

STATE + HILL STREETS IMPROVEMENTS PROJECT

CITY OF ANN ARBOR

STATE + HILL PROJECT

SCOPE OF WORK

- **State Street (South U to Packard and Hoover to Granger)**
 - Water main consolidation
 - Resurfacing
 - Safety Improvements
- **Hill Street (5th Ave to S. Forest)**
 - Water main replacement
 - Resurfacing
 - Safety improvements

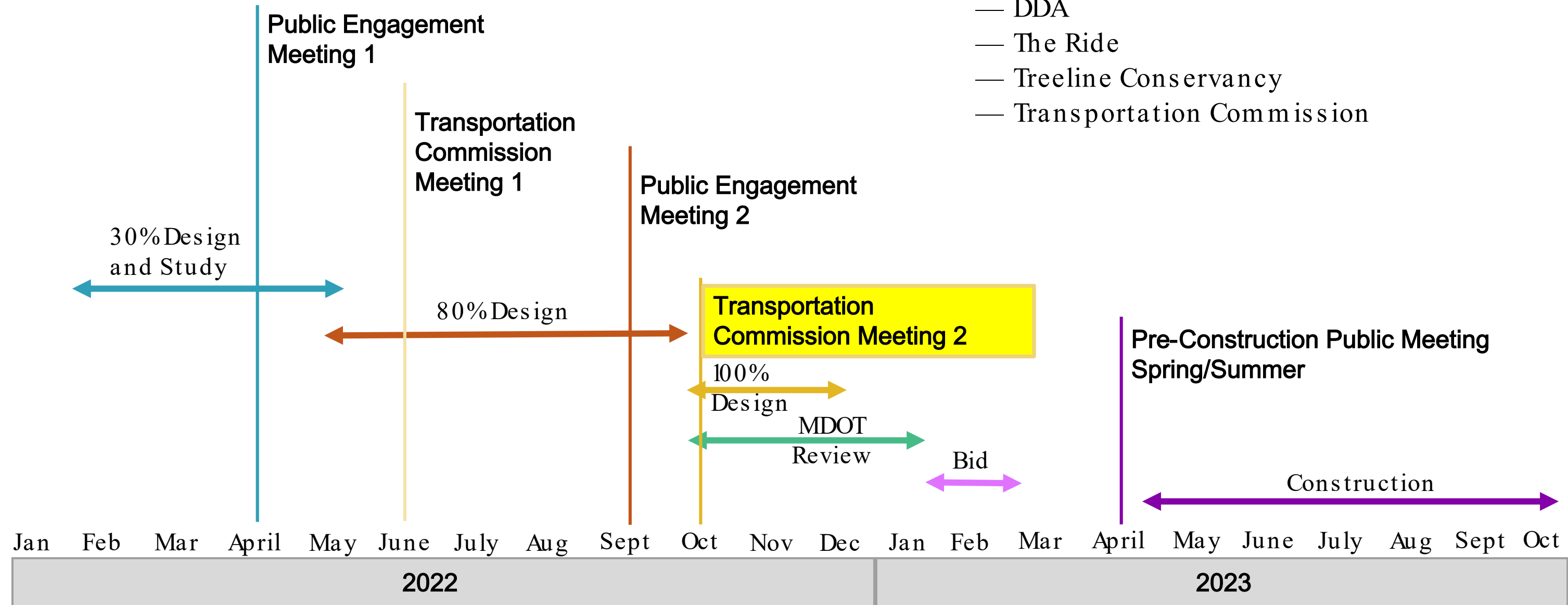


PROJECT SCHEDULE + TIMELINE

STATE + HILL PROJECT

Engagement & Stakeholders

- U-M Facilities / Students / Athletics
- Commercial businesses
- Residents/tenants
- Commuters (bike, walk bus, vehicle)
- DDA
- The Ride
- Treeline Conservancy
- Transportation Commission



PROJECT GOALS

STATE+HILL PROJECT

State St

CROSSWALK SAFETY

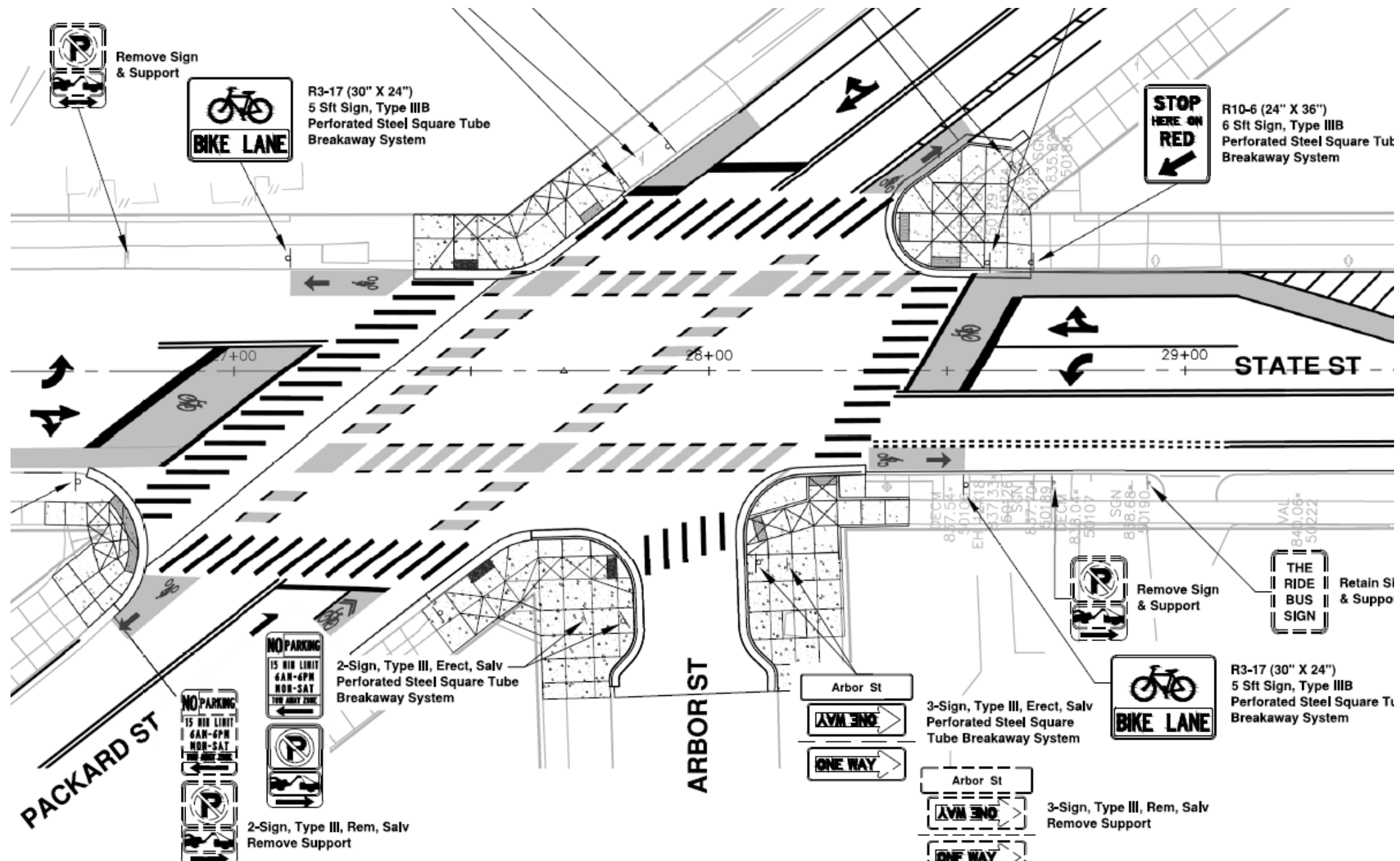
ENHANCE SAFETY AND VISIBILITY AT CROSSWALKS

- Enhanced Pavement Markings
- Pedestrian Signage
- Positive Contrast Street Lighting
- Enhanced Controlled Intersection Signing with Reflective Post Sheeting
- Bump-outs
- Rectangular Rapid-Flashing Beacons (RRFB)
- Accessible Pedestrian Signals (non-visual crosswalk assistance) or APS-ready



