

Appendix A- Infrastructure Barrier Categories and Rating Criteria

BARRIER CATEGORIES AND RATING CRITERIA OVERVIEW

The Barrier Categories and Rating Criteria spreadsheet was developed as a tool to collect data, categorize barrier types, recommend possible solutions, and rate barriers according to seven criteria. The Infrastructure and Facilities sub-committee then prioritized the barriers based on the criteria considered to be the most significant in achieving the goals of the Street Smarts Task Force. If a route can be made safer, more direct and connects to an easier route, it is likely to have a more immediate positive impact on level of use.

Assumptions:

- ❑ The resulting list, although extensive, is not comprehensive. The InFac sub-committee recommends additional field assessments in areas not reported on.
- ❑ The spreadsheet is intended to be a working document, to be modified and updated as needed.
- ❑ The Worksheet contains 3 sheets
 - ❑ Barrier Categories: Detailed matrix on each barrier including route information, specific barrier conditions and recommended solutions
 - ❑ Rating Criteria: Sheet where each barrier is numerically ranked High (1), Medium (2) or Low (3) for each of the following Criteria:
 1. Barrier Danger/Difficulty Level- a measure of safety, based on individual member's perception or anecdotal knowledge of the barrier being assessed. (High = most dangerous/hardest)
 2. Distance Required to Avoid Barrier- a measure of distance, in miles, required to detour barrier and reach ultimate destination. (High = far)
 3. Proximity to "Green" Route-a measure of distance to "High Ease of Use" routes, in mileage. (High = near)
 4. Major Attractor Proximity -a measure of distance to Major attractors, such as employment, schools, recreation, etc., in mileage. (High = near)
 5. Proximity to Mass Transit, Bus, Park & Ride, Rail Plan -a measure of distance to current and planned mass transit in mileage. (High =near)
 6. Current Level of Route Use -a measure of route utilization. Did not use this criterion. Data was not available on all routes.
 7. Difficulty of Solution-a general judgment of cost magnitude to implement possible recommendations. For example, high difficulty would be bridges or separated facilities and low difficulty would include bike lane re-striping or routine maintenance.
- ❑ Recommended Priorities: Sheet where ranked barriers are listed in priority sequence based on the following sort hierarchy:
 1. Pre-sort by AREA
 2. Primary Sort - **Danger/Difficulty Level** -Highest to Lowest
 3. Secondary Sort - **Distance required to Avoid Barrier** - Highest to Lowest
 4. Tertiary Sort - **Proximity to "Green Route"** - Closest to Farthest

**INFRASTRUCTURE AND FACILITIES
SUB-COMMITTEE
BARRIER CLASSIFICATION**

Area	Barrier Initial No.	Barrier Location	Type of Facility	Route No.	No Bike Lane	Non- Standard Bike Lane	Parking in Bike Lane	Underserved Area Limited or No Easy Route	Route Signage Missing or Unclear	No Motorist Signage	Lane Markings Need Maintenance	Lacks routine maintenance/trash/ved station	Inappropriate Drainage Grated	Inadequate Roadway Surface Conditions	Insufficient Shoulder width	High number of drive ways crossing route	Route Ends with No Connection	Route Crosses or Intersects High Volume/High Velocity Roadway	Inadequate Signal (no- sensor, short cycle)	Complex Intersection
West	EC 1	Steiner Ranch - County Trails Ln.	Bike Lane	none					X	X	X						X			
West	EC 2	Steiner Ranch - Steiner Ranch Blvd.	Bike Lane	none						X	X						X			
West	EC 3	RM 620 WB	Shared Roadway	none						X			X					X		
West	EC 4	RM 620 EB	Shared Roadway	none						X			X					X		
NW	EC 6	Jollyville Rd.	Bike Lane	21		X			X	X						X				
NW - West	EC 7	Loop 360-Ramps at RM 2222 & RM 2244	Shared Roadway	9					X			X						X		X
South	EC 8	Emerald Forest	Bike Lane	31			X													
W. Central	EC 9	Rollingwood & Bee Claves Intersection	Shared Roadway	64	X														X	
NW	EC 10	Far West Blvd.	Bike Lane	22																
West	EC 11	RM 620 @ Rock Harbor	Bike Lane	?					X								X	X		
NW	EC 12	Mesa Drive	Bike Lane	23							X					X				
NW	EC 13	Mesa Drive	Bike Lane	23		X	X													
N Central - Central	EC 14	Shoal Creek	Bike Lane	31			X									X				
S. Central	CS 1	Barton Springs-Robert E. Lee to Mopac	Signed Route	64	X										X			X		
S. Central	CS 2	Manchaca Rd. - Lamar to Ben White	Signed Route	27	x										X			X		X
S. Central	CS 3	Riverside Dr. - S.1st to B5	Signed Route	60	x											X		X		X
S. Central	CS 4	IH35 @ Riverside Drive	Signed Route	60	x											X		X		X
S. Central	CS 5	Congress Avenue -Oltorf to Town Lake	Signed Route	47	x											X		X		X

Barrier Categories and Criteria Rating
Barrier Categories

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S. Central	CS 6	South Lamar Blvd-Barton Skyway to Barn White	Signed Route	43	X										X	X	X				X
S. Central	CS 7	Barton Springs Road-South Lamar to Congress	Signed Route	64	X										X	X					X
S. Central	CS 8	Mary-Lamar to South 5th	Bike Lane	68			X				X							X			
S. Central	CS 9	Robert E Lee	Signed Route	11	X										X						
S. Central	CS 11	Del Curto Lightsey, Clawson	Signed Route	25	X				X					X	X						
S. Central	CS 12	Mary	Bike Lane	68			X													X	
S. Central	CS 13	Bluebonnet	Bike Lane	25			X														
NW	JR 1	Loop 360 - US 183 to Showwood Springs Rd	Shared Roadway	23					X	X							X	X			X
N Central	JR 2	Loop 1 @ Stock overpass	Signed Route	16		X					X							X			X
Central	JR 3	40th - Medical Pkwy to Shoal Creek	Signed Route	31	X				X												
NW	JR 4	Arboretum Blvd	Bike Lane	434					X								X				
NW	JR 6	Barrington North bound	Bike Lane	23					X								X				
North	JR 7	Ford Springs Rd-US 183 to Anderson Mill Road	None	none	X									X	X			X			X
NW	JR 8	US 183 @ Oak Knoll	None	none	X																
NW	JR 9	US 183 @ Duval Road	Bike Lane	6					X									X			X
NW	JR 10	US 183 @ Balcones Woods	Bike Lane	6					X									X			X
NW	JR 11	RM 2222 @ Highland Hills	Signed Route	23														X	X		X
Central	JR 12	34th Street -35th to Red River	Signed Route	38	X									X							
N Central	JR 13	White Horse - Payne @ Burnet Rd	Signed Route	24	X				X								X	X			X
West - S Central	JH 1	Loop 1 South @ Bridge over Barton Creek	Shared Roadway	434											NB			X			
SW	JH 2	US 280 W @ Loop 1 Interchange	Shared Roadway	434, 436											X			X			X
SW	JH 3	US 280 W @ Lamar Blvd Interchange	Shared Roadway	43, 9	X										X	X		X			X
S. Central	JH 4	Loop 360 Bridge over Barton Creek (east of Loop 1)	Shared Roadway	9											NB			X			

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W. Central	JH 5	Walsh Turlon @ Wilderness/Pinnacle	Signed Route	64								X									
West	JH 7	SH 71- RM 2244 to RM 620	Shared Roadway	None						X				X				X			X
SW	JH 8	US 260 W @ William Cannon	Signed Route	80	X											X		X			X
SW	JH 9	US 260 W @ SH 71 (the Y in Oak Hill)	Shared Roadway	None	X										X			X			
NW	JH 10	RM 2222 @ steep hill	Shared Roadway	None											X			X			
W. Central	JH 11	Loop 360 @ Lost Creek Blvd	Shared Roadway	64	X													X			X
South	WH 1	William Cannon @ Sundrip	Bike Lane	45					X	X								X	X		X
South	WH 2	Peaceful Hill Lane- Slaughter to Matthews	Un-signed route	45	X				X	X				X	X						
South	WH 3	Dilliner Road - Manchaca to S 1st St	Un-signed route	84					X	X											
South	WH 4	Matthews Ln @ Forestwood	Un-signed route	31	X				X	X											
South	WH 5	S Congress Ave - Slaughter to Ben White	Bike Lane	47			X		X		X										
South	WH 6	S Congress Ave @ Stasney	Bike Lane	47																	X
South	WH 7	S Congress Ave @ Ben White	Un-signed route	47	X				X	X								X			X
South - SE	WH 8	IH-35 @ William Cannon	Intersection	80														X			X
South	WH 9	Redd St- Manchaca to Banister	Un-signed route	25	X				X	X					X						
South	WH 10	Manchaca Rd - Ben White to Matthews Ln	Un-signed route	27	X				X	X					X	X		X			
South	WH 11	Manchaca Rd -Matthews Rd to Slaughter Ln	Un-signed route	27					X	X											

