

### Proposed Rule Adoption

**Bike Temporary Traffic Control Details** 

Darren Ujano, P.E., Supervising Engineer | Nov. 15, 2022





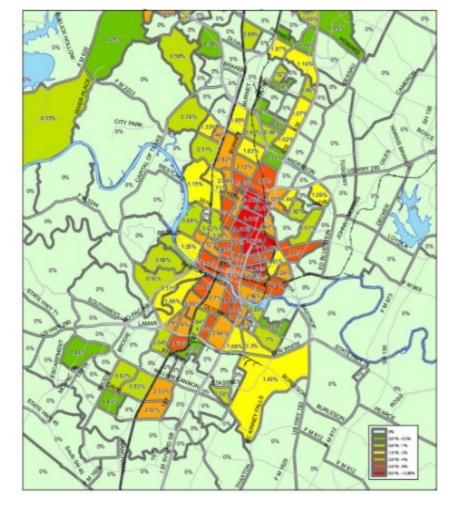
#### **Summary of Changes**

- Brief History of Bike Temporary Traffic Control Details
- Imagine you're the cyclist...
- Summary of Key Changes for New Bike Traffic Control Details
- Go over Details in Detail
- Question



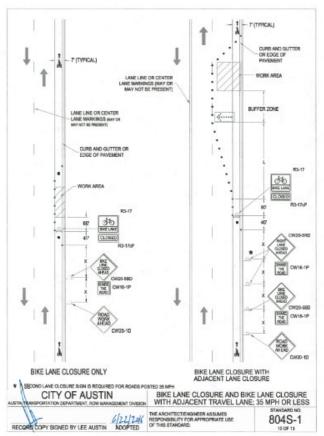
- In 2009, Austin Bicycle Master Plan was incorporated with 2014 updates:
  - "Austin is a place where people of all ages and abilities bicycle comfortably and safely for transportation, fitness and enjoyment..."
- 2016 Mobility Bond supported additional infrastructure for bike facilities
- 2016 The Austin Transportation Dept. developed and sealed Bike Temporary Traffic Control Details (however, these details were never adopted in the Rules Posting Process)

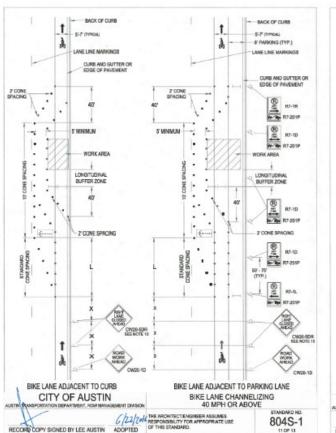
CITY OF AUSTIN BICYCLE MODE SHARE TO WORK FROM 2011. EXISTING BICYCLING IS CONCENTRATE CENTRAL AUSTIN WHERE THERE IS A HIGH PORTION OF SHORT TRIPS AND MIX OF USES.

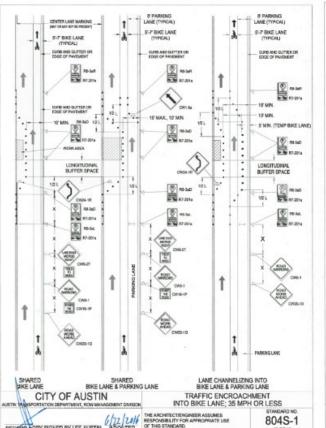


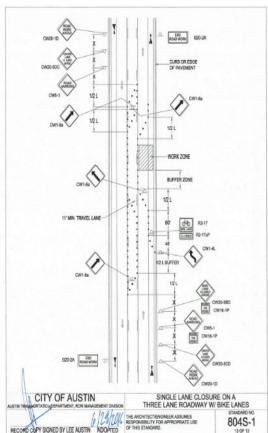


These are the current ATD details sealed in 2016:









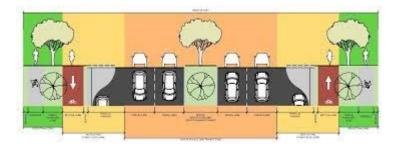


- In 2019, City Council adopted the Austin Strategic Mobility Plan (ASMP)
  - "Austin faces growing demands on our existing transportation network resulting in increased traffic congestion and travel delays"
- Multimodal uses of transportation (construction of bike lanes, urban trails etc.) to achieve 50/50
- Introduces a unique challenge in all cities and states regarding cyclist accommodations
- By 2021, Austin's overall bicycle network grew to 215 miles



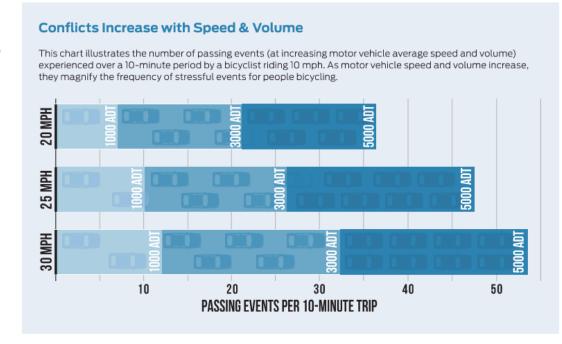


- In 2022, the newly adopted Transportation Criteria Manual outlined specific guidelines and requirements for Bicyclist Accommodations under Section 8 – Temporary Traffic Control
- Primary highlights are below:
  - Prioritization of cyclist accommodations around work zones
  - Shared Roadway Conditions
    - Merging in the same direction
    - Low-volume roadways with ADT less than 5,000 ADT
    - Posted speed limit of 30 MPH or less
    - Impacted facility is not on the City All Ages and Ability Network (AAA)
    - Engineering Judgement (Length of Work Zone, Grade, Surface Conditions, etc.)





