



AUSTIN AVENUE
SIDEWALK TECHNICAL
MEMORANDUM

May 2025





Memorandum

To: Jim Reed
City of Waco

From: Clark W. Gauer, PE
BGE, Inc.

Date: May 21, 2025

Subject: Austin Avenue Sidewalk Study and Report: Technical Memorandum

1.0 Introduction

The City of Waco (City) engaged BGE, Inc. (BGE) to evaluate the Austin Avenue sidewalk locations from City Hall to 18th Street. BGE has been tasked with making independent observations and recommendations and reviewing the preliminary construction cost estimates developed by City staff. This memo documents the analysis methods used and conclusions reached as part our effort to utilize the agreed-to requirements, the considerations involved, and the solutions deemed available to the city. The city intends to move forward with a Transportation Alternative (TA) Grant application in the near-term future. Austin Avenue is located within the City's Public Improvement District Zone.

2.0 History / Data Collection / Survey

The City desires to improve the overall condition of the pedestrian friendliness (sidewalks, trees, lighting, and signals) along Austin Avenue. Table 1 provides the desired amenity-related items.

Location	From	To	Sidewalk (SY)	Bike Lanes	Trees	Lighting	Signals	Sidewalk Costs	Exhibit	Notes
Austin Ave	City Hall	9 th	944		EXIST	EXIST	X	\$1,300,000	EXHIBIT A-2	Remedy trip hazards and impacts caused by overgrown trees
Austin Ave	9 th	18 th	6,652		X	X		\$5,631,250	EXHIBIT A-3	

Table 1: City Identified Locations

The X's that were included within Table 1 (for trees, lighting, and signals columns) generally indicate that the city desires these items within the project location.

2.1 Field Site Visits

BGE performed field site visits along Austin Avenue to assist in observing and identifying:

- Historical use: does the project location have existing defined walking paths.
- Existing Right-of-Way Envelope / Easement: it is likely that the project location can move forward without the need for additional ROW / Easement to be acquired; or it is likely that the project location will require additional Right-of-Way (or Easement) to be acquired since portions of the identified solution would be located outside the existing City Right-of-Way. Boundary survey was not obtained as part of this effort, so this determination is somewhat subjective.
- Franchise Utility locations: does the project location have significant observable utilities that require location prior to project moving forward to bid.
- Miscellaneous Constraints: to include items such as fences, signs, grades behind the Curb & Gutter, fire hydrants, franchise vaults, stairs, etc.
- Trees: removal, replacement, or addition (See Section 3.0)
- Lighting: replacement or addition (See Section 3.0)
- Our best guess (non-grant consultant) as to each location meeting criteria from prior Transportation Alternative program rules (safety, project readiness, geographic equity, connectivity and accessibility, community support, and demand).

Transportation Alternative Call for Projects

Criteria from prior TxDOT TA Call for Projects included the following evaluation categories. It is assumed that the eligibility determination to TA program rules will be similar for the upcoming call for projects:

No.	Category	Criteria Description	Criteria	
			Non-urban	Small Urban
1	Safety	<p>Demonstrates need for safety improvement and identifies appropriate safety countermeasures</p> <p>Provides safer lower stress accommodations for walking, bicycling, and other non-motorized travel</p>	X	X
2	Project Readiness	<p>Demonstrates the ability to advance the project to construction immediately, if selected for funding</p> <p>Identifies comprehensive, detailed construction cost estimate</p> <p>Meets and/or exceeds design criteria established by US Access Board, FHWA, AASHTO, TxDOT, and/or NACTO</p> <p>Past project sponsor performance on previous TxDOT-administered projects</p>	X	X
3	Geographic Equity	Improves mode choice in under-served communities	X	X
4	Connectivity & Accessibility	<p>Improves non-motorized routes and access to destinations of interest, including business districts, downtowns, and employment centers; schools, services, and active living/health facilities</p> <p>Supports multi-modal connections and access</p> <p>Eliminates barriers to pedestrians, bicycles, and wheelchairs</p> <p>Supports investments in local/interregional tourism, especially Texas Bicycle Tourism Trails</p>	X	X
5	Community Support & Planning	<p>Public outreach demonstrates positive community support</p> <p>Established community partnerships commit to collaboratively implement project</p> <p>Project demonstrates a link to formal transportation planning efforts (Small Urban only)</p> <p>Consideration of small communities with limited planning resources in the Small Urban funding category (Small Urban only)</p> <p>Demonstrates commitment to provide the local match and maintenance of facility once complete</p>	X	X
6	Demand	Improves access to higher density residential and/or employment centers (Small Urban only)		X

3.0 Design / Evaluation Criteria

The following conceptual rendering was identified as a go-by (model) block.



Figure 1: Conceptual Rendering: from Public Improvement District Open Spaces Plan (2014)

Sidewalks

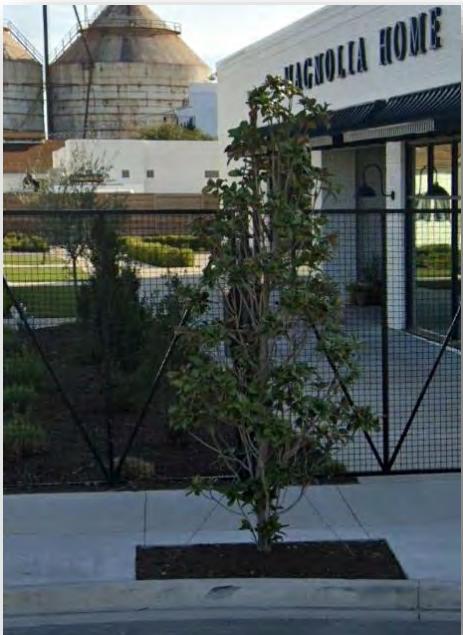
The effort generally attempted to adhere to the following sidewalk criteria.