NON-MOTORIZED SAFETY

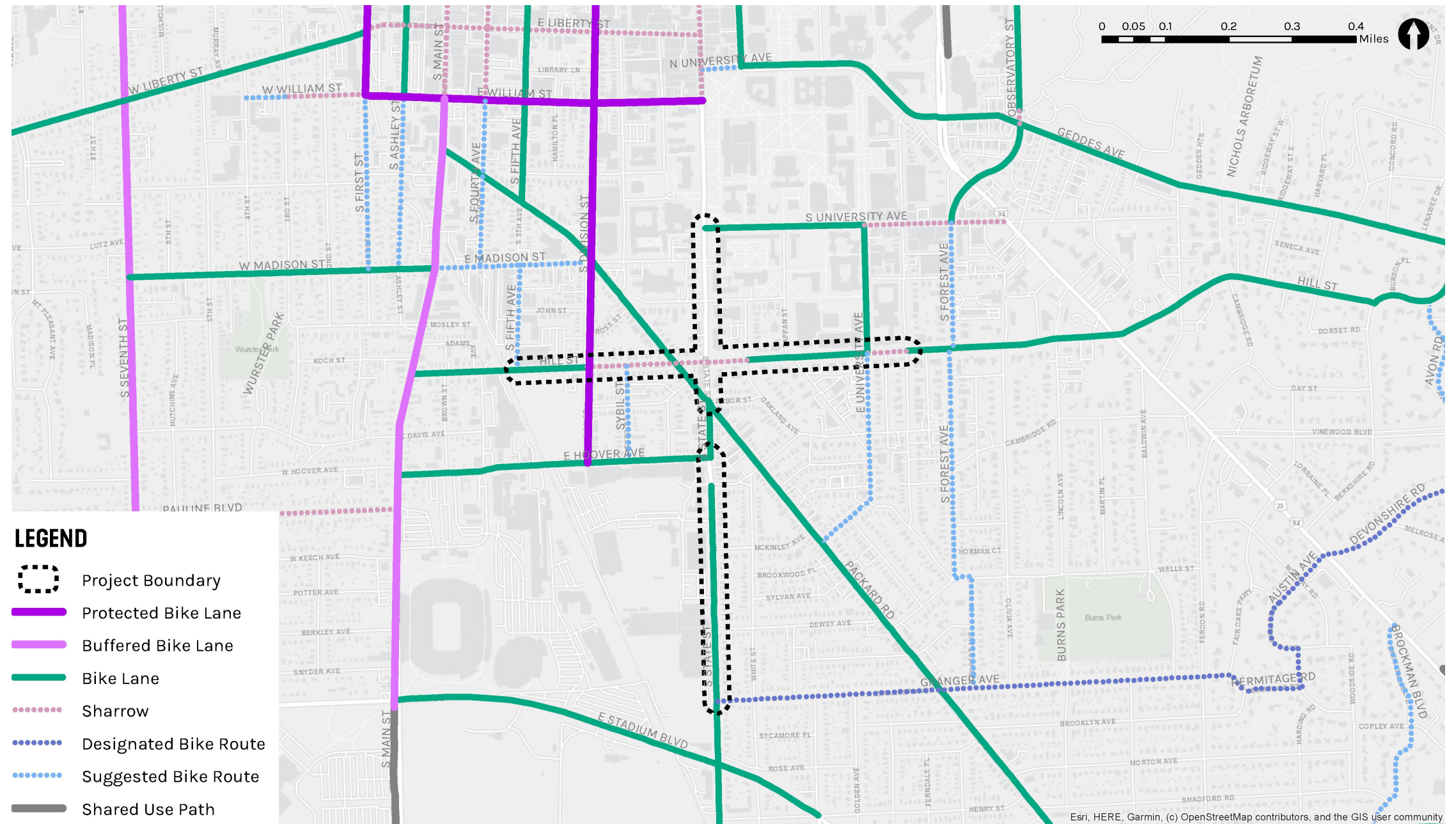
ENHANCE PAVEMENT MARKINGS AT INTERSECTIONS



BICYCLE INFRASTRUCTURE

EXPANDING THE ALL AGES & ABILITIES INFRASTRUCTURE

- Gaps in bicycle network today in the project area
- Desire for an all-ages and abilities friendly facility and network



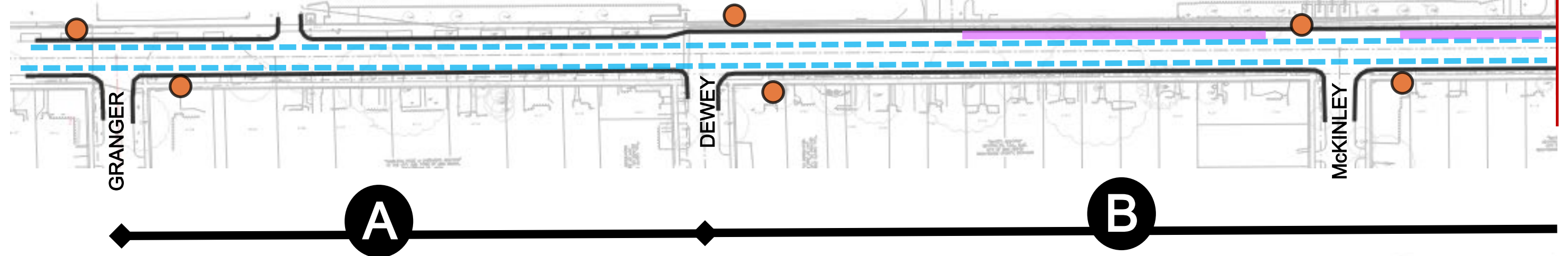
DESIGN

STATE+HILL PROJECT

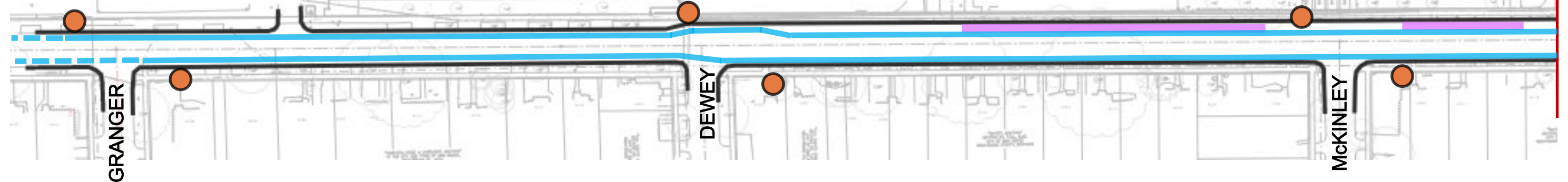
State St


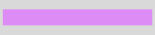
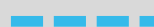
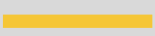
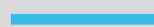



STATE STREET: GRANGER TO ARCH

EXISTING CONFIGURATION



PROPOSED CONFIGURATION



 SHARED LANE (ENHANCED)	 CURBSIDE LANE (PARKING)
 CONVENTIONAL BIKE LANE	 ADDITIONAL TURN LANE
 BUFFERED BIKE LANE	BUS STOPS
	 IN-BIKE LANE
	 OUT OF TRAVEL LANE
	 IN-TRAVEL LANE

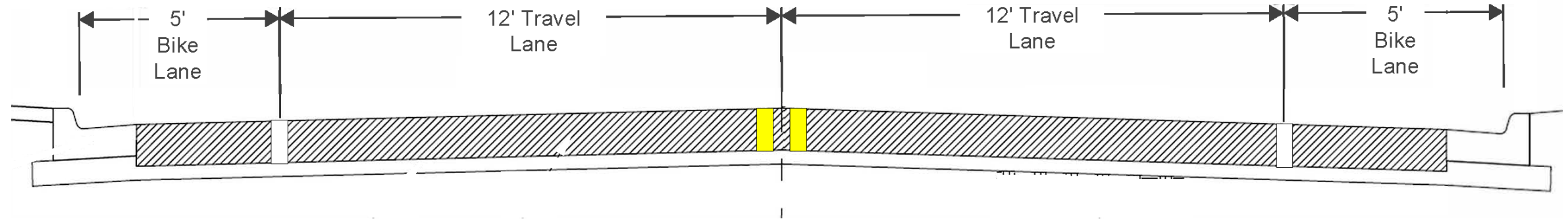
STATE STREET: GRANGER TO DEWEY



Existing

- Conventional bike lanes
- No curbside / parking lane

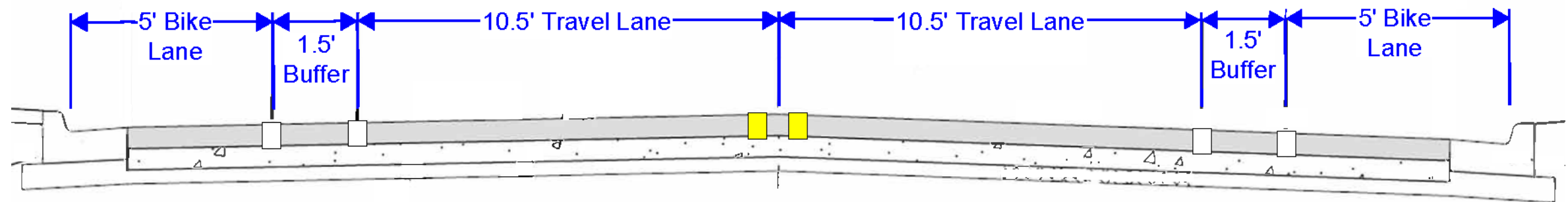
EXISTING CONFIGURATION



Proposed

- Buffered bike lanes
- Reduced width travel lanes
- Bollard potential (for All Ages & Abilities)

