

---

## Appendix A: Resource Library

The resources listed in this section are organized into topic areas (listed below) for ease of navigation. Many of the resources are listed in one topic area have applicability to other topic areas. NFRMPO staff are available to help filter resources down based on the context of a specific project.

- **Rural/Small Town**
- **Urban**
- **Bikeways**
- **Bike Parking**
- **Signalization and Intersections**
- **Pedestrian**
- **Accessibility and Mobility**
- **Maintenance**
- **Roadway**
- **Complete Streets**
- **Design Flexibility**
- **Measurement and Monitoring**
- **Quick Win and Tactical Urbanism**
- **Infrastructure and Safety Audits**
- **Resilience and Response**
- **Local and State Policies and Standards**

### Rural / Small Town

- Small Town and Rural Multimodal Networks (FHWA 2016) - [https://www.fhwa.dot.gov/environment/bicycle\\_pedestrian/publications/small\\_towns/fhwahep17024\\_lg.pdf](https://www.fhwa.dot.gov/environment/bicycle_pedestrian/publications/small_towns/fhwahep17024_lg.pdf)
- Colorado Downtown Streets (DOLA, CDOT, CDPHE 2020) - [https://drive.google.com/file/d/1-e25iz08Sry8JVX7aFGxy15\\_a-JoguGu/view?authsuer=0](https://drive.google.com/file/d/1-e25iz08Sry8JVX7aFGxy15_a-JoguGu/view?authsuer=0)

### Urban

- Urban Street Design Guide (NACTO 2013) - <https://nacto.org/publication/urban-street-design-guide/>
- Urban Bikeway Design Guide (NACTO 2011) - <https://nacto.org/publication/urban-bikeway-design-guide/>

- Transit Street Design Guide (NACTO 2016) - <https://nacto.org/publication/transit-street-design-guide/>

## Bikeways

- Bikeway Selection Guide (FHWA 2019) - <https://highways.dot.gov/sites/fhwa.dot.gov/files/2022-07/fhwasa18077.pdf>

### Supplementary Documents:

- [Traffic Analysis and Intersection Considerations to Inform Bikeway Selection \(FHWA 2021\) - https://highways.dot.gov/sites/fhwa.dot.gov/files/2022-06/FHWA-SA-21-010\\_Traffic\\_Analysis\\_Intersection\\_Considerations.pdf](https://highways.dot.gov/sites/fhwa.dot.gov/files/2022-06/FHWA-SA-21-010_Traffic_Analysis_Intersection_Considerations.pdf)
- [On-Street Motor Vehicle Parking and the Bikeway Selection Process \(FHWA 2021\) - https://highways.dot.gov/sites/fhwa.dot.gov/files/2022-06/FHWA-SA-21-009\\_On\\_Street\\_Motor\\_Vehicle\\_Parking.pdf](https://highways.dot.gov/sites/fhwa.dot.gov/files/2022-06/FHWA-SA-21-009_On_Street_Motor_Vehicle_Parking.pdf)
- [Guide for the Development of Bicycle Facilities: 5<sup>th</sup> Edition \(AASHTO 2024\) - https://store.transportation.org/item/collectiondetail/267](https://store.transportation.org/item/collectiondetail/267)
- [Separated Bike Lane Planning and Design Guide \(FHWA 2015\) - https://www.fhwa.dot.gov/environment/bicycle\\_pedestrian/publications/separated\\_bikelane\\_pdg/separatedbikelane\\_pdg.pdf](https://www.fhwa.dot.gov/environment/bicycle_pedestrian/publications/separated_bikelane_pdg/separatedbikelane_pdg.pdf)
- [Rethinking Streets for Bikes: An Evidence-Based Guide to 25 Bike-Focused Street Transformations \(NITC, University of Oregon 2019\) - http://rethinkingstreets.com/](http://rethinkingstreets.com/)
- [BIKESAFE: Bicycle Safety Guide and Countermeasure Selection System \(FHWA\) - http://www.pedbikesafe.org/bikesafe/](http://www.pedbikesafe.org/bikesafe/)

