

City of Bryan Transportation Plans

Public Input Meeting

July 2016

Transportation Plans

- Comprehensive Plan
 - Guide for growth, development, and land use
 - Adopted 2007
 - City and Consultant are updating
 - CPAC
 - Public meetings
 - City staff are revising Chapter 6 - Transportation
 - Thoroughfare Plan
 - Hike and Bike Plan
 - Sidewalk Plan

Thoroughfare Plan

- Guiding document
- Orderly development and connectivity
- Compatibility of roadways
- 20-50 year planning horizon
- Not tied to funding
- Mobility versus access

Mobility vs. Access

American Association of State Highway & Transportation Officials (AASHTO)

Arterial Streets

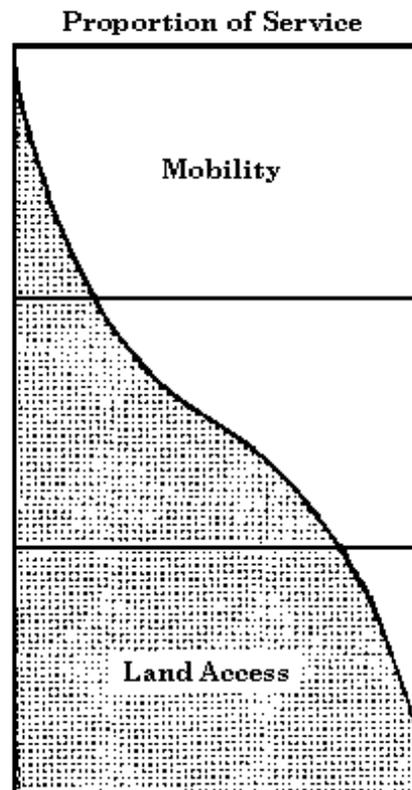
Freeway
Major Arterial
Minor Arterial

Collector Streets

Major Collector
Minor Collector

Local Streets

Residential Street
Cul-De-Sac



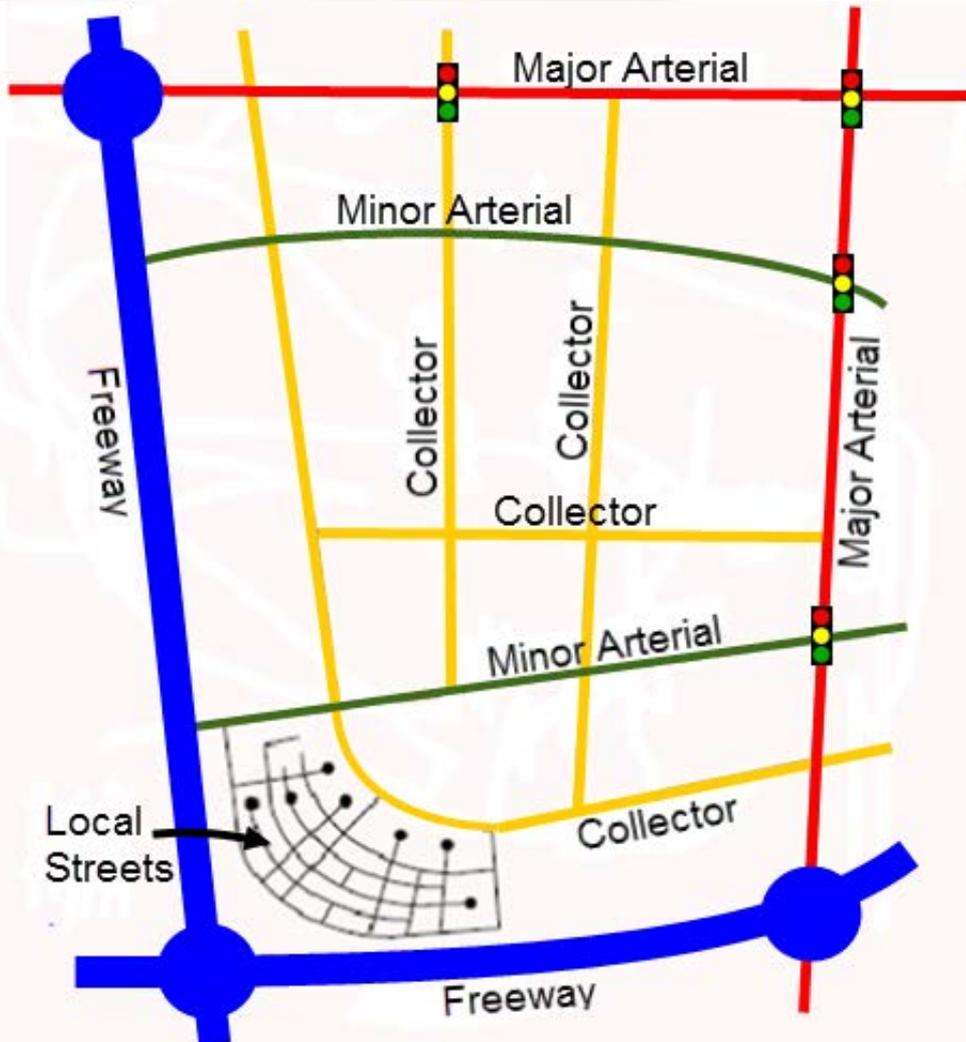
Mobility



Speed &
Volume

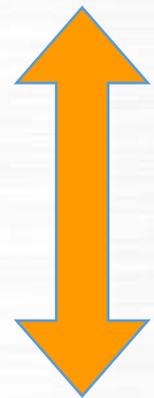
Access

Functional Classification



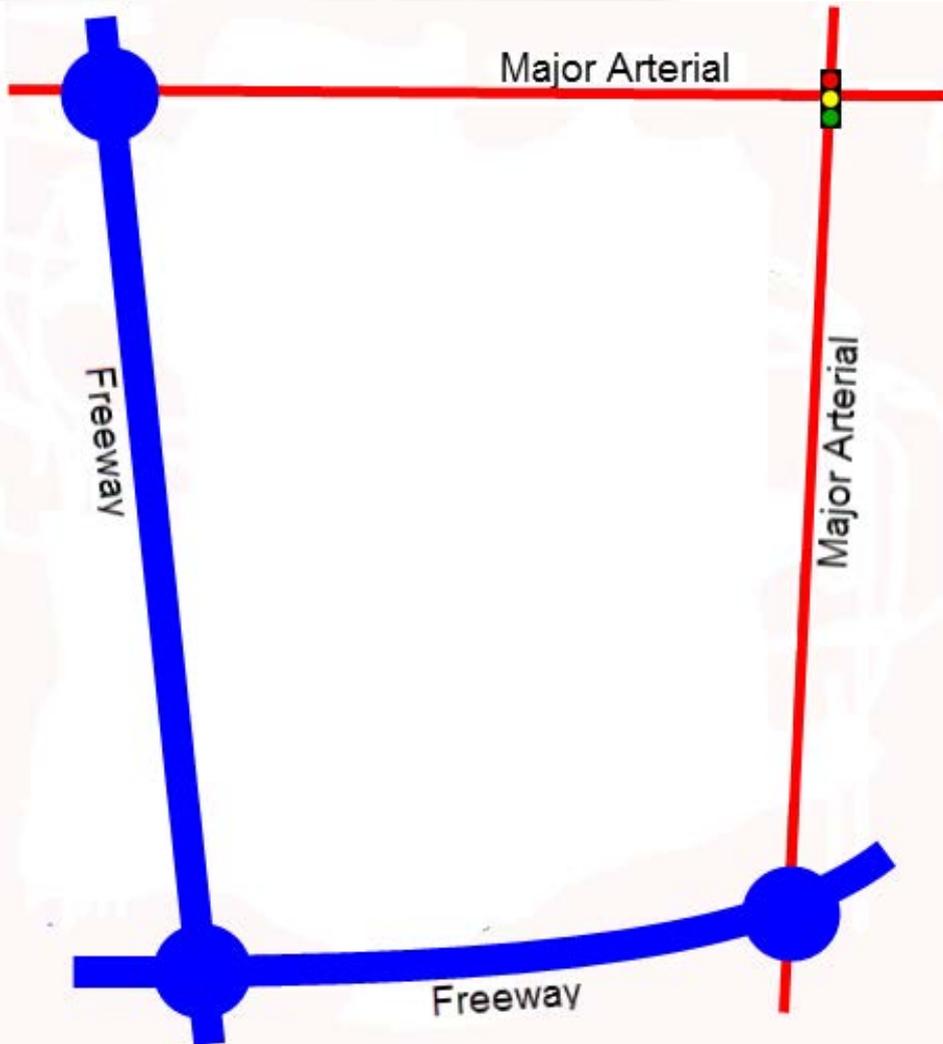
Roadway Hierarchy (AASHTO):