PROPOSED CONFIGURATION



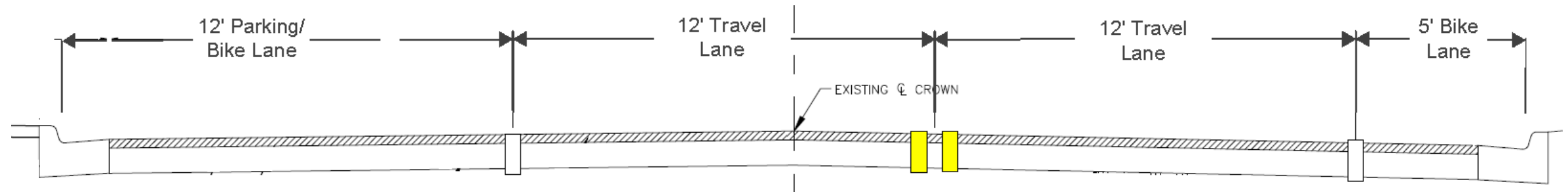
STATE STREET: DEWEY TO ARCH

B

Existing

- Conventional bike lanes
- Metered parking lane

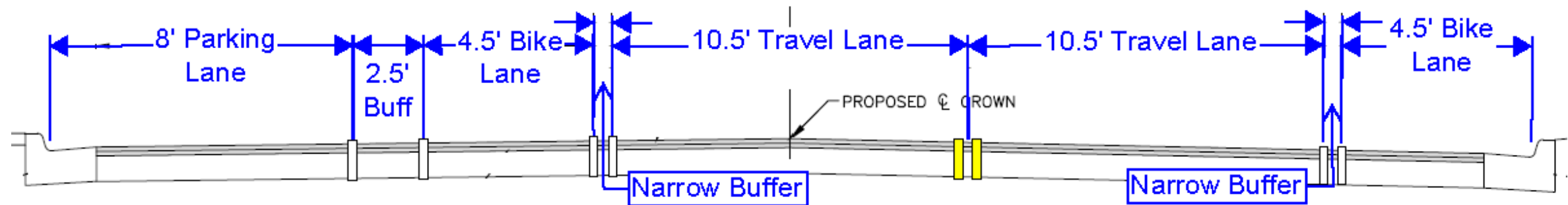
EXISTING CONFIGURATION



Proposed

- Narrow buffered bike lanes
- Reduced width travel lanes
- Retain 27 of 34 parking spaces
- Bollard potential (east side)

PROPOSED CONFIGURATION

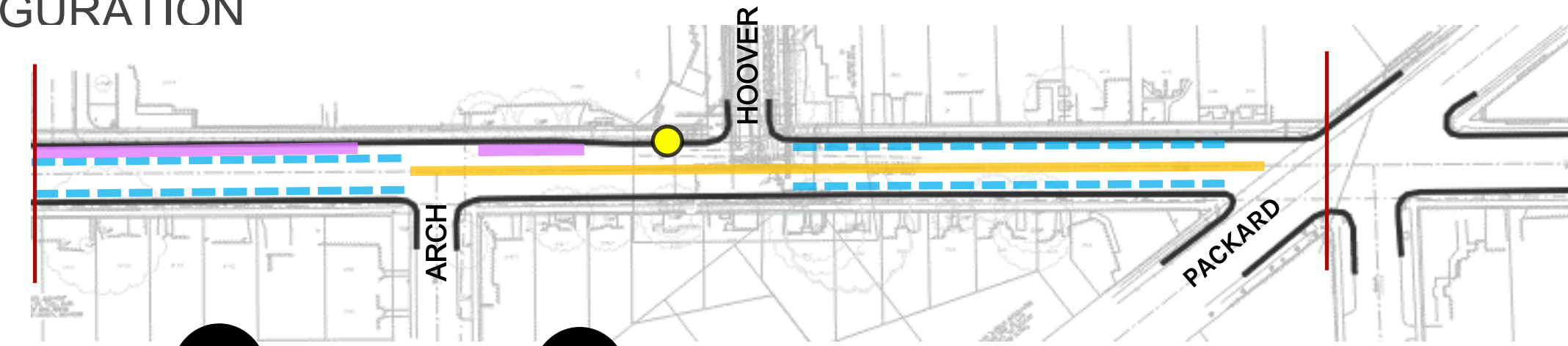


NARROW BIKE BUFFERS

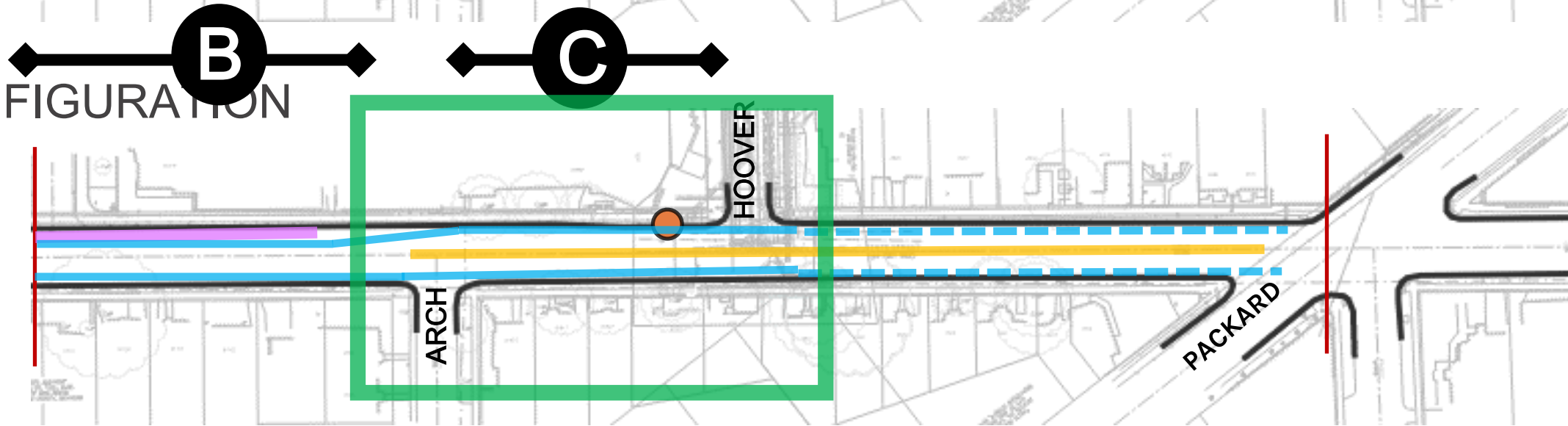


STATE STREET: ARCH TO PACKARD

EXISTING CONFIGURATION



PROPOSED CONFIGURATION



	SHARED LANE (ENHANCED)		CURBSIDE LANE (PARKING)
	CONVENTIONAL BIKE LANE		ADDITIONAL TURN LANE
	BUFFERED BIKE LANE		
	SEPARATED BIKE LANE		
BUS STOPS			IN-BIKE LANE
			OUT OF TRAVEL LANE
			IN-TRAVEL LANE