## Bike Parking

- [Essentials of Bike Parking, Selecting and Installing Bicycle Parking that Works \(APBP 2015\) - https://www.apbp.org/Publications](https://www.apbp.org/Publications)
- [FHWA University Course on Bicycle and Pedestrian Transportation Lesson 17: Bicycle Parking and Storage \(FHWA 2006\) - https://www.fhwa.dot.gov/publications/research/safety/pedbike/05085/pdf/lesson17lo.pdf](https://www.fhwa.dot.gov/publications/research/safety/pedbike/05085/pdf/lesson17lo.pdf)

## Signalization and Intersections

- [Manual on Uniform Traffic Control Devices \(MUTCD\) \(FHWA 2023\) - https://mutcd.fhwa.dot.gov/kno\\_11th\\_Edition.htm](https://mutcd.fhwa.dot.gov/kno_11th_Edition.htm)
- [Guide to Improve Pedestrian and Bicyclist Safety at Intersections – NCHRP Report 926 \(TRB 2020\) - https://www.nap.edu/catalog/25808/guidance-to-improve-pedestrian-and-bicyclist-safety-at-intersections](https://www.nap.edu/catalog/25808/guidance-to-improve-pedestrian-and-bicyclist-safety-at-intersections)

- Don't Give Up at the Intersection: Designing All Ages and Abilities Bicycle Crossings (NACTO 2019) - <https://nacto.org/publication/urban-bikeway-design-guide/dont-give-up-at-the-intersection/>
- Guide for Improving Pedestrian Safety at Uncontrolled Crossing Locations (USDOT 2018) - [https://safety.fhwa.dot.gov/ped\\_bike/step/docs/STEP\\_Guide\\_for\\_Improving\\_Ped\\_Safety\\_at\\_Unsig\\_Loc\\_3-2018\\_07\\_17-508compliant.pdf](https://safety.fhwa.dot.gov/ped_bike/step/docs/STEP_Guide_for_Improving_Ped_Safety_at_Unsig_Loc_3-2018_07_17-508compliant.pdf)

## Pedestrian

- Guide for the Planning, Design, and Operation of Pedestrian Facilities (AASHTO 2004) - <https://highways.dot.gov/safety/pedestrian-bicyclist/safety-tools/43-guide-planning-design-and-operation-pedestrian>
- PEDSAFE: Pedestrian Safety Guide and Countermeasure Selection System (FHWA) - <http://www.pedbikesafe.org/pedsafe/>
- How to Develop a Pedestrian Safety Action Plan (FHWA 2009) - <https://highways.dot.gov/sites/fhwa.dot.gov/files/2022-06/fhwasa0512.pdf>
- Pedestrian Safety Guide for Transit Agencies (FHWA 2008) - <https://highways.dot.gov/safety/pedestrian-bicyclist/safety-tools/pg-24-43-pedestrian-safety-guide-transit-agencies>

## Accessibility and Mobility

- Americans with Disabilities Act Guidelines (ADAAG) (United States Access Board 2002) - <https://www.access-board.gov/guidelines-and-standards/buildings-and-sites/about-the-ada-standards/background/adaag>
- Public Right-of-Way Accessibility Guidelines (PROWAG) – Proposed accessibility guidelines for pedestrian facilities in the public right-of-way (United States Access Board 2011) - <https://www.access-board.gov/guidelines-and-standards/streets-sidewalks/public-rights-of-way/proposed-rights-of-way-guidelines>
- Engaging People with Disabilities in Street Planning and Design (Toole Design 2020) - <https://tooledesign.com/insights/2020/07/toole-designs-resource-guide-for-engaging-people-with-disabilities/>

## Maintenance

- Guide for Maintaining Pedestrian Facilities for Enhanced Safety (FHWA 2013) - [https://safety.fhwa.dot.gov/ped\\_bike/tools\\_solve/fhwasa13037/fhwasa13037.pdf](https://safety.fhwa.dot.gov/ped_bike/tools_solve/fhwasa13037/fhwasa13037.pdf)
- Winter Bike Lane Maintenance: A Review of National and International Best Practices (Alta Planning and Design 2014) –