1. Freeways
2. Ramps
3. Arterials
4. Collectors
5. Local Streets
6. Driveways



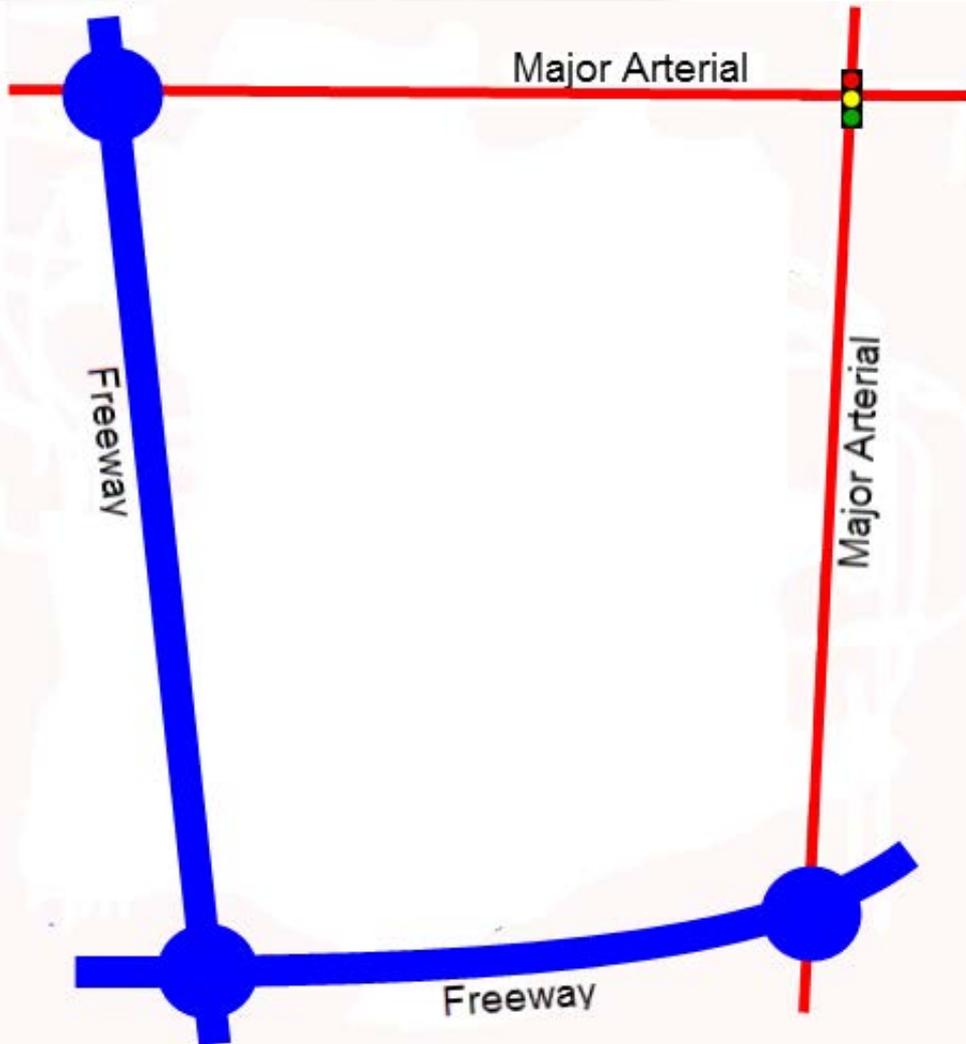
Speed & Volume

Freeways



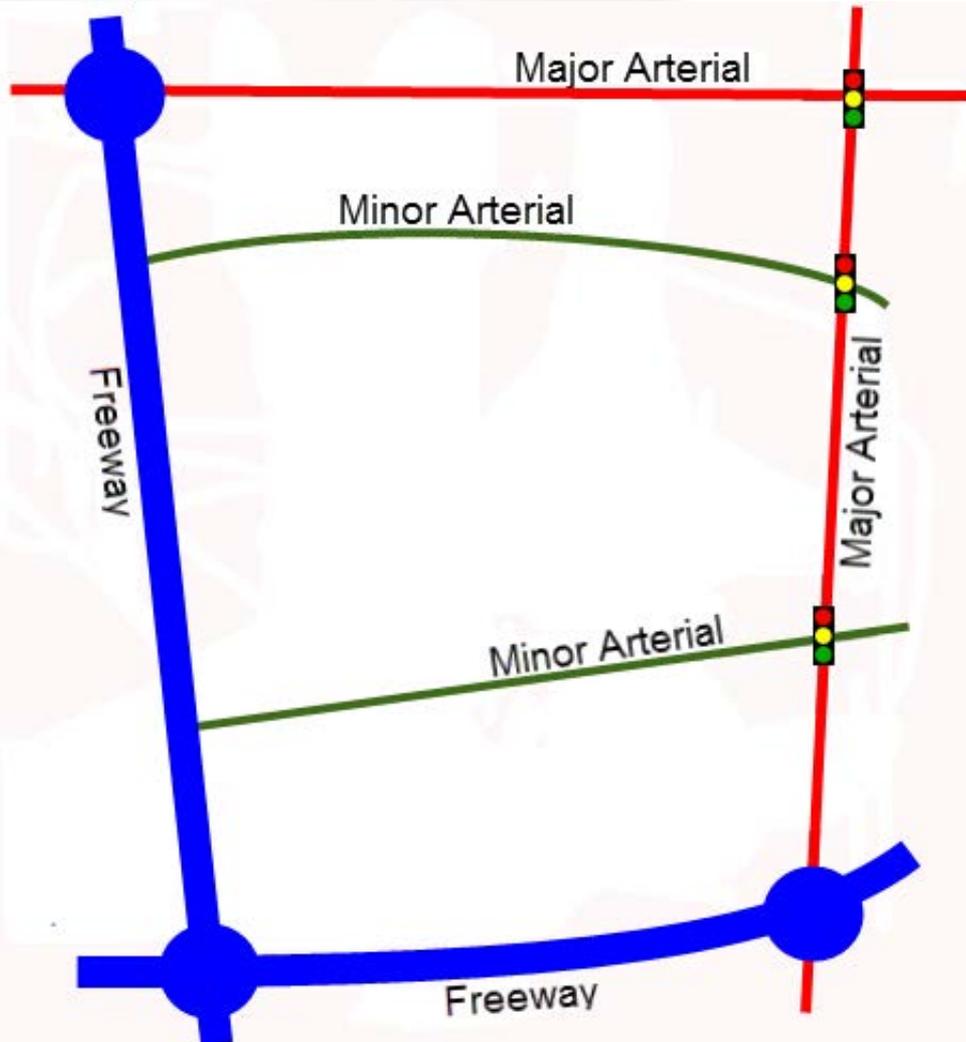
- Move traffic in and out of the City
 - Controlled Access facilities (ramps)
- Spacing:
 - 5 to 6 Miles
- Examples:
 - SH 6 (Earl Rudder)
- Typical Volumes:
 - 50,000+ vpd
 - SH6@FM1179-61,500 vpd
 - SH6@FM158-67,400 vpd
 - SH6@Old Rel-53,800 vpd