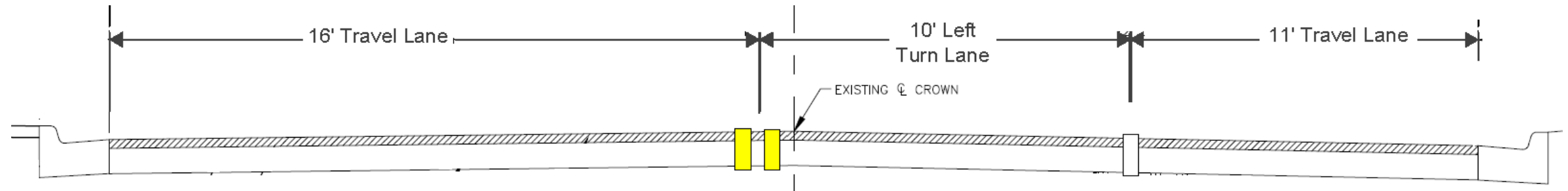
STATE STREET: ARCH TO HOOVER



Existing

- No bike lanes
- Left turn lane

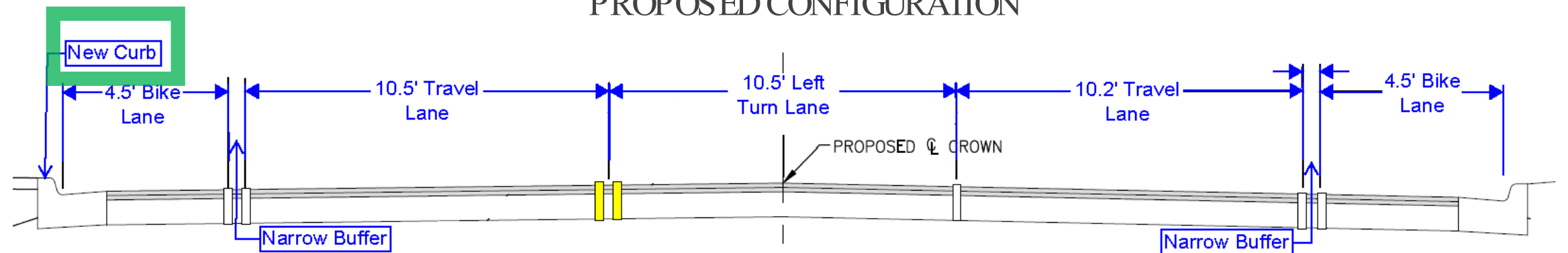
EXISTING CONFIGURATION



Proposed

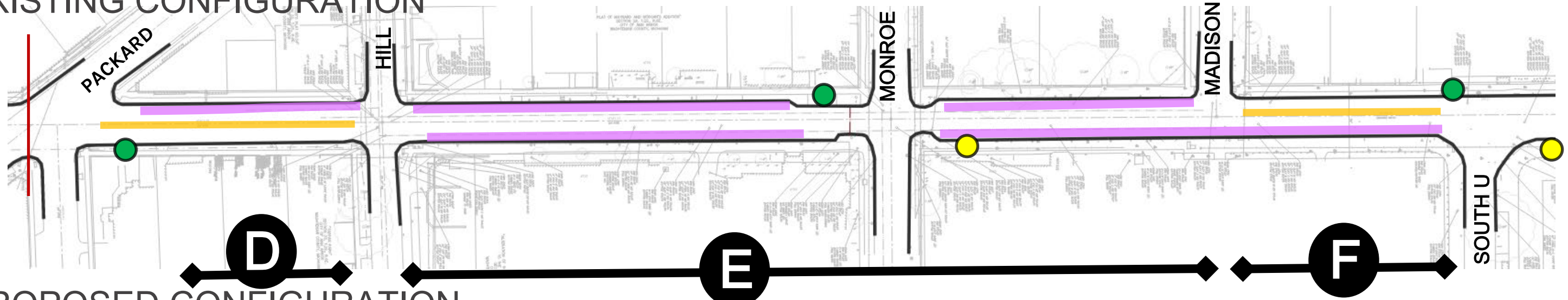
- Buffered bike lanes
- Reduced width travel lanes
- Bollard potential

PROPOSED CONFIGURATION

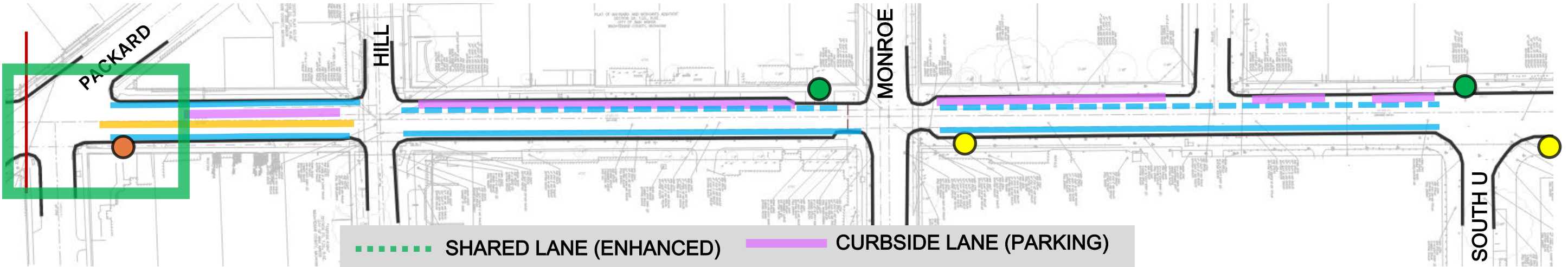


STATE STREET: PACKARD TO SOUTH UNIVERSITY

EXISTING CONFIGURATION

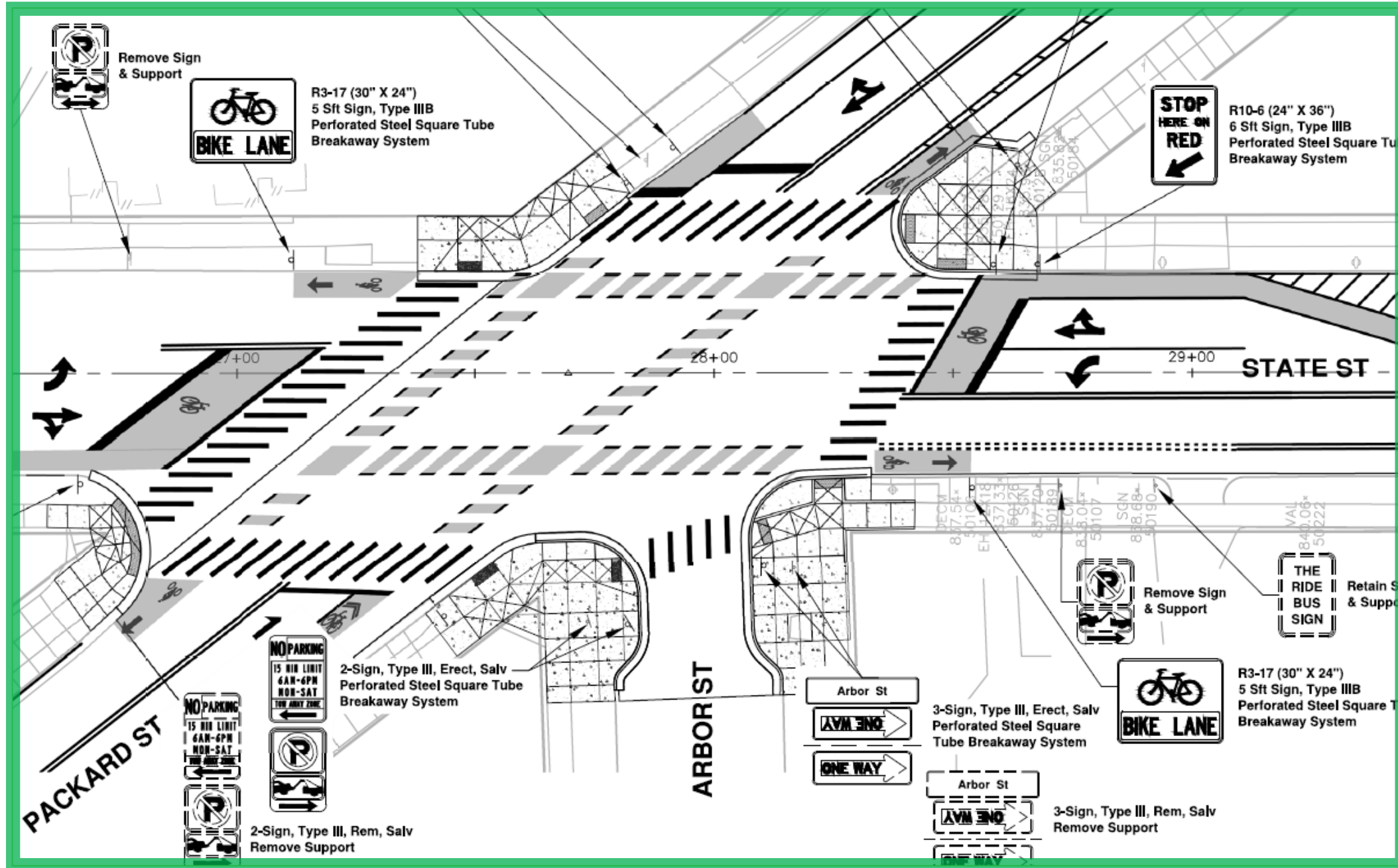


PROPOSED CONFIGURATION



	SHARED LANE (ENHANCED)		CURBSIDE LANE (PARKING)
	CONVENTIONAL BIKE LANE		ADDITIONAL TURN LANE
	BUFFERED BIKE LANE	BUS STOPS IN-BIKE LANE OUT OF TRAVEL LANE IN-TRAVEL LANE	
	SEPARATED BIKE LANE		

STATE ST. AND PACKARD ST.



