

TUESDAY MAY 12 2020 9 A.M. Coffee and Conversation with Kimley-Horn's Jeff Whitacre

Best Practices for Design and Planning for Pedestrians and Cyclists





COFFEE AND CONVERSATIONS

HOSTED BY JEFF WHITACRE

OVERVIEW – WHAT ARE THE C'S OF CYCLING



- Coherent
- Comfortable
- Complete
- Compliant
- Connected
- Constructible
- Continuous
- Culture
- Bonus: Context

Plan Appropriately; Design Accordingly; Consider Beyond the Rights-of-Way



COMFORTABLE – BEST PRACTICE SEPARATION

 Separated bike lanes, also known as protected bike lanes or cycle tracks, dedicate exclusive space for bicyclists that is on-street or adjacent to the street and provide some type of vertical separation between the bike lane and motor vehicle traffic.

National Design Guidance

- An increasing amount of guidance for the proper design of separated facilities is now available:
 - AASHTO Guide for the Development of Bicycle Facilities
 - Institute of Transportation Engineers (ITE)
 - National Association of City Transportation Officials (NACTO)
 - Federal Highway Administration (FHWA)
 - Massachusetts Department of Transportation (MassDOT)
 - Minnesota Department of Transportation (2020)
 - TxDOT 2021?



HOW COMFORTABLE?

Most Separation







Increased bicycle ridership

Safer and more comfortable bicycling

Increased comfort and predictability for drivers

Reduced sidewalk bicycling

Calmer traffic and safer streets for pedestrians

Supported economic growth









Buffered Bike Lanes

TYPES OF SEPARATION REMOVABLE/SEMI-PERMANENT OPTIONS

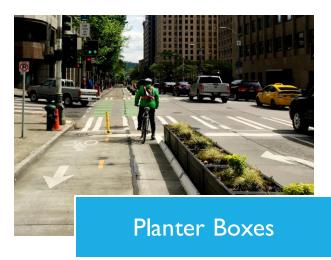




TYPES OF SEPARATION REMOVABLE/SEMI-PERMANENT OPTIONS







TYPES OF SEPARATION PERMANENT OPTIONS



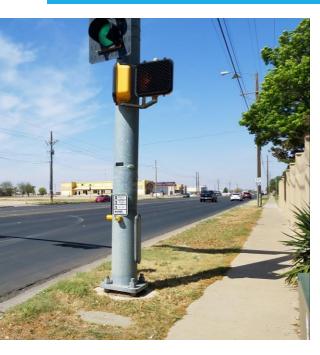




COMFORTABLE COLLEGE STATION



COMFORTABLE SIDEWALK WIDTHS AND BUFFERS









CONTINUOUS: DON'T GIVE UP AT THE INTERSECTION

INTERSECTION STRATEGIES



Green
Colored
Pavement

Driveways & Unsignalized Intersections

Approaching Signalized Intersections:

Right-Turns!

INTERSECTION STRATEGIES



Two-Stage Turn Queue Box Bike Box

Protected Intersection



MID-BLOCK CROSSINGS



High Visibility

– Marked

Crosswalks

"Local and Minor Collectors"

Active

RRFB

"Major Collectors" Stop

PHB

"Arterials"

CONTINUOUS COLLEGE STATION



University & College/Bizzell

University & Asbury



CONSTRUCTIBLE



Simple but Effective

Converting Collectors
Can be Cost Effective

Raised Pavement Markers between 2 layers of white thermoplastic

CONSTRUCTIBLE DON'T FORGET MAINTAINABLE!