Major Arterial



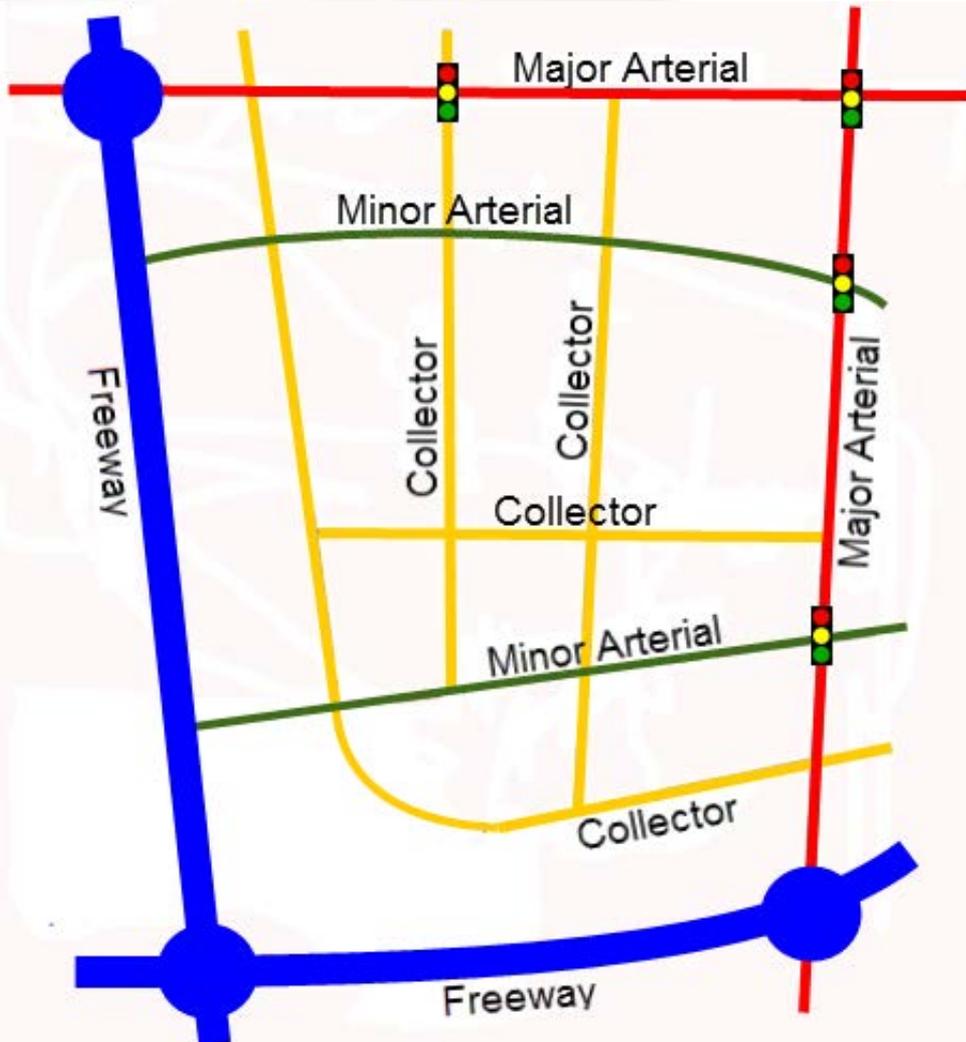
- Move traffic in, out, or around City
- Spacing:
 - 3 Mile
- Examples:
 - Texas Ave (Bus. SH6)
 - Briarcrest (FM1179)
 - Boonville (FM158)
- Typical Volumes:
 - 20,000 to 60,000 vpd
 - Texas@VM-21,000 vpd
 - VM@Texas-28,000 vpd
 - WJB@SH6-35,000 vpd

Minor Arterial



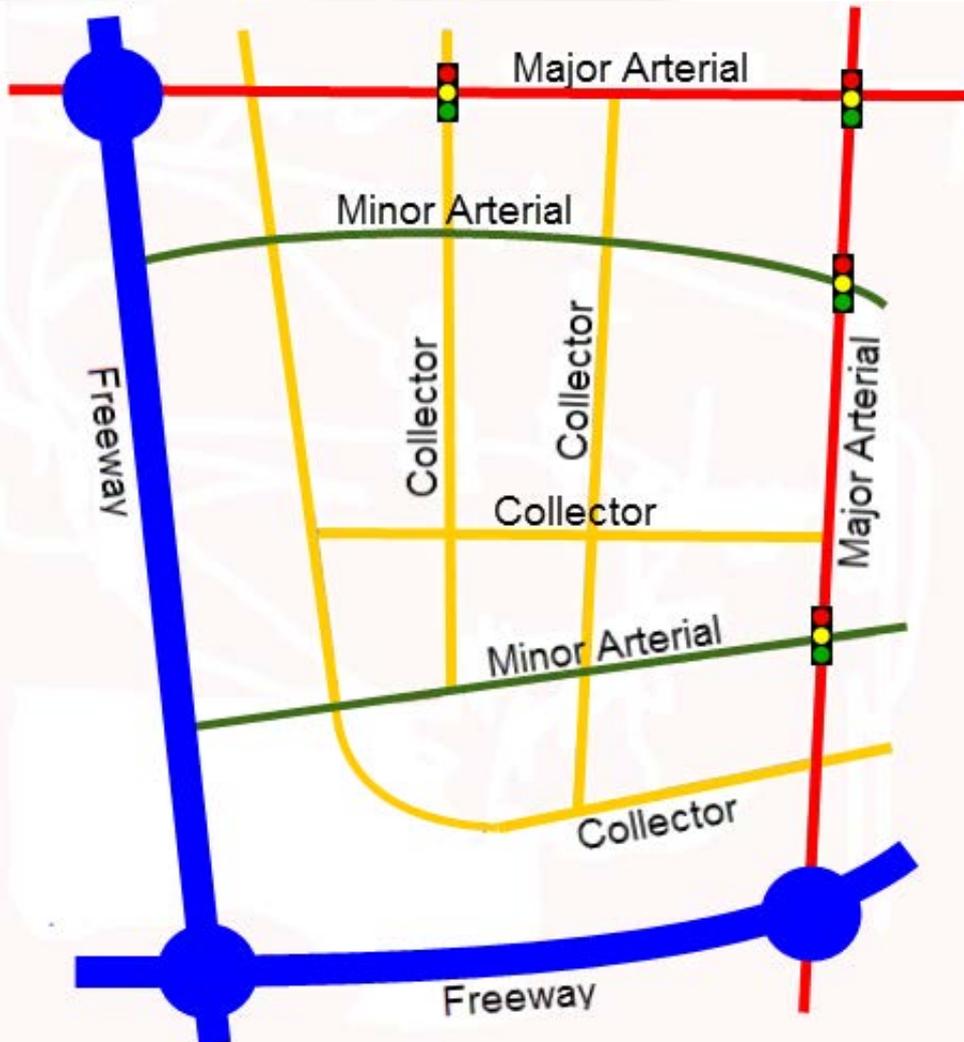
- Move traffic around City
- Spacing:
 - 1 Mile
- Example of Minor Arterials:
 - 29th Street
 - South College
 - Finfeather Rd
- Typical Volumes:
 - 5,000 to 30,000 vpd
 - S.College@VM:11,000 vpd
 - 29th@Joseph:9,000 vpd

Major Collectors



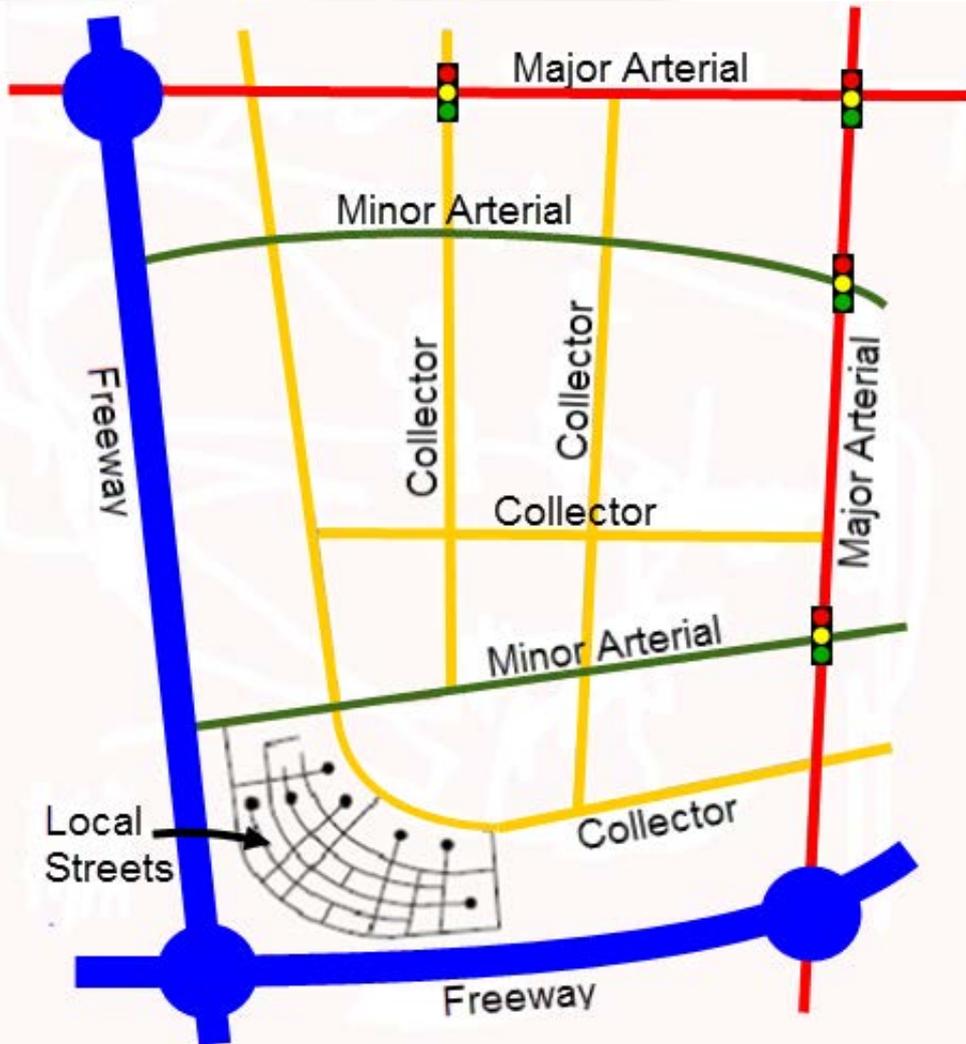
- Moves traffic from Minor Collectors and residential streets to Arterials
- Spacing:
 - 1/2 Mile
- Example of Major Collectors:
 - Coulter Drive
 - Thornberry
 - Copperfield Dr
- Typical Volumes:
 - 5,000 to 10,000 vpd