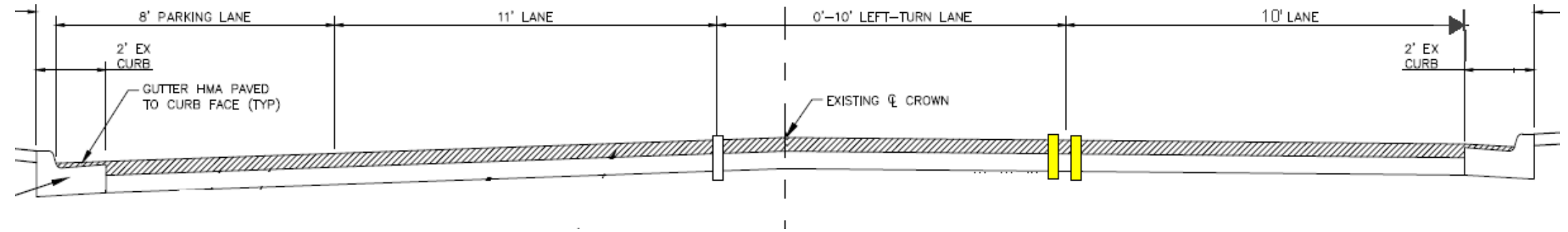
STATE STREET: PACKARD TO HILL

D

Existing

- No bike lanes
- Metered parking lane

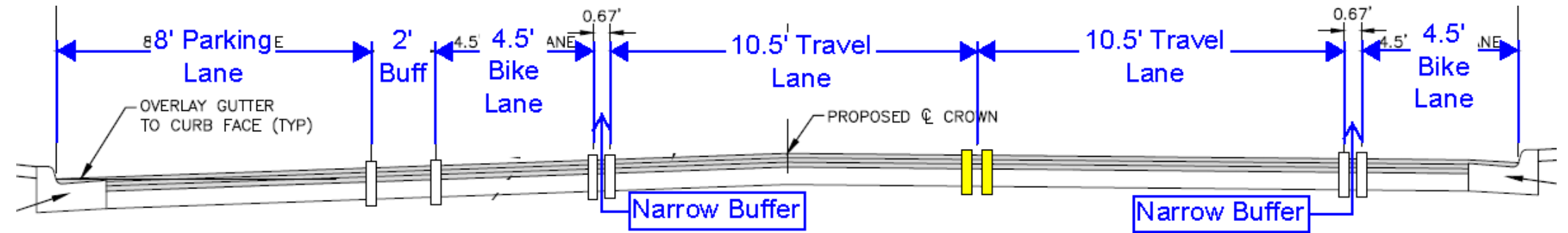
EXISTING CONFIGURATION



Proposed

- Buffered bike lanes
- Reduced width travel lanes
- Retain 6 of 10 parking spaces
- Bollard potential (east side)

PROPOSED CONFIGURATION



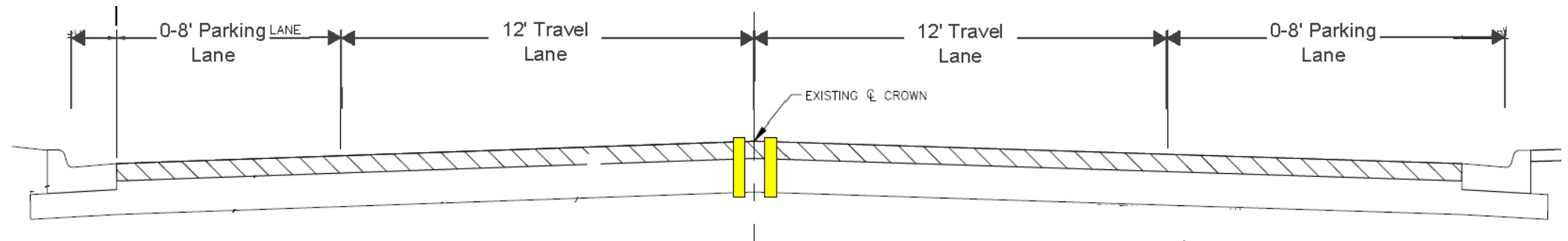
STATE STREET: HILL TO MADISON

E

Existing

- No bike lanes
- Metered parking lanes on both sides

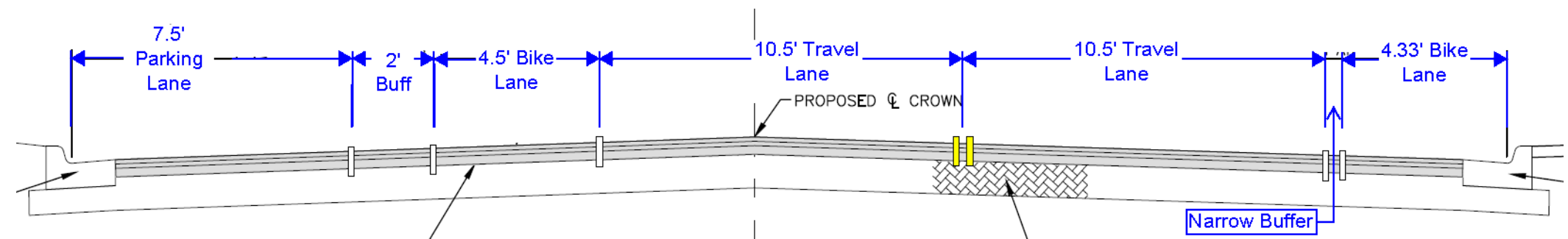
EXISTING CONFIGURATION



Proposed

- Buffered bike lanes
- Reduced width travel lanes
- Retain 28 of 44 parking spaces
- Bollard potential (east side)

PROPOSED CONFIGURATION



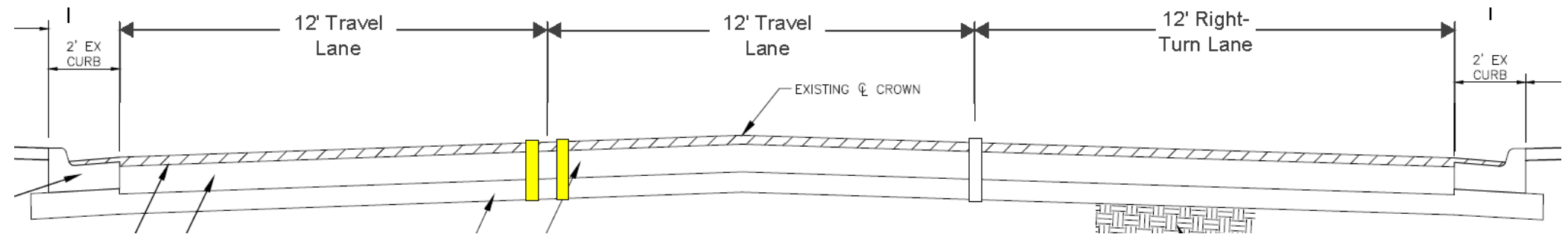
STATE STREET: MADISON TO SOUTH UNIVERSITY

F

Existing

- No bike lanes
- Metered parking lanes on both sides

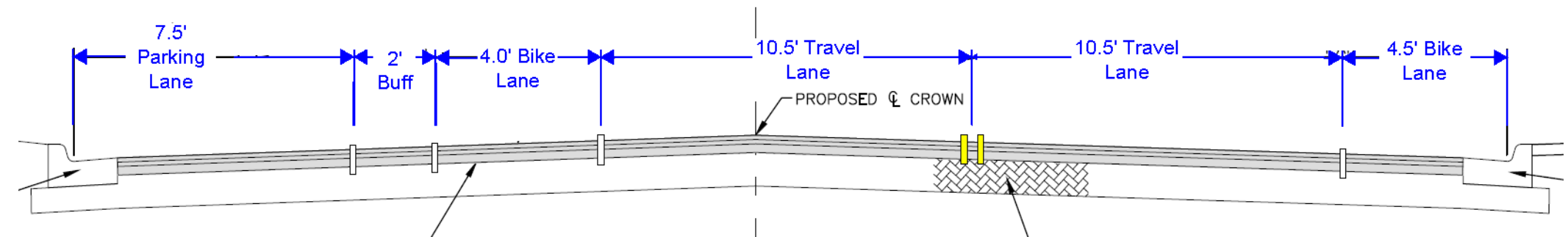
EXISTING CONFIGURATION



Proposed

- Buffering provided at door swing
- Reduced width travel lanes
- Remove turn lane
- Provide parking spaces (for reduce net loss)

