

Agenda Information

AGENDA CAPTION:

Receive a Staff presentation and hold discussion regarding the 5 year Street Overlay Program, the Sidewalk Repair and Construction Plan and CIP Plan, and provide direction to Staff.

Meeting date: June 18, 2013

Department: Public Services - Tom Taggart (Sabas Avila)

Funds Required: n/a

Account Number:

Funds Available:

Account Name:

CITY COUNCIL GOAL:

Big Picture Infrastructure

BACKGROUND:

The Transportation Division of the Public Service Department and the Planning and Development Services Department will provide a presentation of the the City's Street Overlay Program and the City's sidewalk Maintenance and CIP plan.

ATTACHMENTS:

5 yr street overlay

5 yr sidewalk plan presentation



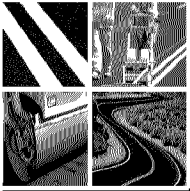
5-Year Street Overlay Program

July 18, 2013

Prepared by
Sabas Avila, P.E., CFM
Public Services Department
Transportation Division



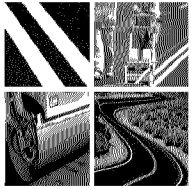
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Street Overlay Program

Why is it important to properly maintain city streets?

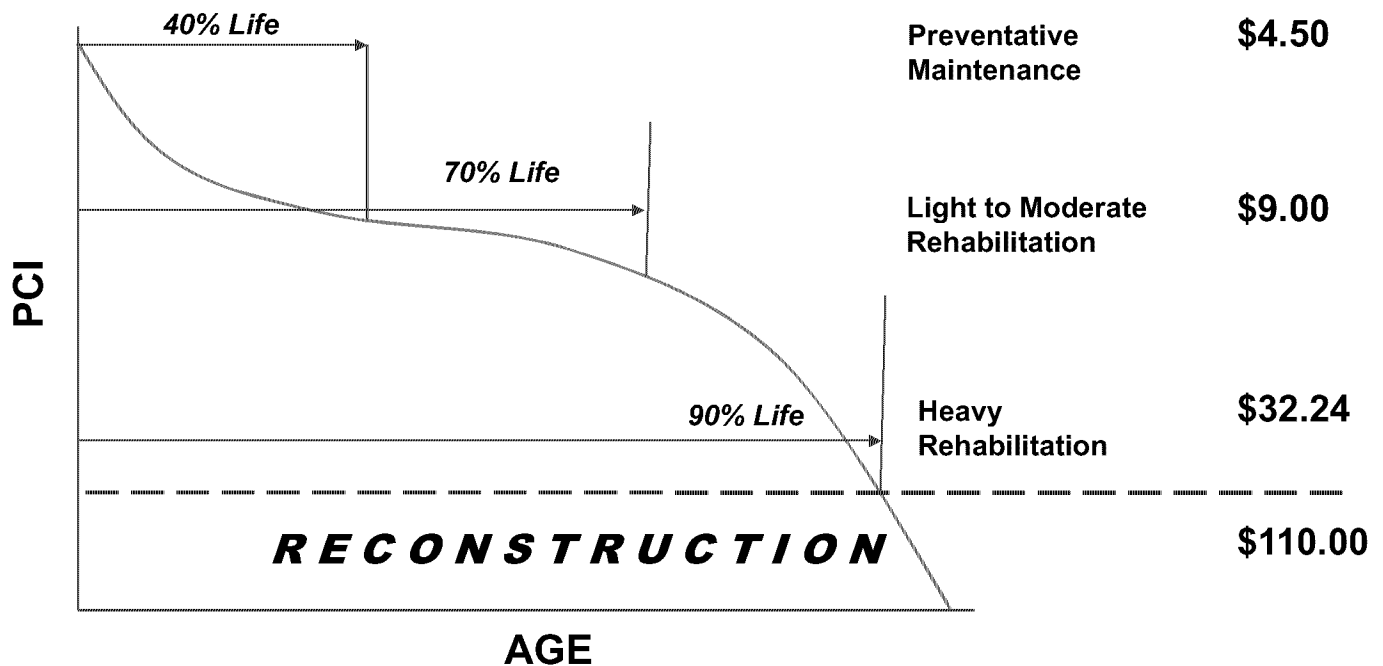
- Address Community Survey results
- Implements Objectives of Comprehensive Master Plan
- Sound Finances
 - Street infrastructure generally represents the single largest investment in most cities (over \$300,000,000 in San Marcos)
 - Primary Economic catalyst
- Safety
- Quality of Life

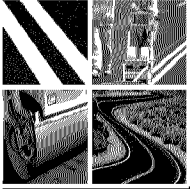


Street Overlay Program

Why Does Proactive Maintenance Make Dollars and Sense?