- <https://altago.com/wp-content/uploads/winter-bike-riding-white-paper-alta.pdf>
- Improving Pedestrian and Bicycle Connectivity During Rehabilitation of Existing Bridges (PBIC 2016) - [http://www.pedbikeinfo.org/cms/downloads/PBIC\\_WhitePaper\\_Bridges.pdf](http://www.pedbikeinfo.org/cms/downloads/PBIC_WhitePaper_Bridges.pdf)
- Incorporating On-Road Bicycle Networks into Resurfacing Projects (FHWA 2016) - [https://www.fhwa.dot.gov/environment/bicycle\\_pedestrian/publications/resurfacing/resurfacing\\_workbook.pdf](https://www.fhwa.dot.gov/environment/bicycle_pedestrian/publications/resurfacing/resurfacing_workbook.pdf)

## Roadway

- The Green Book: A Policy on Geometric Design of Highways and Streets 7<sup>th</sup> Edition (AASHTO 2018) - <https://aashtojournal.org/2018/09/28/aashto-releases-7th-edition-of-its-highway-street-design-green-book/>

## Complete Streets

- Complete Streets Local Policy Workbook (Smart Growth America 2013) <https://smartgrowthamerica.org/resources/complete-streets-local-policy-workbook/>
- Complete Streets Implementations: A Resource Appendix (Smart Growth America) - [https://smartgrowthamerica.org/wp-content/uploads/2016/09/Implementing-Complete-Streets-Policy\\_Brief-Guidebook.pdf](https://smartgrowthamerica.org/wp-content/uploads/2016/09/Implementing-Complete-Streets-Policy_Brief-Guidebook.pdf)
- Complete Streets Policies at the Local Level: Model comprehensive plan language, model local ordinance, and model local resolution (ChangeLab Solutions 2014) <https://www.changelabsolutions.org/product/complete-streets-policies-local-level>
- Elements of a Complete Streets Policy (Smart Growth America 2018) - <https://smartgrowthamerica.org/resources/elements-complete-streets-policy/>
- Rethinking Streets: An Evidence-Based Guide to 25 Complete Street Street Transformations (NITC, University of Oregon 2019) - <http://rethinkingstreets.com/>
- Streetmix: Street Layout Visioning Tool - <https://streetmix.net/>

## Flexibility

- Achieving Multimodal Networks: Applying Design Flexibility and Reducing Conflicts (FHWA 2016) - [https://www.fhwa.dot.gov/environment/bicycle\\_pedestrian/publications/multimodal\\_networks/fhwahep16055.pdf](https://www.fhwa.dot.gov/environment/bicycle_pedestrian/publications/multimodal_networks/fhwahep16055.pdf)
- Bicycle and Pedestrian Facility Design Flexibility Memorandum (FHWA 2013) - [https://www.fhwa.dot.gov/environment/bicycle\\_pedestrian/guidance/design\\_flexibility.cfm](https://www.fhwa.dot.gov/environment/bicycle_pedestrian/guidance/design_flexibility.cfm)

- Transforming Street and Sidewalk Management from a Liability into an Opportunity (Passport and Smart Cities Dive 2020) - <https://resources.industrydive.com/transforming-street-and-sidewalk-management-from-a-liability-into-an-opportunity?ignoremxtracking=mxtrue&mxcp=0cee738d-2986-4240-a1cb-8c4861c1443e&omt=1&result=success>

