

# Extension Road Enhanced Bike Lanes

City Council Study Session

March 20, 2025

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# Overview



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- 2. Why Extension?
- 3. Design Concepts

- 4. Selected Design
- 5. Next Steps



# Background



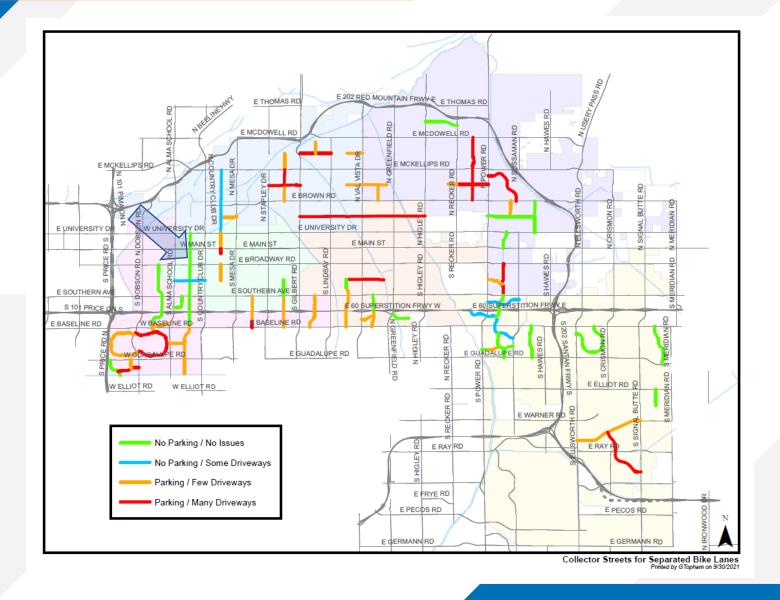
# **Timeline**

- **Spring 2021** Mesa Moves Council Presentation Asked to identify streets with low-cost potential:
  - Collector Streets
  - On-street parking
  - Number of driveways
  - Speed limit
- Fall 2021 Mesa Moves Active Transportation Project Recommendation Council Presentation
- Winter 2021/2022 Staff Analysis and Separated Bike Lane Project Alternatives
  - Develop Alternatives
  - Met with Councilmember Duff and Councilmember Heredia



# Background





# Background



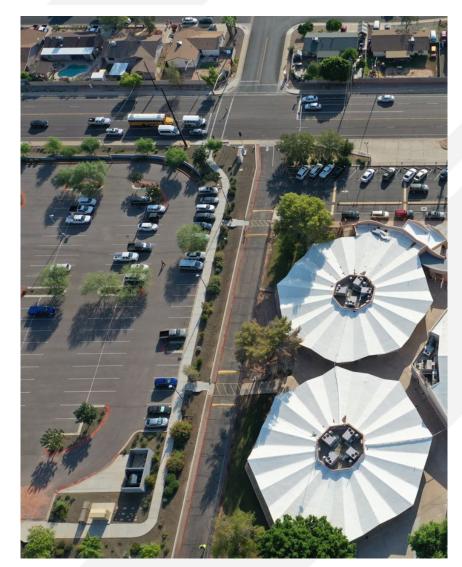
- Spring 2022 Public Outreach
  - Mailings to residents within ½ mile
  - Public Meeting Held 4/25/2022
  - Approval Survey 109 Mesa Residents 86% approval of Preferred Separated Bike Lane
- *Summer 2022* Final Concept Design of separated bike lane as part of Overlay Project
- Winter 2022/2023 Mill and Overlay project put on hold due to fiber install in the area
- Spring 2025 Mill and Overlay project scheduled to start



# Why Extension?



- Long, continuous street segment with minimal conflicts.
- Low stress crossing over the US60.
- No bike lanes on Country Club Dr.
- No bike lanes on Alma School Rd at Southern or south of US 60.
- Pavement maintenance is scheduled for this year.
- Light rails borders the north end of the project.
- Important lower-stress north/south connection with multiple activity centers: Fiesta District, Kleinman Park, Crossroads Focus School, Ida Redbird Elementary, Fiesta Sports Complex, and the Social Security Administration.