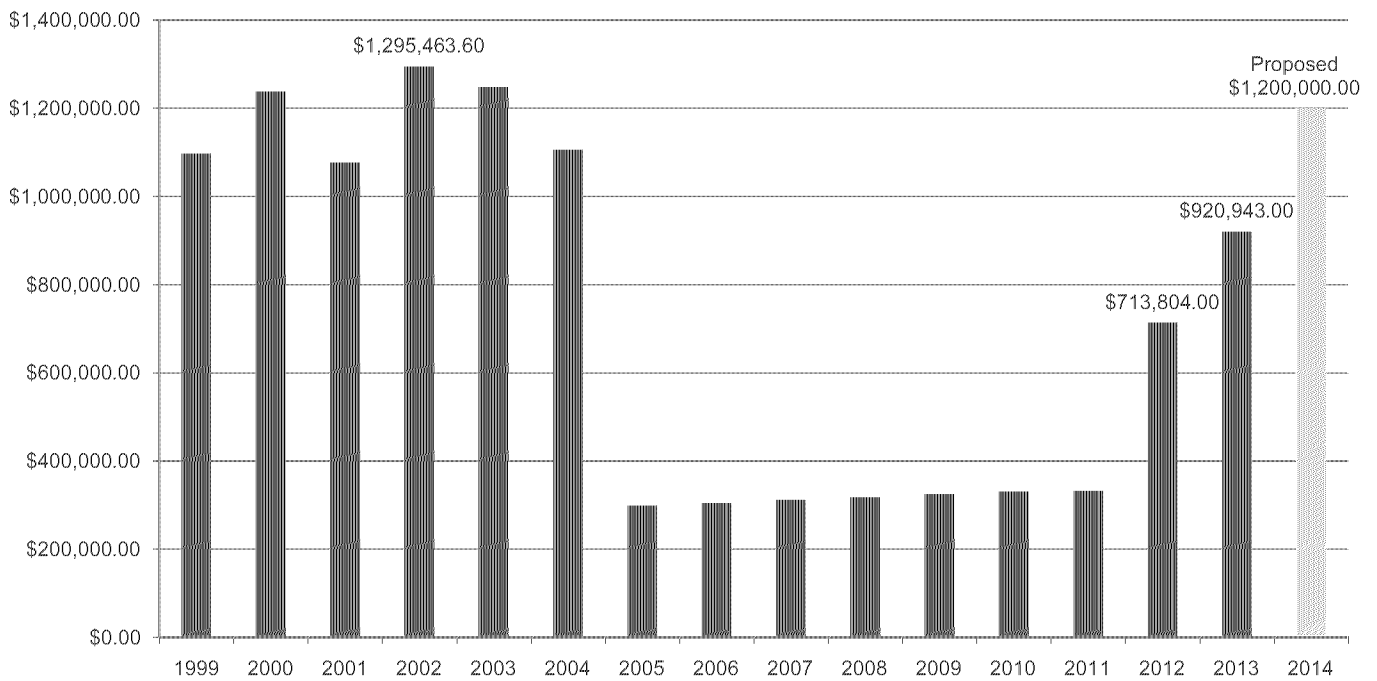
Cost per
Square
Yard

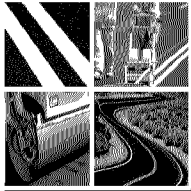




Street Overlay Program

Street Overlay and Minor Reconstruction Program Funding

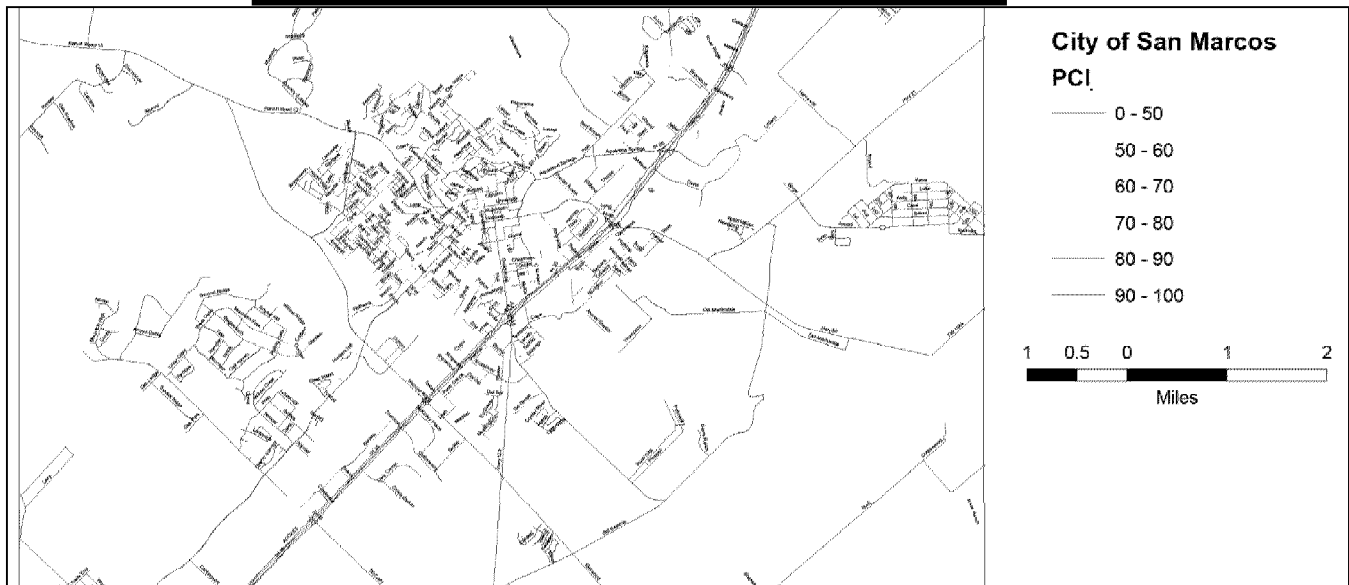




Street Overlay Program

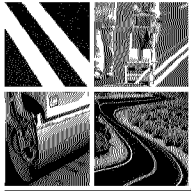
What is the City's Current Pavement Condition?

2011 Pavement Condition Assessment



Average PCI = 77

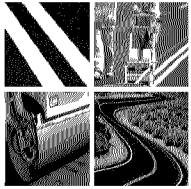
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Street Overlay Program

2013 Street Overlay Program

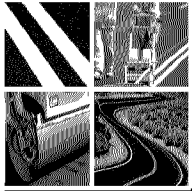
Street Name	From	To	Status
MLK Dr E	S LBJ Dr	Nance St	Complete
Alley (between Edward Gary and LBJ)	San Antonio St	Edward Gary	Complete
S. Edward Gary St	MLK Dr	Hopkins St	Complete
E. San Antonio St	Guadalupe Street	Bend at San Antonio	Complete
Airport Dr	SH 21	Dead End	Complete
Sadler Dr	Cottonwood Pkwy	Wonder World Dr	Complete
Leah Ave	McKinley Place Dr	Wonder World Drive	Complete
Ebony St	SH 123	Patricia Dr	Complete
Magnolia Dr	Lockwood Dr	Parker Dr	Complete
Woodcrest St	Parker Dr	I 35 Frtg	Complete
Candlelight Ln	Broadway St	Dead-end	Complete
Oakdale Dr	Patricia Dr	Broadway St	Complete
Hays St	SH 123	Parker Dr	In-Progress
Parker Dr	Patricia St	Braodway St	In-Progress
Patricia Dr	Patricia Dr	Parker Dr	In-Progress
Lockwood Dr	Oakdale	Broadway St	In-Progress
E. San Antonio St	CM Allen Pkwy	Bend at San Antonio	Pending
