

N|V|5

NJ STATE LEGISLATURE / JAN. 2023

- The Complete Streets policy shall require the consideration and implementation of design elements and infrastructure improvement projects that promote the ability of persons diagnosed with autism spectrum disorder and persons with intellectual and developmental disabilities to travel independently.
- NJDOT-BSBPP asked the NV5 Team (NV5, Toole Design Group, and Civic Eye Collaborative) to facilitate this work.



NJDOT COMPLETE STREETS - CONTEXT



HOW DID WE GET HERE?

- Federal Funding + NJDOT State Initiatives + Regional Plans + Municipal Policies
- Evolution of transportation policy + funding over time

Programs... 1990 ISTEA 1998 TEA-21 2005 SAFETEA-LU 2012 MAP-21 2016 FAST ACT 2021 Infrastructure Investment & Jobs Act

B/P facility planning, traffic calming, SRTS, bike/ped safety, transitfriendly/TOD, senior mobility, micromobility, bike share, e-bikes/scooters, green/sustainable streets, smart streets, freight, level of traffic stress, curbside management; protected bicycle facilities, complete streets, trails & greenways, ADA/PROWAG,

NJDOT COMPLETE STREETS - CONTEXT



Perspectives...

- -People-focused streets
- -Universal Design
- -Active Transportation
- -Safe System Approach
 -Equity & Engagement Tools
 - -Placemaking

What's missing...

- -Neurodivergence
- -Intellectual disabilities
- -Developmental disabilities
- -Autism spectrum

IDD/inclusive design expands beyond access, mobility, safety – it broadens EQUITY and ECONOMIC PARTICIPATION



NJDOT & CONSULTANT TEAM SCOPE OF WORK



POLICY AND BEST PRACTICE REVIEW

- Summary of policies, design guides, and best practices
- Identify design standards that need revision to meet the needs of people with IDDs, or for which more research is needed



 Internal NJDOT representatives from Traffic, Design, Civil Rights, and others

IMPLEMENTATION ACTION PLAN

- Internal NJDOT policy, procedures, guides
- Executive Summary for Public (external)









Collaborating With



NJDOT & CONSULTANT TEAM SCOPE OF WORK



IMPLEMENTATION ACTION PLAN

Future CS/IDD Recommendations & Activities

- Case studies
- Videos
- Webinar series
- Training Materials & Workshops
- Speaker's Bureau
- Pilot or Demonstration Projects

NJDOT & CONSULTANT TEAM SCHEDULE



Policy & Best Practices

August - November 2023

Working Group

August – December 2023

Implementation Action Plan

September 2023 – January 2024



- 1. Initiated Outreach to national Subject Matter Experts/Organizations
 - Institute of Transportation Engineers (ITE)
 - Association of Pedestrian & Bicycle Professionals (APBP)
 - United State Access Board/PROWAG
- 2. Reviewed key subject matter design documents related to IDDs
- 3. Conducted 1st Working Group September 2023

NJDOT & CONSULTANT TEAM FINDINGS TO-DATE



KEY TAKEAWAYS – BIG PICTURE

- Limited existing research and guidance
- It's often about balancing needs of people with different types of disability
- Inclusion of caregivers in engagement process is critical
- Travel training is key
- Certain specific design issues repeatedly come up, and appear to be particularly relevant

Proven Safety Countermeasures SPEED MANAGEMENT **Speed Safety Appropriate Speed** Variable Speed Limits Cameras Limits for All Road Users **ROADWAY DEPARTURE Enhanced Delineation** Wider Edge Lines Strips and Stripes on for Horizontal Curves **Two-Lane Roads** SafetyEdgeSM **Median Barriers** INTERSECTIONS **Dedicated Lett- and Backplates** with **Corridor Access** Retroreflective Right-Turn Lanes at ntersections Systemic Application of Multiple Low-Cost Reduced Left-Turn Roundabouts Countermeasures at Conflict Intersections Stop-Controlled **Yellow Change** PEDESTRIANS/BICYCLES **Rectangular Rapid Crosswalk Visibility** Flashing Beacons **Bicycle Lanes Enhancements Medians and Pedestrian Leading Pedestrian Pedestrian Hybrid** Refuge Islands in Urban and Suburban Areas **Road Diets (Roadway** Reconfiguration) CROSSCUTTING **Pavement Friction Local Road Safety Plans**

Road Safety Audit

FHWA Proven Safety Countermeasures

FHWA-SA-21-082