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South	WH 12	Stasseney Ln - West Gate Blvd to S Congress	Signed Route	76	X					X					X	X		X			
South	WH 13	William Cannon Dr - West Gate Blvd to S Congress	Signed Route	80	X					X					X	X		X			
South	WH 14	Entire route 82	Un-signed route	82	X					X											
East	KK 1	51st Berkman to Springdale	Bike Lane	30													X	X			
East	KK 2	Robert Mueller Re-development Project	None	none	X										X						
East	KK 3	Manor Rd - Springdale to Tilley	None	none	X																
E - E Central	KK 4	Airport Blvd - 135 to MLK Blvd	None	none	X											X					
East	KK 5	Loyola	Bike Lane	26			X														
NE	KK 6	US 290 E @ Berkman	Un-signed route	57	X					X								X		X	
East	KK 7	US 183 @ Springdale	Un-signed route	63	X					X								X		X	
East	KK 8	Brindiff / Berkman	Bike Lane	26/57		X	X											X			
East	KK 9	Springdale - US 290E to MLK	Signed Route	63	X													X			
E - E Central	KK 10	IH-35 @ 51st Street	Bike Lane	30		X					X							X			X
North	JC 1	Kramer Lane - Burnet Rd to Lamar	Signed Route	12	X											X					
North	JC 2	Metric Blvd - Palmer to Blum Hollow	Bike Lane	47																	X
North	JC 3	Metric Blvd - Kramer to Rutland	Signed Route	39	X										X	X					
North	JC 4	US 183 Loop 1 / Palmer Lane triangle	N/A	none				X													
North	JC 5	Loop 1 @ Duval	Signed Route	6														X			X
North	JC 6	Loop 1 @ Braker	Signed Route	10														X			X

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North	JC 7	Parmer Lane- West of Loop 1	N/A	none				X													
North	JC 8	The Domain-IBM-Arbor Walk-Pickle Research	N/A	none				X													
North	JC 9	Howard Lane -North ETJ area	N/A	none				X													
N. Central - North	LW 1	Burnet Rd.- Sleek to Loop 1	Un-signed route	214	X								X			X					
N. Central - North	LW 2	US 183 @ Burnet Rd	Un-signed route	214	X													X			X
North	LW 3	Braker Ln.	Signed Route	10	X					X						X				X	
E. Central	JEN 1	IH35 @ 4th Street	Signed Route	54						X		X						X			X
E. Central	JEN 2	IH35 @ 6th Street	Signed Route	52	X				X			X				X					X
E. Central	JEN 3	IH35 @ 11th Street	Signed Route	507								X									X
E. Central	JEN 4	IH35 @ 12th Street	Signed Route	48					X			X									X
E. Central	JEN 5	IH35 @ Manor Rd/28th	Signed Route	42	X				X	X		X						X			X
E. Central	JEN 6	IH35 Bridge @ Lady Bird Lake	None	none	X																
E. Central	JEN 7	Pleasant Valley @Longhorn Dam	Signed Route	59	X																
East	JEN 8	Montopolis Bridge @ Colorado River	Signed Route	65				X										X			X
E. Central	JEN 9	East 7th Street -IH35 to Martinez	Signed Route	52	X										X	X					
E - E. Central	JEN 10	Airport Blvd -Colorado River to MLK	N/A	none														X			
NE	JEN 11	US 290 /E /US 183/ IH35 Triangle	Signed Route	57	X				X	X								X			X
SE	JEN 12	Montopolis/ E. Riverside/ US 183 S/ E Ben White	Signed Route	65, 60	X			X								X		X			X

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SE	JEN 13	Austin-Bergstrom Intl Airport	N/A	none				X													
East	JEN 14	Del Valle	N/A	none				X													
SE	JR 14	E Ben White @ Burleson Rd/Todd Lane	Signed Route	61, 72	X													X			X
SE	JR 15	E Ben White @ Montopolis	Signed Route	65	X			X	X	X					X			X			X
SE	JR 16	E Ben White @ Woodward	Signed Route	59	X													X			X
N. Central - NE	JR 17	IH35 @ St. Johns	None	none				X										X			X
SE	JR 18	Burleson Rd - E Ben White to ABIA	Signed Route	72	X			X				X						X			

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Area	Barrier Initial No.	Barrier Location	Route crosses/ Overpass/ Underpass/ Bike Lane/RR	Possible Recommendations	Comments	Evaluate & Address Current Best Practices for Complex Intersections	Candidate as New Route	Update Route	Add, modify or update signage	Add, modify or update lane markings	Candidate for City of Austin "on-call" construction	Candidate for increased maintenance	Address unsafe or inadequate pavement conditions	Address Parking in Bike Lane	Develop policies to address unsafe or inadequate pavement conditions during roadway improvement projects.
West	EC 1	Steiner Ranch - County Trails Ln.		Restripe and Add Signage	Repaint bicycle pavement markings and use thermoplastic paint. Also, install more bicycle signs near schools.					X	X	X			
West	EC 2	Steiner Ranch - Steiner Ranch Blvd.		Restripe Lanes	The bike lanes on this road are nice, but the pavement markings on the portion that has been seal coated is not too visible. Repaint bicycle pavement markings.						X	X			X
West	EC 3	RM 620 WB		Reinfort Drainage Grates	The Drainage grates are parallel and the asphalt overlays have created a drop-off at each grate location. The grates need to be retro-fitted and risers should be installed, along with the overlays.		X		X		X		X		X
West	EC 4	RM 620 EB		Reinfort Drainage Grates	The Drainage grates are parallel and the asphalt overlays have created a drop-off at each grate location. The grates need to be retro-fitted and risers should be installed, along with the overlays.		X		X		X				X
NW	EC 6	Jollyville Rd.		Restripe and Add Signage	The lane widths should be evaluated, to ensure that they are a minimum of 5' wide. Striping on sealcoat is faint and bike lanes were not maintained during construction. Add motorist signage at driveways					X	X				X
NW - West	EC 7	Loop 360-Ramps at RM 2222 & RM 2244		Blue Lanes, Signage and/or Widen Shoulder	This route needs bicycle route signs, not just a few warning signs. The ramps at 2222 and 2244 should be re-evaluated for cyclists. Maybe the ramps could be redesigned to be more cyclist friendly. Maybe we could maybe redesign to encourage right angle crossing. Widen roadway to east @ 2244 to include shoulders.	X		X	X	X	X	X			X
South	EC 8	Emerald Forest		Widen Lane or Prohibit Parking	Many cars parked in bike lanes, so cyclists and up to travel lane. Either widen the bike lanes, so parking can be added or enforce a "no parking bike lanes" policy.									X	
W. Central	EC 9	Rollingwood & Bee Caves Intersection		Extend Loop Detector	The signals for crossing Bee Caves are on a "loop" that does not detect cyclists. The loop detector should be extended out to the lane edges.	X		X	X	X	X				
NW	EC 10	Far West Blvd.		Restripe and Add Signage	Some of the edges at the C&G are rough. Some painted bicycles should be put down in the bike lanes, especially near Murchison school. There should also be better signage at the intersections, warning the motorists about potential turning conflicts with cyclists.	X				X	X				X
West	EC 11	RM 620 @ Rock Harbor		Add Signs and Bike Lanes	This intersection is great, but the bike lanes do not continue down 620. Even if bike lanes are never striped, some RM 620 route signs would be great.		X								
NW	EC 12	Mesa Drive		Add Bike stencil in lanes	Lane is not standard width for parking and bicycles. Should possible put signs up, like on Shoal Creek.			X		X	X				
NW	EC 13	Mesa Drive		Add Signs	Other than sharing the lane with parked cars, this is a great route. This is a fine example of how the neighborhood and the cyclists' needs were met.				X		X				X
N Central - Central	EC 14	Shoal Creek		Review Bike/Parking Shared Lane										X	
S. Central	CS 1	Barton Springs-Robert E. Lee to Mopac	X	Add Bike Lane or Off-street Facility	Add bike lane or off-street facility through park		X			X					
S. Central	CS 2	Manchaca Rd. - Lamar to Ben White	X	Add Bike Lane or Sharrow	If possible, add bike lane. If bike lane is not possible, perhaps sharrow lane markings would be appropriate.	X				X					
S. Central	CS 3	Riverside Dr. - S. 1st to B5	X	Add Bike Lane or Off-street Facility	Add bike lane or shared use-off-street path (this is a highly used stretch due to the gap in the bike and bike trail). Increase motorist awareness.	X									
S. Central	CS 4	IH35 @ Riverside Drive	X	Add Bike Lane or Sharrow	If possible, add bike lane. If bike lane is not possible, perhaps sharrow lane markings would be appropriate.	X									
S. Central	CS 5	Congress Avenue -Ohort to Town Lake		Reconfigure Parking & Restripe	Replace angle parking with back-in angle parking, and add a clearly marked bike lane that has a shy distance from the angle parking.	X				X				X	