<i>Location</i>	<i>Proposed Width</i>	<i>Example Detail</i>
<i>Within Public Improvement District Zone</i>	Match existing: in many areas this will be from BOC to ROW. Standard concrete (no brick medallion paths)	A diagram showing a cross-section of a sidewalk. The sidewalk is divided into four horizontal zones: "Frontage Zone", "Throughway Zone", "Furnishings Zone", and "Edge Zone". The "Frontage Zone" is the area closest to the building. The "Throughway Zone" is the area between the building and the tree. The "Furnishings Zone" is the area between the tree and the street lamp. The "Edge Zone" is the area closest to the street. There is a red car parked on the street. A person is walking in the "Throughway Zone", and another person is sitting on a bench in the "Furnishings Zone". A street lamp is in the "Edge Zone".

Trees

The effort generally attempted to adhere to the following sidewalk criteria.

Location	
Within Public Improvement District Zone	Trees to be generally spaced at 50' spacing on both sides of the street similar to <i>Figure 2</i> .



The City currently prefers the installation of Tree Wells (and does not desire Tree Grates). The city is encouraged to select dwarf trees (species) that would not grow vertically into franchise lines located above them (See *Figure 1*). City staff should work to select species that thrive in the Central Texas region.

Lighting



Within Public Improvement District Zone: Antique Lights (typically 11' or 14' height) to be generally spaced at 100' spacing with Acorn luminaires on both sides of the street similar to *Figure 2*.



Signals

City staff provided information from Waco Traffic Services; therefore signals were not evaluated as part of this effort. The project costs provided by the city were incorporated into this effort.

4.0 Evaluations (Sidewalk Evaluation Forms)

BGE developed Two-page Sidewalk Evaluation Forms. These forms are location within Appendix A includes pictures of photos that were taken that attempt to further illustrate the analysis methods used and conclusions reached as part our field site visits.

It is not feasible to fully vet potential franchise utility conflicts at this stage for each project location (i.e. as part of this effort). It is assumed that franchise relocations will be required as part of many of the locations. It is important that Franchise utility lines be evaluated closely in the future with regard to future tree and lighting items from both an aesthetic approach as well as long term maintenance consideration (tree limbs within cable/power lines). When OHE poles and lines remain and compete with trees / lighting, the overall anticipated aesthetic of the facility is generally not fully realized.

4.1 Field Site Visit Observations and Recommendations

The field site visits revealed numerous observation and recommendation items which are included within Appendix B.

4.2 Recommendations

Site conditions were analyzed in order to provide recommendations as to future prioritizations. Based upon the prior TA Call for Projects criteria, it is believed that Austin Avenue would have a good chance of being selected.

Austin Avenue (Location B) from City Hall to 11th Street: This segment contains trip hazards along its length. Removing and replacing the specified sections would not only benefit the pedestrians that visit the location to sightsee and shop but the employees of the stores that are located along the street. The demand for this location to have improvements is assumed to be high.

The 2 page project forms are provided within Appendix A. The preliminary Opinion of Probable Construction Cost (OPCC) is provided within Appendix B.

5.0 Opinion of Probable Construction Cost (OPCC)

The City provided BGE with the cost that the city previously calculated for this segment. The cost was based on sidewalks, trees, lighting, and signals.

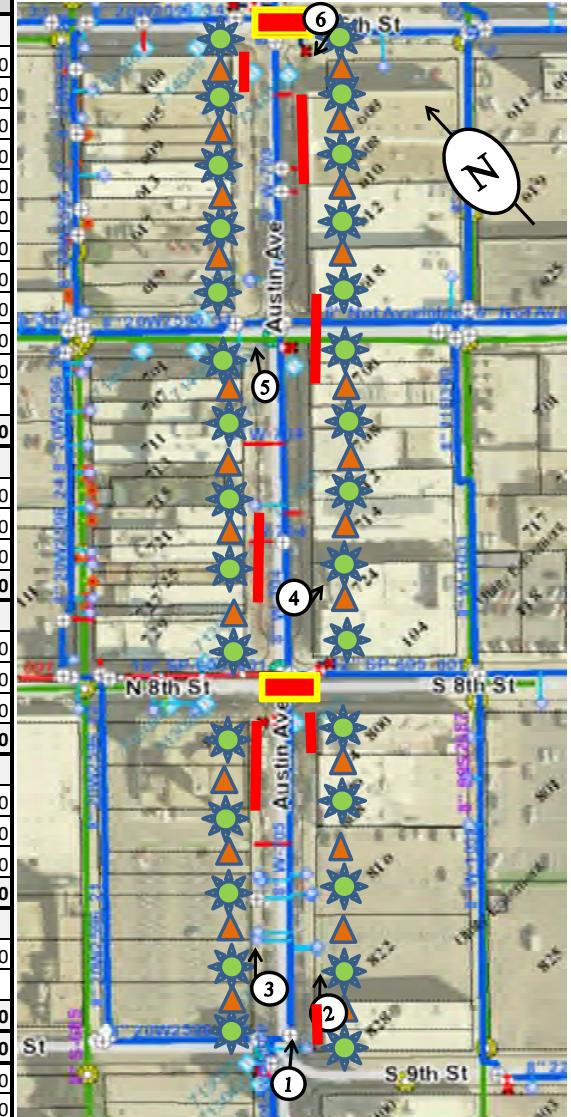
A Preliminary Opinion of Probable Construction Cost Spreadsheet is provided within Appendix C. A 30% Construction Contingency and a 17.5% Engineering & Survey Contingency has been included due to the preliminary nature of the effort.

