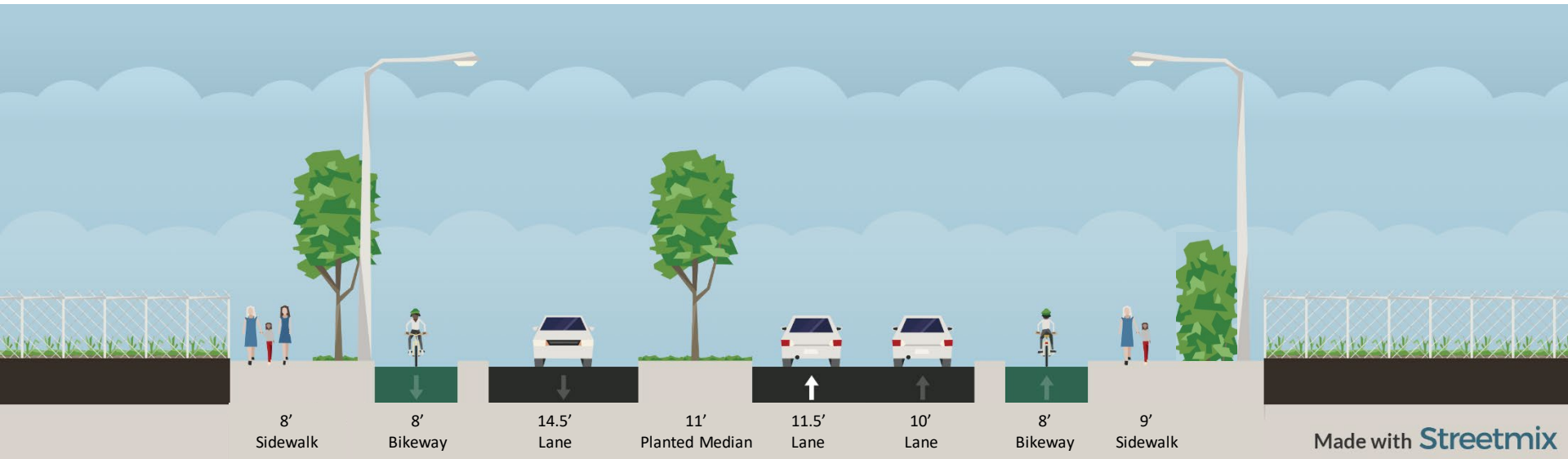


Mace Boulevard

Community Meeting

October 24, 2019



Study Overview

Where:

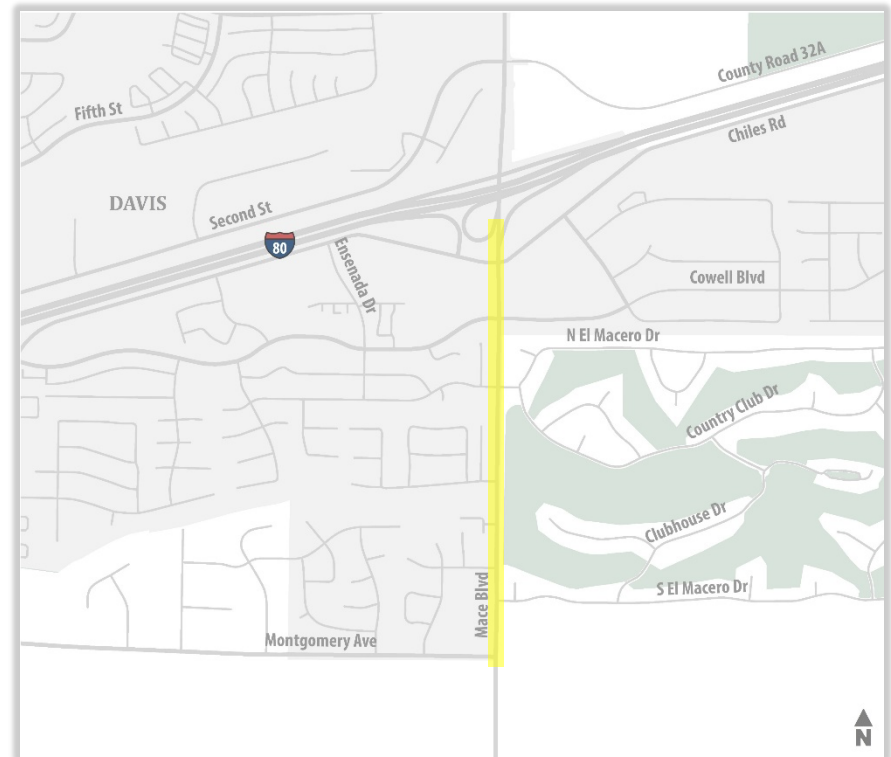
- Mace Boulevard between Montgomery Avenue and Interstate 80