N. Bishop St	Craddock Ave	Hopkins St	Pending
Short St	I 35 Frtg	Hopkins St	Pending
Long St	I 35 Frtg	Hopkins St	Pending



Street Overlay Program

2014 Street Overlay Program

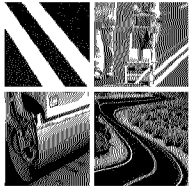
Branch ID	From	To	Neighborhood
Mockingbir (Mockingbird Dr)	DeZavala	Suncrest	Mockingbird Hills
Lacey Ln (Lacey Ln)	Mockingbird Dr	Dead-end	Mockingbird Hills
Cloverleaf (Cloverleaf St)	Mockingbird St	Sunflower St	Mockingbird Hills
Suncrest L (Suncrest Ln)	Mockingbird St	Dead-end	Mockingbird Hills
De Zaval E (De Zavala Dr E)	SH 123	Staples Hwy	Mockingbird Hills
De Zaval W (De Zavala Dr W)	SH 123	Sunflower	
Johns St (Johns St)			Dunbar
Faris St (Faris St)			Dunbar
Wilson St (Wilson St)			Dunbar
Luck St (Luck St)			Dunbar
Shady Ln (Shady Ln)			Dunbar
Valley St (Valley St)			Dunbar
Mitchell S (Mitchell Ave S)	Hopkins St	Gravel St	Dunbar
Nance St (Nance St)			Dunbar
Gravel St (Gravel St)	Dead-end	Jackman	Dunbar
Mead St (Mead St)			Dunbar
Johnson S (Johnson Ave S)			Dunbar
Centre St (Centre St)			Dunbar
Endicott S (Endicott St S)			Dunbar
Herndon St (Herndon St)			Dunbar
Jackman St (Jackman St)			Dunbar
Dailey St (Dailey St)			Dunbar
Riverside (Riverside Dr)	UP Railroad	Hopkins St	
LBJ Dr N (LBJ Dr N)	Craddock Ave	Holland St	Tanglewood
Ed J L Gre (Ed J L Green St)	Sessom Dr	Laurel Ridge	
Comanche S (Comanche St S)	Sessom Dr	Woods St	
Comanche N (Comanche St N)	San Antonio St	MLK Dr	