Striping is great, but

- Develop a Maintenance Program
- Conflict Points use Thermoplastic

COMPLIANT

Shared Paths need to be ADA **Compliant**

- Grades can be deceiving
- Ramps can be complicated



Figure 1. All Ages and Abilities bicycle riders (top) and pedestrians (bottom)

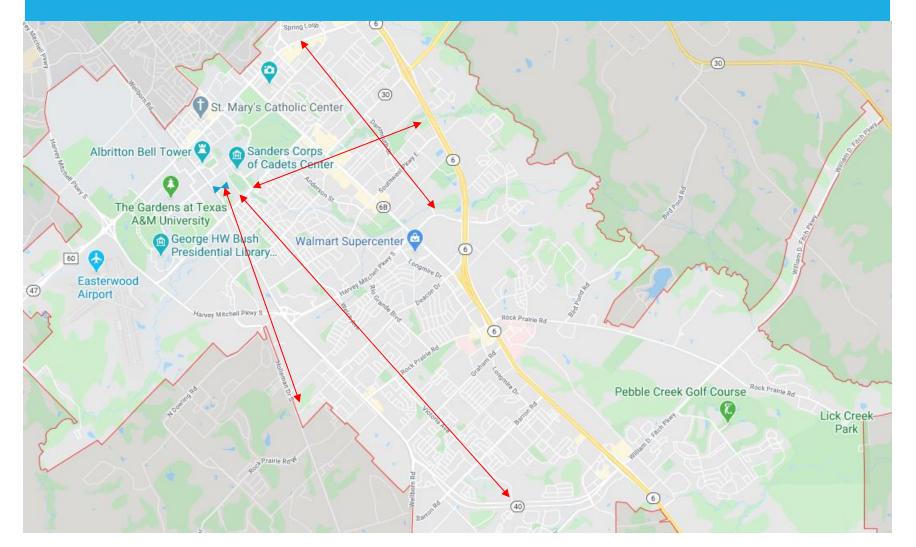




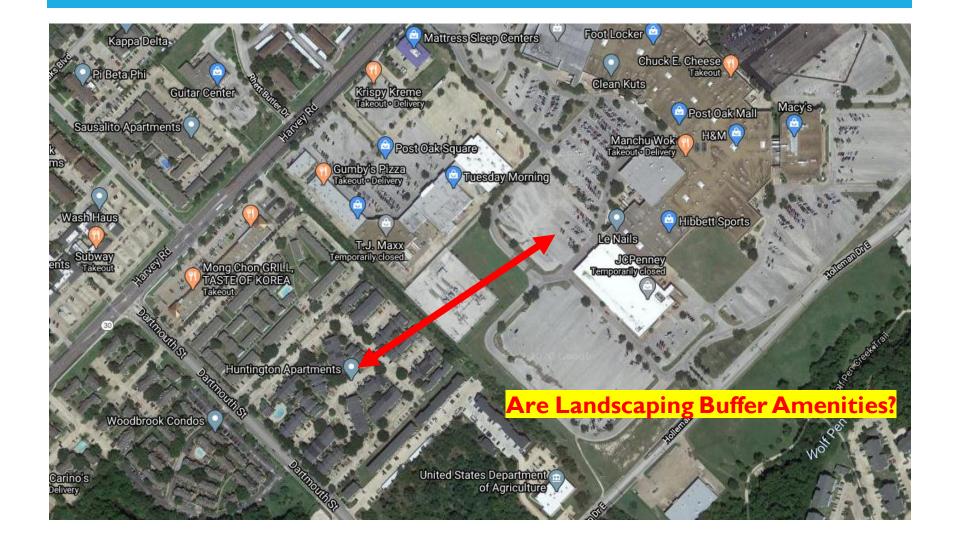
POLLING QUESTION

WHAT'S IMPORTANT?