APPENDIX A
SIDEWALK EVALUATION FORMS

LEGEND	
	PROPOSED LIGHT
	EXISTING LIGHT
Sidewalk Evaluation Forms Legend	
	PROPOSED SIDEWALK
	PROP. SDWLK / RMV & RPL C&G
	REMOVE & REPLACE SIDEWALK
	RMV & RPL SDWLK & C&G
	SIGNAL LOCATION
	PROPOSED TREE

Sidewalk Evaluation Form

Location:	Project Name:				 CITY OF WACO																																																																																																																																																																																			
B-1	Austin Avenue																																																																																																																																																																																							
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Project Number:	Project Name:
B	Location 1
	
1	Facing North (9th Street):
2	Facing North: East side existing sidewalk to remain.



Sidewalk Evaluation Form

Location:	Project Name:									
B-2	Austin Avenue									
Location (Nearest Street Intersection)					Functional Classification					
Begin:	6th Street			Length (FT)	<input checked="" type="checkbox"/> Collector <input type="checkbox"/> Arterial					
End:	City Hall/3rd St			1,200	<input type="checkbox"/> Local					
<p>Safety <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/></p>	Criteria Evaluation				<p>Comment</p> <p>Downtown area Safety Hazard: Existing sidewalk has trip hazards, improve walking access. Ramps not ADA compliant. Enables economic opportunity.</p>					
	High	Medium	Low	None						
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Conflicts					Project Description					
System	Location				<p>Remove and replace sidewalk at identified locations: Remove/replace +/- 25% of sidewalk this segment to remedy trip hazards. Existing lights to remain and remove any dead trees. Signals: Existing signals at 4th St intersection to remain but replace conduit, controller, add pedestrian poles, etc. Existing Bike Lane Markings. Water (Long) on east side of Austin Ave.</p>					
<input checked="" type="checkbox"/> Water	<input checked="" type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear						
<input type="checkbox"/> Wastewater	<input type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear						
<input type="checkbox"/> Gas	<input type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear						
<input type="checkbox"/> Communications	<input type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear						
<input type="checkbox"/> Electric	<input type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear						
<input type="checkbox"/> Irrigation /Other	<input type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear						
Description					Unit	Est. Qty.	Unit Price	Total		
Sidewalk										
Solid Sodding (Section 1.7)		SY	0	\$10.00	\$0.00					
Standard Curb Inlet (Detail SD-2, SD-3, SD-4)		EA	0	\$12,500.00	\$0.00					
Residential Drive Approach (Section 5.4, ST-23)		SF	0	\$22.50	\$0.00					
Commercial Drive Approach (Section 5.4, ST-24)		SF	0	\$27.50	\$0.00					
Standard Curb & Gutter Replacement (Detail ST-20)		LF	0	\$75.00	\$0.00					
Prop Sidewalk (Section 5.4, Detail SW-4)		SF	0	\$15.00	\$0.00					
Remov & Replace Sidewalk (Section 5.4, Detail SW-4)		SF	9000	\$25.00	\$225,000.00					
Curb Ramp (Detail SW-7, SW-8)		EA	8	\$2,500.00	\$20,000.00					
Relocate Existing Fire Hydrant		EA	0	\$2,500.00	\$0.00					
Traffic Control Plan & Implementation (Detail T-1)		EA	1	\$20,000.00	\$20,000.00					
Mobilization (Section 6.4) Estimated at 8%		LS	1	\$21,200.00	\$21,200.00					
Sidewalk Subtotal \$286,200.00										
Tree										
Remove Existing Tree & Install Tree		EA	11	\$700.00	\$7,700.00					
Tree Well		EA	11	\$4,000.00	\$44,000.00					
Irrigation		EA	1	\$50,000.00	\$50,000.00					
Tree Subtotal \$101,700.00										
Lighting										
Remove Existing Light		EA	0	\$400.00	\$0.00					
Install Antique Street Light (Detail T-2, T-3, T-4)		EA	0	\$10,000.00	\$0.00					
Ug. Elec. Cond.(2-6") & Elec. wiring, connect. To Oncor		LS	0	\$44,000.00	\$0.00					
Lighting Subtotal \$0.00										
Signals (James Bailey)										
Replace Conduit, Controller, Add Ped Poles, etc.		EA	1	\$150,000.00	\$150,000.00					
Replace Conduit, Controller, Add Ped Poles, etc.		EA	0	\$200,000.00	\$0.00					
Full Rebuild		EA	0	\$250,000.00	\$0.00					
Signal Subtotal \$150,000.00										
Bike Lanes										
Install Bike Lanes / Accessories		LS	0	\$50,000.00	\$0.00					
Signal Subtotal \$0.00										
Construction Subtotal \$537,900.00										
Engineering & Surveying (17.5%) \$94,100.00										
Construction Contingency (30%) \$161,400.00										
Total Estimated Project Cost \$793,400.00										
Rank: 2					By: EL	Date: 11/9/22				



Location B-2

Project Number:

8

Project Name:

Location 2



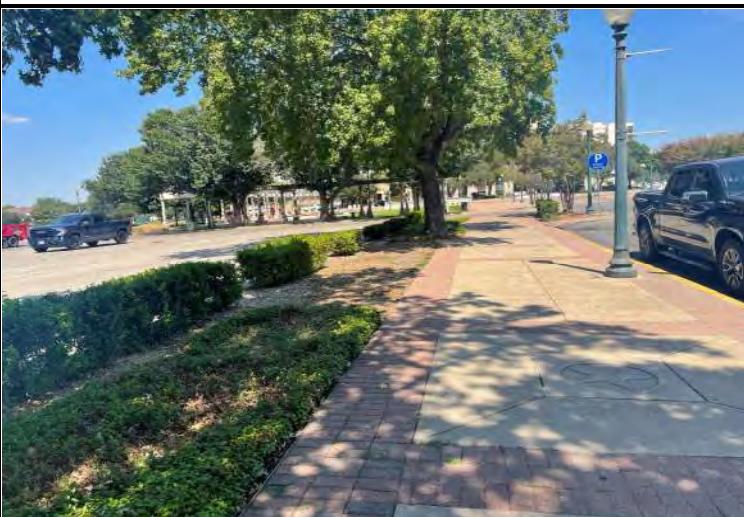
1 Facing North(6th):

2 Facing North: East side existing sidewalk to remain.



3 Facing North: West side existing sidewalk to remain.

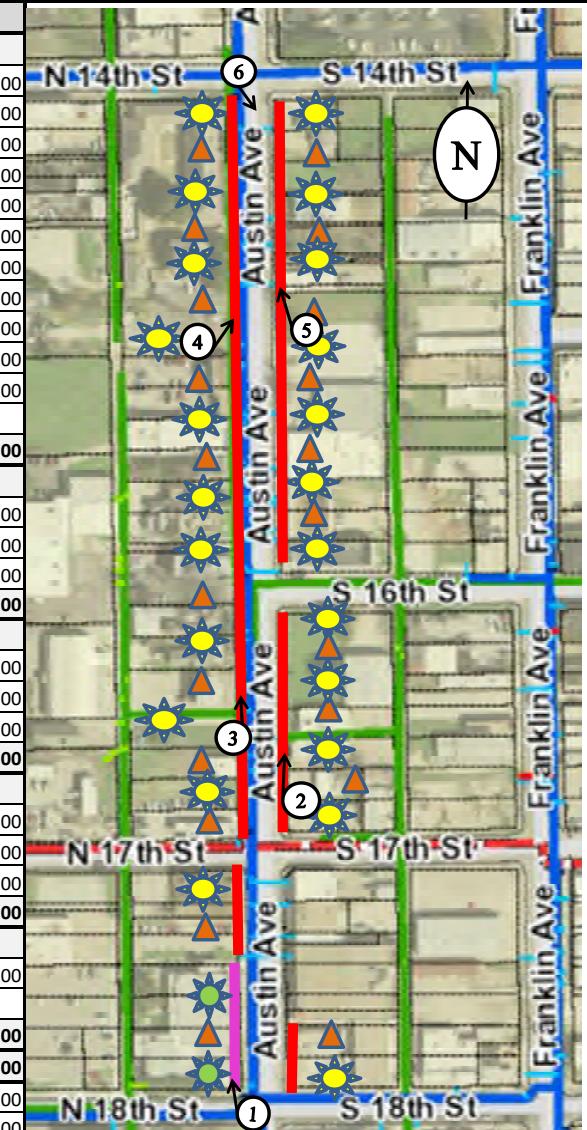
4 Facing North: East side existing sidewalk to remain.



5 Facing North: West side existing sidewalk to remain.

6 Facing South (3rd Street):

Location:	Project Name:								
C-1	Austin Avenue								
Location (Nearest Street Intersection)					Functional Classification				
Begin:	18th Street					Length (FT)	<input checked="" type="checkbox"/> Collector <input type="checkbox"/> Arterial		
End:	14th Street				1,600	<input type="checkbox"/> Local			
Criteria Evaluation					Comment				
	High	Medium	Low	None					
Safety	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Downtown area Regional audience of users Safety Hazard: Existing sidewalk is in fair to poor condition, improve walking access. Ramps not ADA compliant.				
Project Readiness	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Geographic Equity	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Connect. & Access.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Comm. Support	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Demand	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Conflicts					Project Description				
System	Location				Proposed sidewalk at identified locations: East side and West side: Remove and replaced existing sidewalk with BOC to ROW. Existing curb on both sides in fair to poor condition. Install Trees and Lighting at identified locations. Signals: existing poles to remain. Existing Bike Lane Markings. Water (Long.) on west side of Austin Ave. There are lighting poles on both sides of the street spaced about ~150'.				
<input checked="" type="checkbox"/> Water	<input checked="" type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear					
<input type="checkbox"/> Wastewater	<input checked="" type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear					
<input type="checkbox"/> Gas	<input checked="" type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear					
<input type="checkbox"/> Communications	<input checked="" type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear					
<input checked="" type="checkbox"/> Electric	<input checked="" type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear					
<input type="checkbox"/> Irrigation /Other	<input type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear					
Description						Unit	Est. Qty.	Unit Price	Total
Sidewalk									
Solid Sodding (Section 1.7)		SY	0	\$10.00	\$0.00				
Standard Curb Inlet (Detail SD-2, SD-3, SD-4)		EA	6	\$12,500.00	\$75,000.00				
Residential Drive Approach (Section 5.4, ST-23)		SF	0	\$22.50	\$0.00				
Commercial Drive Approach (Section 5.4, ST-24)		SF	19550	\$27.50	\$537,625.00				
Standard Curb & Gutter Replacement (Detail ST-20)		LF	0	\$75.00	\$0.00				
Prop Sidewalk (Section 5.4, Detail SW-4)		SF	0	\$15.00	\$0.00				
Remov & Replace Sidewalk (Section 5.4, Detail SW-4)		SF	23900	\$25.00	\$597,500.00				
Curb Ramp (Detail SW-7, SW-8)		EA	10	\$2,500.00	\$25,000.00				
Relocate Existing Fire Hydrant		EA	0	\$2,500.00	\$0.00				
Traffic Control Plan & Implementation (Detail T-1)		EA	1	\$20,000.00	\$20,000.00				
Mobilization (Section 6.4) Estimated at 8%		LS	1	\$100,400.00	\$100,400.00				
Sidewalk Subtotal						\$1,355,525.00			
Tree									
Remove Existing Tree		EA	0	\$400.00	\$0.00				
Install Tree		EA	25	\$300.00	\$7,500.00				
Tree Well		EA	25	\$4,000.00	\$100,000.00				
Tree Subtotal						\$107,500.00			
Lighting									
Remove Existing Light		EA	0	\$400.00	\$0.00				
Install Antique Street Light (Detail T-2, T-3, T-4)		EA	30	\$10,000.00	\$300,000.00				
Ug. Elec. Cond.(2-6") & Elec. wiring, connect. To Oncor		LS	3	\$44,000.00	\$132,000.00				
Lighting Subtotal						\$432,000.00			
Signals (James Bailey)									
Replace Conduit, Controller, Add Ped Poles, etc.		EA	0	\$150,000.00	\$0.00				
Replace Conduit, Controller, Add Ped Poles, etc.		EA	0	\$200,000.00	\$0.00				
Full Rebuild		EA	0	\$250,000.00	\$0.00				
Signal Subtotal						\$0.00			
Bike Lanes									
Install Bike Lanes / Accessories		LS	0	\$50,000.00	\$0.00				
Signal Subtotal						\$0.00			
Construction Subtotal						\$1,895,025.00			
Engineering & Surveying (17.5%)						\$331,600.00			
Construction Contingency (30%)						\$568,500.00			
Total Estimated Project Cost						\$2,795,125.00			
Rank: 6		By: EL		Date: 11/9/22					