# Why Extension?

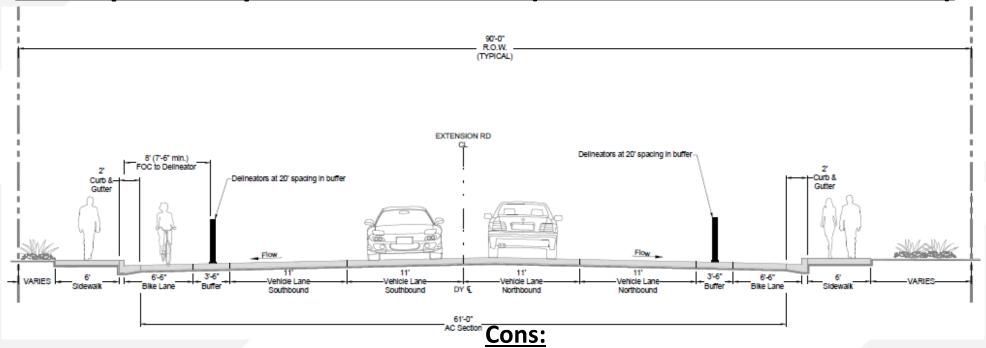








# Concept 1 - Separated Bike Lane (Reutilize Center Turn Lane)



### **Pros:**

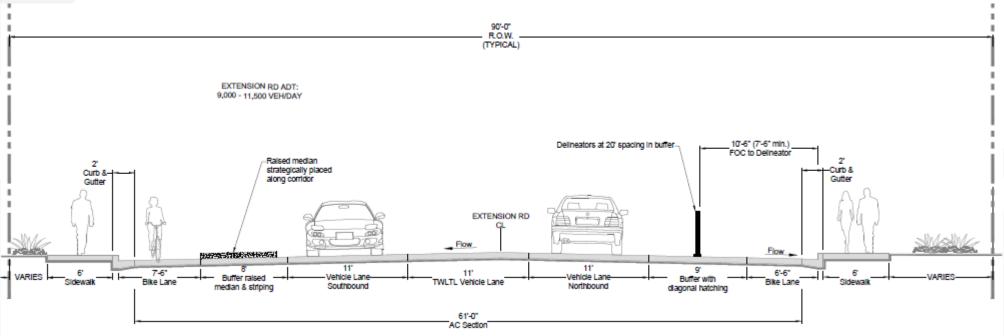
- Maintains number of travel lanes
- Delineators between bikes and vehicles
- Minor impact on traffic flow

- Left-turns from traffic lanes
- Requires creative transitions at intersections
- Not common in the valley, potential for confusion and accidents





# Concept 2 - Separated Bike Lane (Reutilize 1 Lane Each Direction)



### **Pros:**

- Delineators/medians between bikes and vehicles
- Maintains two-way left turn lane

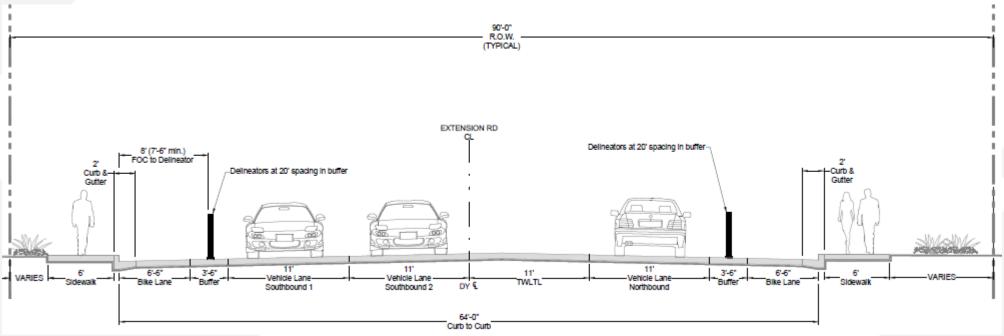
### Cons:

- Bike lane buffer too wide
- Noticeable impacts on traffic flow, especially during school start and release





# **Concept 3 – Separated Bike Lane (Reutilize 1 NB Lane)**



### **Pros:**

- Delineators between bikes and vehicles
- Maintains two-way left turn lane
- Maintains access into school and vehicle storage

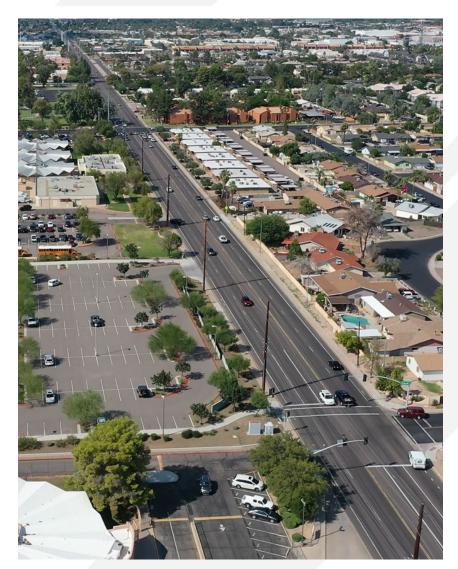
### Cons:

- Removal of one NB travel lane
- Some impacts on traffic during school start and release, but no grid-lock

