operations: Includes some of the most common design and operations guidelines and policies in designing the Minnesota State Highway system.

Table 1. Topic Area

| Title | Author | Year | Website |
|---|---|------|---|
| Complete Streets Specific | | | |
| MnDOT Complete Streets Website | MnDOT | | http://www.dot.state.mn.us/planning/completestreets/ |
| Complete Streets Fact Sheets | Barbara McCann | 2012 | http://www.completestreets.org/complete-streets-fundamentals/factsheets/ |
| Cost of Complete Streets: Talking Points and Testimonials | National Complete Streets Coalition | 2008 | http://www.completestreets.org/complete-streets-fundamentals/factsheets/costs/ |
| Complete Streets Policy Analysis 2010: A Story of Growing Strength | National Complete Streets Coalition | 2010 | http://www.completestreets.org/webdocs/resources/cs-policyanalysis.pdf |
| Complete Streets Best Practices | APA/National Complete Streets Coalition | 2010 | http://planning.org/research/streets/ |
| Complete Streets Resource list | APA | N/A | http://www.planning.org/research/streets/resources.htm |
| Planning Complete Streets for an Aging America | AARP | 2009 | http://assets.aarp.org/rgcenter/il/2009_02_streets.pdf |
| Planning Complete Streets for an Aging America - Appendix A: Complete Street Inventory and Evaluation | AARP | 2009 | http://assets.aarp.org/rgcenter/il/2009_02_streets_5.pdf |

| Title | Author | Year | Website |
|--|-------------------------------------|------|---|
| National Complete Streets Coalition | National Complete Streets Coalition | | http://www.completestreets.org/ |
| Minnesota Complete Streets Coalition | | | http://www.mncompletestreets.org/ |
| Funding | | | |
| MnDOT Transportation Program Funding Summary | MnDOT | | http://www.dot.state.mn.us/funding/index.html |
| MnDOT Highway Safety Funding | MnDOT | | http://www.dot.state.mn.us/trafficeng/safety/funding/index.html |
| MnDOT Research Funding | MnDOT | | http://www.dot.state.mn.us/research/index.html |
| MnDOT Cost Participation Policy | MnDOT | 2004 | http://www.dot.state.mn.us/design/tools/index.html#cost |
| Federal Transit Administration Current Notices of Funding Availability | Federal Transit Administration | 2009 | http://www.fta.dot.gov/funding/grants_financing_7829.html |
| Bicycle and Pedestrian Funding Resources and Provisions of the Federal-aid Program | FHWA | | http://www.fhwa.dot.gov/environment/bikeped/bp-broch.htm#funding |
| Flexible Funding for Highways and Transit and Funding for Bicycle & Pedestrian Programs Memorandum | FHWA | 2006 | http://www.fhwa.dot.gov/hep/flexfund.htm |
| Planning Program Funds to Support Integration of Transportation, Land Use, and Climate Change Memorandum | FHWA | 2008 | http://www.fhwa.dot.gov/planning/plnInduse.htm |

| Title | Author | Year | Website |
|---|-----------------------------|------|---|
| Safety | | | |
| General Road Safety | MnDOT | | http://www.dot.state.mn.us/safety/index.html |
| Minnesota's Toward Zero Deaths | DPS, MnDOT, others | | http://tzd.state.mn.us/index.html |
| Minnesota Comprehensive Annual Traffic Crash Data Reports "Minnesota Crash Facts" | Department of Public Safety | | https://dps.mn.gov/divisions/ots/reports-statistics/pages/crash-facts.aspx |
| MnDOT Road Safety Audits | MnDOT | | http://www.dot.state.mn.us/trafficeng/safety/planning/rsa/index.html |
| FHWA Pedestrian Road Safety Audit | FHWA | | http://safety.fhwa.dot.gov/ped_bike/tools_solve/ped_rsa/ |
| FHWA Pedestrian and bicycle safety | FHWA | | http://safety.fhwa.dot.gov/ped_bike/ |
| FHWA Highway Safety Improvement Program | FHWA | | http://safety.fhwa.dot.gov/hsip/ |
| A Resident's Guide for Creating Safe and Walkable Communities (FHWA-SA-07-016) | FHWA | | http://drusilla.hsrc.unc.edu/cms/downloads/residentsguide.pdf |
| Department of Public Safety Teen Driver Laws | Department of Public Safety | | https://dps.mn.gov/divisions/ots/laws/Pages/teen-drivers.aspx |
| Traffic fatalities and injuries: the effect of changes in infrastructure and other trends | Noland, Robert B. | 2002 | http://www.cts.cv.ic.ac.uk/documents/publications/iccts00203.pdf |
| Department of Public Safety Distracted Driver Laws | Department of Public Safety | | https://dps.mn.gov/divisions/ots/laws/Pages/distracted-driving.aspx |