Project Number:

C

Project Name:

Location 1



1 Facing North (18th Street):

2 Facing North: East side remove and replace sidewalk.



3 Facing North: West Side remove and replace sidewalk.

4 Facing North: West Side remove and replace sidewalk.

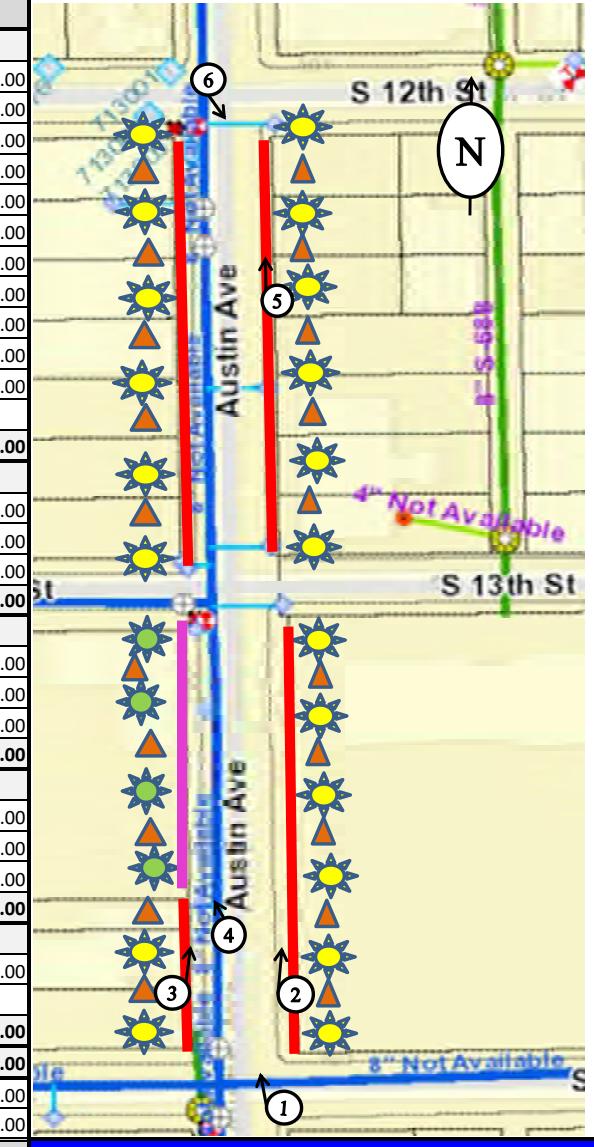


5 Facing North: East Side. No Sidewalk.

6 Facing South (14th Street):

Sidewalk Evaluation Form

Location:	Project Name:								
C-2	Austin Avenue								
Location (Nearest Street Intersection)					Functional Classification				
Begin:	14th Street			Length (FT)	<input checked="" type="checkbox"/> Collector <input type="checkbox"/> Arterial				
End:	12th Street			800	<input type="checkbox"/> Local				
Criteria Evaluation					Comment				
	High	Medium	Low	None					
Safety	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Downtown area				
Project Readiness	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Regional audience of users				
Geographic Equity	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Safety Hazard: Existing sidewalk is in fair to poor condition, improve walking access. Ramps not ADA compliant.				
Connect. & Access.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Comm. Support	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Demand	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Conflicts					Project Description				
System	Location				Proposed sidewalk at identified locations: Sidewalk on east side and west side to be removed and replaced. West side existing sidewalk from The Madison apartment complex property line can remain. Existing curb on both sides in fair to poor condition. Install Trees and Lighting at identified locations. Signals: existing poles to remain. Existing Bike Lane Markings. Water (Long.) on west side of Austin Ave. There are lighting poles on both sides of the street spaced about "150'.				
<input checked="" type="checkbox"/> Water	<input checked="" type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear					
<input type="checkbox"/> Wastewater	<input type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear					
<input type="checkbox"/> Gas	<input type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear					
<input type="checkbox"/> Communications	<input type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear					
<input checked="" type="checkbox"/> Electric	<input checked="" type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear					