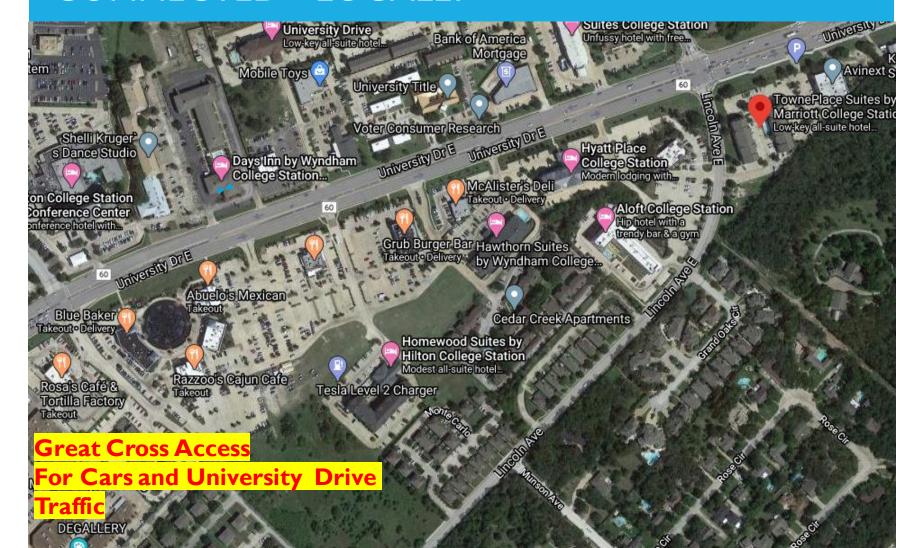
CONNECTED - CITYWIDE



CONNECTED - LOCALLY



CONNECTED - LOCALLY



CONNECTED - LOCALLY



CONNECTED

Intersection Density

- Great indicator of walkability
- Block Length

Collector Network

- Great indicator of bikeability
- Needs to connect

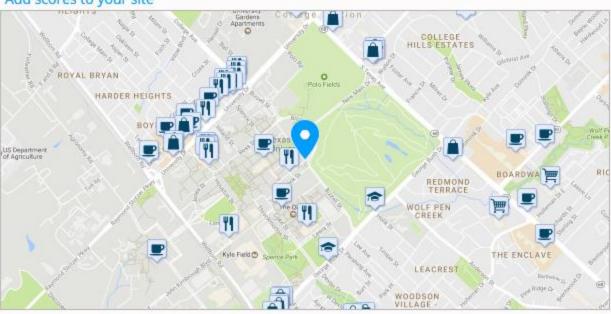


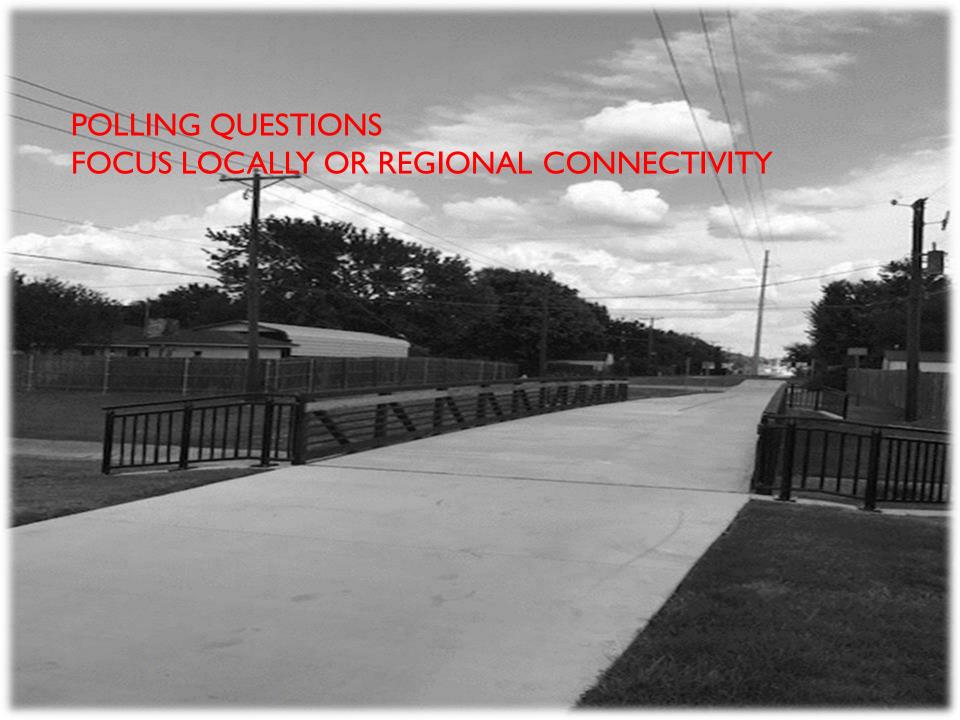
Car-Dependent

Most errands require a car.

