

2100 South Capstone Class - Discussion

05/17/2021

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Overview

- Spring Semester:
 - Primary Goal: Provide educational experience
 - Secondary Goal: Get some creative ideas that could go into concept study/design
- Fall Semester Goal: Experience developing design
- Today's Goal: Get feedback to develop concept(s) for students to work on this fall
- ACTUAL project will begin sometime in 2022

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Structure of Spring Semester

- 8 groups broken into 4 categories with 4 external mentors:
 - Transit
 - Bike
 - Pedestrian
 - Emerging Technologies



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Existing Conditions

- Cross-section varies (4 or 5 lanes)
- Traffic Volumes
 - 22,000 – 28,000 Daily Vehicle Trips (2019, UDOT)
 - In 2010 these volumes were in similar ranges (22K-26K)
- Transit Ridership
 - FTN Route 21 = 2,100 daily trips (2019, UTA)
 - S-Line ridership = 1,300 daily trips (2019, UTA)
 - In 2010 (before S-Line), Route 21 was 2000 daily trips

Outcomes: Pedestrians

- Eliminate on-street parking and widen sidewalks and add pedestrian features
- Eliminate center median in locations to reallocate space to sidewalk. Add a median and restrict lefts.
- Narrow sidewalks on the north side and widen sidewalk on the south side (6' on north 12' on South) so that we can focus on making one side of the street really ped friendly. They call this an "offset sidewalk"
- Go to 3-lane cross-section in select areas and add bike lanes and sidewalks



Outcomes: Bike

- West of McClelland: Eliminate turn lane and add raised bike lanes
- East of McClelland: Eliminate a through lane in each direction and add raised bike lanes and widen sidewalks
 - Go to 3-lane cross-section and add a Separated Bike Lane
- Eliminate Park Strips and Add Bike Lanes



Outcomes: Transit – Business Access Transit (BAT) Lanes



Figure 1- Existing Cross Section at Douglas Street

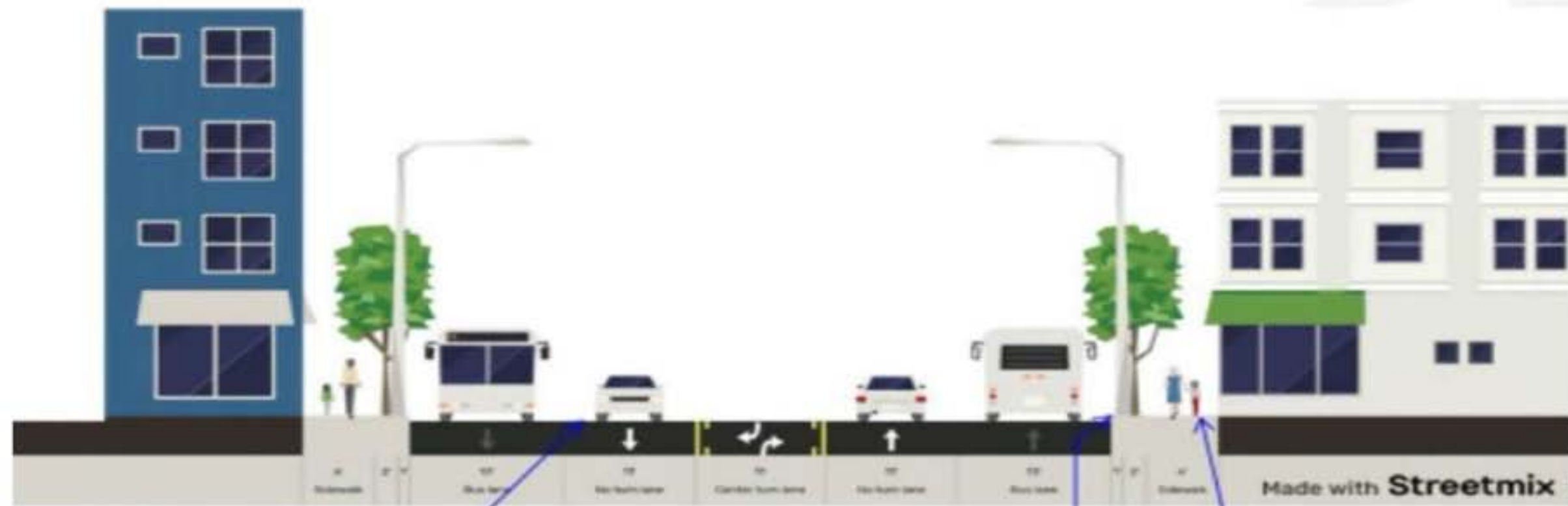


Figure 2- Proposed BAT Lane Cross Section at Douglas Street

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Outcomes: Emerging Technology



Lighted Crosswalks at Intersections and Mid-Block Crossings



V2I Sensors that communicate with Autonomous/Connected Vehicles/Buses

Possible Van Gogh Sidewalk



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Feedback / Discussion

- This is NOT for final decision on roadway – just a flavor for where this group is at
- Can't have it all: Something will have to give!
 - 4-5 lanes vs. 3 lanes + Amenities?
 - Trees?
 - Parking?
 - Bike Lanes?
 - Wider Sidewalks?
 - Transit Enhancements?
 - Park Strips?
 - Street Furniture?
 - Center Islands/Medians
 - Turn Restrictions?
 - Park Strips vs Tree Wells?
 - Frequency of Pedestrian Crossings
- What should be our priority? Transit? Bike/Ped?
- Form vs Function?

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