Street Overlay Program

2015 Street Overlay Program

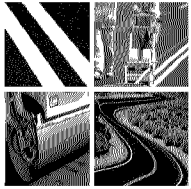
Branch ID	From	To	Neighborhood
Durango St (Durango St)	SH 123	Luciano Flores Dr	Wallace Addition
Juarez St (Juarez St)	Monterrey St	Luciano Flores Dr	Wallace Addition
Luciano Fl (Luciano Flores Blvd)	Cape St	Durango St	Wallace Addition
Laredo St (Laredo St)	SH 123	Luciano Flores Dr	Wallace Addition
Monter St (Monterrey St)	Cape St	Durango St	Wallace Addition
Saltillo S (Saltillo St)	SH 123	Luciano Flores Dr	Wallace Addition
Tampico St (Tampico St)	Sh 123	Luciano Flores Dr	Wallace Addition
Old Bastro (Old Bastrop Hwy)	SH 123	Rattler Rd	
Stagecoach (Stagecoach Trl)	Hunter Rd	Snyder Hill	
Craddock A (Craddock Ave)	Old RR 12	N. LBJ Dr	



Street Overlay Program

2016 Street Overlay Program

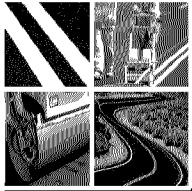
Branch ID	From	To	Neighborhood
Love St (Love St)	S LBJ Dr	Mckie St	East Guadalupe
Encino St (Encino St)	Mckie St	McGehee St	East Guadalupe
Grove St E (Grove St E)	S. LBJ Dr	CM Allen Pkwy	East Guadalupe
Mariposa S (Mariposa St)	Mckie St	CM Allen Pkwy	East Guadalupe
Lee St (Lee St)	S LBJ Dr	CM Allen Pkwy	East Guadalupe
McGehee St (McGehee St)	Ceatham St	Mariposa St	East Guadalupe
Mckie St (Mckie St)	Ceatham St	I-35 Frtg	East Guadalupe
Robbie Ln (Robbie Ln)	Thorpe Ln	Stadium	Springtown
Springtown (Springtown Way)	Thorpe Ln	I-35 Frtg	Springtown
Jackson Ln (Jackson Ln)	Thorpe Ln	I-35 Frtg	Springtown
Hernandez (Hernandez Way)	Carlson Cir	Dead-end	River Ridge Business Park
Carlson Ci (Carlson Cir)	River Ridge Pkwy	I-35 Frtg	River Ridge Business Park
Market Blv (Market Blvd)	I-35 Frtg	River Ridge Pkwy	River Ridge Business Park
River Ridg (River Ridge Pkwy)	I-35 Frtg	Carlson Cir	River Ridge Business Park
Mill St (Mill St)	Uhland Rd	new Mill St pavement	Mill Street
Clara St (Clara St)	Barbara St	Sturgeon St	Blanco Gardens
Barbara Dr (Barbara Dr)	River Rd	Bugg Ln	Blanco Gardens
Conway Dr (Conway Dr)	River Rd	Bugg Ln	Blanco Gardens
Sturgeon D (Sturgeon Dr)	River Rd	Bugg Ln	Blanco Gardens



Street Overlay Program

2017 Street Overlay Program

Branch ID	From	To	Neighborhood
Sherbarb S (Sherbarb St)	I 35 Frtg	Barbara Dr	Blanco Gardens
Mary St (Mary St)	Barbara Dr	Sturgeon Dr	Blanco Gardens
Rebecca St (Rebecca St)	I 35 Frtg	Linda Ln	Blanco Gardens
Linda Ln (Linda Ln)	Bugg Ln	River Rd	Blanco Gardens
Wendell St (Wendell St)	Barbara Dr	Conway St	Blanco Gardens
Bliss Ln (Bliss Ln)	Barbara Dr	Sturgeon Dr	Blanco Gardens
Kone St (Kone St)	I 35 Frtg	Linda Ln	Blanco Gardens
LBJ Dr S (LBJ Dr S)	I 35 Frtg	Grove St	
San Antonio St	Bishop St	Guadaule St	
Cheatham S (Cheatham St)	Guadalupe St	CM Allen Pkwy	
River Rd (River Rd)	SH 80	Back of Wal-Mart	