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S. Central	CS 6	South Lamar Blvd-Barton Skyway to Ben White	X	Add Bike Lanes or Alternate Route	Add a bike lane or remove from bike map and find alternate route	X	X		X		X					
S. Central	CS 7	Barton Springs Road-South Lamar to Congress		Add Bike Lane or Sharrows	If possible, add bike lane. If bike lane is not possible, perhaps sharrow lane markings would be appropriate.	X	X		X		X					
S. Central	CS 8	Mary -Lamar to South 5th	X	Add Sidewalk, Increase Maintenance	Maintenance needed. Add sidewalk so that pedestrians are not forced to use bike lane.							X	X		X	
S. Central	CS 9	Robert E Lee		Add Bike Lane, Widen shoulder or Off-street Facility	Add bike lane, increase shoulder width or add an off-street shared-use path.						X		X			
S. Central	CS 11	Del Curto, Lightsey, Clawson		Widen Shoulders, add Signage and Increase Maintenance	Maintenance needed, add signage and increase shoulder width.						X		X			
S. Central	CS 12	Mary		Prohibit Parking in Bike Lanes	Address parking in bike lanes										X	
S. Central	CS 13	Bluebonnet		Prohibit Parking in Bike Lanes and Increase Maintenance	Address parking in bike lanes and maintenance needed.										X	
NW	JR 1	Loop 360 -US 183 to Showwood Springs Rd		Restripe Sharrows, Blue Lane or Bike Signal	Especially West Bound crossing Loop 360. Tunnel or pedestrian overpass S. of 183 or Bike signal, sharrows or blue lanes at 183.	X	X									
N Central	JR 2	Loop 1 @ Stock overpass	X	Restripe Intersection and Widen Bike Lanes	Utilize updated intersection lane markings at free flowing rt. Turn lane ramp. Widen existing bike lane.		X				X					
Central	JR 3	480th - Medical Pkwy to Shoal Creek		Increase Maintenance and update map	Map needs to be corrected. Requires tree trimming.				X		X		X			
NW	JR 4	Adoresum Blvd		Add Signs	Add route signage						X					
NW	JR 6	Barrington North bound		Add Signs	Add signage. Extend route to Anderson Mill Rd. Canyon Vista Middle school nearby.				X		X					
North	JR 7	Ford Springs Rd-US 183 to Anderson Mill Road	X	Add Route	Review as new route - connector to Jollyville - high population density.		X	X	X							
NW	JR 8	US 183 @ Oak Knoll	X	Add Route	Review as new route - connector to Jollyville - high population density - crosses private property N of 183.		X	X	X							
NW	JR 9	US 183 @ Duval Road	X	Restripe Intersection/ Sharrows, Blue Lane or Bike Signal	Sharrows/blue lane or bike signal.		X				X					
NW	JR 10	US 183 @ Balcones Woods	X	Restripe Intersection/ Sharrows, Blue Lane or Bike Signal	Sharrows/blue lane or bike signal.		X				X					
NW	JR 11	RM 2222 @ Highland Hills		Route Study or Remove Existing	Re-route to Fair Hills and Balcones to 2222 S. bound-high UT student population density.				X							
Central	JR 12	34th Street -35th to Red River		Add Bike Lanes	Add bike lane and extend to Red River S bound to Manor Rd			X	X		X					
N Central	JR 13	White Horse - Payne @ Burnet Rd		Restripe Intersection/ Sharrows, Blue Lane or Bike Signal	Connect through commercial properties - AutoZone/ Casa village? - school-Lamar middle school EB. Stencils and probably also signs needed. Consider sharrows and blue lanes. Consider the intersection lines that cyclists are expected to follow. Ensure that signal is sensitive enough to detect cyclists. WB. Consider pedestrian-style signalized crossing.		X		X	X	X					
West - S Central	JH 1	Loop 1 South @ Bridge over Barton Creek	X	Add Bike Bridge	COA Bike/Fed bridge will help. Need this bridge in both directions though. Transitions to existing facility will be challenging. STP-MM project submission	X										
SW	JH 2	US 280 W @ Loop 1 Interchange	X	Restripe Intersection, Widen Shoulders and Add Signage	Widen shoulders and/or outside lanes, install bicycle warning signs and bicycle lane markings		X				X					
SW	JH 3	US 280 W @ Lamar Blvd Interchange		Restripe Intersection, Widen Shoulders, Add Signage or Remove existing	Widen shoulders and/or outside lanes, install bicycle warning signs and bicycle lane markings or Remove from bike map until a safe solution can be implemented.											
S. Central	JH 4	Loop 360 Bridge over Barton Creek (east of Loop 1)	X	Add Bike Bridge and Widen Pavement	Shoulder space taken when TxDOT extended right turn lane from Loop Bike/Fed Bridge over creek, widen pavement/bridge	X					X					

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BARRIER CLASSIFICATION**

Area	Barrier Initial No.	Barrier Location	Route crosses Overpass/Underpass/Bldg/RR	Possible Recommendations	Comments	Candidate for Major Capitol Improvement	Evaluate & Adopt Current Best Practices for Complex Intersections	Candidate as New Route	Update Route	Add, modify or update signage	Add, modify or update lane markings	Candidate for City of Austin "on-call" construction	Candidate for increased maintenance	Address unsafe or inadequate pavement conditions	Address Parking in Bike Lane	Develop policies to address unsafe or inadequate pavement conditions during roadway improvement projects.
W. Central	JH-5	Walsh Turnoff @ Wilkemes/Prinnacle		Repair Pedestrian Walkway, Increase maintenance	Vegetation around ped walkway (underneath Walsh Turnoff) needs trimming and dirt work to address sharp drop offs from concrete walkway.								X			
West	JH-7	SH 71- RM 2244 to RM 620		Add Bike Lanes (Construction is complete.)	Construction zone leaves no room for bicyclists. Work Zone Traffic Control Plans should give space to bicycles. Update (1107) lanes and median divider added and left no shoulders for bicycles.)											
SW	JH-8	US 290 W @ William Cannon		Restripe Intersection, Add Bike Lanes/Blue Lanes, Add signage	High traffic volume. Needs bicycle lanes, signs and markings.		X			X		X		X		X
SW	JH-9	US 290 W @ SH 71 (the Y in Oak Hill)		Restripe Intersection, Add Bike Lanes/Blue Lanes, Add signage	High traffic volume. Needs bicycle lanes, signs and markings.				X	X	X					
NW	JH-10	RM 2222 @ steep hill		Widen Shoulders	Widen shoulders	X										
W. Central	JH-11	Loop 360 @ Lost Creek Blvd		Restripe Intersection, Add Bike Lanes/Blue Lanes, Add signage	Bicycle striping/signs/lanes to guide adult/child bicyclists from Lost Creek Subdivision across Loop 360 to schools on other side.		X		X		X					
South	WH-1	William Cannon @ Sundrip		Add Signals and/or Route Study	Crosswalk signals similar to those on Barton Springs Rd across from Austin Energy -- or -- move route westward to cross William Cannon at Ben Hughes Rd at rightlight	X	X									
South	WH-2	Peaceful Hill Lane- Slaughter to Matthews		Add Signs, Bike Lanes and Restripe	Route 45 is a useful alternative to Route 47, South Congress route, but is not signed and is not appropriate for commuter or novice cyclists. Place signs, stripe a bike lane or at least provide warning signs for motorists.	X			X		X					
South	WH-3	Dillmer Road - Manchaca to S 1st St		Add Signs	Great bike facilities, no signs that I could see. Provide ample signs.				X							
South	WH-4	Matthews Ln @ Forestwood		Add Signs and Bike Lanes	Signage for Route 31 ends at Matthews Lane, but route could provide a great commuting route for those who would otherwise drive S 1st, S Congress, or Manchaca to work downtown. Update signage, provide bike lanes on rural-type roads like Forestwood.	X	X		X	X		X				X
South	WH-5	S Congress Ave - Slaughter to Ben White		Add Bike Striped lanes, restripe lane at bus stops, update signs	Provide on-road bicycle symbols. Update route signage between major intersections. Provide bike lane transitions at marked bus stops.				X	X			X		X	
South	WH-6	S Congress Ave @ Stassney		Add Signals	provide bicycle signals. Protect against motorists speeding from Stassney north onto S Congress.	X	X									
South	WH-7	S Congress Ave @ Ben White	X	Two-way Access and Crosswalks	Major barrier to crossing. Bicycles often ride on sidewalk to avoid motor traffic. Would suggest moving bicycle access to east side of overpass (and marking access two-way) and pedestrian traffic to west side.		X									
South - SE	WH-8	IH-35 @ William Cannon	X	Add Bike Lane or Sharrows	Very busy intersection -- bikes often forced to use sidewalk. Striping a bike lane or shared lane across would help.		X									
South	WH-9	Redd St- Manchaca to Banister		Add Signs	Install signage and link this route to others via signage. Redd / Western Trails / St Elmo is a very convenient and relatively pleasant bike alternative to Ben White or Stassney, but the routes are not consistently marked.				X				X			
South	WH-10	Manchaca Rd - Ben White to Matthews Ln		Route Study or Remove Existing	Manchaca Rd on this route needs to either have at least a bike facility on one side of the road -- or -- be taken off of the bike map entirely. Very unsafe road to bike. The map, even with color-coding, might mislead an experienced cyclist into an illusion of safety. High speed traffic and narrow car lanes	X	X				X		X			X
South	WH-11	Manchaca Rd- Matthews Rd to Slaughter Ln		Add Signs	The opposite situation from what is north of Matthews. There is an almost 10' wide shoulder striped off from traffic, that is perfect to ride on. Only problem is very high speed traffic (55-60 MPH) and no route signs, which should be installed.										X	