| Title | Author | Year | Website |
|--|---------------------------------|-------------|---|
| Minnesota Share the Road: Bicycle Safety Education Program | MnDOT, others | | http://www.sharetheroadmn.org/ |
| Minnesota Safety Council Traffic Safety | Minnesota Safety Council | | http://www.minnesotasafetycouncil.org/traffic/?qs=0F95F4948265AB741695E6BDC62B1B62 |
| Minnesota Nonmotorized Transportation Committee | MnDOT | | http://www.mnsbac.org/ |
| Pedestrian and Bicycle Information Center | US Department of Transportation | N/A | http://www.walkinginfo.org/index.cfm |
| Accessibility and the Americans with Disabilities Act (ADA) | | | |
| Clarification of FHWA's Oversight Role in Accessibility Memorandum | FHWA | 2006 | http://www.fhwa.dot.gov/civilrights/memos/ada_memo_clarificati ona.htm |
| Public Rights-of-Way Access Advisory Memorandum | FHWA | 2006 | http://www.fhwa.dot.gov/environment/bikeped/prwaa.htm |
| MnDOT ADA Resources | | | http://www.dot.state.mn.us/ada/index.html |
| MnDOT ADA Training | | | http://www.dot.state.mn.us/ada/training.html |
| MnDOT ADA Transition Plan | | | http://www.dot.state.mn.us/ada/ |
| U. S. Department of Justice: | | | http://www.ada.gov/pubs/adastatute08.htm#12134a |
| Americans with Disabilities Act as amended | | | http://www.ada.gov/pccatoolkit/toolkitmain.htm |
| U. S. Department of Justice: | | | http://www.ada.gov/civicac.htm |

| Title | Author | Year | Website |
|---|----------------------------|-------------|---|
| ADA Best Practices Tool Kit | | | http://www.ada.gov/comprob.htm |
| U. S. Department of Justice: | | | http://www.ada.gov/restripe.htm |
| Revised Draft Guidelines for Accessible Public Rights-of- Way | United States Access Board | 2005 | http://www.access-board.gov/prowac/draft.pdf |
| Project Action Transit Accessibility Resources | Easter Seals | 2012 | http://projectaction.easterseals.com/site/PageServer?pagename=E SPA_technical_assistance&s_esLocation=ta |
| Public Rights-of-Way Accessibility Guidelines | United States Access Board | 2005 | http://www.access-board.gov/prowac/index.htm |
| Design and Planning | | | |
| Context Sensitive Solutions in Designing Major Urban Thoroughfares for Walkable Communities | ITE | 2010 | http://www.ite.org/css/ |
| Guidance for the Planning, Design, and Operation of Pedestrian Facilities | AASHTO | 2004 | Available in hardcopy only, purchase at: https://bookstore.transportation.org/item_details.aspx?id=119 |
| Minnesota State Demographer Population Projections | MN State Demographer | | http://www.demography.state.mn.us/documents/ProjectionsMapsCharts2005-2035.pdf |
| Minnesota Scenic Byways | MnDOT | | http://www.dot.state.mn.us/scenicbyways/index.html |
| Minnesota Great River Road | MnDOT | | http://www.dot.state.mn.us/scenicbyways/grstudy.html |
| Minnesota DNR State Comprehensive Outdoor Recreation Plan | Mn DNR | | http://www.mnmississippiriver.com/ |

| Title | Author | Year | Website |
|---|---|-------------|---|
| Minnesota DNR Destinations, parks, trails, fishing piers, lakes and river, maps | Mn DNR | | http://www.dnr.state.mn.us/aboutdnr/reports/scorp/index.html |
| Pedestrian and Bicycle Information Center (PBIC) | PBIC | | http://www.dnr.state.mn.us/destinations/index.html |
| Exploring Bicycle Options for Federal Lands | Walking Information | | http://www.walkinginfo.org/about/ |
| Federal Highways Administration and the use of Universal Design | FHWA | | http://www.cflhd.gov/lrtp/documents/projects/BikeOptionsFederalLands.pdf |
| Health | | | |
| Active Living by Design | University of North Carolina | | http://www.activelivingbydesign.org/ |
| Healthy Aging | MDH, others | | http://www.mnhealthyaging.org/en/PhysicalActivity.aspx |
| Minnesota Board on Aging | Minnesota Board on Aging | | http://www.mnaging.org/about.htm |
| Recommended Community Strategies and Measurements to Prevent Obesity in the United States - Strategy 23 | Center for Disease Control and Prevention | | http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5807a1.htm |
| Centers For Disease Control and Prevention: Physical Activity for Everyone | Center for Disease Control and Prevention | | http://www.cdc.gov/physicalactivity/everyone/guidelines/adults.html |
| Minnesota Department of Health: Physical Activity and Health | Minnesota Department of Health | | http://www.health.state.mn.us/physicalactivity/ |