When:

- Thursday and Friday afternoons and evenings

What:

- Understand multimodal traffic operations and identify potential modifications



Evaluation Criteria

- Travel time savings
 - Local travel within Davis
(Montgomery Ave to Chiles Rd)
 - Local travel to I-80
(Montgomery Ave to Freeway)
 - Regional cut through to I-80
(1200 ft. south of Montgomery to Freeway)
- Emergency vehicle access
- Construction impacts
- Cost



12 Alternatives Evaluated

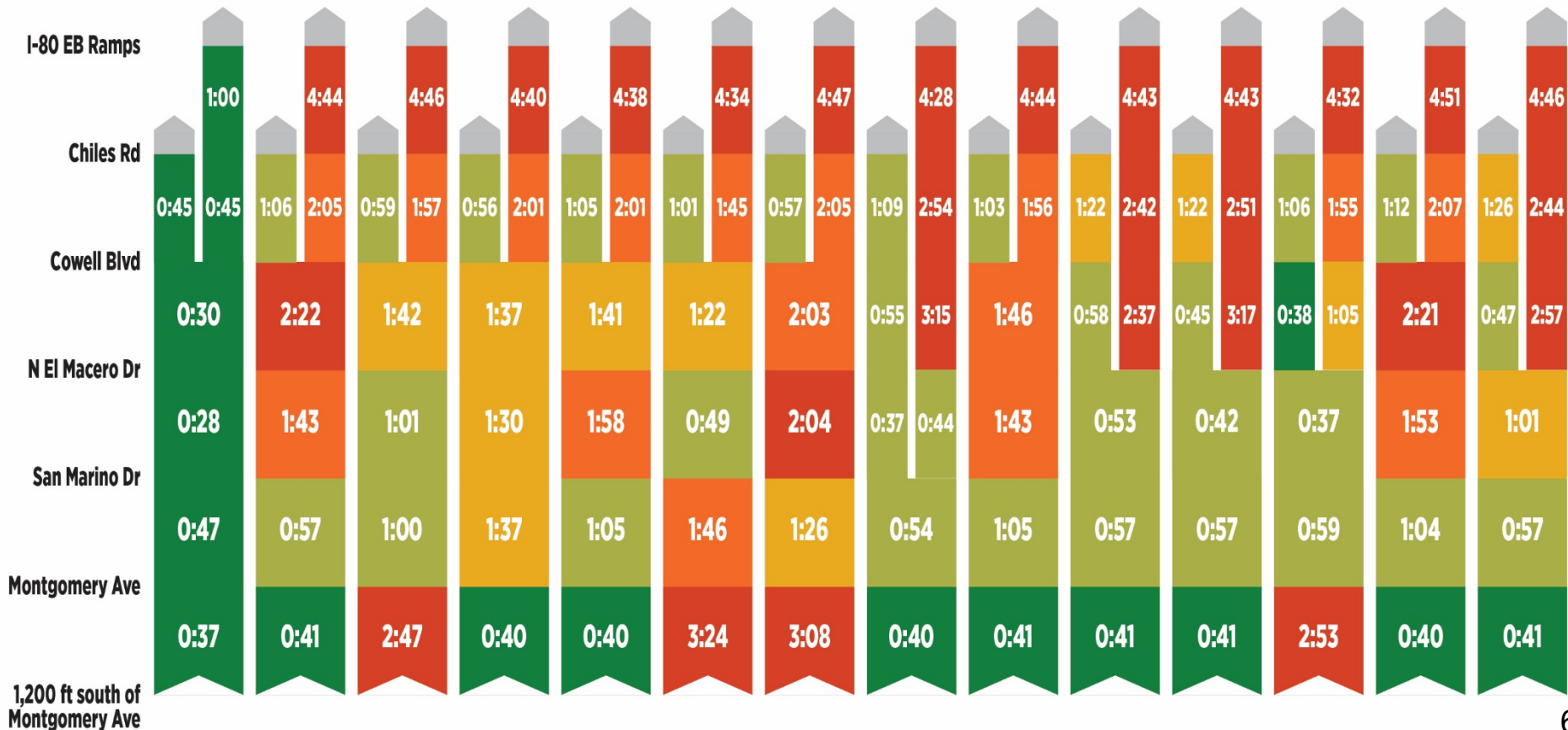
- Three primary improvement strategies
 - New traffic signals to improve access from side streets and to control flow of through traffic
 - Additional lanes to increase capacity at intersections and allow drivers to bypass queues
 - Modifications to the Mace/I-80 Interchange ramp metering