Minor Collectors – not on Thoroughfare Plan

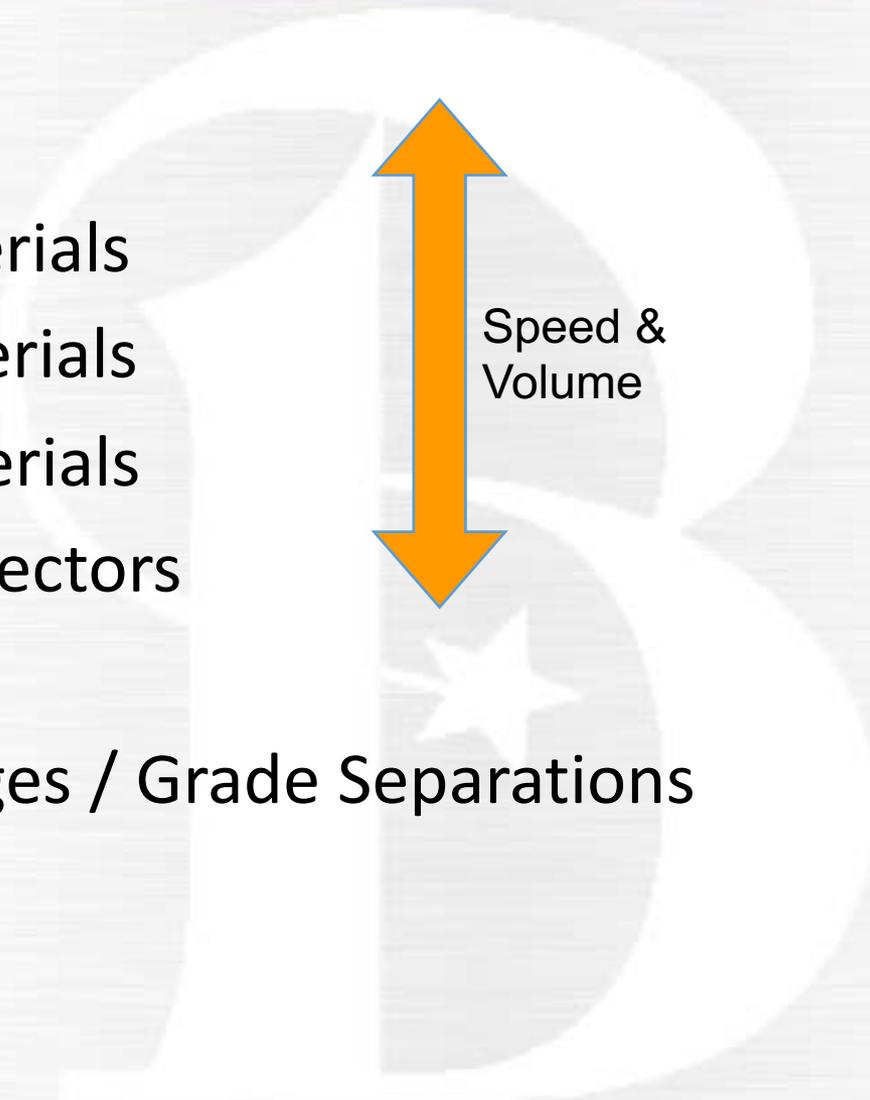


- Moves traffic from residential streets to Major Collectors or Arterials
- Spacing:
 - 1/4 Mile
 - May not be on T-Fare
- Example of Minor Collectors:
 - Carter Creek Pkwy
 - Cavitt Ave
- Typical Volumes:
 - 1,000 to 5,000 vpd

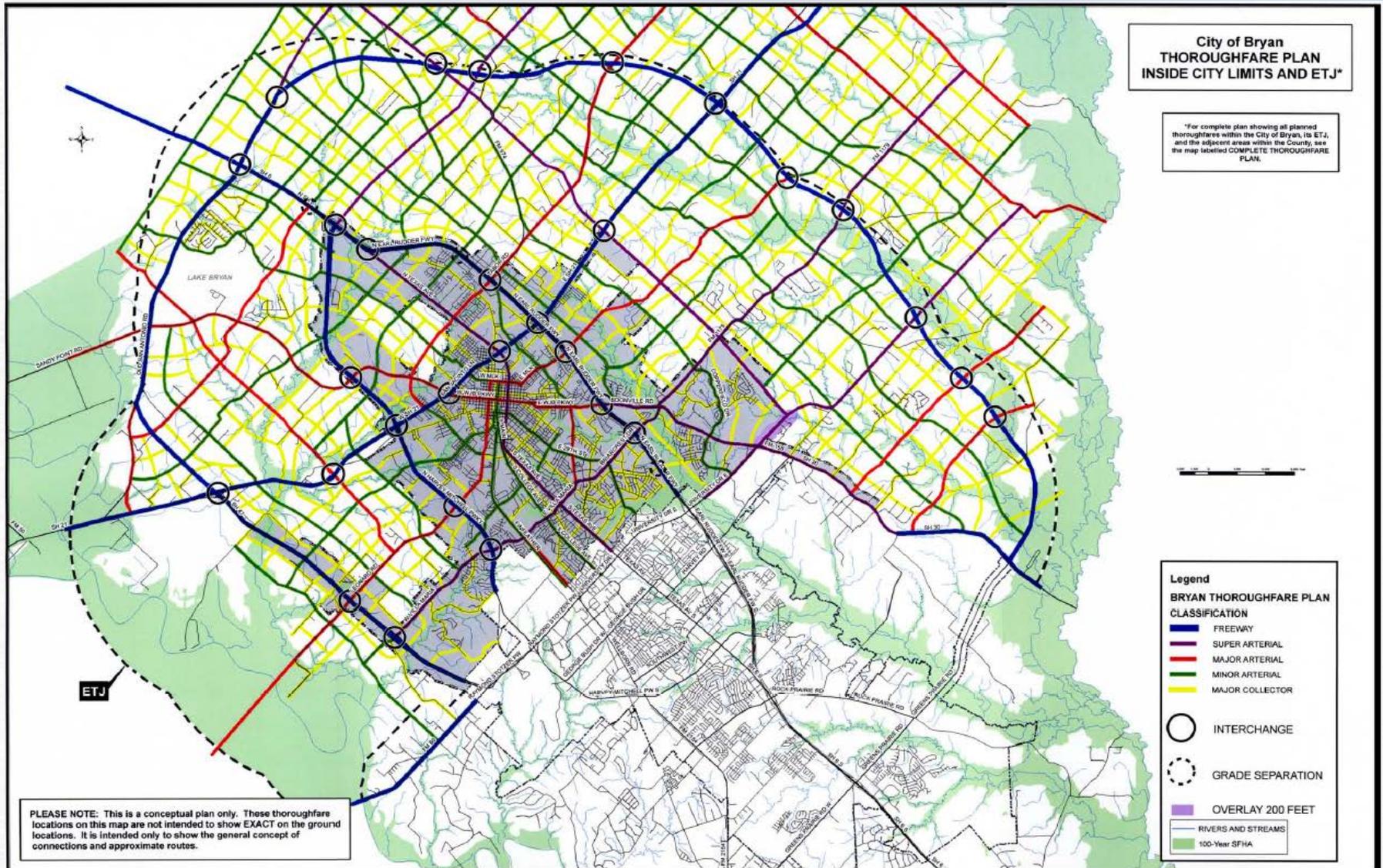
Local Streets – not on Thoroughfare Plan