- Would you want to merge with traffic on Lamar or Airport?
  - Lamar has ~29,000 Average Daily Traffic (ATD)
  - Airport has ~20,000 Average Daily Traffic (ATD)
- Hence adoption of roadways with 5,000 ADT or less
- This can typically fit under ASMP Streets that are Level 1
- ASMP Streets that are 3 and higher are prohibited
- ASMP Street Level 2 will require research





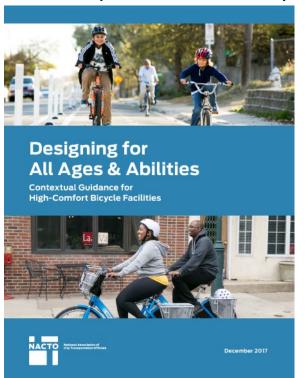


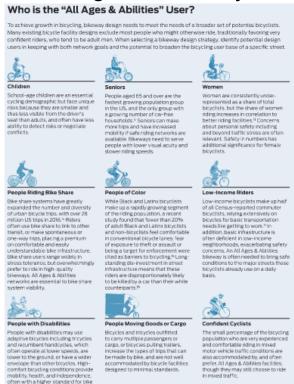
- Would you want to merge on roads that are higher than 30 MPH?
  - Slaughter has speeds up to 45 MPH
- Supported by NACTO and published guidelines from DOTs
  - Higher speeds increase risk of collision
  - Higher speeds increase frequency of vehicles
  - High Cyclist Stress Levels
  - Higher Risk of serious injury
- Cyclist merging can be considered if less than 30 MPH





- Would you want to merge into a "shared roadway" with your kids, elderly, etc.?
- Require a dedicated path for All Ages and Ability





Contextual Guidance for Selecting All Ages & Abilities Bikeways				
Roadway Context				
Target Motor Vehicle Speed	Target Max. Motor Vehicle Volume (ADT)	Motor Vehicle Lanes	Key Operational Considerations	All Ages & Abilities Bicycle Facility
Any		Any	Any of the following: high curbside activity, frequent buses, motor vehicle congestion, or turning conflicts <sup>‡</sup>	Protected Bicycle Lane
< 10 mph	Less relevant	No centerline, or single lane one-way	Pedestrians share the roadway	Shared Street
≤ 20 mph	≤ 1,000 − 2,000		< 50 motor vehicles per hour in the peak direction at peak hour	Bicycle Boulevard
≤ 25 mph	≤ 500 −1,500			
	≤ 1,500 – 3,000	Single lane each direction, or single lane one-way	Low curbside activity, or low congestion pressure	Conventional or Buffered Bicycle Lane, or Protected Bicycle Lane
	≤ 3,000 − 6,000			Buffered or Protected Bicycle Lane
	Greater than 6,000			Protected Bicycle Lane
	Any	Multiple lanes per direction		
Greater than 26 mph <sup>†</sup>	≤ 6,000	Single lane each direction	Low curbside activity, or low congestion pressure	Protected Bicycle Lane, or Reduce Speed
		Multiple lanes per direction		Protected Bicycle Lane, or Reduce to Single Lane & Reduce Speed
	Greater than 6,000	Any	Any	Protected Bicycle Lane, or Bicycle Path
High-speed limited access roadways, natural corridors, or geographic edge conditions with limited conflicts		Any	High pedestrian volume	Bike Path with Separate Walkway or Protected Bicycle Lane
			Low pedestrian volume	Shared-Use Path or Protected Bicycle Lane



- Would you want to "share the road" with work zone lengths that are unreasonably long?
- Would you want to "share the road" where the grade is too steep? (i.e. Spicewood Springs)
- Would you want to "share the road" where the surface is not acceptable/safe?
- Engineering Judgement is required







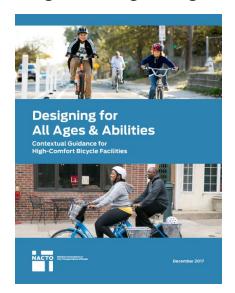
Proposed Rule Adoption – Bike TCP Details

11/15/2022

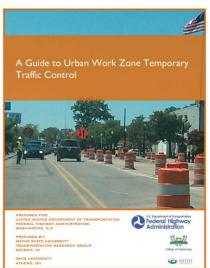


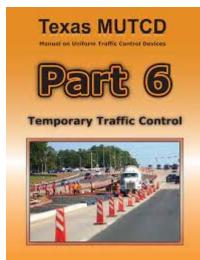
#### Summary of Key Changes

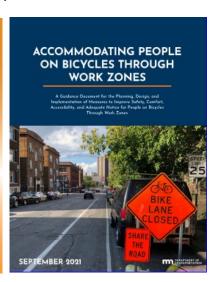
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- Posted speed limit of 30 MPH or less
- Impacted facility is not on the City All Ages and Ability Network (AAA)
- Engineering Judgement (Length of Work Zone, Grade, Surface Conditions, etc.)











# GOING OVER DETAILS IN DETAIL



## QUESTIONS