PROPOSED CONFIGURATION




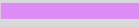

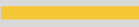

HILL STREET: FIFTH TO STATE

EXISTING CONFIGURATION



PROPOSED CONFIGURATION



 SHARED LANE	 CURBSIDE LANE (PARKING)
 CONVENTIONAL BIKE LANE	 ADDITIONAL TURN LANE
 BUFFERED BIKE LANE	

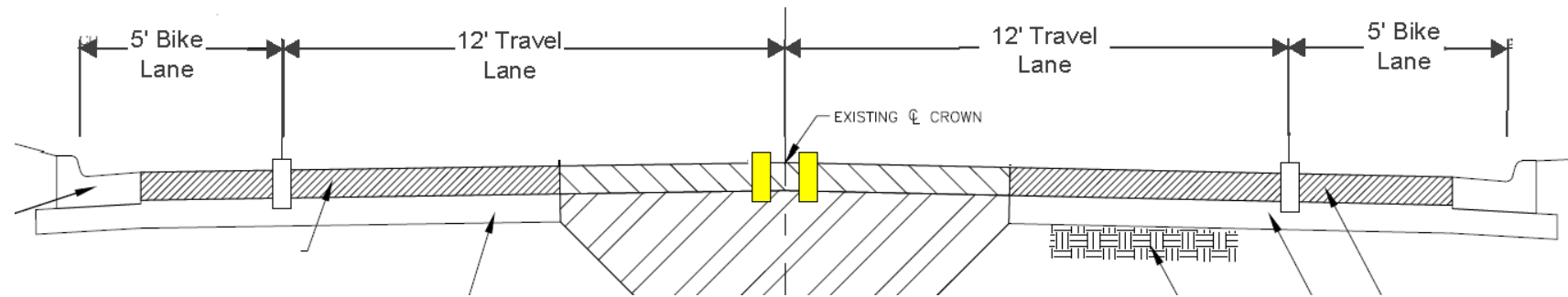
HILL STREET: FIFTH TO DIVISION



Existing

- Conventional bike lanes

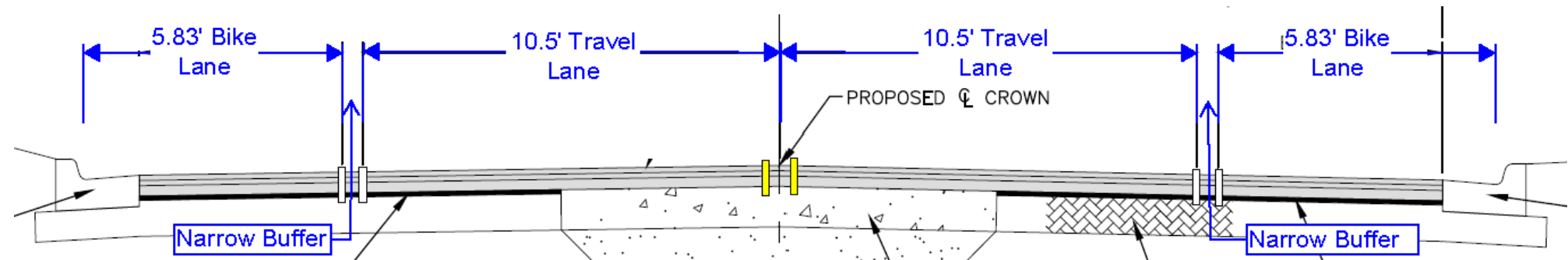
EXISTING CONFIGURATION



Proposed

- Buffered bike lanes – increased comfort
- Reduced width travel lanes
- All Ages & Abilities

PROPOSED CONFIGURATION



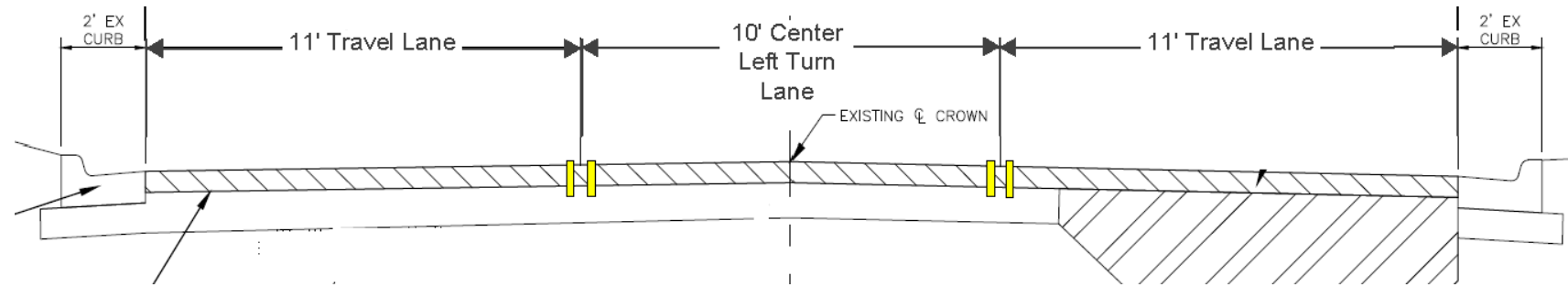
HILL STREET: DIVISION TO PACKARD



Existing

- Shared lanes (sharrows)

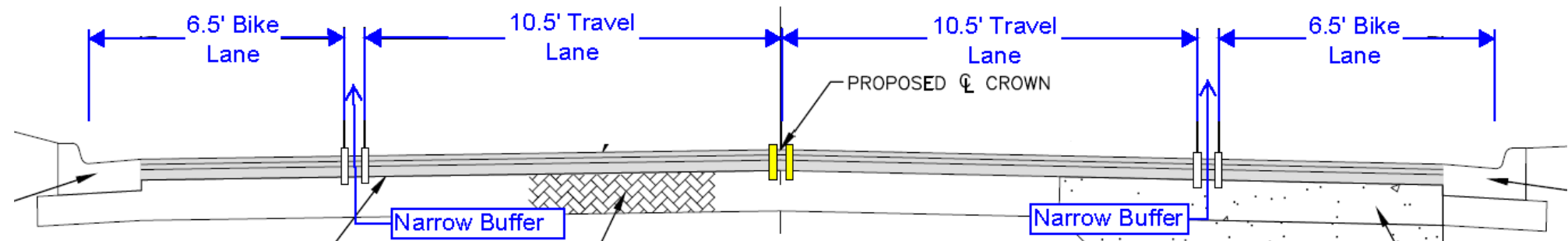
EXISTING CONFIGURATION



Proposed

- Buffered bike lanes
- Reduced width travel lanes
- No left turn lanes
- All Ages & Abilities