Evaluation Criteria

Existing Congested Conditions	Corridor Alternatives												
	Alt. 1	Alt. 2	Alt. 3	Alt. 4	Alt. 5	Alt. 6	Alt. 7	Alt. 8	Alt. 9	Alt. 10	Alt. 11	Alt. 12	
Heavy traffic with higher delay	Signalize Montgomery Ave	Signalize San Marino Dr	Signalize N El Macero Dr	Alt. 1 and Alt. 2	Alt. 1 and Alt. 3	Change Mace Blvd to prior configuration	Construct NB right-turn lane at Cowell Blvd	Construct two NB lanes north of N El Macero Dr	Alt. 7 and Alt. 8	Alt. 1 and Alt. 8	Install HOV ramp meters for EB I-80	Alt. 8 and Alt. 11	
Corridor Travel Time Change (mm:ss)													
Local travel to Davis destinations (Montgomery Ave to Chiles Rd)	6:08	-1:26	-0:28	-0:19	-1:10	+0:22	-2:33	-0:31	-1:58	-2:22	-2:48	+0:22	-1:57
Local travel to I-80 (Montgomery Ave to I-80)	11:51	-1:25	-0:26	-0:28	-1:35	+0:34	-2:03	-0:37	-1:38	-1:53	-3:10	+0:25	-1:36
Regional cut through travel to I-80 (1,200 ft south of Montgomery Ave to I-80)	12:32	+0:41	-0:27	-0:29	+1:08	+3:01	-2:04	-0:37	-1:38	-1:53	-0:58	+0:24	-1:36
SB Emergency Vehicle Access	--	--	--	+	--	+	+	--	--	--	--	--	--
Construction Impacts	--	Low	Low	Med.	Low	Med.	High	Med.	Med.	High	High	Low	High
Cost	--	\$	\$	\$	\$\$	\$\$	\$\$\$	\$\$	\$\$	\$\$\$	\$\$\$	\$	\$\$