Barrier Categories and Criteria Rating
Barrier Categories

NOTE: This list contains a large sample of barriers in many areas, but it is NOT comprehensive. Additional Field Assessment is recommended.

**INFRASTRUCTURE AND FACILITIES
SUB-COMMITTEE
BARRIER CLASSIFICATION**

Area	Barrier Initial No.	Barrier Location	Route crosses/ Overpass/ Underpass/ Belt/ Idge/RR	Possible Recommendations	Comments	Candidate for Major Capitol Improvement	Evaluate & Current Best Practices for Complex Intersections	Candidate as New Route	Update Route	Add, modify or update signage	Add modify or update lane markings	Candidate for City of Austin "on-call" construction	Candidate for increased maintenance	Address unsafe or inadequate pavement conditions	Address Parking in Bike Lane	Develop policies to address unsafe or inadequate pavement conditions during roadway improvement projects.
South	WH 12	Stassney Ln - West Gate Blvd to S Congress		Route Study and Lane Diet	Could be possible to impose a "lane diet" and get enough area for two bike lanes.	X			X		X		X			X
South	WH 13	William Cannon Dr - West Gate Blvd to S Congress		Add Bike Lanes	Very high traffic, but bike lanes could be striped.	X			X		X		X			X
South	WH 14	Entire route 82		Add Signs	Bike route not marked at all except for one misleading sign at junction of routes 82 and 31. Western half of route unintelligible from map.				X		X		X			
East	KK 1	51st - Berkman to Springdale		Route Extension	Extend lane thru Bartholomew Park	X										X
East	KK 2	Robert Mueller Re-development Project		Route Extension	The re-development is a legacy barrier to connectivity between 51st St and Airport Blvd. Extending Berkman into the project would be an ideal bike route.			X			X					X
East	KK 3	Manor Rd - Springdale to Tilley		Route Study	High density population. Barrier to Mueller re-development. Closest route is Springdale 1 mile east. Needs further evaluation as potential route.			X			X					X
E - E Central	KK 4	Airport Blvd - 135 to MLK Blvd		Route Study	High density population and planned Rail Station at MLK. Barrier to Mueller re-development. Potential connector from Mueller to Manor Rd (42) or Cherrywood (59). Needs further evaluation as potential route.			X			X					X
East	KK 5	Loyola		Increase Maintenance	Good route but in terrible shape. Construction and other debris is a major problem. Update maintenance by City of Austin.							X	X			
NE	KK 6	US 290 E @ Berkman	X	Restripe Intersection/ Sharrows, Blue Lane or Blue Signage	Update the underpass lane markings - Reagan High School on route	X	X				X					
East	KK 7	US 183 @ Springdale	X	Add Bike Lanes	Add lane - LBJ High School	X	X				X					
East	KK 8	Briardfr/ Berkman	X	Restripe and Add Signage	Roadway changed from 2-4-2 lanes-Needs intersection lane markings.		X				X				X	
East	KK 9	Springdale - US 290E to MLK	X	Add Bike Lanes - Route Study	Springdale is the ONLY continuous N-S route serving East Austin. High speed, high volume. Relatively undeveloped commercially with wide lanes-good opportunity to improve underserved section of the city by adding bike lanes.		X		X	X	X					X
E - E Central	KK 10	IH-35 @ 51st Street	X	Restripe Intersection-Add Signage and Increase Maintenance	Utilize updated intersection lane markings at free flowing rt. Turn lane/ramp Re-stripe and improve maintenance existing bike lane on overpass and west bound. One of the best routes to cross IH-35.		X					X				
North	JC 1	Kramer Lane - Burnet Rd to Lamar		Route Study	Route needs to be improved to an easier level of service. Connection to new Rail station at Braker & Burnet.				X		X					X
North	JC 2	Metric Blvd - Palmer to Blum Hollow		Restripe and Add Signage	New lanes connect to N-S neighborhood route 47. Consider improved intersection markings and signage at Palmer Lane		X			X						
North	JC 3	Metric Blvd - Kramer to Rutland		Add Sharrows	New lanes north and south of this section of Metric. If too narrow for cross, use sharrows on this section to connect the 2.				X	X	X					
North	JC 4	US 183 Loop 1/ Palmer Lane triangle		Add Routes or Improve LOS	Entire area has only one easy route (to Santa Cruz, Mopac, RR corridor/Anthem/Duval) to easier level of service. Add more routes or improve Anthem/Duval to easier level of service.		X		X	X	X					
North	JC 5	Loop 1 @ Duval	X	Restripe Intersection/ Sharrows, Blue Lane or Blue Signage	Improve intersection lane markings/signs and/or signals. Need serious intersection study for proposed intersection. Consider moving route to Waters Park Rd & proposed PARD commuter path underpass.		X		X	X	X					
North	JC 6	Loop 1 @ Braker	X	Restripe Intersection/ Sharrows, Blue Lane or Blue Signage	Improve intersection lane markings/signs and/or signals. Need serious intersection study for proposed intersection. Consider moving route to Waters Park Rd & proposed PARD commuter path underpass.		X		X	X	X					

Barrier Categories and Criteria Rating
Barrier Categories

NOTE: This list contains a large sample of barriers in many areas, but it is NOT comprehensive. Additional Field Assessment is recommended.