| Title | Author | Year | Website |
|---|--------------------------------|------|---|
| Minnesota Department of Health: Communities Walkability, Active Living and More | Minnesota Department of Health | | http://www.health.state.mn.us/physicalactivity/ |
| Environment | | | |
| Minnesota GreenSteps: Best Practices for Your City's Sustainability | MN PCA | | http://greenstep.pca.state.mn.us/ |
| MnDOT Typical Landscaping Treatments | MnDOT | | http://www.dot.state.mn.us/design/landscape-treatments/index.html |
| MnDOT Living Snow Fences | MnDOT | | http://www.dot.state.mn.us/environment/livingsnowfence/ |
| MnDOT PlantSelector | MnDOT | | http://dotapp7.dot.state.mn.us/plant/ |
| Minnesota Tree Resource | | | http://www.mntrees.org/ |
| Title | Author | Year | Website |
| Road Design | | | |
| Flexibility in Highway Design | FHWA | 1997 | http://www.fhwa.dot.gov/environment/flex/index.htm |
| A Manual of User Benefit Analysis for Highways, 2nd Addition | AASHTO | 2003 | Available in hardcopy only, purchase at: https://bookstore.transportation.org/Item_details.aspx?id=5 |
| Minnesota Manual on Uniform Traffic Control Devices (MnMUTCD) | MnDOT | 2005 | http://www.dot.state.mn.us/trafficeng/otepubl/mutcd/index.html |
| Minnesota Trunk Highway Administrative Rules | | | https://www.revisor.mn.gov/rules/?id=8810 |
| Minnesota State Aid Rules | MnDOT | 2007 | https://www.revisor.leg.state.mn.us/rules/?id=8820 |

| Title | Author | Year | Website |
|--|-------------------------------------|------|---|
| MnDOT Bikeway Facility Design Manual and Minnesota Trunk Highway Administrative Rules | MnDOT | 2007 | http://www.dot.state.mn.us/bike/bikewaysdesignmanual.html See Minnesota Administrative Rules for Trunk Highway system at: https://www.revisor.mn.gov/rules/?id=8810 for additional design, maintenance, operations and policy guidance and standards |
| MnDOT Road Design Manual | MnDOT | 2004 | http://www.dot.state.mn.us/design/rdm/ |
| MnDOT State Aid Manual | MnDOT | 2007 | http://www.dot.state.mn.us/stateaid/manual/sam07/index.html |
| Lane Widths, Channelized Right Turns, and Right Turn Deceleration Lanes in Urban and Suburban Areas (TRB/NCHRP Project 3-72) | Transportation Research Board | 2006 | http://www.trb.org/TRBNet/ProjectDisplay.asp?ProjectID=826 |
| Relationship of Lane Width to Safety for Urban and Suburban Arterials | Potts, Harwood, and Richard | 2007 | http://www.completestreets.org/webdocs/resources/lanewidth-safety.pdf |
| The Safety and Operational Characteristics of Two-way left Turn Lanes (LRRB Report 2006-05) | Minnesota Local Road Research Board | 2006 | http://www.lrrb.org/pdf/200625.pdf |
| Roundabouts in the United States (TRB/NCHRP Report 572) | Transportation Research Board | 2007 | http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_572.pdf |
| Main Street, when a highway runs through it: A Handbook for Oregon Communities | Oregon DOT | 1999 | http://www.oregon.gov/ODOT/HWY/BIKEPED/docs/mainstreethandbook.pdf |
| Bicycle and Pedestrian Transportation | | | |
| A Policy on Geometric Design of Highways and Streets (aka the "Green Book") 6th Edition | AASHTO | 2011 | Available in hardcopy only, purchase at: https://bookstore.transportation.org/Item_details.aspx?id=109 |