<input type="checkbox"/> Irrigation /Other	<input type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear					
Description					Unit	Est. Qty.	Unit Price	Total	
Sidewalk									
Solid Sodding (Section 1.7)		SY	0	\$10.00	\$0.00				
Standard Curb Inlet (Detail SD-2, SD-3, SD-4)		EA	2	\$12,500.00	\$25,000.00				
Residential Drive Approach (Section 5.4, ST-23)		SF	0	\$22.50	\$0.00				
Commercial Drive Approach (Section 5.4, ST-24)		SF	3400	\$27.50	\$93,500.00				
Standard Curb & Gutter Replacement (Detail ST-20)		LF	0	\$75.00	\$0.00				
Prop Sidewalk (Section 5.4, Detail SW-4)		SF	0	\$15.00	\$0.00				
Remov & Replace Sidewalk (Section 5.4, Detail SW-4)		SF	12500	\$25.00	\$312,500.00				
Curb Ramp (Detail SW-7, SW-8)		EA	7	\$2,500.00	\$17,500.00				
Relocate Existing Fire Hydrant		EA	2	\$2,500.00	\$5,000.00				
Traffic Control Plan & Implementation (Detail T-1)		EA	1	\$20,000.00	\$20,000.00				
Mobilization (Section 6.4) Estimated at 8%		LS	1	\$37,900.00	\$37,900.00				
Sidewalk Subtotal		\$511,400.00							
Tree									
Remove Existing Tree		EA	1	\$400.00	\$400.00				
Install Tree		EA	14	\$300.00	\$4,200.00				
Tree Well		EA	14	\$4,000.00	\$56,000.00				
Tree Subtotal		\$60,600.00							
Lighting									
Remove Existing Light		EA	0	\$400.00	\$0.00				
Install Antique Street Light (Detail T-2, T-3, T-4)		EA	14	\$10,000.00	\$140,000.00				
Ug. Elec. Cond.(2-6") & Elec. wiring, connect. To Oncor		LS	2	\$44,000.00	\$88,000.00				
Lighting Subtotal		\$228,000.00							
Signals (James Bailey)									
Replace Conduit, Controller, Add Ped Poles, etc.		EA	0	\$150,000.00	\$0.00				
Replace Conduit, Controller, Add Ped Poles, etc.		EA	0	\$200,000.00	\$0.00				
Full Rebuild		EA	0	\$250,000.00	\$0.00				
Signal Subtotal		\$0.00							
Bike Lanes									
Install Bike Lanes / Accessories		LS	0	\$50,000.00	\$0.00				
Signal Subtotal		\$0.00							
Construction Subtotal		\$800,000.00							
Engineering & Surveying (17.5%)		\$140,000.00							
Construction Contingency (30%)		\$240,000.00							
Total Estimated Project Cost		\$1,180,000.00							
Rank: 6					By: EL	Date: 11/9/22			



Project Number:	Project Name:
C	Location 2



1 Facing North (14th Street):



2 Facing North: East Side remove and replace sidewalk.



10 ft sidewalk

3 Facing North: West Side remove and replace sidewalk.



4 Facing North: West Side. Existing sidewalk to remain.



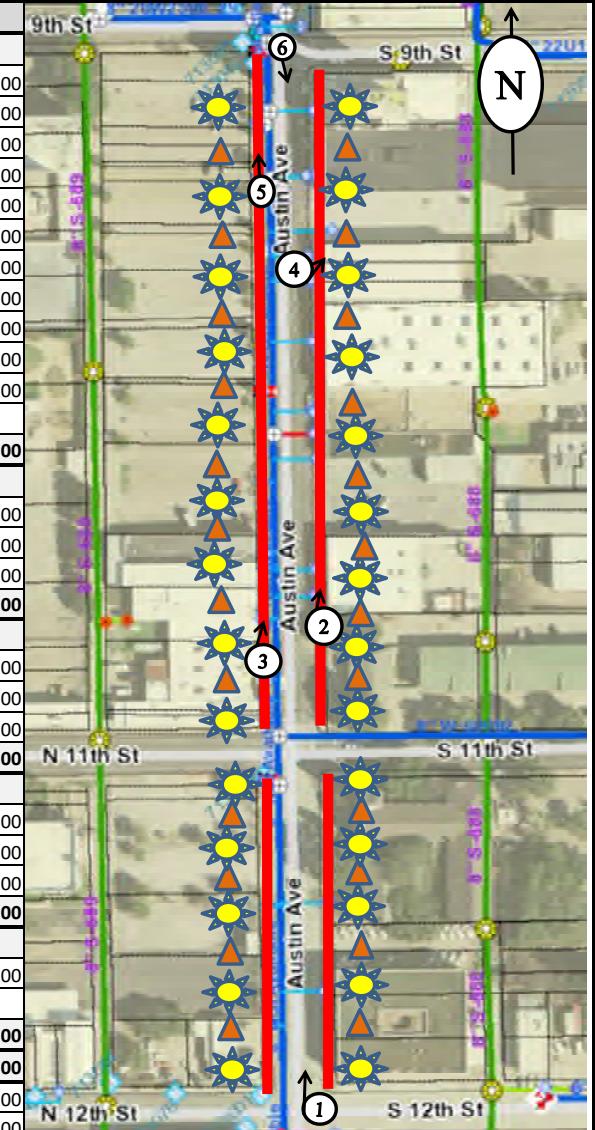
5 Facing North: East Side remove and replace sidewalk.