PROPOSED CONFIGURATION



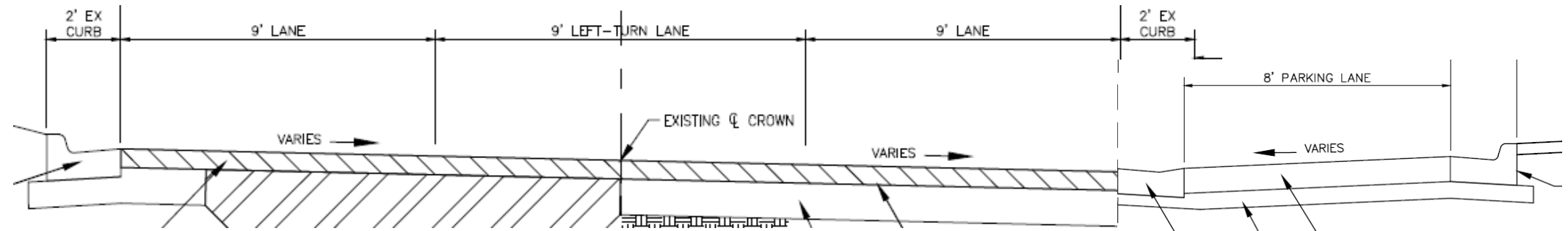
HILL STREET: PACKARD TO STATE



Existing

- Shared lanes (sharrows)
- Narrow travel lane widths

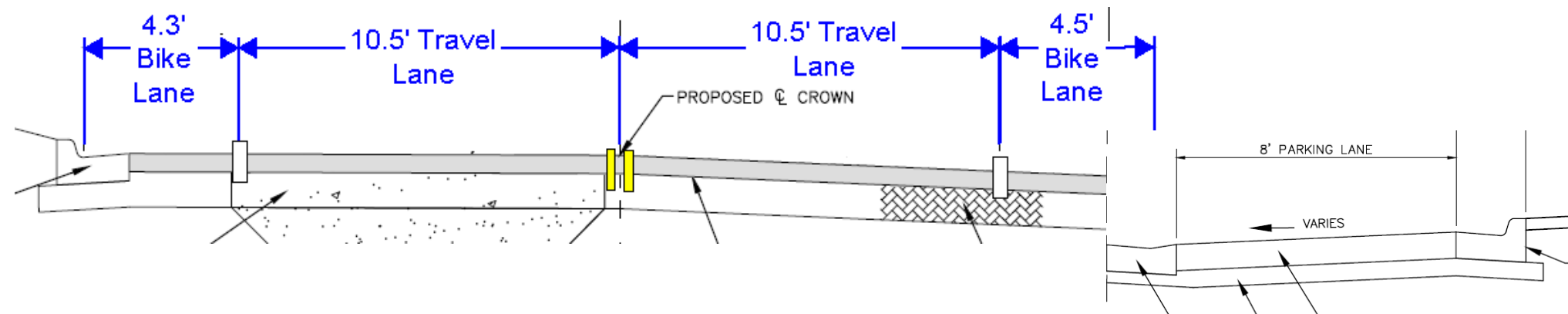
EXISTING CONFIGURATION



Proposed

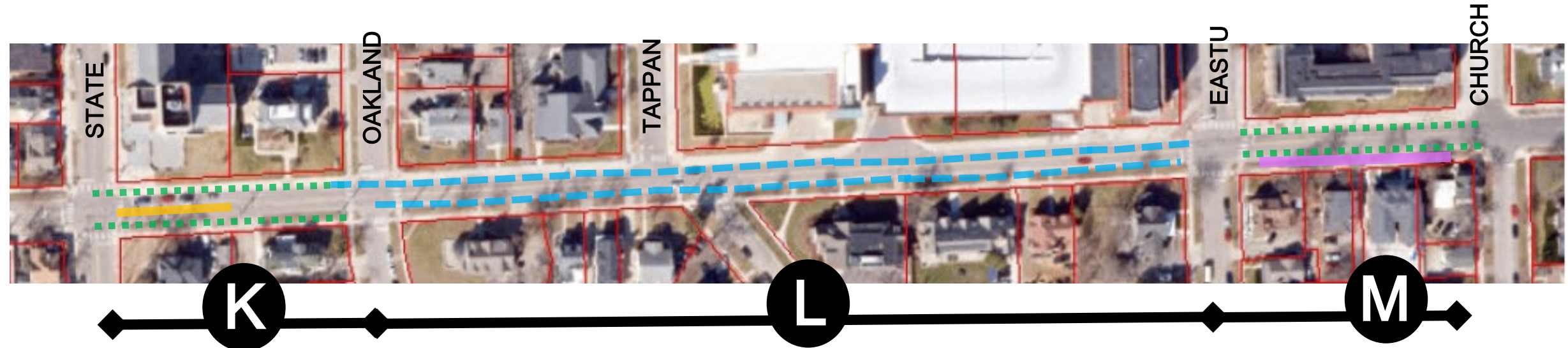
- Conventional bike lanes, albeit narrow and in gutter
- 6-inch pavement marking
- No left turn lanes

PROPOSED CONFIGURATION







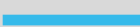
HILL STREET: STATE TO CHURCH

EXISTING CONFIGURATION



PROPOSED CONFIGURATION



 SHARED LANE	 CURBSIDE LANE (PARKING)
 CONVENTIONAL BIKE LANE	 ADDITIONAL TURN LANE
 BUFFERED BIKE LANE	

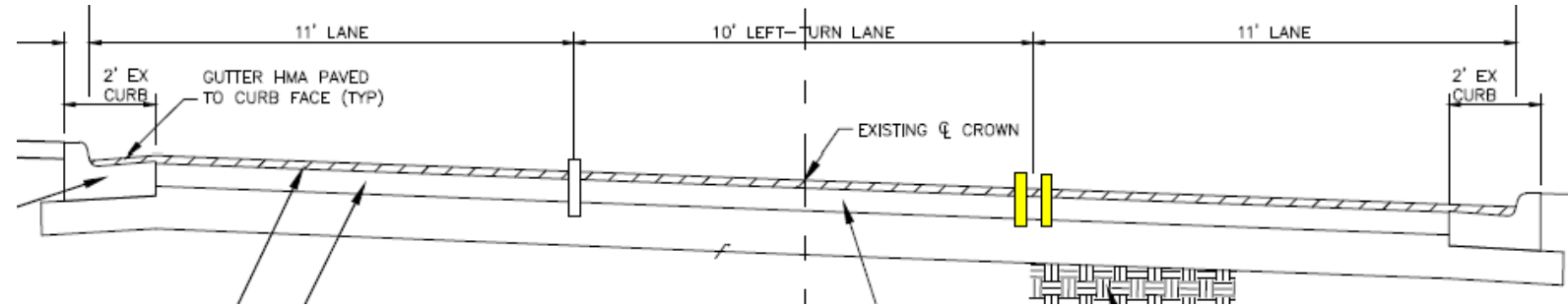
HILL STREET: STATE TO OAKLAND



Existing

- Shared lanes (sharrows)

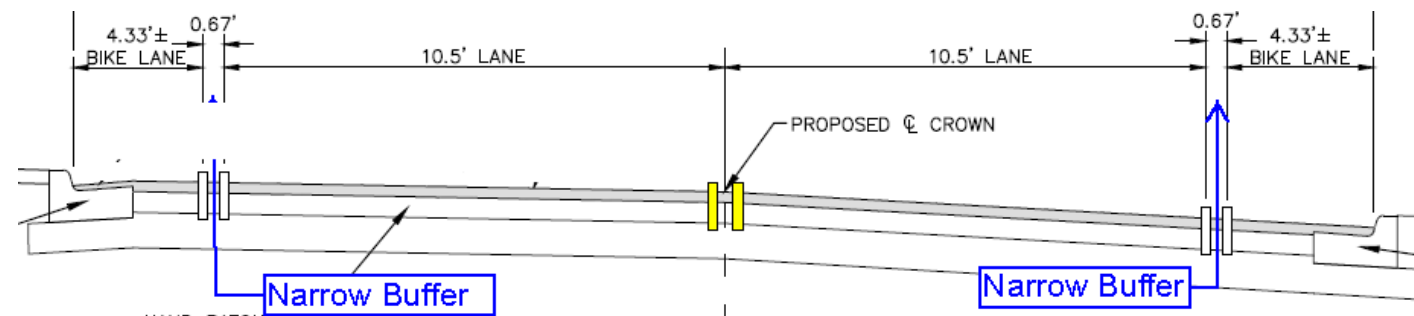
EXISTING CONFIGURATION



Proposed

- Buffered bike lanes
- Reduced width travel lanes
- No left turn lanes
- Bollard potential

PROPOSED CONFIGURATION



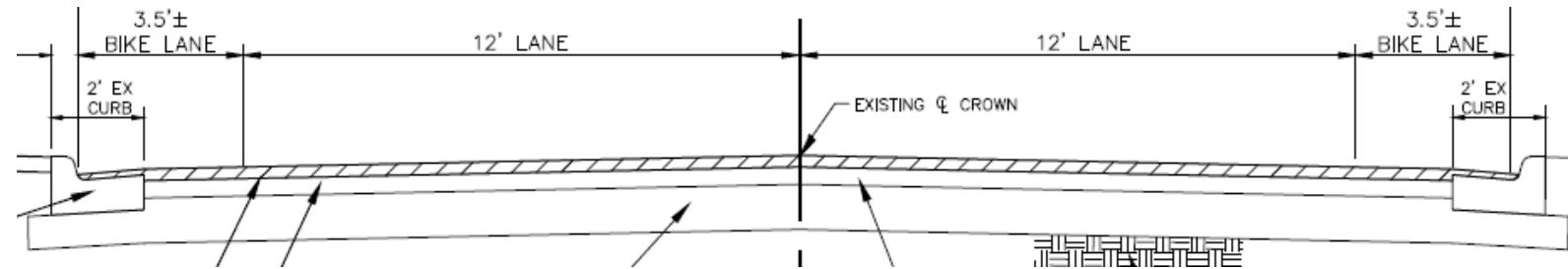
HILL STREET: OAKLAND TO EAST TU.