## Measurement and Monitoring

- Guidebook for Developing Pedestrian and Bicycle Performance Measures (FHWA 2016) - [https://www.fhwa.dot.gov/environment/bicycle\\_pedestrian/publications/performance\\_measures\\_guidebook/pm\\_guidebook.pdf](https://www.fhwa.dot.gov/environment/bicycle_pedestrian/publications/performance_measures_guidebook/pm_guidebook.pdf)
- Trail User Survey Workbook: How to Conduct a Survey and Win Support for Your Trail (Rails-to-Trails Conservancy 2005) - <https://www.railstotrails.org/resourcehandler.ashx?name=trail-user-survey-workbook-how-to-conduct-a-survey-and-win-support-for-your-trail&id=3543&fileName=UserSurveyMethodology.pdf>
- Pedestrian and Bicycle Crash Analysis Tool (PBCAT) (PBIC) - [http://www.pedbikeinfo.org/pbcats\\_us/](http://www.pedbikeinfo.org/pbcats_us/)
- Guide to Bicycle and Pedestrian Count Programs (Portland State University) - [https://trec.pdx.edu/sites/default/files/IBPI Guide to Bicycle %26 Pedestrian Count Programs 0.pdf](https://trec.pdx.edu/sites/default/files/IBPI%20Guide%20to%20Bicycle%20and%20Pedestrian%20Count%20Programs%200.pdf)
- Conducting Bicycle and Pedestrian Counts: A Manual for Jurisdictions in Los Angeles County and Beyond (Southern California Association of Governments) - [http://media.metro.net/projects\\_studies/call\\_projects/images/metroscag\\_bikepedcounttrainingmanual.pdf](http://media.metro.net/projects_studies/call_projects/images/metroscag_bikepedcounttrainingmanual.pdf)
- Bicycle and Pedestrian Data Collection Manual (MnDOT) - <https://www.dot.state.mn.us/research/reports/2017/201703.pdf>
- Bicycled and Pedestrian Count Programs: Summary of Practice and Key Resources (PBIC) - [https://www.pedbikeinfo.org/cms/downloads/PBIC\\_Infobrief\\_Counting.pdf](https://www.pedbikeinfo.org/cms/downloads/PBIC_Infobrief_Counting.pdf)

## Quick Win and Tactical Urbanism Projects

- Quick Builds for Better Streets: A New Project Delivery Model for U.S. Cities (PeopleForBikes 2016) - [https://b3cdn.net/bikes/675cdae66d727f8833\\_kzm6ikutu.pdf](https://b3cdn.net/bikes/675cdae66d727f8833_kzm6ikutu.pdf)
- Tactical Urbanist's Guide to Materials and Design Version 1.0 (Street Plans Collaborative 2016) - <https://issuu.com/streetplanscollaborative/docs/tu-guide-to-materials-and-design-v1>
- The Open Streets Guide (Street Plans Collaborative and Alliance for Biking & Walking 2012) - <https://issuu.com/streetplanscollaborative/docs/openstreetsproject>

- Asphalt Art Guide: How to Reclaim Roadways and Public Infrastructure with Art (Bloomberg Associates 2019) - <https://issuu.com/streetplanscollaborative/docs/asphalt-art-guide>
- Arts, Culture and Transportation: A Creative Placemaking Field Scan (Smart Growth America 2017) - <https://smartgrowthamerica.org/resources/arts-culture-transportation-creative-placemaking-field-scan/>

## Infrastructure and Safety Audits

### Walking Audits

- Walk Audit Tool Kit and Leader Guide (AARP 2016) - <https://www.aarp.org/livable-communities/getting-around/info-2014/aarp-walk-audit-tool-kit.html>
- Audit Tools [Guidelines, Prompt Lists, Checklists, and more] (PBIC) - [https://www.pedbikeinfo.org/resources/resources\\_details.cfm?id=5085](https://www.pedbikeinfo.org/resources/resources_details.cfm?id=5085)
- Sidewalks and Streets Survey: Tips, Tools, and Resources for Organizers (AARP 2017) - <https://createthegood.aarp.org/content/dam/aarp/ctg/pdf/2019/sidewalks-streets.pdf>
- Tips of Leading a Walk Audit (Mark Fenton 2003) - <http://markfenton.com/resources/TipsLeadingWalkAuditFenton.pdf>
- Do A Walk Audit: Forms and Templates (Victoria Walks) - [https://www.victoriawalks.org.au/Walking\\_audit/](https://www.victoriawalks.org.au/Walking_audit/)
- How to Conduct a Walk Audit in Your Community – Quick Video Guide for Assessing Your Neighborhood Walkability (America Walks) - <https://americawalks.org/how-to-conduct-a-walk-audit-in-your-community-quick-guide-for-assessing-your-neighborhood-walkability/>
- Virtual Walk Audits: The Good, the Bad & the Ugly (Ian Thomas, Project for Public Places 2020) - <https://www.pps.org/article/virtual-walk-audits-the-good-the-bad-and-the-ugly-of-walkability-accessibility>