# Traffic Analysis – Selected Design

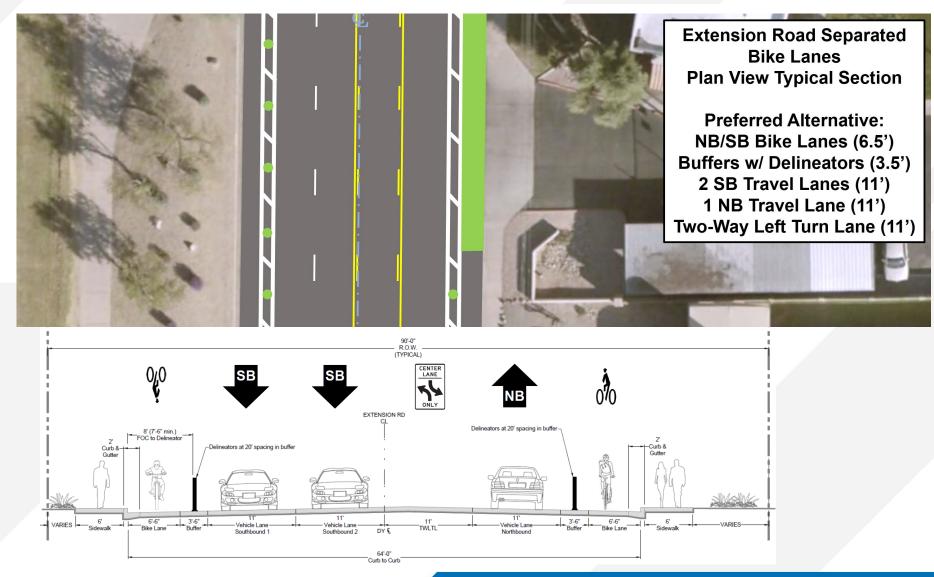


- 14K Vehicles per day (US 60 to 8<sup>th</sup> Ave)
- All signalized intersections operate at Level Of Service (LOS) D or better, which is the same as existing
- Minimal impact to school traffic at Emerald Avenue
- Largest expected delays at Extension Road and Southern Avenue but maintaining LOS D



# Design – US60 to Broadway

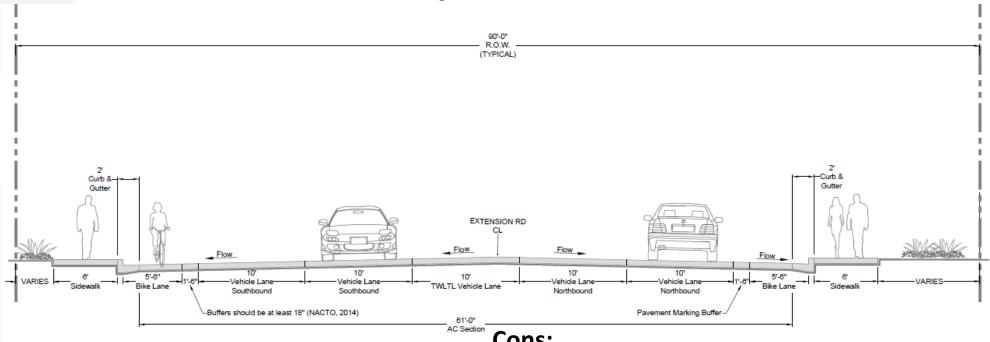








# **Additional Concept – Buffered Bike Lanes**



### **Pros:**

- Maintains number of travel lanes
- 18" buffer between bikes and vehicles
- No impact on traffic flow

## Cons:

- Not enough room for delineators
- Minimal perceived safety improvement for bicyclists







Separated Bike Lane

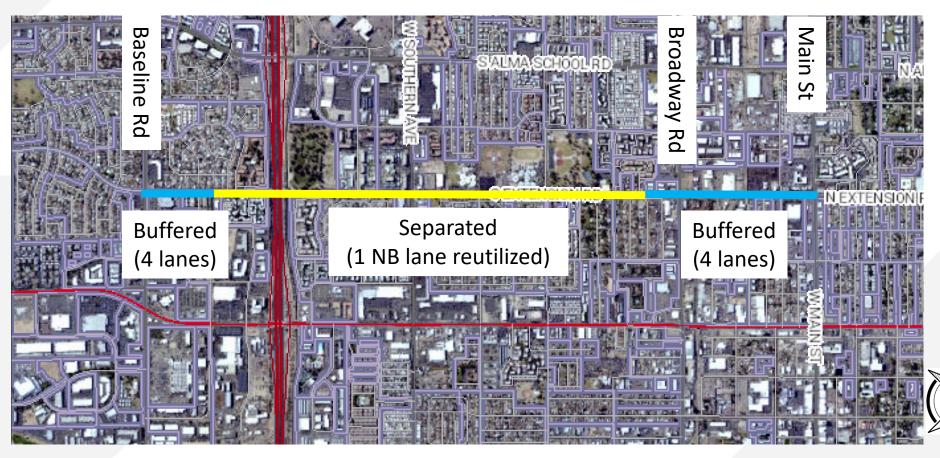


Buffered Bike Lane









# **Next Steps**



- Mill and overlay project scheduled to start April 2025
- Provide direction and install enhanced bike lanes on Extension Road