Area	Initial No.	Barrier	Barrier Location	Route corridor Overpass/Bridge/RR	Possible Recommendations	Comments	Candidate for Major Capital Improvement	Evaluate & Implement Complete Precincts for Complex Intersections	Candidate as New Route	Update Route	Add or update signage	Add, modify or update lane markings	Candidate for "on-call" City of Austin construction	Increased maintenance	Address inadequate pavement conditions	Address Parking in Bike Lane	Develop policies to address integration of bicyclist during roadway improvement projects.
North	JC 7		Parmer Lane- West of Loop 1		Route Study and/or Separated Bike Paths	Need additional routes and connectors to Parmer lane, and west to RM 620. Some greenbelt/powerline corridors in the area could incorporate combined recreation/moderate speed routes.	X		X								
North	JC 8		The Domain-IBM-Arbor Walk-Pickle Research		Add Routes	Need thorough review for developing routes. Huge area w/out bicycle access. New rail and high employment base and commercial & residential development.	X	X	X								X
North	JC 9		Howard Lane-North ETJ area		Route Study	Need routes in ETJ area north of Howard Lane especially connections to proposed rail station			X								
N. Central - North	LW 1		Burnet Rd - Stack to Loop 1		Route Study	bike lanes, perhaps either by separated paths (eg. like sidewalks) or by widening the roadway. At signalized intersections, either bike traffic should merge into main traffic lanes, sharing with cars, or blue bike lanes crossings should indicate intended bike travel path. Consider "No right turn on red" in the latter case.	X					X					
N. Central - North	LW 2		US 183 @ Burnet Rd	X	Add Signage and/or Sharrows	Bike lanes should merge with outside traffic lanes prior to 183. Signage should indicate this, with a prescription of caution. (Eg. for cyclists: "Caution: Merge into traffic lane" or "Merge with caution"; for motorists: "Bikes share traffic lanes") This might also be a good location for sharrows.	X	X				X					
North	LW 3		Baker Ln.		Add Signage and/or Sharrows	Sharrows (in outside lanes between major intersections; in both outside and inside lanes at major intersections), "Share the road," "Bikes use traffic lanes," "Watch for bikes, etc. Consider reducing speed limit.		X		X		X					
E. Central	JEN 1		IH35 @ 4th Street	X	Restriping Intersection or Route Study	PM peak queues on SB IH35 bottleneck back up from Cesar Chavez. Due to turn lanes adds to confusion & danger. Glass & finish on bikeway. Sharrows to 6th street and improve intersection markings.		X		X		X		X			
E. Central	JEN 2		IH35 @ 8th Street	X	Restriping Intersection/ Sharrows, Blue Lane or Bike Signage	Select IH35 Crossing from East Austin to downtown other than towlaks Sharrows. Blue lanes or other lane markings and signage should be added.		X		X		X		X			
E. Central	JEN 3		IH35 @ 11th Street	X	Sharrows and/or Climbing Lanes	Narrow overpass and street lane WB, steep hill approach from East. Review for possible use of sharrows and climbing lanes.		X		X		X		X			
E. Central	JEN 4		IH35 @ 12th Street	X	Sharrows and/or Climbing Lanes	Narrow overpass and street lane WB, steep hill approach from East. Review for possible use of sharrows and climbing lanes.		X		X		X		X			
E. Central	JEN 5		IH35 @ Manor Rd/28th	X	Restriping Intersection/ Sharrows, Blue Lane or Bike Signage	Select IH35 Crossing from East Austin to UT. Sharrows/blue lanes or other lane markings and signage should be added.		X		X		X		X			
E. Central	JEN 6		IH35 Bridge @ Lady Bird Lake	X	Route Study - Improve Pedestrian Bridge	Improve pedestrian bridge for bicycle connectivity to E. Riverside	X		X								
E. Central	JEN 7		Pleasant Valley @ Longhorn Dam	X	Add Sharrows or Lane Diet & Widened Sidewalk	Narrow pedestrian side walk, not suitable for bikes. Add sharrows.				X		X					
East	JEN 8		Montopolis Bridge @ Colorado River	X	Lance Armstrong Bikeway	Part of Lance Armstrong Bikeway plan.	X										
E. Central	JEN 9		East 7th Street- IH35 to Martinez		Do Nothing	Narrow lanes, cyclists use sidewalks, 6th or 4th streets. Continue current railing as Red route. Close to alternative routes											
E - E Central	JEN 10		Airport Blvd -Colorado River to MLK	X	Add Routes and/or Off-street Facilities	High density, low income population, high pedestrian traffic. Retail, schools, Health and Human services locations and charitable non-profit Add new routes and review ROW for off street path opportunities.	X		X								
NE	JEN 11		US 290 E/ US 183/ IH35 Triangle	X	Add Bike Lanes, Sharrows & Crosswalks	Terrible area for bikeability. Only one bike routeled on Cameron Rd. High density, low income. High pedestrian traffic. Reagan high school, kids crossing freeway. Add Routes, bike lanes, sharrows, crosswalks. Need cross IH35 connectivity to planned Rail Station (St. John?)	X	X	X	X		X					
SE	JEN 12		Montopolis/ E. Riverside/ US 183 S/ E Ben White		Add Routes	Perform study to determine new routes. Leverage w/ E. Riverside redevelopment. Need connectivity to ACC, schools, ABIA.	X	X	X	X		X					X

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**INFRASTRUCTURE AND FACILITIES
SUB-COMMITTEE
BARRIER CLASSIFICATION**

Area	Barrier Initial No.	Barrier Location	Route crosses Overpass/Underpass/Bldg/RR	Possible Recommendations	Comments	Candidate for Major Capital Improvement	Evaluate & Implement Current Best Practices for Complex Intersections	Candidate as New Route	Update Route	Add, modify or update existing signage	Add, modify or update lane markings	Candidate for City of Austin "on-call" construction	Candidate for increased maintenance	Address unsafe or inadequate pavement conditions	Address Parking in Bike Lane	Develop policies to address inadequate bike routes during roadway improvement projects.
SE	JEN 13	Austin-Bergstrom Intl Airport		Route Study and/or Separated Bike Paths	Inaccessible by bike. High employment base. Perform study to determine routes. Consider separated paths, tunnels, ped overpasses along US 71 E and US 183 S.	X		X								
East	JEN 14	Del Valle		Route Study	No infrastructure for biking, walking or biking. High density, low income population. Perform study/develop biked paths.	X		X								
SE	JR 14	E Ben White @ Burlison Rd/Todd Lane	X	Restripe and/or Sharrows	Add updated intersection markings and sharrows along short section of WB & EB frontage of E Ben White, where cyclist must travel to connect to N & S route.		X		X	X						
SE	JR 15	E Ben White @ Montopolis	X	Restripe and/or Sharrows	Add updated intersection markings and sharrows leading up to intersection.		X		X	X						
SE	JR 16	E Ben White @ Woodward	X	Restripe and/or Sharrows	Add updated intersection markings and sharrows leading up to intersection. Good route connecting E & W at IH35 near St. Edward's		X		X	X						
N. Central - NE	JR 17	IH35 @ St. Johns	X	Route Study	This seems to be the only viable connection from the Coronado Hills & Reagan HS area East of IH35 to the west side of IH35 where 2 rail stations are planned. St. Johns is currently too narrow for bike lanes. IH35 has pedestrian cross walk. Add lane markings or sharrows. Lane diet St. Johns down to 2 lanes or find alternate E-W route through neighborhood to connect with Rt 47 (Gaudalope)		X									
SE	JR 18	Burlison Rd - E Ben White to ABIA		Add Bike Lanes - Route Study	Add bike lanes. Wide outside lanes - potential candidate as route to ABIA. Study needed to determine how to extend at US183 and SH 71.	X			X							

Barrier Categories and Criteria Rating
Barrier Categories

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INFRASTRUCTURE AND FACILITIES SUBCOMMITTEE BARRIER PROJECT PRIORITIES