Existing

- Narrow bike lanes

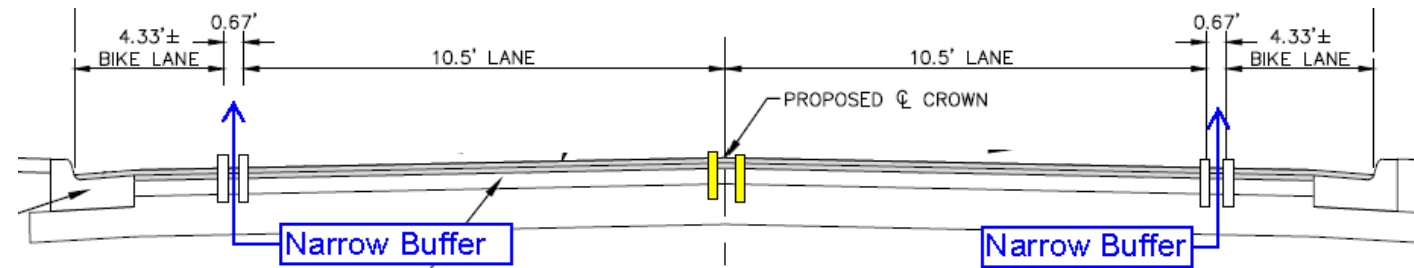
EXISTING CONFIGURATION



Proposed

- Buffered bike lanes
- Reduced width travel lanes
- Bollard potential

PROPOSED CONFIGURATION



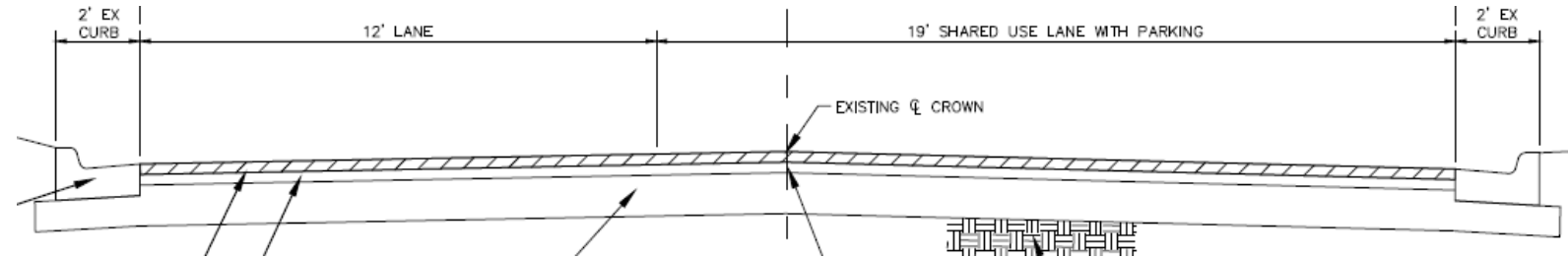
HILL STREET: EAST U. TO CHURCH



Existing

- Sharrows with metered parking lane

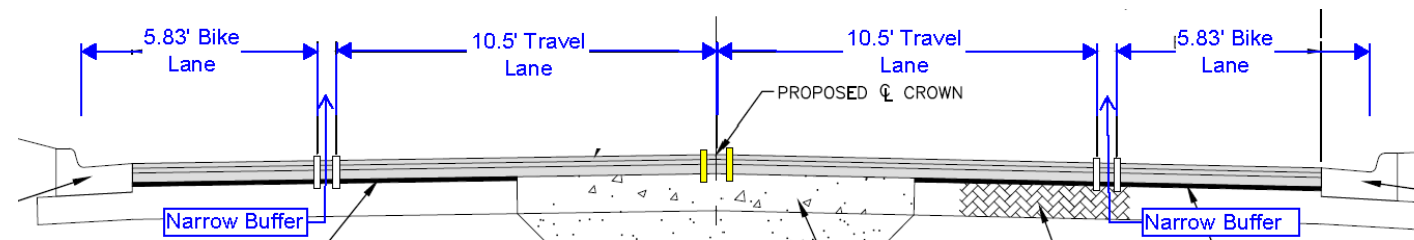
EXISTING CONFIGURATION



Proposed

- Buffered bike lanes
- Reduced width travel lanes
- All ages & abilities

PROPOSED CONFIGURATION



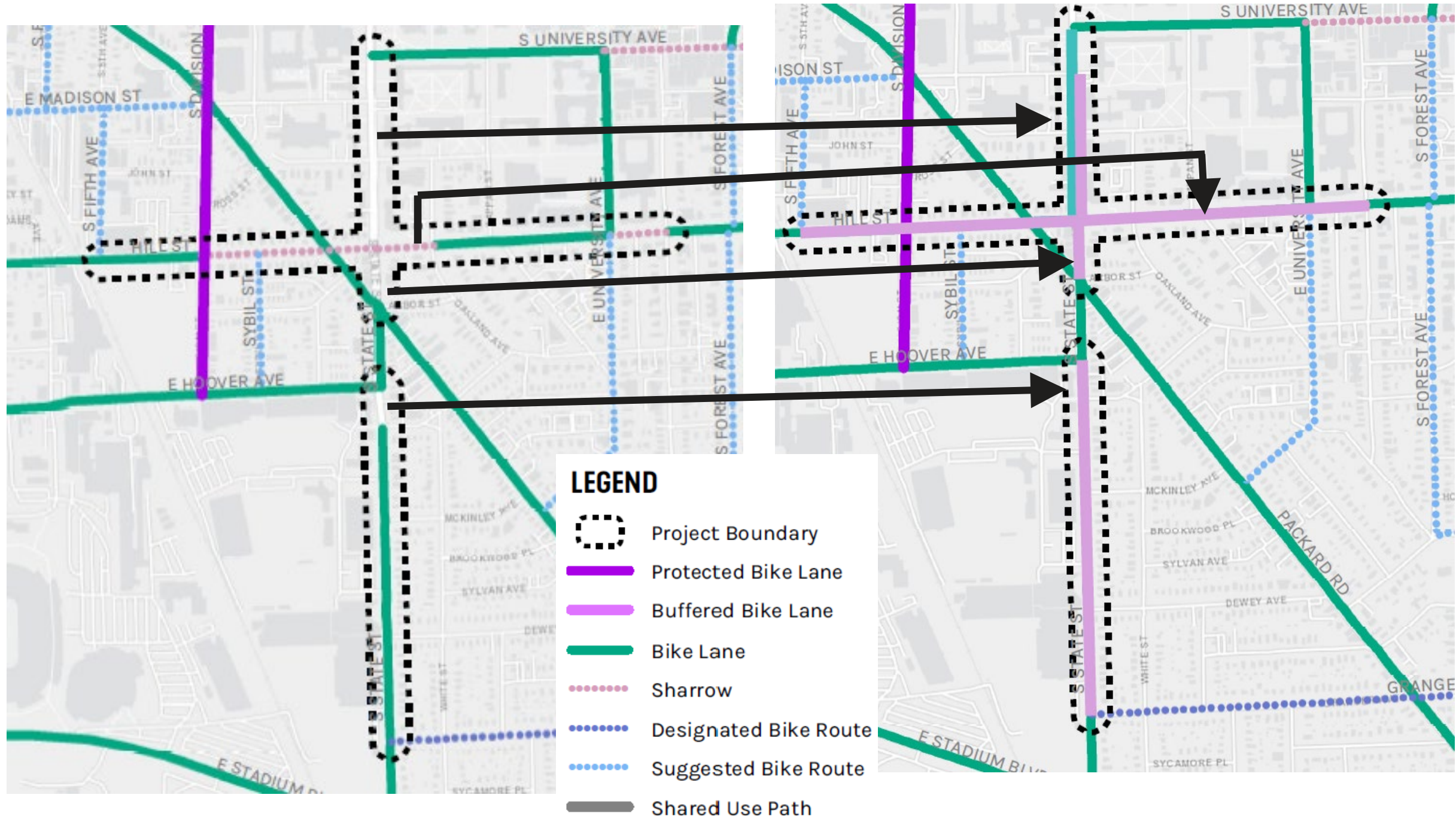
BIKENETWORKIMPROVEMENTS

STATE+HILLPROJECT

BICYCLE INFRASTRUCTURE IMPROVEMENTS

EXISTING

PROPOSED



QUESTIONS AND FEEDBACK?

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