About your score

Add scores to your site





COHERENT

- Bike App
- Pedestrian Standards in a Parking Lot
- Signage and Wayfinding
- MarkedCrosswalks





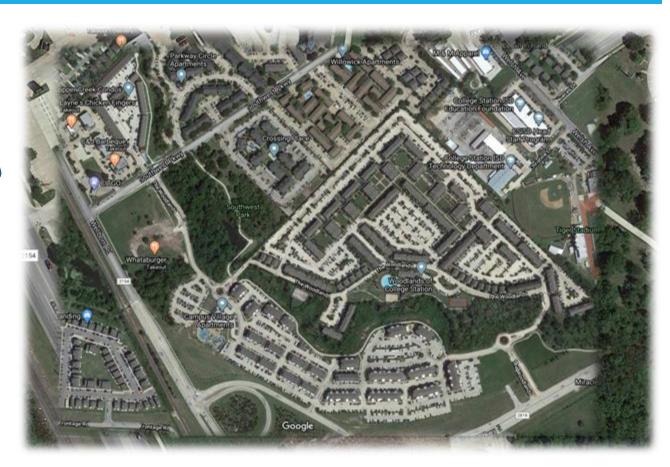
Bicycle Wayfinding Dot



Bicycle Wayfinding Sign

COMPLETE

- Every vehicle becomes has a future pedestrian trip
- Everyone transit stop has a pedestrian
- Cyclists have to park too









CULTURE



- Bicycle and PedestrianAdvisory Board with aBudget
- Walk and Bike Friendly
 City
- Bicycle Patrols
- Open Streets (Even Permanent)
- Distribute bike lights, etc
- Bicycle Benefits Program
- Data...
- Completes Streets tied
 Safety Program



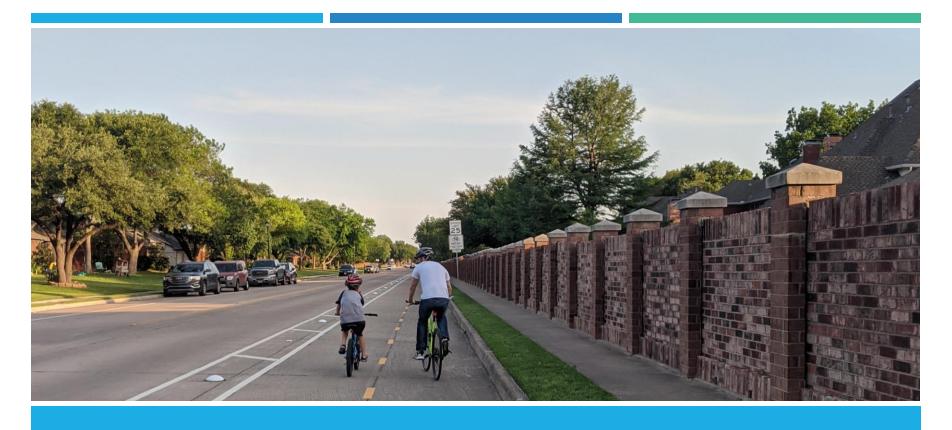


CONTEXT – CREATE SOCIAL EXPERIENCE





- Pedestrians and Cyclists Choose Routes Differently
- 3 mph or 10 mph can observe things different
- Like to ride together and talk
- Details matter



LET'S ASK AGAIN? FEEDBACK?