Area	BARRIERS	ROUTE	Barrier Description	Barrier Difficulty Level	Distance req'd to avoid Barrier	Proximity to "Green Route"	Major Attractor Proximity	Proximity to Mass Transit Bus/Park&Ride/Rail plan	**Current level of route use	Difficulty of solution	Possible Recommendations	Comments
E. Central	JEN3	507	IH35 @ 11th Street	1	1	1	1	2	2	2	Sharrows and/or Climbing Lanes	Narrow overpass and street lane WB, steep hill approach from East. Review for possible use of sharrows and climbing lanes.
E. Central	JEN4	48	IH35 @ 12th Street	1	1	1	1	2	2	2	Sharrows and/or Climbing Lanes	Narrow overpass and street lane WB, steep hill approach from East. Review for possible use of sharrows and climbing lanes.
NE	KK6	57	US 290 E @ Berkman	3	1	1	1	1	2	2	Restripe Intersection/ Sharrows, Blue Lane or Bike Signal	Update the underpass lane markings - Reagan High School on route
NW	JR1	23	Loop 360 - US 183 to Spicewood Springs Rd	1	1	1	1	3	1	1	Restripe Sharrows, Blue Lane or Bike Signal	Especially West Bound crossing Loop 360. Tunnel or pedestrian overpass S. of 183 or Bike signal, sharrows or blue lanes at 183.
NW	JR9	6	US 183 @ Duval Road	1	1	1	2	2	3	3	Restripe Intersection/ Sharrows, Blue Lane or Bike Signal	Sharrows/blue lane or bike signal.
S. Central	CS1	64	Barton Springs-Robert E. Lee to Mopac	1	1	1	1	2	3	3	Add Bike Lane or Off-street Facility	Add bike lane or off-street facility through park
S. Central	CS7	64	Barton Springs Road -South Lamar to Congress	1	1	1	1	1	2	2	Add Bike Lane or Sharrows	If possible, add bike lane. If bike lane is not possible, perhaps sharrow lane markings would be appropriate.
SE	JR14	61, 72	E Ben White @ Burleson Rd/Todd Lane	1	1	1	1	1	3	3	Restripe and/or Sharrows	Add updated intersection markings and sharrows along short section of WB & EB frontage of E Ben White, where cyclist must travel to connect to N & S route.
East	KK2	none	Robert Mueller Re-development Project	1	1	2	1	1	2	2	Route Extension	The re-development is a legacy barrier to connectivity between 51st St & Airport Blvd. Extending Berkman thru the project would be an ideal bike route.
East	KK7	63	US 183 @ Springdale	1	1	2	1	1	2	2	Add Bike Lanes	Add lane - LBJ High School
N. Central - NE	JR17	none	IH35 @ St. Johns	1	1	2	1	1	2	2	Route Study	This seems to be the only viable connection from the Coronado Hills & Reagan HS area East of IH35 to the west side of IH35 where 2 rail stations are planned. St.Johns is currently too narrow for bike lanes. IH35 has pedestrian cross walk. Add lane markings or sharrows. Lane diet St.Johns down to 2 lanes or find alternate E-W route through neighborhood to connect with Rt 47 (Guadalupe)
S. Central	CS2	27	Manchaca Rd. - Lamar to Ben White	1	1	2	2	3	2	2	Add Bike Lane or Sharrows	If possible, add bike lane. If bike lane is not possible, perhaps sharrow lane markings would be appropriate.
S. Central	CS3	60	Riverside Dr. - S 1st to 135	1	1	2	1	1	2	2	Add Bike Lane or Off-street Facility	Add bike lane or shared use-off-street path (this is a highly used stretch due to the gap in the bike and bike trail). Increase motorist awareness.
S. Central	CS4	60	IH35 @ Riverside Drive	1	1	2	2	2	1	1	Add Bike Lane or Sharrows	If possible, add bike lane. If bike lane is not possible, perhaps sharrow lane markings would be appropriate.
S. Central	CS6	43	South Lamar Blvd-Barton Skyway to Ben White	1	1	2	2	3	2	2	Add Bike Lanes or Alternate Route	Add a bike lane or remove from bike map and find alternate route
E - E.Central	JEN10	none	Airport Blvd -Colorado River to MLK	1	1	3	1	1	1	1	Add Routes and/or Off-street Facilities	High density, low income population, high pedestrian traffic. Retail, schools, Health and Human services locations and charitable non-profits. Add new routes and review ROW for off street path opportunities.
East	KK9	63	Springdale - US 290E to MLK	1	1	3	1	1	3	3	Add Bike Lanes - Route Study	Springdale is the ONLY continuous N-S route serving East Austin. High speed, high volume. Relatively undeveloped commercially with wide lanes-good opportunity to improve underserved section of the city by adding bike lanes.
East	JEN8	65	Montopolis Bridge @ Colorado River	1	1	3	3	3	1	1	Lance Armstrong Bikeway	Part of Lance Armstrong Bikeway plan.
East	JEN14	none	Del Valle	1	1	3	1	3	1	1	Route Study	No infrastructure for biking, walking or busing. High density, low income population. Perform study/develop bike/ped plans.
N. Central - North	LW2	214	US 183 @ Burnet Rd	1	1	3	1	1	2	2	Add Signage and/or Sharrows	Bike lanes should merge with outside traffic lanes prior to 183. Signage should indicate this, with a prescription of caution. (Eg for cyclists: "Caution: Merge into traffic lane" or "Merge with caution"; for motorists: "Bikes share traffic lanes") This might also be a good location for sharrows.

recommended priorities

Recommended Priorities

NOTE: This list contains a large sample of barriers in many areas, but it is NOT comprehensive. Additional Field Assessment is recommended.
** Current Level of Route Use -unavailable at the time of assessment

INFRASTRUCTURE AND FACILITIES SUBCOMMITTEE BARRIER PROJECT PRIORITIES

Area	BARRIER ROUTE	Barrier Description	PROXIMITY TO "GREEN ROUTE"	Distance req'd to avoid Barrier	Barrier Difficulty level	Proximity to Major Attractor	Proximity to Mass Transit Bus/Park&Ride/Rail plan	**Current level of route use	Difficulty of solution	Possible Recommendations	Comments
NE	JEN11 57	US 290 E/US 183/IH35 Triangle	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Add Bike Lanes, Sharrows & Crosswalks	Terrible area for bikeability. Only one bike route(red) on Cameron Rd. High density, low income, High pedestrian traffic, Reagan high school, kids crossing freeway. Add Routes, bike lanes, sharrows, crosswalks. Need cross IH35 connectivity to planned Rail Station (St. John?)
North	JC4	US 183/Loop 1/PamerLane triangle	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Add Routes or Improve LOS	Entire area has only one easy route (6) Santa Cruz. Mojave RR corridor is significant barrier with in neighborhood. Add more routes or improve Amherst/Duval to easier level of service.
North	JC5 6	Loop 1 @ Duval	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Restripe Intersection/ Sharrows, Blue Lane or Bike Signal	Improve intersection lane markings/signs and/or signals. Need serious look at connection to proposed FARD commuter path underpass.
North	JC6 10	Loop 1 @ Braker	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Restripe Intersection/ Sharrows, Blue Lane or Bike Signal	Improve intersection lane markings/signs and/or signals. Need serious look at connection to proposed Rail station #6, Braker& Burnet.
North	JC 8 none	The Domain-IBM-Archor Walk-Pickle Research	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Add Routes	Need thorough review for developing routes. Huge area without bicycle access. New rail and high employment base and commercial & residential development.
North	LW3 10	Braker Ln.	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Add Signage and/or Sharrows	Sharrows (in outside lanes between major intersections: in both outside and inside lanes at major intersections), "share the road", "Bikes use traffic lanes," "Watch for bikes," etc.
NW	JH10 none	RM 2222 @ steep hill	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Widen Shoulders	Consider reducing speed limit.
NW - West	EC7 9	Loop 360-Ramps at RM 2222 & RM 2244	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Blue Lanes, Signage and/or Widen Shoulder	This route needs bicycle route signs, not just a few warning signs. The ramps at 2222 and 2244 should be re-evaluated for cyclists. Maybe some "blue lanes" could be implemented. Need wider shoulder and maybe redesign to encourage right angle crossing. Widen roadway to east @ 2244 to include shoulders.
S. Central	JH4 9	Loop 360 Bridge over Barton Creek (east of Loop 1)	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Add Bike Bridge and Widen Pavement	Shoulder space taken when TxDOT extended right turn lane from Loop 1. Bike/Ped Bridge over creek, widen pavement/bridge
SE	JEN12 65, 60	Montopolis/ E. Riverside/ US 183 S/ E Ben White	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Add Routes	Perform study to determine new routes. Leverage w/ E. Riverside re-development. Need connectivity to AOC, schools, ABIA.
SE	JEN13 none	Austin-Bergstrom Intl Airport	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Route Study and/or Separated Bike Paths	Inaccessible by bike. High employment base. Perform study to determine routes. Consider separated paths, tunnels, ped overpasses along US 71 E and US 183 S.
SE	JR15 65	E Ben White @ Montopolis	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Restripe and/or Sharrows	Add updated intersection markings and sharrows leading up to intersection.
South	WH7 47	S Congress Ave @ Ben White	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Two-way Access and Crosswalks	Major barrier to crossing. Bicycles often ride on sidewalk to avoid motor traffic. Would suggest moving bicycle access to east side of overpass (and making access two-way) and pedestrian traffic to west side.
South	WH10 27	Manchaca Rd - Ben White to Matthews Ln	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Route Study or Remove Existing	Manchaca Rd on this route needs to either have at least a bike facility on one side of the road - or to be taken off of the bike map entirely. Very unsafe road to bikes. The map, even with colorcoding, might mislead even an experienced cyclist into an illusion of safety. High speed traffic and narrow car lanes.
South	WH12 76	Stassney Ln - West Gate Blvd to S Congress	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Route Study and Lane Diet	Could be possible to impose a "lane diet" and get enough area for two bike lanes.
South	WH13 80	William Cannon Dr - West Gate Blvd to S Congress	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Add Bike Lanes	Very high traffic, but bike lanes could be striped.
South - SE	WH8 80	IH-35 @ William Cannon	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Add Bike Lane or Sharrows	Very busy intersection -- bikes often forced to use sidewalk. Striping a bike lane or shared lane across would help.
West - S Central	JH1 434	Loop 1 South @ Bridge over Barton Creek	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Add Bike Bridge	COA Bike/Ped bridge will help. Need this bridge in both directions though. Transitions to existing facility will be challenging. STP-MM project submission
S. Central	CS5 47	Congress Avenue -Ollort to Town Lake	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Reconfigure Parking & Restripe	Replace angle parking with back-in angle parking and add a clearly marked bike lane that has a shy distance from the angle parking.
West	JH7 none	SH 71- RM 2244 to RM 620	HI =1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI =1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI =1 MED=2 LO=3	HI =1 close MED=2 LO=3 far	HI =1 close MED=2 LO=3 far	HI =1 MED=2 LO=3	HI =1 hard MED=2 LO=3 easy	Add Bike Lanes (Construction is complete.)	Construction zone leaves no room for bicyclists. Work Zone Traffic Control Plans should give space to bicyclists. Update (11/07)-lanes and median divider added and left no shoulders for bicyclists.)