Corridor Travel Times

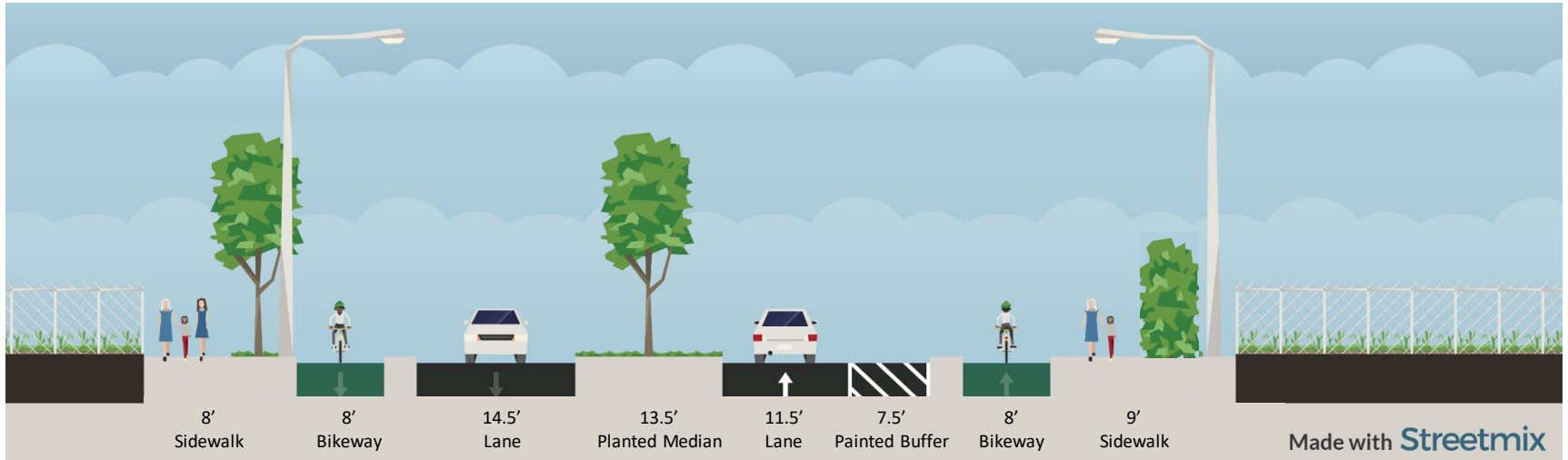
Existing Conditions		Corridor Alternatives											
Free Flow	Congested	Alt. 1	Alt. 2	Alt. 3	Alt. 4	Alt. 5	Alt. 6	Alt. 7	Alt. 8	Alt. 9	Alt. 10	Alt. 11	Alt. 12
Light traffic with minimal delay	Heavy traffic with higher delay	Signalize Montgomery Ave	Signalize San Marino Dr	Signalize N El Macero Dr	Alt. 1 and Alt. 2	Alt. 1 and Alt. 3	Change Mace Blvd to prior configuration	Construct NB right-turn lane at Cowell Blvd	Construct two NB lanes north of N El Macero Dr	Alt. 7 and Alt. 8	Alt. 1 and Alt. 8	Install HOV ramp meters for EB I-80	Alt. 8 and Alt. 11