Street Overlay Program

Incorporating Complete Streets Initiative with Street Overlays

Making streets more efficient and accessible to all users



MLK Drive

- Bike Lanes
- Turn Lanes
- Crosswalks



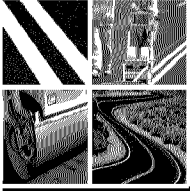
Thorpe Lane

- Sharrow Lanes
- Turn Lanes
- Crosswalks
- Sidewalks



River Road

- Bike Lanes
- Turn Lanes
- Crosswalks



Street Overlay Program

QUESTIONS?

5 Year Sidewalk Funding Program

**OPTIONS FOR NEW SIDEWALKS, GAPS AND
REPAIRS**



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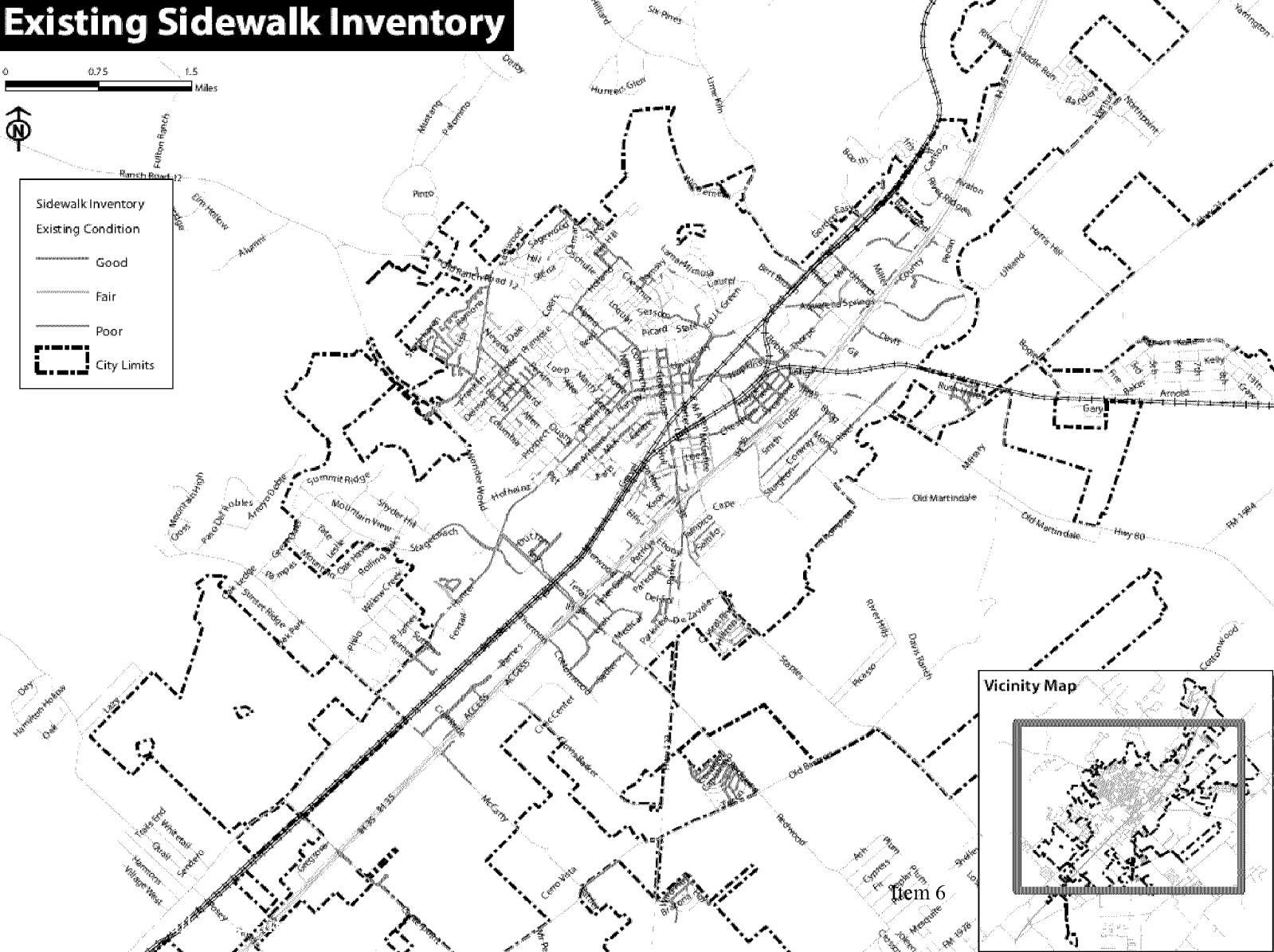
Purposes of Analysis