| Title | Author | Year | Website |
|--|---------------|-------------|---|
| United States Department of Transportation (USDOT) policy statement on Bicycle and Pedestrian Accommodation Regulations and Recommendations | USDOT | 2010 | http://www.dot.gov/affairs/2010/bicycle-ped.html |
| Accommodating Bicycle and Pedestrian Travel: A Recommended Approach: A US DOT Policy Statement, Integrating Bicycling and Walking into Transportation Infrastructure | FHWA | | http://www.fhwa.dot.gov/environment/bikeped/design.htm#d4 |
| MnDOT Bicycle Modal Plan | MnDOT | 2005 | http://www.dot.state.mn.us/bike/pdfs/modalplan.pdf |
| MnDOT Bikeway Facility Design Manual | MnDOT | | http://www.dot.state.mn.us/bike/designmanual.html |
| MnDOT Pedestrian Design and Operations Guidance: Use of AASHTO 2004 "Guide for the Planning, Design, and Operation of Pedestrian Facilities" for Planning and Design Guidance | MnDOT | 2008 | http://dotapp7.dot.state.mn.us/edms/download?docId=700100 |
| MnDOT's Adoption of Public Rights-of -Way Accessibility Guidance (PROWAG) | MnDOT | 2010 | http://dotapp7.dot.state.mn.us/edms/download?docId=887529 |
| MnDOT's Design Policy - "Design Excellence through Context Sensitive Design and Solutions" Design Excellence through Context Sensitive Design and Solutions (Technical Memorandum No. 06-19-TS-07) | MnDOT | 2006 | http://dotapp7.dot.state.mn.us/edms/download?docId=700077 |

Table 2: MnDOT Design and Planning Resources

| Title | Description | Website |
|---|---|--|
| MnDOT Design Documents | | |
| AASHTO – A Policy on Geometric Design of Highways and Streets (aka the “Green Book”) (6th Edition 2011) | Contains the latest design practices used as a reference for roadway geometric design. | Available in hardcopy only, purchase at: https://bookstore.transportation.org/collection_detail.aspx?ID=110 |
| AASHTO – Guide for the Planning, Design, and Operation of Pedestrian Facilities, 1st Edition (2004) | Provides guidance on the planning, design, and operation of pedestrian facilities for accommodating pedestrians on public rights-of-way. MnDOT has adopted this guide for pedestrian facilities. See also: http://dotapp7.dot.state.mn.us/edms/download?docId=700100 | Available in hardcopy only, purchase at: https://bookstore.transportation.org/Item_details.aspx?id=119 |
| MnDOT’s Road Design Manual (continually updated) | Establishes uniform design practices statewide and provides some flexibility to pursue cost-effective, aesthetically pleasing, and environmentally sensitive design. Content includes design guidelines and standards for geometric features, section elements, special structures, safety features, and erosion control. This manual is primarily intended for design of the trunk highway system, but can also be used for local roads. | http://www.dot.state.mn.us/design/rdm/index.html |
| MnDOT’s State Aid Manual (2011) | Offers the official guidance, rules and procedures for local state aid transportation projects. Intended to ensure the state maintains a safe, effective, and coordinated highway network on the local network. These rules do not apply to Minnesota state highways. | http://www.dot.state.mn.us/stateaid/sa_manual2011.html |

| Title | Description | Website |
|--|---|--|
| Minnesota Manual on Uniform Traffic Control Devices (2011) | Established to provide a uniform policy for all traffic control devices on all public streets, roads and highways within the State of Minnesota. | http://www.dot.state.mn.us/trafficeng/publ/mutcd/index.html |
| MnDOT's Bicycle Modal Plan (2005) | Intended to provide strategic direction for MnDOT bicycle facilities on the trunk highway system | http://www.dot.state.mn.us/bike/pdfs/modal_plan.pdf See Minnesota Administrative Rules for Trunk Highway system at: https://www.revisor.mn.gov/rules/?id=8810 for additional design, maintenance, operations and policy guidance and standards |
| MnDOT's Bikeway Facility Design Manual (2007) | Intended to be the primary source to serve as guidance to planners, designers and engineers in implementation of MnDOT's vision and mission for bicycle transportation. This manual will be updated to reflect any changes made to the AASHTO Green Book. | http://www.dot.state.mn.us/bike/bikewaysdesignmanual.html See also Minnesota Administrative Rules for Trunk Highway system at: https://www.revisor.mn.gov/rules/?id=8810 for additional design, maintenance, operations and policy guidance and standards |
| MnDOT Bridge Design Manual | Contains MnDOT Bridge Office policies and procedures for the design, evaluation, and rehabilitation of bridges. Except where noted, the design provisions herein employ the Load and Resistance Factor Design (LRFD) methodology set forth by AASHTO. | http://www.dot.state.mn.us/bridge/manuals/LRFD/index.html |

