State Street Corridor Transportation Study







S. STATE STREET TRANSPORTATION PLAN

- Planning Process Overview
 - Project Goals
 - Alternatives Considered
 - Evaluation
- Recommended Plan
 - Key Design Features
 - Operations
- Next Steps



PROJECT GOALS



Safety: Provide safe conditions for all travelers



Entry: Create a more attractive entry to the city



Pedestrians: Improve conditions for pedestrians along/across State St



Bicycles: Provide a safe place for bicyclists separate from travel lanes



Transit: Enhance transit conditions through traffic flow, stop accessibility



Vehicles: Maintain reasonable traffic operations along the corridor



Land Use: Support planned land use described in S. State St. Corridor Plan



Access: Ease accessibility of corridor businesses



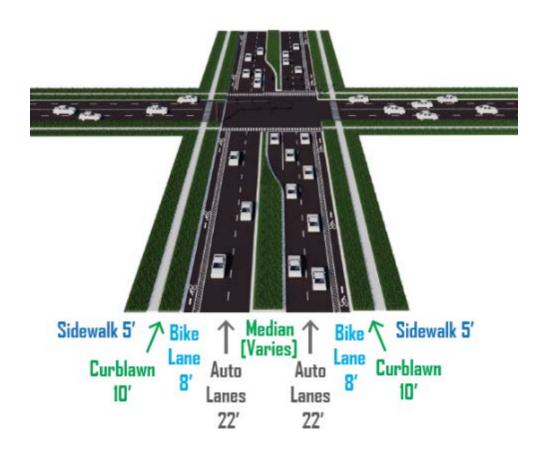
ALTERNATIVES CONSIDERED

- Alternative 1: Narrow Median with Direct Left Turns
- Alternative 2: Narrow Median with Roundabout Intersections
- Alternative 3: Wide Median with Indirect ("Michigan") Left Turns



ALTERNATIVE 1 - NARROW MEDIAN

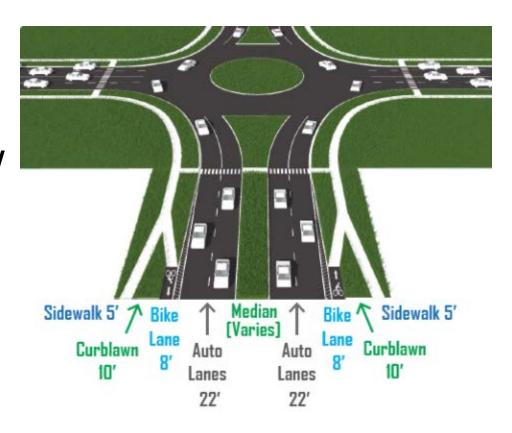
- Direct left-turns
- No u-turns
- Plantable median space





ALTERNATIVE 2 - ROUNDABOUTS

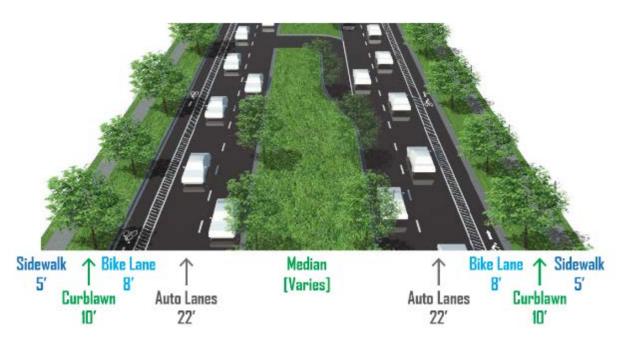
- Roundabout intersections
- Plantable narrow median space





ALTERNATIVE 3 – WIDE MEDIAN

- Indirect ("Michigan") left turns
- Plantable wide median space





ALTERNATIVE SCORING Alternative One (narrow median + direct left turn) 0 **(1)** SAFETY PEDESTRIANS BICYLES TRANSIT LAND USE VEHICLES **ACCESS** idewalk Lane (Varies) Bike Sidewalk Alternative Two (narrow median + roundabouts) Eike A Median J Lane (Varies) Curblawn Auto Lanes Auto Lanes Curblawn Alternative Three (wide median) **H** Sidewalk A Bike Bike 🔨 Sidewalk [Varies] Lanc 8 Curblawn Scoring Guide PREST PRETTER THAN EXISTING SIMILAR TO EXISTING WORSE THAN EXISTING



RECOMMENDED PLAN

- A hybrid solution drawing from narrow and wide median alternatives
- Common non-motorized elements throughout the corridor:
 - Buffered bike lanes
 - Bike lane configuration across I-94 similar to Ann Arbor-Saline Road
 - Continuous sidewalks along entire corridor
 - Additional pedestrian crossings

STATE STREET - RECOMMENDED PLAN SOUTH OF I-94

 All indirect left turns at Airport/Research diverted to east and west crossovers

Geometric improvements to discourage direct left turns at

Airca and Days a seek

Airport/Research

 Desired potential mid-block crossing near State Circle, coinciding with transit stops

Full signalization of ramp intersections (both directions of State Street stop)

Legend
Reconstructed Roadway
Reconstructed Sidewalk
Median / Landscape
On-Street Bike Lanes
Transit Stop
Existing/Proposed Pedestrian Crossing
Potential Right-of-Way Impact

Ann Arbor
DPERATIONS

Ann Arbor

STATE STREET — RECOMMENDED PLAN NORTH OF I-94

Indirect left-turns; accommodates all driveway movements

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Addition of two traffic signals; split direction signals minimize impact

on State St.



- Briarwood Circle
- Hilton/Victors
- I-94 WB Ramps

Kensington Court

Potential for additional mid-block crossing south of Mall Drive





RECOMMENDED PLAN IMPROVEMENTS

Goal	Feature	No-Build Condition	Recommended Alternative	
50 K	Bike lanes and sidewalks along full corridor	NO	YES	
於貝倫	Number of pedestrian crossing points	2	8	
A BE SAFE	Number of left-turns requiring merging or yielding in the median	6	0	
中国	Left-turn access to/from side streets and major driveways between I-94 and Eisenhower (% of possible movements)	50% (6 of 12)	92% (11 of 12)	
	Median treatment north of I-94	Paved	Landscaped, with potential to incorporate water absorption/rain garden features	
	Total end-to-end peak travel time along State Street (non-peak will be minimally affected)			
	AM Northbound	4-5 minutes	5-7 minutes	
	PM Southbound	4-5 minutes	4-6 minutes	





VEHICLE SAFETY IMPROVEMENTS

Location	5-Year Crashes	Crash Reduction From	Estimated Crash Reduction Potential
State St between I-94 EB and WB Ramps	24	Elimination of left-hand merging movements	90%
State St at Hilton/Victors Way	128	Removing direct left turn, adding signalization	40%
State St at Mall Dr	27	Removing direct left turn, adding signalization	60%



COST ESTIMATE

ITEM	COST
Roadway Removal and Construction	\$22,550,000
Bridge Deck Replacement	\$9,450,000
Signage and Operational Improvements	\$100,000
TOTAL (City Costs)	\$32,100,000

Note: preliminary design-level cost estimate, includes 20% contingency.



NEXT STEPS

- Include in City's CIP priority and funding
- Secure funding federal, state, local
- Incorporate in the Transportation Improvement Program (TIP)
- Conduct final design and construction



THANK YOU

Questions

For more information:

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