- **Existing sidewalks**
 - Highest priority for maintenance?
 - Highest priority gaps to fill?
- **New sidewalks**
 - Where are they most needed?
- **How much will it cost to provide these sidewalks?**
 - Options for improving walkability based on various funding amounts
 - 5-year period

Process Outline

- Map existing inventory
 - Good, fair, poor, or missing
- Determine total need
 - Where are sidewalks most critical?
 - Buffers around key locations
- Categorize as repair, gap, or new
- Determine total cost
- Show funding options for improving walkability

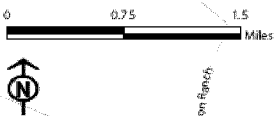
Existing Sidewalk Inventory



Where are sidewalks most critical?

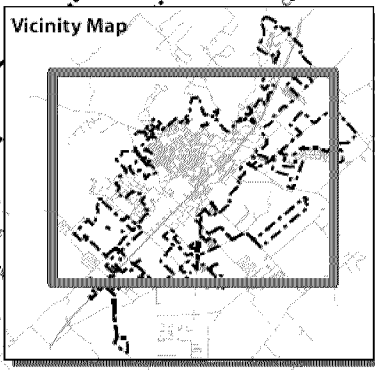
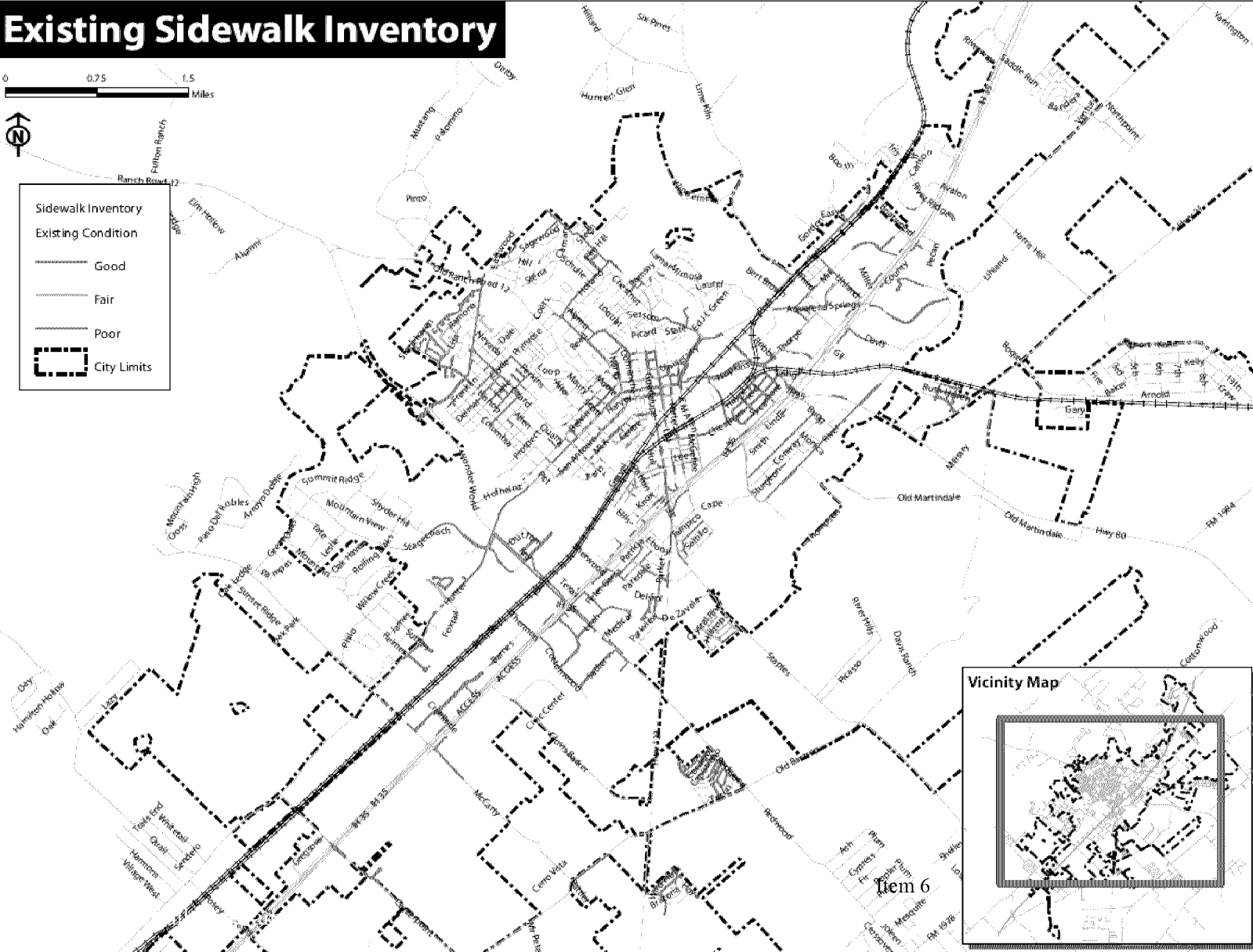
- **Criteria (1/4 mile radius)**
 - **Schools**
 - **Texas State University**
 - **City Facilities**
 - **Parks**
 - **Neighborhood Commercial Zoning**
 - **Smart Code Zoning**
 - **State Assisted Low Income Housing**
 - **Transit Stops**
 - **Other Pedestrian Generators (Grocery Stores and Pharmacies)**
- **Connectivity**