| Title | Description | Website |
|---|--|--|
| <p>MnDOT Standard Plates and Plans</p> <p>Some local agencies have their own standard plates and plans.</p> | <p>The Standard Plates and Plans Manual are developed by MnDOT and approved by FHWA showing standard details of construction and materials for various design elements.</p> | <p>Plates: http://standardplates.dot.state.mn.us/stdplate.aspx</p> <p>Plans: http://standardplans.dot.state.mn.us/StdPlan.aspx</p> |
| <p>MnDOT Traffic Engineering Manual (continually updated)</p> | <p>The purpose of the TEM is to establish uniform guidelines and procedures, primarily for use by personnel at MnDOT. Counties, cities, and local units of government will also find this manual useful when striving for uniformity in traffic engineering throughout the State of Minnesota.</p> | <p>http://www.dot.state.mn.us/trafficeng/publ/index.html</p> |
| <p>MnDOT Planning Documents</p> | | |
| <p>Statewide Transportation Policy Plan: 2009-2028</p> | <p>MnDOT is turning the 2009 Statewide Multimodal Transportation Plan into a comprehensive vision</p> | <p>http://www.dot.state.mn.us/planning/stateplan/index.html</p> |
| <p>Minnesota Statewide Multimodal Transportation Plan</p> | <p>See above Statewide Transportation Policy Plan.</p> | <p>http://www.minnesotagoplan.org/index.html</p> |

| Title | Description | Website |
|---|--|---|
| Statewide Transportation Improvement Program | Minnesota's four year transportation improvement program. The STIP identifies the schedule and funding of transportation projects by state fiscal year (July 1 through June 30). It includes all state and local transportation projects with federal highway and/or federal transit funding along with 100% state funded transportation projects. Rail, port, and aeronautic projects are included for information purposes. The STIP is developed/updated on an annual basis | http://www.dot.state.mn.us/planning/program/stip.html |
| MnDOT ADA Transition Plan | An ADA transition plan is required under federal law to identify accessibility issues that limit program access and sets a schedule for making structural changes to correct accessibility issues. | http://www.dot.state.mn.us/ada/documents/transitionfinal.docx |
| MnDOT State Highway Investment Plan 2009-2028 | The plan providing the link between the Statewide Transportation Policy plan and capital improvements, identifying needs and priorities for the state highway system. | http://www.dot.state.mn.us/planning/stateplan/Final%20Plan%20Documents/Highway%20Investment%20Plans/Statewide/Entire/Statewide%20020-year%20Highway%20Investment%20Plan%202009-2028.pdf |
| MnDOT District Investment Plans 2009-2028 | Similar to above on a district level. | http://www.dot.state.mn.us/planning/stateplan/downloadinvestmentplan.html |
| MnDOT Highway Investment Plan Annual Update 2011-2020 | This report lays out MnDOT's ten year capital investment plan. | http://www.dot.state.mn.us/planning/program/pdf/Final%20Report%202-25-11.pdf |

| Title | Description | Website |
|--|---|---|
| MnDOT Highway Systems Operations Plan | Among other purposes, this plan documents major trends and key factors that directly affect and/or influence maintenance operations work activities. Identifies linkages between maintenance operations activities and Minnesota’s Statewide Transportation Plan and District 20-year Plans. Identifies performance measures in the operations maintenance area, and gather supporting data for tracking MnDOT’s progress toward achieving the performance measures | http://www.dot.state.mn.us/planning/program/hsop.html |
| MnDOT Strategic Highway Safety Plan | Update the Minnesota Comprehensive Highway Safety Plan to achieve compliance with requirements of Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users. Provide an overview and coordination with other safety plans and programs within the state – including the Toward Zero Deaths program, Statewide Heavy Vehicle Safety Plan, Intelligent Transportation System Safety Plan, Central Safety Fund and the Highway Safety Plan MnDOT | http://www.dot.state.mn.us/trafficeng/safety/sfsp/index.html |
| MnDOT Annual Report on Major Highway Projects | Annual report on major highway projects to provide project status | http://www.dot.state.mn.us/planning/program/pdf/MHP2012.pdf |
| MnDOT Freight Plans | Plans to integrate freight transportation into policy, planning, and investment processes | http://www.dot.state.mn.us/ofrw/freightProj.html |
| MnDOT Trunk Highway Bridge Improvement Program | Provides summary of MnDOT’s Bridge Improvement Program and includes lists of bridges | http://www.dot.state.mn.us/planning/program/pdf/CH152AnnualInventoryReport2012.pdf |

| Title | Description | Website |
|--|---|---|
| MnDOT Greater Minnesota Transit Plan 2010-2030 | A 20-year strategic plan that provides directions for the future of public transportation in Greater Minnesota. The plan describes current challenges in the state, examines future transit service needs and analyzes future levels of funding to meet that need | http://www.dot.state.mn.us/transit/reports/transitplan/index.html |