6 Facing South (12th Street):

Sidewalk Evaluation Form

Location:	Project Name:									
C-3	Austin Avenue									
Location (Nearest Street Intersection)					Functional Classification					
Begin:	12th Street				Length (FT)					
End:	9th Street				1,200					
	Criteria Evaluation				Comment					
	High	Medium	Low	None						
Safety	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Downtown area					
Project Readiness	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Regional audience of users					
Geographic Equity	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Safety Hazard: Existing sidewalk is in fair to poor condition, improve walking access. Ramps not ADA compliant.					
Connect. & Access.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Comm. Support	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Demand	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Conflicts					Project Description					
System	Location				Proposed sidewalk at identified locations: Sidewalk on east side and west side to be removed and replaced. Existing curb on both sides in fair to poor condition. Install Trees and Lighting at identified locations. Signals: existing poles to remain. Existing Bike Lane Markings. Water (Long.) on west side of Austin Ave. There are lighting poles on both sides of the street spaced about ~150'.					
<input checked="" type="checkbox"/> Water	<input checked="" type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear						
<input type="checkbox"/> Wastewater	<input checked="" type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear						
<input type="checkbox"/> Gas	<input checked="" type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear						
<input type="checkbox"/> Communications	<input checked="" type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear						
<input checked="" type="checkbox"/> Electric	<input checked="" type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear						
<input type="checkbox"/> Irrigation /Other	<input type="checkbox"/> Otsd Str (Long)	<input type="checkbox"/> Servcs Confl	<input type="checkbox"/> Crossing	<input type="checkbox"/> NA/To Rear						
Description					Unit	Est. Qty.	Unit Price	Total		
Sidewalk										
Solid Sodding (Section 1.7)		SY	0	\$10.00	\$0.00					
Standard Curb Inlet (Detail SD-2, SD-3, SD-4)		EA	4	\$12,500.00	\$50,000.00					
Residential Drive Approach (Section 5.4, ST-23)		SF	0	\$22.50	\$0.00					
Commercial Drive Approach (Section 5.4, ST-24)		SF	15300	\$27.50	\$420,750.00					
Standard Curb & Gutter Replacement (Detail ST-20)		LF	0	\$75.00	\$0.00					
Prop Sidewalk (Section 5.4, Detail SW-4)		SF	0	\$15.00	\$0.00					
Remov & Replace Sidewalk (Section 5.4, Detail SW-4)		SF	22500	\$25.00	\$562,500.00					
Curb Ramp (Detail SW-7, SW-8)		EA	8	\$2,500.00	\$20,000.00					
Relocate Existing Fire Hydrant		EA	0	\$2,500.00	\$0.00					
Traffic Control Plan & Implementation (Detail T-1)		EA	1	\$20,000.00	\$20,000.00					
Mobilization (Section 6.4) Estimated at 8%		LS	1	\$85,900.00	\$85,900.00					
Sidewalk Subtotal \$1,159,150.00										
Tree										
Remove Existing Tree		EA	1	\$400.00	\$400.00					
Install Tree		EA	24	\$300.00	\$7,200.00					
Tree Well		EA	24	\$4,000.00	\$96,000.00					
Tree Subtotal \$103,600.00										
Lighting										
Remove Existing Light		EA	0	\$400.00	\$0.00					
Install Antique Street Light (Detail T-2, T-3, T-4)		EA	25	\$10,000.00	\$250,000.00					
Ug. Elec. Cond.(2-6") & Elec. wiring, connect. To Oncor		LS	2	\$44,000.00	\$88,000.00					
Lighting Subtotal \$338,000.00										
Signals (James Bailey)										
Replace Conduit, Controller, Add Ped Poles, etc.		EA	0	\$150,000.00	\$0.00					
Replace Conduit, Controller, Add Ped Poles, etc.		EA	0	\$200,000.00	\$0.00					
Full Rebuild		EA	0	\$250,000.00	\$0.00					
Signal Subtotal \$0.00										
Bike Lanes										
Install Bike Lanes / Accessories		LS	0	\$50,000.00	\$0.00					
Signal Subtotal \$0.00										
Construction Subtotal \$1,600,750.00										
Engineering & Surveying (17.5%) \$280,100.00										
Construction Contingency (30%) \$480,200.00										
Total Estimated Project Cost \$2,361,050.00										
Rank: 6						By: EL	Date: 11/9/22			



Project Number:

C

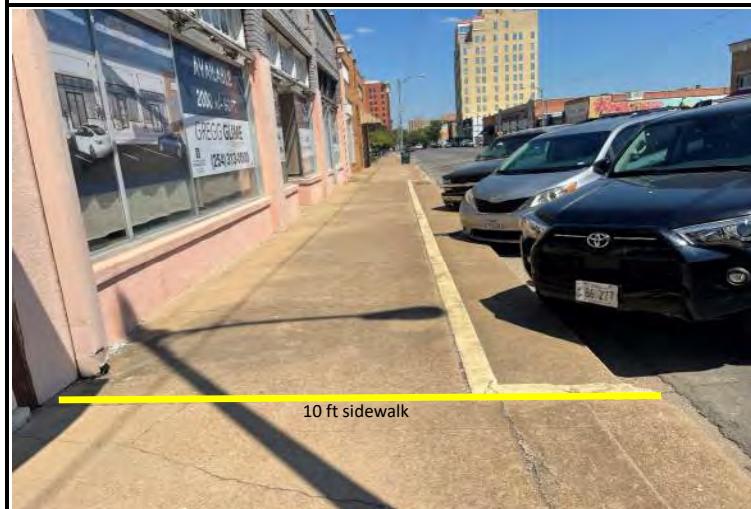
Project Name:

Location 3



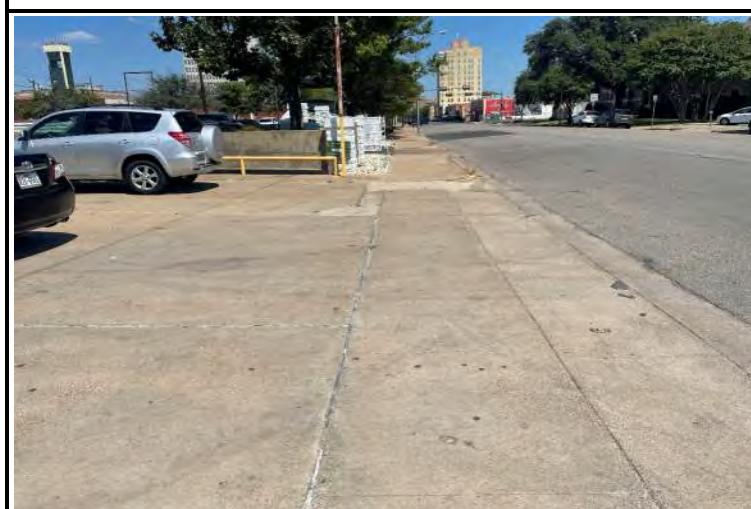
1 Facing North (12th Street):

2 Facing North: East side remove and replace sidewalk.



3 Facing North: West side remove and replace sidewalk.

4 Facing North: East side remove and replace sidewalk.



5 Facing North: West side remove and replace sidewalk.

6 Facing South (9th Street):

APPENDIX B
OBSERVATIONS AND RECOMMENDATIONS

Observation and Recommendation Items

	<i>Location</i>	<i>Limits</i>	<i>Sidewalk / Misc. Description</i>	<i>Trees</i>	<i>Lighting</i>	<i>TA Criteria Evaluation</i>
B	Austin Ave	B-1 9th Street to 6th Street (1100 LF)	Items observed: <ul style="list-style-type: none">○ Remove / Replace +/-25% of sidewalk this segment to remedy trip hazards	<ul style="list-style-type: none">○ West and East Sides: Existing trees are large and will likely continue to create problems with existing sidewalk and curb & gutter. City desires existing trees to remain.	<ul style="list-style-type: none">○ West Side: Assume existing antique lights to remain○ East Side: Assume existing antique lights to remain	<ul style="list-style-type: none">● Demand: High● Safety Hazard: See individual sidewalk evaluation forms
		B-2 6th Street to 3rd Street (1200 LF)	Items observed: <ul style="list-style-type: none">○ Remove / Replace +/-25% of sidewalk this segment to remedy trip hazards	<ul style="list-style-type: none">● No existing trees majority of this segment. Trees / tree wells to be added in areas without existing trees. For segments with existing trees, trees are large and will likely continue to create problems with existing sidewalk and curb & gutter. However, City desires existing trees to remain.	<ul style="list-style-type: none">● West Side: existing antique lights assumed to remain● East Side: existing antique lights assumed to remain	<ul style="list-style-type: none">● Demand: High● Safety Hazard: See individual sidewalk evaluation forms

Observation and Recommendation Items

	Location	Limits	Sidewalk / Misc. Description	Trees	Lighting	TA Criteria Evaluation
C	Austin Ave	C-1 18th Street to 14th Street (1600 LF)	Items observed: <ul style="list-style-type: none"> Diagonal parking may make it difficult to add sidewalk this segment. West Side: McLennan Central Library sidewalk to remain West Side: Library to 14th: Remove and replace existing sidewalk. (BOC to ROW) East Side: 17th St to 14th St: Remove and replace existing sidewalk. (BOC to ROW) West & East Side: Remove and replace existing commercial and residential drive approaches. 	<ul style="list-style-type: none"> West Side: Add trees East Side: Add trees 	<ul style="list-style-type: none"> West Side: Existing lighting poles (not antique style). Add antique lighting. East side: Existing lighting poles (not antique style). Add antique lighting 	<ul style="list-style-type: none"> Safety Hazard: See individual sidewalk evaluation forms Demand: Medium
		C-2 14th Street to 12th Street (800 LF)	Items observed: <ul style="list-style-type: none"> West Side: 14th St to The Madison apartment complex: Remove and replace existing sidewalk. (BOC to ROW) West Side: The Madison to 13th St: The existing sidewalk adjacent to the building to remain. East Side: Remove and replace existing sidewalk. (BOC to ROW) West & East Side: Remove and replace existing commercial and residential drive approaches. 	<ul style="list-style-type: none"> West Side: Add trees East Side: Add Trees 	<ul style="list-style-type: none"> West Side: Existing lighting poles (not antique style). Add antique lighting East side: Existing lighting poles (not antique style). Add antique lighting 	<ul style="list-style-type: none"> Safety Hazard: See individual sidewalk evaluation forms Demand: Medium
		C-3 12th Street to 9th Street (1200 LF)	Items observed: <ul style="list-style-type: none"> West Side: Remove and replace existing sidewalk. (BOC to ROW) East Side: Remove and replace existing sidewalk. (BOC to ROW) West & East Side: Remove and replace existing commercial and residential drive approaches. 	<ul style="list-style-type: none"> West Side: Add trees East Side: Add trees 	<ul style="list-style-type: none"> West Side: Existing lighting poles (not antique style). Add antique lighting. East side: Existing lighting poles (not antique style). Add antique lighting 	<ul style="list-style-type: none"> Safety Hazard: See individual sidewalk evaluation forms Demand: Medium