Existing Sidewalk Inventory



Sidewalk Inventory
Existing Condition

- Good (solid line)
- Fair (dashed line)
- Poor (dotted line)
- City Limits (dashed outline)

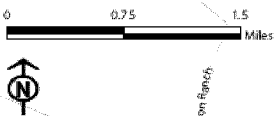


Maintenance and Gap



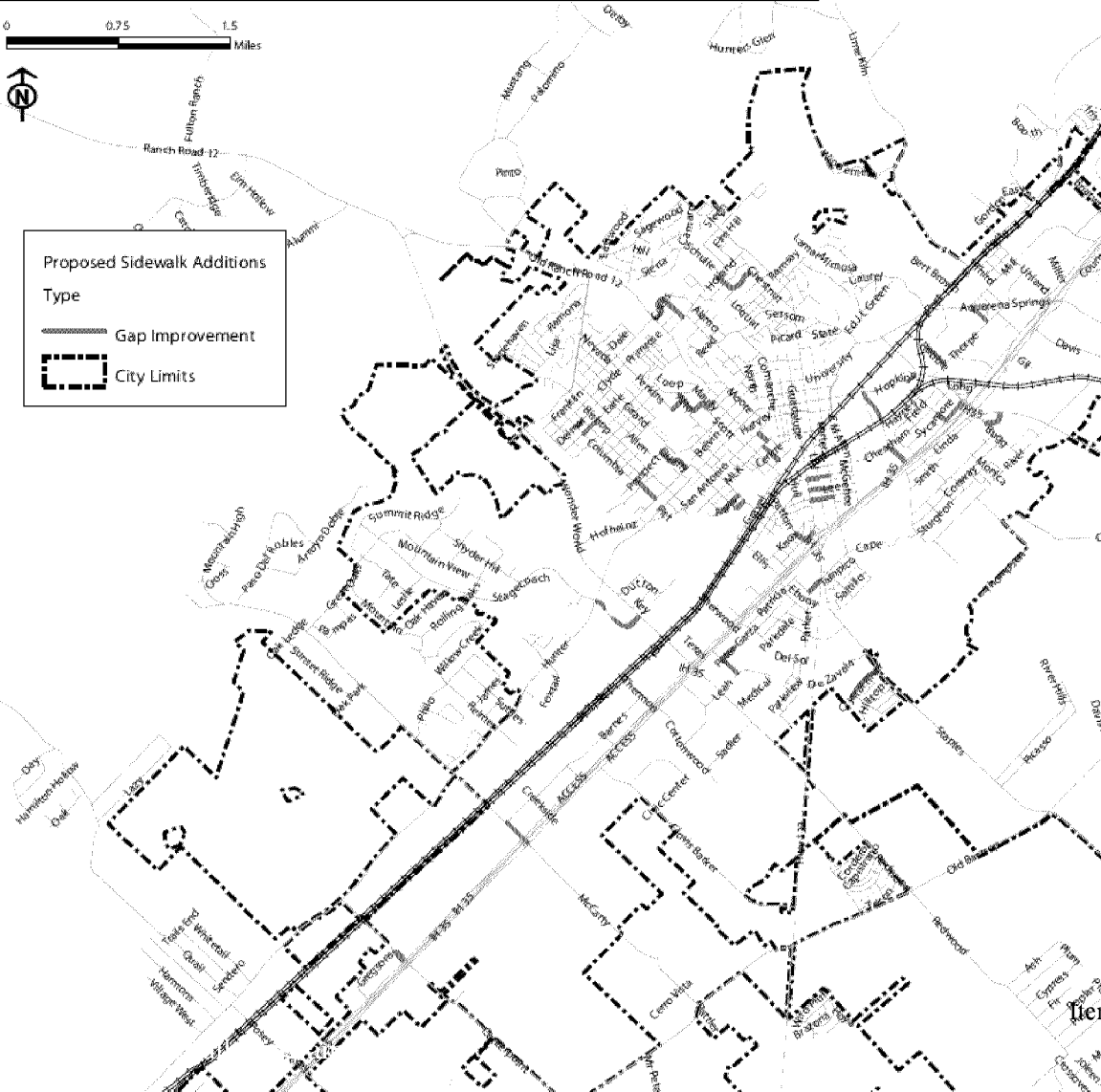
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Proposed Gap Improvement Sections