### Road Safety Audits

- Pedestrian Road Safety Audit Guidelines and Prompt Lists (FHWA 2020) - [https://safety.fhwa.dot.gov/ped\\_bike/tools\\_solve/docs/fhwasa20042.pdf](https://safety.fhwa.dot.gov/ped_bike/tools_solve/docs/fhwasa20042.pdf)

### Resilience and Response

- Streets for Pandemic Response and Recovery (NACTO 2020) - [https://nacto.org/wp-content/uploads/2020/09/Streets\\_for\\_Pandemic\\_Response\\_Recovery\\_Full\\_20-09-24.pdf](https://nacto.org/wp-content/uploads/2020/09/Streets_for_Pandemic_Response_Recovery_Full_20-09-24.pdf)

- Rethinking Streets During COVID-19: An Evidence-Based Guide to 25 Quick Redesigns for Physical Distancing, Public Use, and Spatial Equity (NITC, SCI, University of Oregon 2021) - <http://rethinkingstreets.com/>
- Local Actions to Support Walking and Cycling During Social Distancing Dataset (PBIC 2020) - [http://pedbikeinfo.org/resources/resources\\_details.cfm?id=5209](http://pedbikeinfo.org/resources/resources_details.cfm?id=5209)
- COVID-19 Local Action Tracker (National League of Cities 2020) - [https://covid19.nlc.org/resources/covid-19-local-action-tracker/?cmp=EMC-DSM-NLC-LC-HOMFAM-202000401\\_LivableCommunities\\_SC4N\\_899300\\_1315603-040120-F4-Covidtracker-Text-CTRL-4474632&encparam=OPoKpRs/Z4yCGK43kJPcejXKSOPCQDeakRRsB1lOSBg13zE/l%2B/8N9MZr80sGTJ](https://covid19.nlc.org/resources/covid-19-local-action-tracker/?cmp=EMC-DSM-NLC-LC-HOMFAM-202000401_LivableCommunities_SC4N_899300_1315603-040120-F4-Covidtracker-Text-CTRL-4474632&encparam=OPoKpRs/Z4yCGK43kJPcejXKSOPCQDeakRRsB1lOSBg13zE/l%2B/8N9MZr80sGTJ)
- COVID-19 Livable Streets Response Strategies (Mike Lydon 2021) - <https://docs.google.com/spreadsheets/d/1tjam1v0NLUWkYedla4dVOL49pyWIPlyGwRB0DOnm3Ls/edit#gid=2048567740>
- Planning Considerations for Walking and Rolling to School in Fall 2020 (PBIC 2020) - [http://pedbikeinfo.org/cms/downloads/Planning%20considerations%20for%20walking%20and%20biking%20to%20school%20in%20fall%202020\\_FINAL.pdf](http://pedbikeinfo.org/cms/downloads/Planning%20considerations%20for%20walking%20and%20biking%20to%20school%20in%20fall%202020_FINAL.pdf)
- Re-envisioning School Streets: Creating More Space for Children and Families (PBIC 2020) - [http://www.pedbikeinfo.org/cms/downloads/2161\\_PBIC\\_InfoBrief\\_SchoolStreets.pdf](http://www.pedbikeinfo.org/cms/downloads/2161_PBIC_InfoBrief_SchoolStreets.pdf)

## Local and State Policies and Standards

Elevating Bicycle and Pedestrian Opportunities in Colorado -

*“...the Department shall include the needs of bicyclists and pedestrians in the planning, design, operation and maintenance of transportation facilities as a necessary component of all programs and activities.” (CDOT 2017)*

- Policy Directive 1602.0 - <https://www.codot.gov/programs/bikeped/documents/1602-0-policy-bike-pedestrian>
- Procedural Directive 1602.1 - <https://www.codot.gov/programs/bikeped/documents/1602-1-2013-bicycle-and-pedestrian-policy>
- Larimer County Urban Area Street Standards (LCUASS) (Larimer County 2021) - <https://www.larimer.org/engineering/standards-and-guides/urban-area-street-standards>