City of Bryan Thoroughfare Plan

- Freeways
 - Super Arterials
 - Major Arterials
 - Minor Arterials
 - Major Collectors
- 
- Speed & Volume
- Interchanges / Grade Separations

Current City of Bryan Thoroughfare Plan



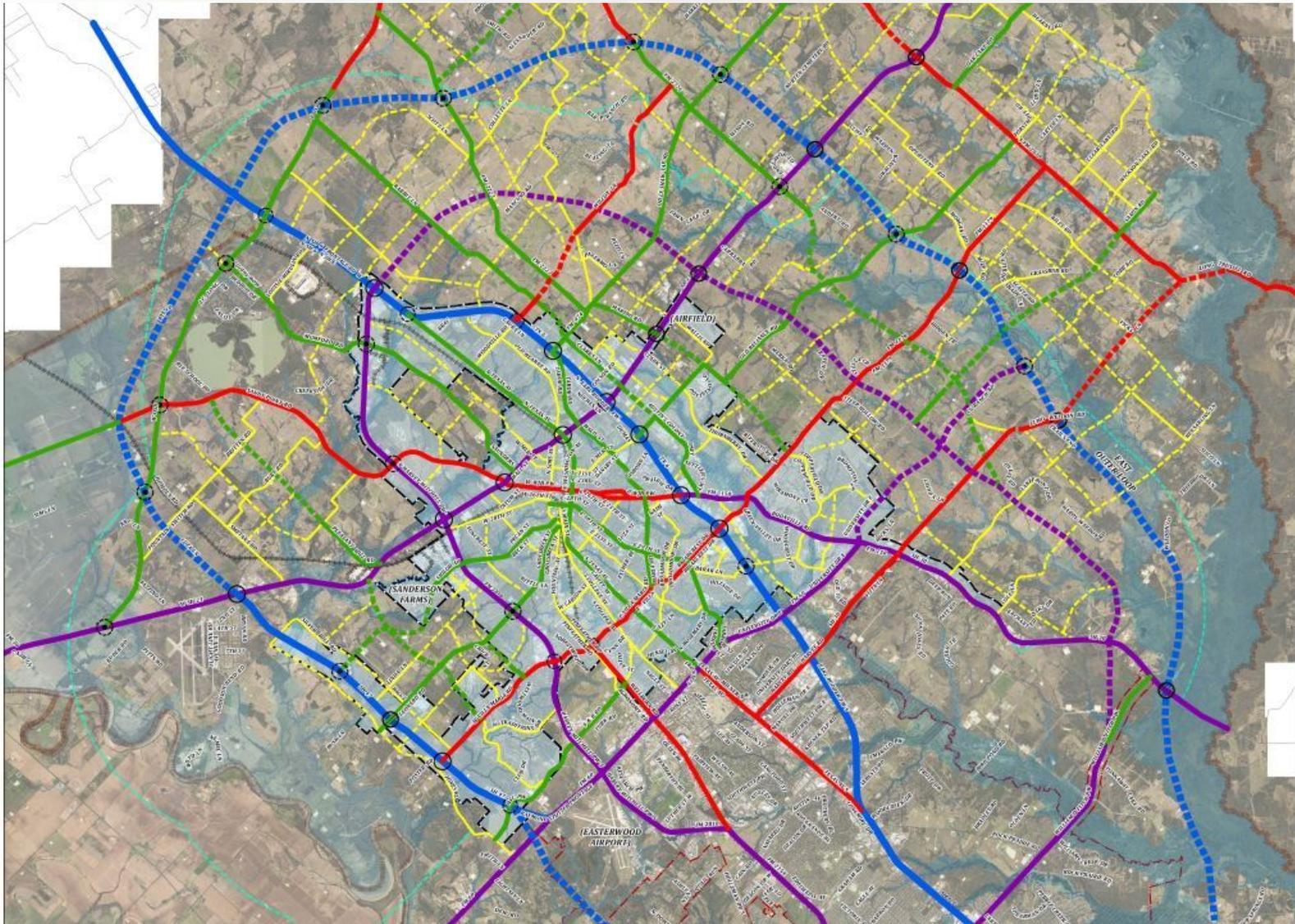
Implement - Development

B/CS Design Guidelines

TABLE IV - MINIMUM GEOMETRIC DESIGN CRITERIA FOR NEW CONSTRUCTION

	Alley	Residential	NTD Residential Streets ¹	Rural ⁴ Residential	Rural ⁴ Collector	Minor Collector/ Commercial Street	Major Collector	Minor Arterial Divided	Minor Arterial Divided	Major Arterial
ROW ²	24'	50'	50'	70'	100'	60' ⁷	80'	100'	100'	120'
Pavement Width ³	12'	27'	24'	24'	30'	38'	54'	70'	72' or 78'	96'
Traffic Lanes	N/A	2	2	2	2	2 or 3	3 or 4	5	4	6
Lane Width ⁵	N/A	N/A	N/A	12'	15'	12'	12' or 12'/15' ⁵	12.5'/15' ⁵	12.5'/15' or 12.5'/12' ⁵	12.5'/12'/15' ⁵
Curb	None	Laydown or standard	Laydown or standard	None ⁶	None	Standard	Standard	Standard	Standard	Standard
Shoulder Width	N/A	N/A	N/A	2 @ 3' Ea ⁶	2 @ 3' Ea ⁶	N/A	N/A	N/A	N/A	N/A
Left Turn Lane Width	None	None	None	None	None	Permitted (14')	Permitted (16')	Permitted (15')	None	None
Parking	None	Permitted	One Side Only	None	None	Permitted w/out bike lanes	None	None	None	None
Raised Medians	None	None	None	None	None	None	None	None	17'	17'
Sidewalks Req./Width	None	Per local Subdivision Ordinance/ 5'	Per local Subdivision Ordinance/ 5'	None	None	Both/ 6' ⁸	Both/ 6' ⁸	Both/ 6' ⁸	Both/ 6' ⁸	Both/ 6' ⁸
Bike Lanes	N/A	N/A	N/A	N/A	N/A	Permitted per bicycle plan	Permitted per bicycle plan	N/A	Permitted per bicycle plan	N/A

Proposed Thoroughfare Plan



Highlights of Proposed Thoroughfare Plan

- Logical changes
 - Align with existing roadways
 - Acknowledge obstacles
 - Floodplain
 - Railroad
 - Existing buildings and facilities
 - Inner Loop (FM2818, within Wickson Creek, SH40, FM2154)
 - Outer Loop (SH47, north of OSR, inside FM2038)
 - Texas Ave. & S. College Ave. reclassification (Major to Minor Arterial)
- Other influences
 - Gulf Coast Strategic Highway (I-14)
 - Texas Central Rail
- Incomplete tasks
 - Blinn College/Texas A&M RELLIS campus
 - Regional Thoroughfare Plan (MPO/County/COG)

Hike and Bike Plan

- New plan, not an update
 - City staff test rode most bike routes
- Guiding document
- Connectivity
- 20 year planning horizon