recommended priorities
Recommended Priorities

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INFRASTRUCTURE AND FACILITIES SUBCOMMITTEE BARRIER PROJECT PRIORITIES

Area	BARRIERS	ROUTES	PRIO	Barrier Difficulty level	Distance req'd to avoid Barrier	Proximity to "Green Route"	Major Attractor Proximity	Proximity to Mass Transit Bus/Park&Ride/Rail plan	**Current level of route use	Difficulty of solution	Possible Recommendations	Comments
E. Central	JEN1	54	41	HI=1 MED=2 LO=3	HI=1 > 1 mi MED=2 1/2 - 1 mi LO=3 < 1/2 mi	HI=1 on route MED=2 < 1/2 mi LO=3 > 1/2 mi	HI=1 close MED=2 LO=3 far	HI=1 close MED=2 LO=3 far	HI=1 MED=2 LO=3	3	Restripe Intersection or Route Study	PM peak queues on SB IH35 frontage back up from Cesar Chavez. Dual rt turn lanes adds to confusion & danger. Glass & trash on bikeway. Reroute to 6th street and improve intersection markings.
NW	JR11	23	42	1	3	1	1	1	1	3	Route Study or Remove Existing	Re-route to Far Hills and Balcones to 2222 S. bound-high UT student population density
South	WH1	45	43	1	3	3	3	1	1	1	Add Signals and/or Route Study	Crosswalk signals similar to those on Barton Springs Rd across from Austin Energy -- or -- move route westward to cross William Cannon at Bill Hughes Rd stoplight.
South	WH2	45	44	1	3	3	2	1	1	1	Add Signs, Bike Lanes and Restripe	Route 45 is a useful alternative to Route 47. South Congress route, but it is not signed and is not appropriate for commuter or novice cyclists. Place signs, stripe a bike lane or at least provide warning signs for motorists.
South	WH4	31	45	1	3	3	3	1	1	1	Add Signs and Bike Lanes	Signage for Route 31 ends at Matthews Lane, but route could provide a great commuting route for those who would otherwise drive S 1st, S Congress, or Manchaca to work downtown. Update signage, provide bike lanes on rural-type roads like Forestwood.
E - Central	KK10	30	46	2	1	1	1	1	1	3	Restripe Intersection/Add Signage and Increase Maintenance	Utilize updated intersection lane markings at free flowing rt. Turn lane/ramp Re-stripe and improve maintenance existing bike lane on overpass and west bound. One of the best routes to cross IH-35.
E. Central	JEN5	42	47	2	1	1	1	2	2	3	Restripe Intersection/ Sharrows, Blue Lane or Bike Signal	Safest IH35 Crossing from East Austin to UT. Sharrows/blue lanes or other lane markings and signage should be added.
E. Central	JEN7	59	48	2	1	1	1	3	3	3	Add Sharrows or Lane Diet & Widen Sidewalk	Narrow pedestrian side walk not suitable for bikes. Add sharrows.
East	KK1	30	49	2	1	1	1	1	1	3	Route Extension	Extend lane thru Bartholomew Park
East	KK3	none	50	2	1	1	2	1	1	1	Restripe Intersection/ Sharrows, Blue Lane or Bike Signal	High density population. Barrier to Mueller re-development. Closest route is Springdale 1 mile east. Needs further evaluation as potential route.
NW	JR10	6	51	2	1	1	1	2	2	3	Restripe Intersection/ Sharrows, Blue Lane or Bike Signal	Sharrows/blue lane or bike signal.
S. Central	CS8	68	52	2	1	1	3	2	2	2	Add Sidewalk, increase Maintenance	Maintenance needed. Add sidewalk so that pedestrians are not forced to use bike lane.
S. Central	CS11	25	53	2	1	1	3	3	3	2	Widen Shoulders, add Signage and Increase Maintenance	Maintenance needed, add signage and increase shoulder width.
SE	JR16	59	54	2	1	1	1	1	1	3	Restripe and/or Sharrows	Add updated intersection markings and sharrows leading up to intersection. Good route connecting E & W at IH35 near St. Edward's
E - Central	KK4	none	55	2	1	2	1	1	1	1	Route Study	High density population and planned Rail Station at MLK. Barrier to Mueller re-development. Potential connector from Mueller to Manor Rd (42) or Cherrywood (59). Needs further evaluation as potential route.
North	JR7	none	56	2	1	2	1	2	2	2	Add Route	Review as new route - connector to Jollyville - high population density
NW	JR8	none	57	2	1	2	3	1	3	3	Add Route	Review as new route - connector to Jollyville - high population density -crosses private property N of 183
North	JC1	12	58	2	1	3	1	1	2	2	Route Study	Route needs to be improved to be an easier level of service. Connection to new Rail station at Braker & Burnet.
SE	JR18	72	59	2	1	3	1	2	2	1	Add Bike Lanes - Route Study	Add bike lanes. Wide outside lanes - potential candidate as route to ABIA. Study needed to determine how to extend at US183 and SH 71.
South	WH5	47	60	2	1	3	1	1	1	3	Add Bike Signal in lanes, restripe lane at bus stops, update signs	Provide on-road bicycle symbols. Update route signage between major intersections. Provide bike lane transitions at marked bus stops.
South	WH6	47	61	2	1	3	1	1	1	1	Add Signals	Provide on-road bicycle striping to lead across intersection. Potentially provide bicycle signals. Protect against motorists speeding from Stasney north onto S Congress.

recommended priorities

Recommended Priorities

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INFRASTRUCTURE AND FACILITIES SUBCOMMITTEE BARRIER PROJECT PRIORITIES