General Findings

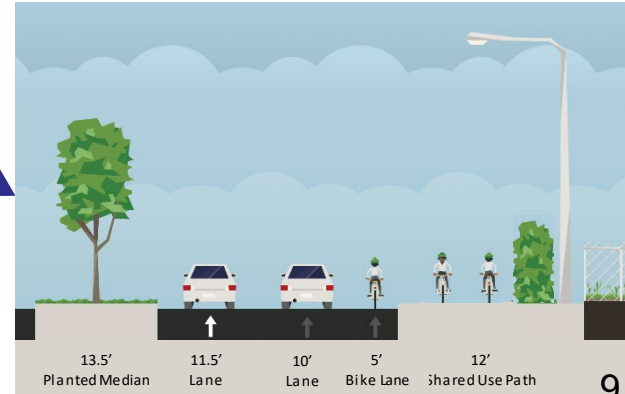
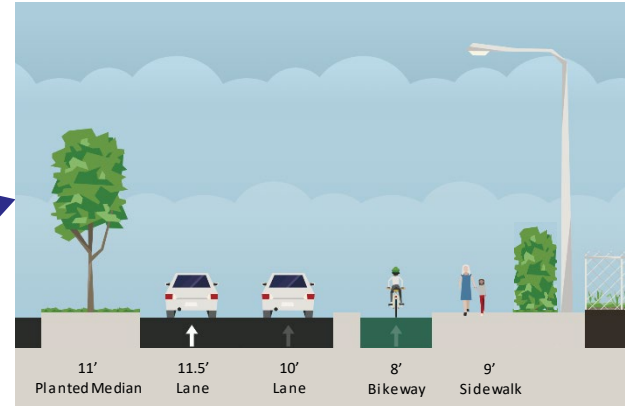
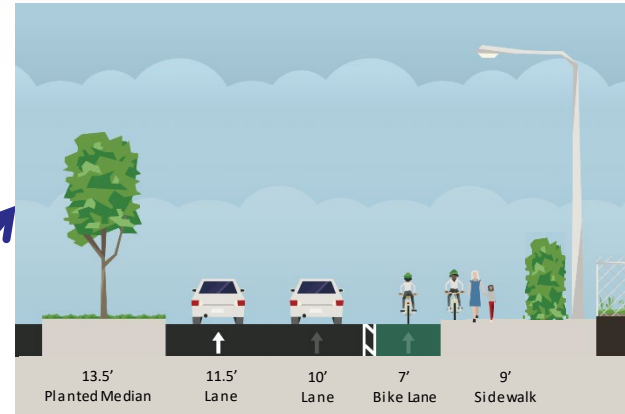
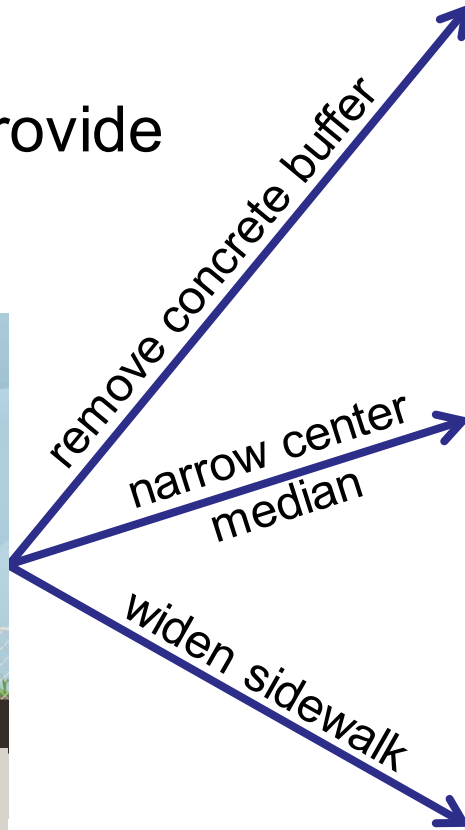
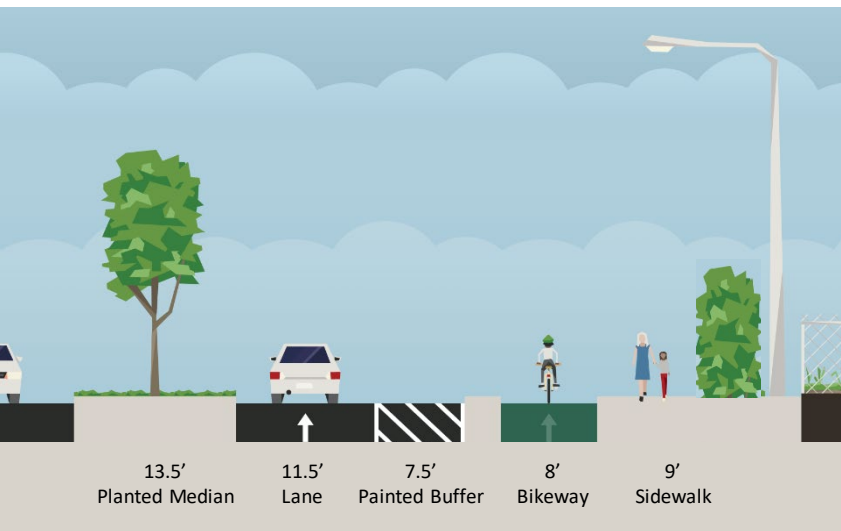
- Three primary improvement strategies
 - A new traffic signal at Montgomery Ave would be most effective at creating gaps in NB traffic
 - An additional NB lane would improve local access, but may induce additional regional cut through traffic
 - Modifications to the Mace/I-80 interchange ramp metering would slightly increase travel times on Mace Boulevard, but has the potential to reduce freeway congestion and lessen regional cut through traffic

Existing Conditions



Implementation

- How to add a second northbound lane and provide a low-stress bikeway



Next Steps

- Receive feedback regarding congestion improvements tonight
- Staff & consultants to continue working on options for
 - removing vertical curbs and replacing with mountable curbs to improve emergency vehicle access,
 - intersection design at Mace/Cowell,
 - intersection design and signal improvements at Mace Blvd / San Marino Dr.,
 - bikeway changes along entire corridor.
- Make recommendations to council in upcoming meeting, tentatively scheduled for mid November