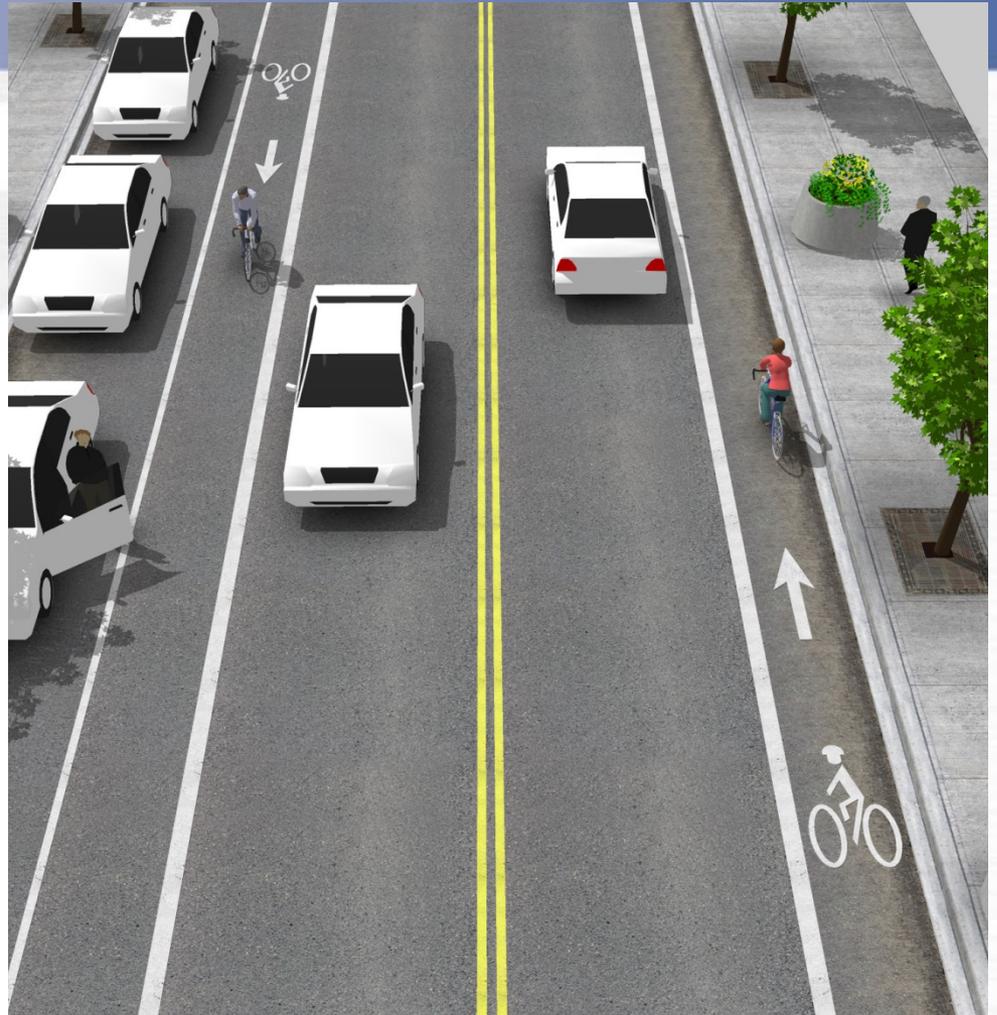
Classifications

- Bike Lane
 - Bike Route
 - Future
 - CoCS/TAMU (College Station/Texas A&M)
 - Cycle Track
 - Shared Use Path
 - Trail
 - *Proposed versus Existing*
- 
- A large, light-colored, stylized letter 'B' is centered in the background. The 'B' is composed of several curved segments. A white five-pointed star is positioned in the lower right quadrant of the 'B'.

Bike Lane

- Characteristics
 - Minor Arterials and Collectors (moderate volume and speed)
 - Pavement markings
 - 4' - 6' wide
- Examples
 - College Main Street
 - N. Coulter Drive
 - S. Main Street
 - S. College Avenue

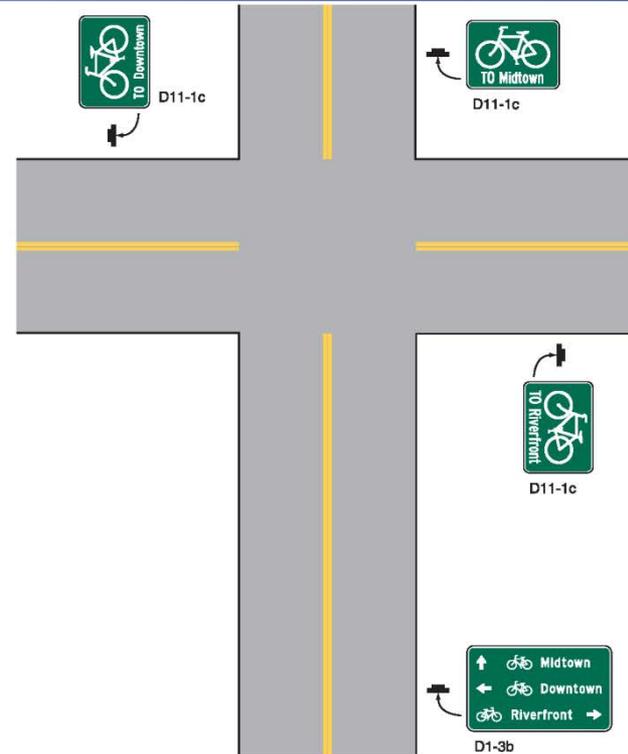
<http://nacto.org/publication/urban-bikeway-design-guide/bike-lanes/conventional-bike-lanes/>



Bike Route

- Characteristics
 - Collectors and Local Streets (low volume and speed)
 - Roadway shared by vehicles and cyclists
 - Signs
- Examples
 - College Station

<http://ftp.dot.state.tx.us/pub/txdot-info/trf/tmutcd/2011-rev-2/revision-2.pdf>

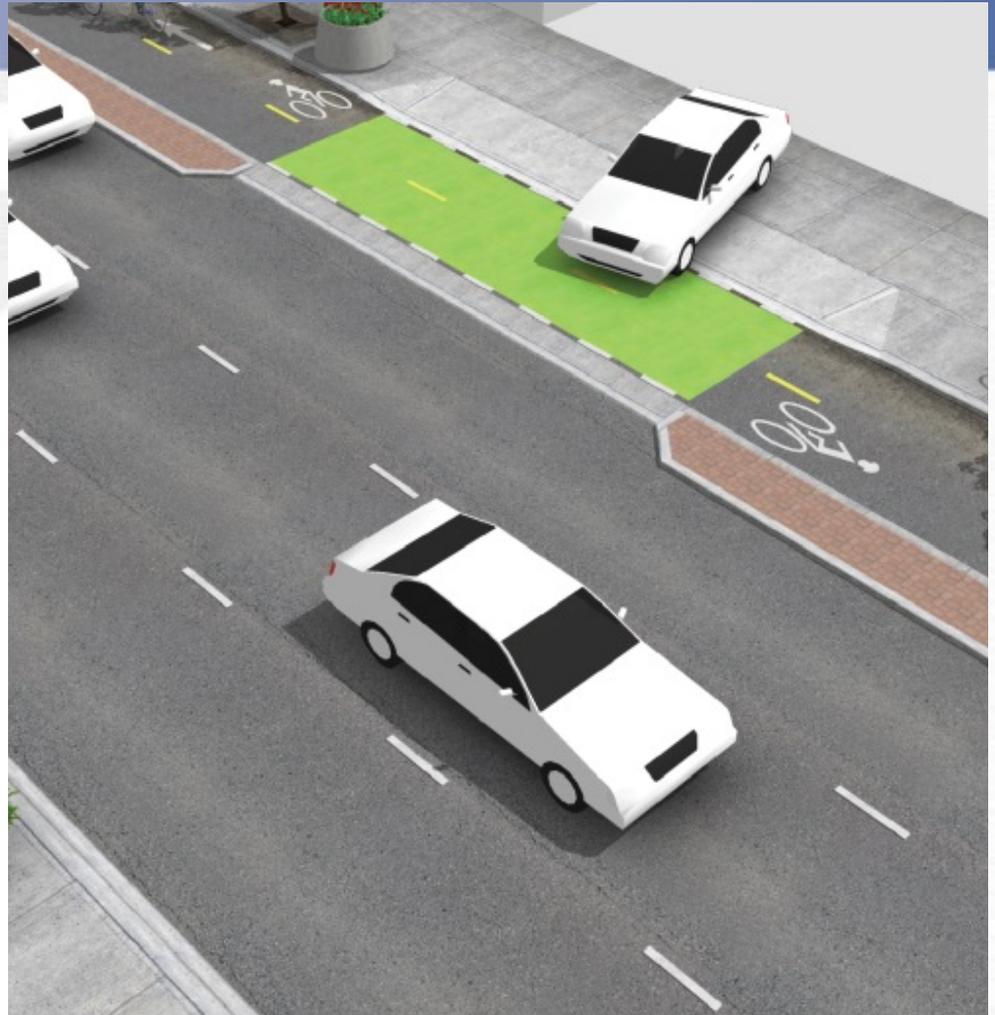


- ⁰³ If used, Advance Turn Arrow (M5 series) and Directional Arrow (M6 series) auxiliary plaques (see Figure 9B-4) should be mounted below the appropriate Bike Route Guide sign, Bicycle Route sign, or U.S. Bicycle Route sign.
- ⁰⁴ Except for the M4-8 plaque, all route sign auxiliary plaques should match the color combination of the route sign that they supplement.
- ⁰⁵ Route sign auxiliary plaques carrying word legends that are used on bicycle routes should have a minimum size of 12 x 6 inches. Route sign auxiliary plaques carrying arrow symbols that are used on bicycle routes should have a minimum size of 12 x 9 inches.
- Option:
- ⁰⁶ With route signs of larger sizes, auxiliary plaques may be suitably enlarged, but not such that they exceed the width of the route sign.