Area	BARRIERS	ROUTE	Barrier Description	Barrier Difficulty Level	Distance req'd to avoid Barrier	Proximity to "Green Route"	Major Attractor Proximity	Proximity to Mass Transit Bus/Park&Ride/Rail plan	**Current level of route use	Difficulty of solution	Possible Recommendations	Comments
South	WH14	82	Entire route 82	2	1	3	3	2	1	1	Add Signs	Bike route not marked at all except for one misleading sign at junction of routes 82 and 31.
SW	JH2	434,43,66	US 290 W @ Loop 1 Interchange	2	1	3	2	2	2	2	Restripe Intersection, Widen Shoulders and Add Signage	Western half of route unintelligible from map.
W. Central	JH11	64	Loop 360 @ Lost Creek Blvd	2	1	3	1	3	3	3	Restripe Intersection/Add Bike Lanes/Blue Lanes, Add signage	Widen shoulders and/or outside lanes, install bicycle warning signs and bicycle lane markings. Bicycle striping/signs/lanes to guide adult/child bicyclists from Lost Creek Subdivision across Loop 360 to schools on other side.
West	EC3	none	RM 620 WB	2	1	3	2	3	2	2	Retrofit/Drainage Grates	The Drainage grates are parallel and the asphalt overlays have created a drop-off at each grate location. The grates need to be retro-fitted and risers should be installed, along with the overlays.
West	EC4	none	RM 620 EB	2	1	3	2	3	2	2	Retrofit/Drainage Grates	The Drainage grates are parallel and the asphalt overlays have created a drop-off at each grate location. The grates need to be retro-fitted and risers should be installed, along with the overlays.
N. Central - North	LW1	214	Burnet Rd - Steek to Loop 1	2	2	1	1	1	1	1	Route Study	bike lanes, perhaps either by separated paths (eg, like sidewalks) or by widening the roadway. At signalized intersections, either bike traffic should merge into main traffic lanes, sharing with cars, or blue bike lanes crossings should indicate intended bike travel path. Consider "No right turn on red" in the latter case.
N. Central	JR2	16	Loop 1 @ Steek overpass	2	2	1	1	1	3	3	Restripe Intersection and Widen Bike Lanes	Utilize updated intersection lane markings at free flowing rt. Turn lane/ramp. Widen existing bike lane.
N. Central	JR13	24	White Horse - Payne @ Burnet Rd	2	2	1	2	1	2	2	Restripe Intersection/ Sharrows, Blue Lane or Bike Signal	Connect through commercial properties - AutoZone/ Casa village? -school/Lamar middle school EB. Stencils and probably also signs needed here to indicate how cyclists should position themselves and the lines that cyclists are expected to follow. Ensure that signal is sensitive enough to detect cyclists. WB: Consider pedestrian-style signalized crossing
S. Central	CS9	11	Robert E Lee	2	2	1	1	2	1	1	Add Bike lane, Widen shoulder or Off-street Facility	Add bike lane, increase shoulder width or add an off-street shared-use path.
South	EC8	31	Emerald Forest	2	2	1	2	1	2	2	Widen Lane or Prohibit Parking	Many cars parked in bike lanes, so cyclists end up in travel lane. Either widen the bike lanes, so parking can be added or enforce a "no parking in bike lanes" policy.
SW	JH8	80	US 290 W @ William Cannon	2	2	1	1	1	2	2	Restripe Intersection/Add Bike Lanes/Blue Lanes, Add Signage	High traffic volume. Needs bicycle lanes, signs and markings.
SW	JH9	none	US 290 W @ SH 71 (the Y in Oak Hill)	2	2	1	2	1	2	2	Restripe Intersection/Add Bike Lanes/Blue Lanes, Add Signage	High traffic volume. Needs bicycle lanes, signs and markings.
E. Central	JEN2	52	IH35 @ 6th Street	2	2	2	1	1	3	3	Restripe Intersection/ Sharrows, Blue Lane or Bike Signal	Safest IH35 Crossing from East Austin to downtown other than towleke trail. Sharrows/blue lanes or other lane markings and signage should be added.
North	JC2	47	Metric Blvd- Parmer to Bittern Hollow	2	2	2	1	1	3	3	Restripe and Add Signage	New lanes connect to N-S neighborhood route 47. Consider improved intersection markings and signage at Parmer Lane
NW	JR6	23	Barrington North bound	2	2	2	1	2	3	3	Add Signs	Add signage. Extend route to Anderson Mill Rd. Canyon Vista Middle school nearby.
North	JC3	39	Metric Blvd- Kramer to Rulland	2	2	3	1	1	3	3	Add Sharrows	New lanes north and south of this section of Metric. If too narrow for lanes, use sharrows on this section to connect the 2.
SW	JH3	43, 9	Interchange	2	2	3	1	1	2	2	Signage or Remove existing	Widen shoulders and/or outside lanes, install bicycle warning signs and bicycle lane markings or Remove from bike map until a safe solution can be implemented.
E. Central	JEN9	52	East 7th Street -IH35 to Martinez	2	3	2	1	1	3	3	Do Nothing	Narrow lanes, cyclists use sidewalks, 6th or 4th streets. Continue current rating as Red route. Close to alternative routes
North	JC7	none	Parmer Lane- West of Loop 1	2	3	3	1	2	2	2	Route Study and/or Separated Bike Paths	Need additional routes and connectors to Parmer lane and west to RM 620. Some greenbelt/powerline corridors in the area could incorporate combined recreation/moderate speed routes.
North	JC9	none	Howard Lane -North ETJ area	2	3	3	1	1	2	2	Route Study	Need routes in ETJ area north of Howard Lane especially connections to proposed rail station

recommended priorities
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INFRASTRUCTURE AND FACILITIES SUBCOMMITTEE BARRIER PROJECT PRIORITIES

Area	BARRIERS	ROUTE	Barrier Description	PROPOSED	Barrier Difficulty Level	Distance req'd to avoid Barrier	Proximity to "Green Route"	Major Attractor Proximity	Proximity to Mass Transit Bus/Park& Ride/ Rail plan	**Current level of route use	Difficulty of solution	Possible Recommendations	Comments
W. Central	JH5	64	Welsh Turlton @ Wilderness/Private	82	3	1	1	1	3	3	3	Repair Pedestrian Walkway, Increase maintenance	Vegetation around ped walkway (underneath Welsh Turlton) needs trimming and dirt work to address sharp drop offs from concrete walkway.
South	WH9	25	Redd St- Manchaca to Banister	83	3	1	3	2	1	3	3	Add Signs	Initial signage and link this route to others via signage. Redd / Western Trails / St Elmo is a very convenient and relatively pleasant bike alternative to Ben White or Stansney, but the route are not consistently marked.
South	WH11	27	Manchaca Rd -Matthews Rd to Slaughter Ln	84	3	1	3	2	1	3	3	Add Signs	The opposite situation from what is north of Matthews. There is an almost 10' wide shoulder, striped off from traffic, that is perfect to ride on. Only problem is very high speed traffic (55-60 MPH) and no route signs, which should be installed.
West	EC1	none	Steiner Ranch - County Trails Ln.	85	3	1	3	2	3	3	3	Restripe and Add Signage	Repaint bicycle pavement markings and use thermoplastic paint. Also, install more bicycle signs near schools.
West	EC2	none	Steiner Ranch - Steiner Ranch Blvd.	86	3	1	3	2	3	3	3	Restripe Lanes	The bike lanes on this road are nice, but the pavement markings on the portion that has been seal coated is not too visible. Repaint bicycle pavement markings.
West	EC11	7	RM 620 @ Rock Harbor	87	3	1	3	2	3	3	3	Add Signs and Bike Lanes	This intersection is great, but the bike lanes do not continue down 620. Even if bike lanes are never striped, some RM 620 route signs would be great.
NW	EC6	21	Jollyville Rd.	88	3	2	1	3	1	3	3	Restripe and Add Signage	The lane widths should be evaluated, to ensure that they are a minimum of 5' wide. Striping on sealcoat is faint and bike lanes were not maintained during construction. Add motorist signage at driveways
S. Central	CS12	68	Mary	89	3	2	1	3	2	3	3	Prohibit Parking in Bike Lanes	Address parking in bike lanes
E. Central	JEN6	none	JH35 Bridge @ Lady Bird Lake	90	3	2	2	1	2	3	3	Route Study -Improve Pedestrian Bridge	Improve pedestrian bridge for bicycle connectivity to E. Riverside
Central	JR3	31	40th - Medical Pkwy to Shoal Creek	91	3	3	1	2	1	3	3	Increase Maintenance and update map	Map needs to be corrected. Requires tree trimming.
Central	JR12	38	34th Street-35th to Red River	92	3	3	1	1	1	3	3	Add Bike Lanes	Add bike lane -and extend to Red River Sbound to Manor Rd
East	KK5	26	Loyola	93	3	3	1	3	3	3	3	Increase Maintenance	Good route but in terrible shape. Construction and other debris is a major problem. Update maintenance by City of Austin
East	KK8	26/57	Brindcliff / Berkman	94	3	3	1	1	1	1	1	Restripe and Add Signage	Roadway changes from 2-4-2 lanes-Needs intersection lane markings.
N. Central - Central	EC14	31	Shoal Creek	95	3	3	1	1	1	3	3	Review Bike/Parking Shared Lane	Other than sharing the lane with parked cars, this is a great route. This is a fine example of how the neighborhood's and the cyclists' needs were met.
NW	EC10	22	Far West Blvd.	96	3	3	1	2	2	3	3	Restripe and Add Signage	Some of the edges at the C&G are rough. Some painted bicycles should be put down in the bike lanes, especially near Murchison school. There should also be better signage at the intersections, warning the motorists about potential turning conflicts with cyclists.
NW	EC12	23	Mesa Drive	97	3	3	1	1	1	3	3	Add bike stencil in lanes	Need painted bicycles in bike lanes near school
NW	EC13	23	Mesa Drive	98	3	3	1	1	1	3	3	Add Signs	Lane is not standard width for parking and bicycles. Should possible put signs up, like on Shoal Creek.
S. Central	CS13	25	Bluebonnet	99	3	3	1	2	2	3	3	Prohibit Parking in Bike Lanes and Increase Maintenance	Address parking in bike lanes and maintenance needed.
South	WH3	84	Dittmar Road - Manchaca to S 1st St	100	3	3	1	1	1	3	3	Add Signs	Great bike facilities, no signs that I could see. Provide ample signs.
W. Central	EC9	64	Rollingwood & Bee Caves Intersection	101	3	3	2	2	3	2	2	Extend Loop Detector	The signals for crossing Bee Caves are on a "loop" that does not detect cyclists. The loop detector should be extended out to the lane edges.

recommended priorities

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