Cycle Track

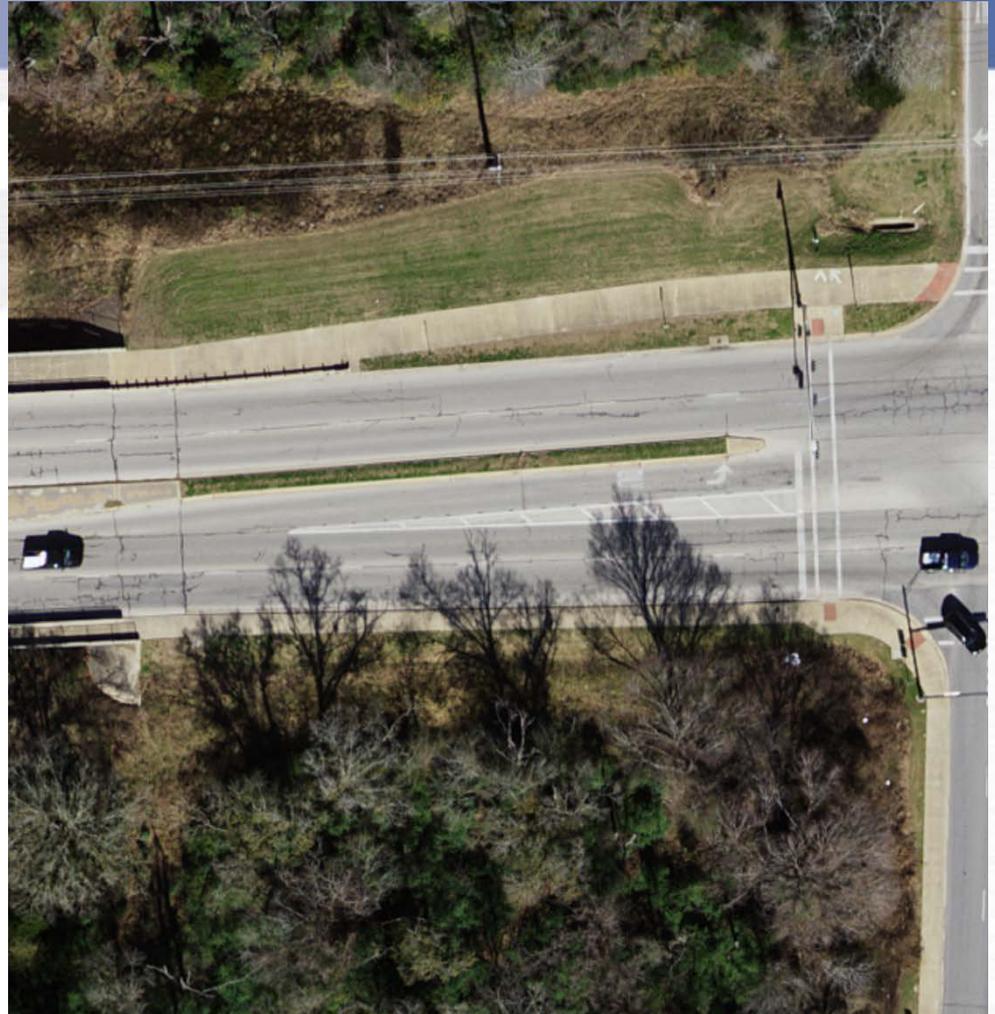
- Characteristics
 - Arterials (high volume and speed)
 - Vertical and/or horizontal separation from vehicles and pedestrians
- Examples
 - Austin

<http://nacto.org/publication/urban-bikeway-design-guide/cycle-tracks/two-way-cycle-tracks/>



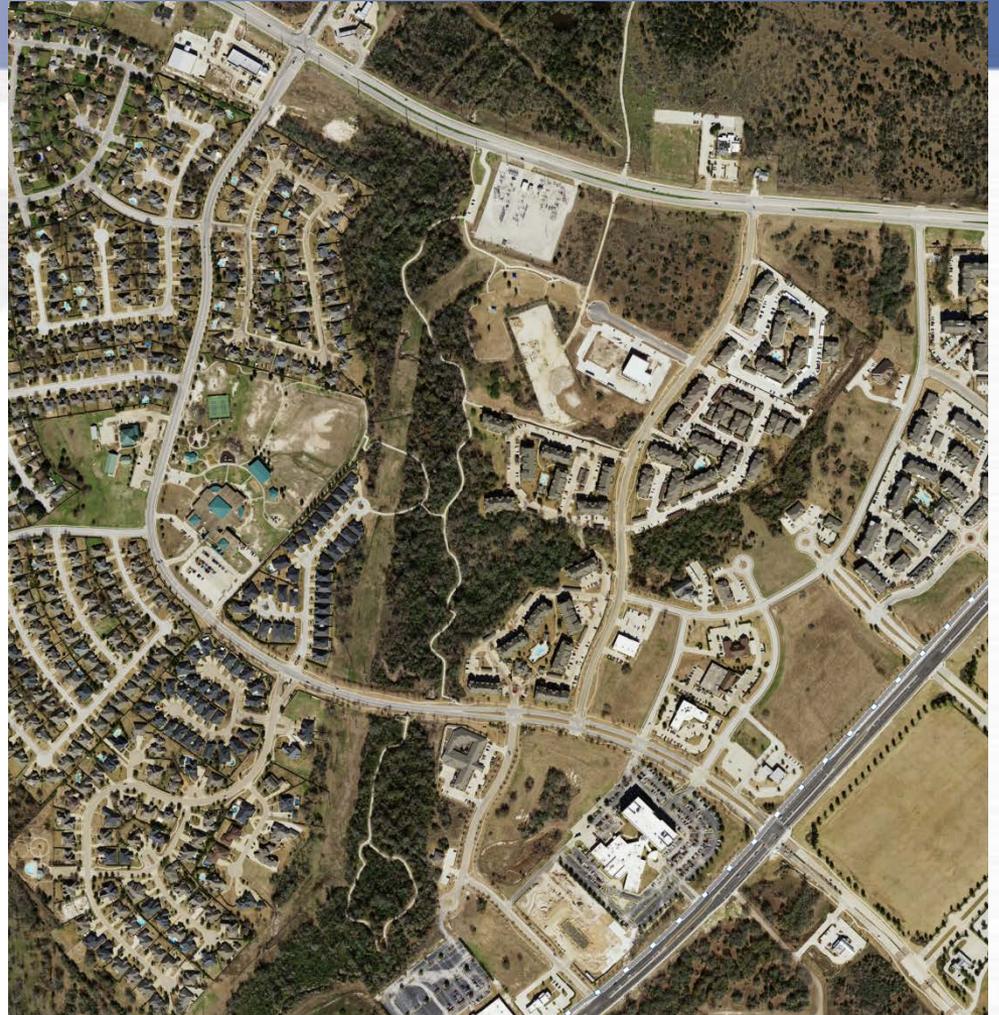
Shared Use Path

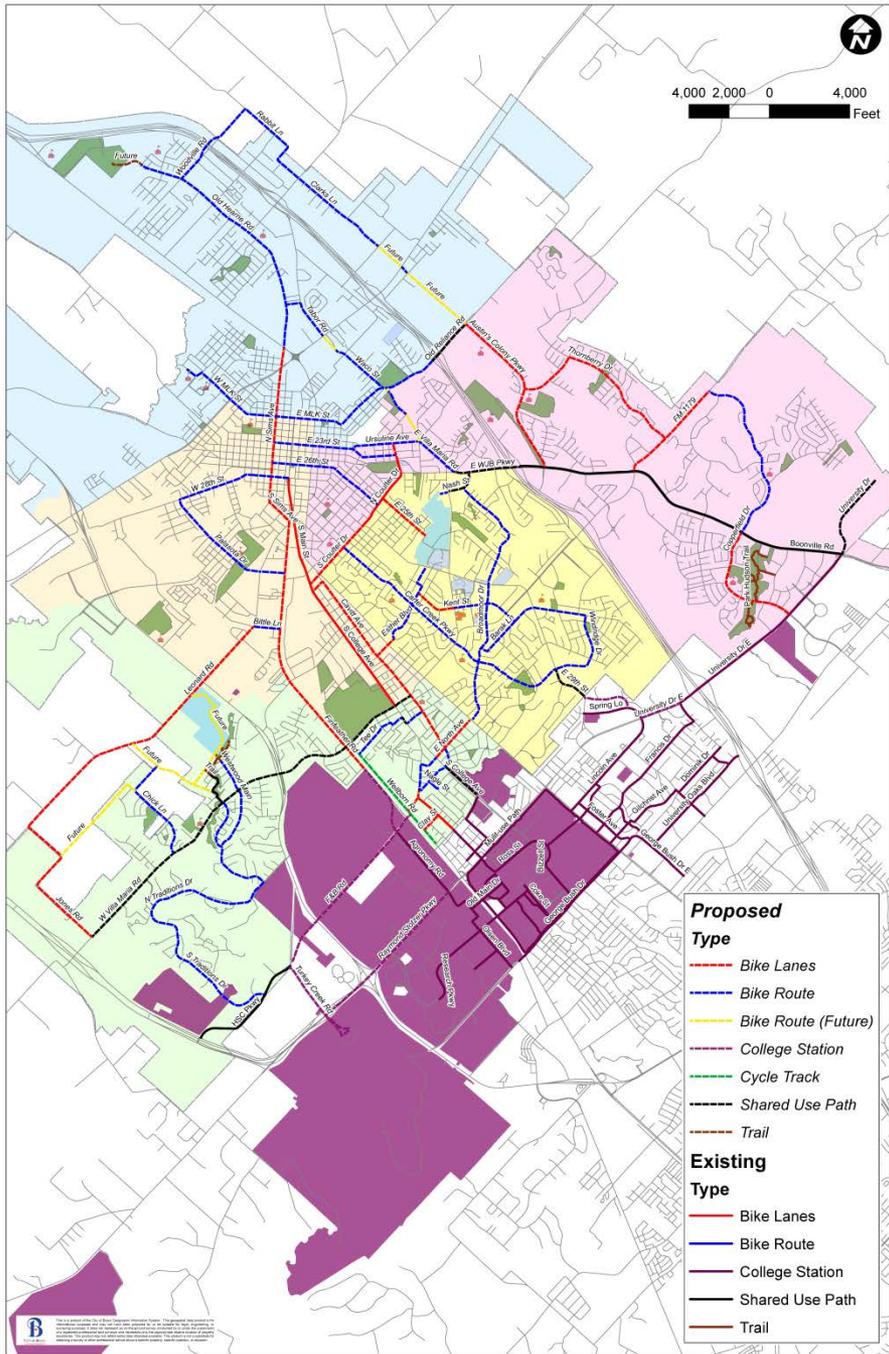
- Characteristics
 - Vertical and horizontal separation from vehicles
 - Shared by cyclists and pedestrians
 - 10' or wider
- Examples
 - Boonville Road (right)



Trails

- Characteristics
 - Off roadway network
 - Shared by cyclists and pedestrians
 - Paved and unpaved
- Examples
 - Park Hudson Trail (right)
 - Turkey Creek Trail





Highlights of Proposed Hike and Bike Plan

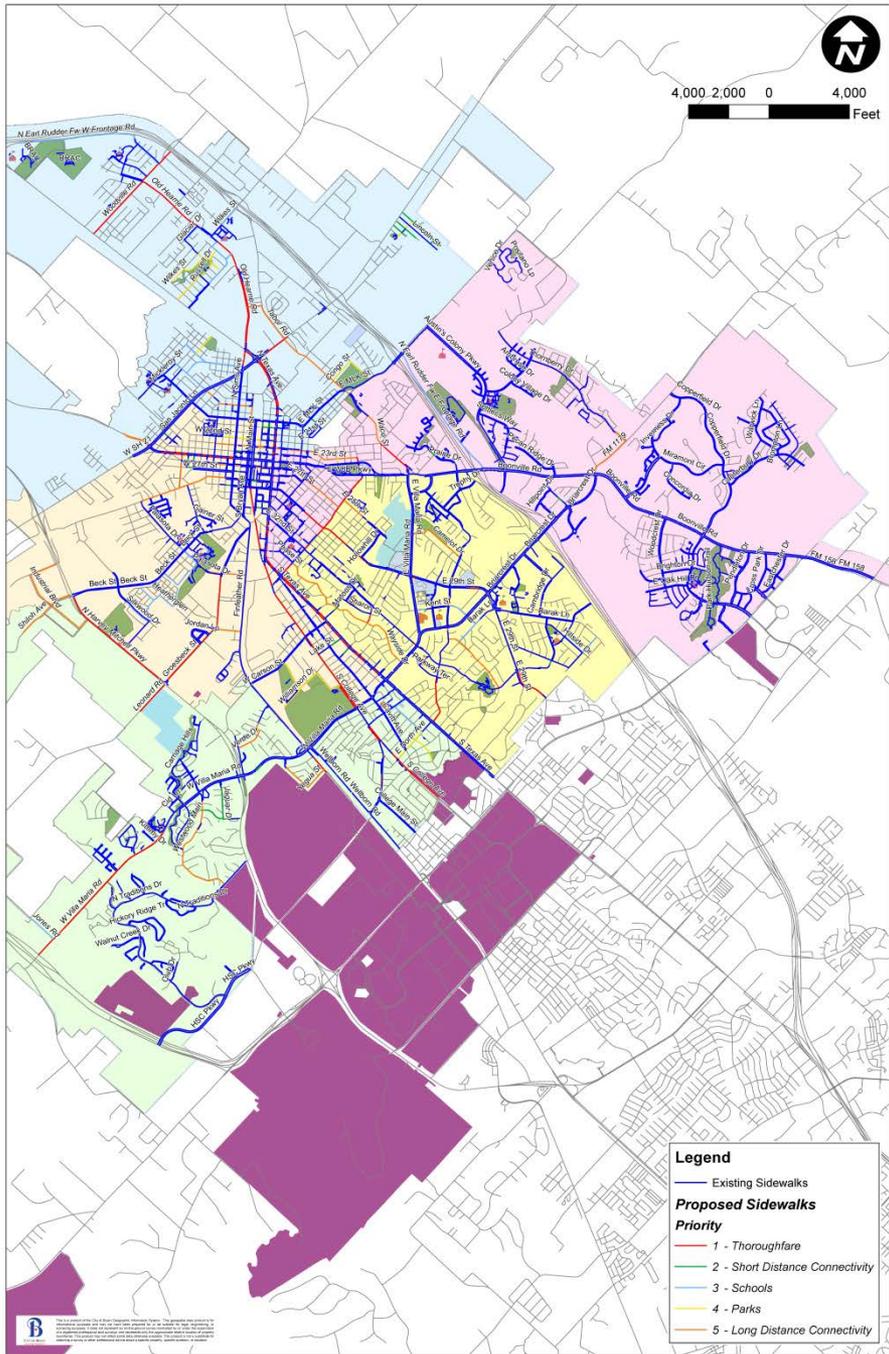
- Goals
 - Safety
 - Sensible routes to common destinations
 - Public schools
 - Parks
 - Blinn College
 - Downtown
 - Neighborhoods
 - Network connectivity
 - Connectivity with College Station and Texas A&M
- Ongoing tasks
 - Relocation of Blinn College to Texas A&M RELLIS campus
 - Coordination with MPO, College Station, and Texas A&M

Sidewalk Plan

- Update of previous plan
 - Newly constructed sidewalks
 - Council, staff, and citizen input
- Guiding document
- Orderly development and connectivity
- 20-50 year planning horizon
- Not tied to funding

Classifications

- Existing
- Proposed
 - Thoroughfare (Priority 1)
 - Short Distance Connectivity (Priority 2)
 - Schools (Priority 3)
 - Parks (Priority 4)
 - Long Distance Connectivity (Priority 5)



Highlights of Sidewalk Plan

- Sidewalks required for new development along curb-and-gutter streets
- Fill missing gaps for connectivity
- Respond to community needs

Questions?