Proposed Sidewalk Additions
Type

- Gap Improvement
- City Limits

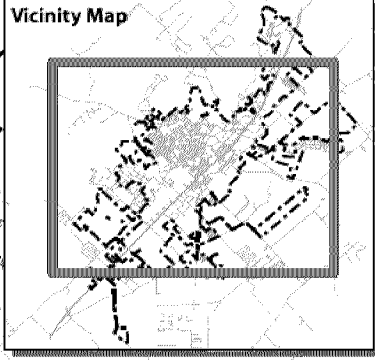


Top 10:

- Nance Street
- Faris Street
- Dailey Street
- Riverside Dr
- Charles Austin/City Hall
- Herndon
- Patton
- IH-35 and Invasion
- Love Street

Construction Cost:

- \$370,876



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Estimated Cost of Repairs and Gaps (Public Services Projects)



- \$6 per square foot + 20% contingency.
- Allocation - 35% to repairs and 65% to gaps.
- Gaps :
 - 3 blocks or less
 - Do not require ROW acquisition
 - Single contractor
 - Do not require engineering

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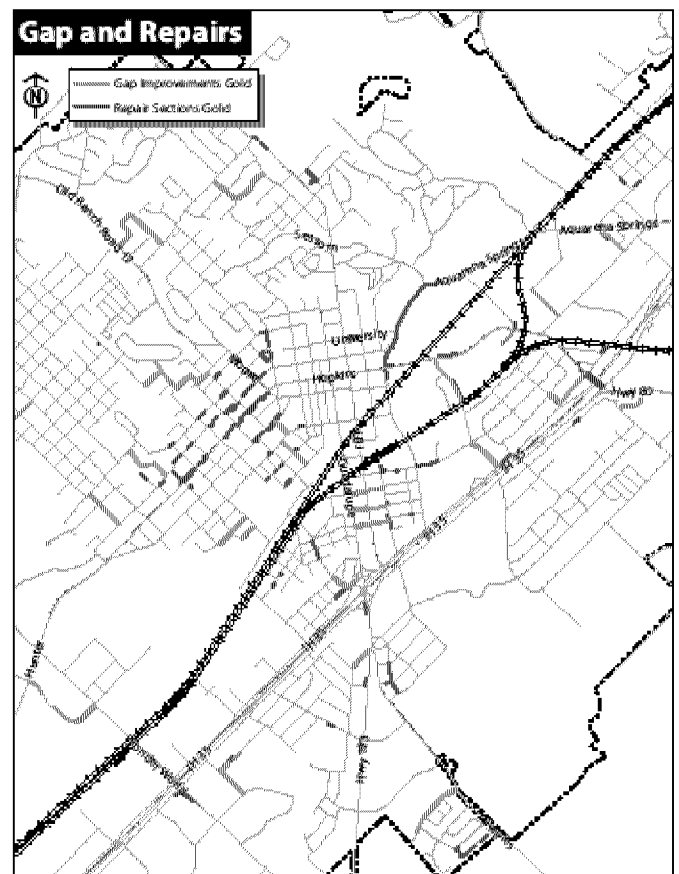
Repair and Gap Option 1 Gold Soles

- \$1,050,000 in repair over 5 years

Priority	% of Cost
High	100%
Medium	100%
Low	100%

- \$1,950,000 in gaps over 5 years

Priority	% of Cost
High	100%
Medium	100%
Low	100%



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Repair and Gap Option 2 Silver Laces

- \$700,000 in repair over 5 years

Priority	% of Cost
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High (9-7) 100%

Medium (6-7) 100%

Low (3-1) 84%

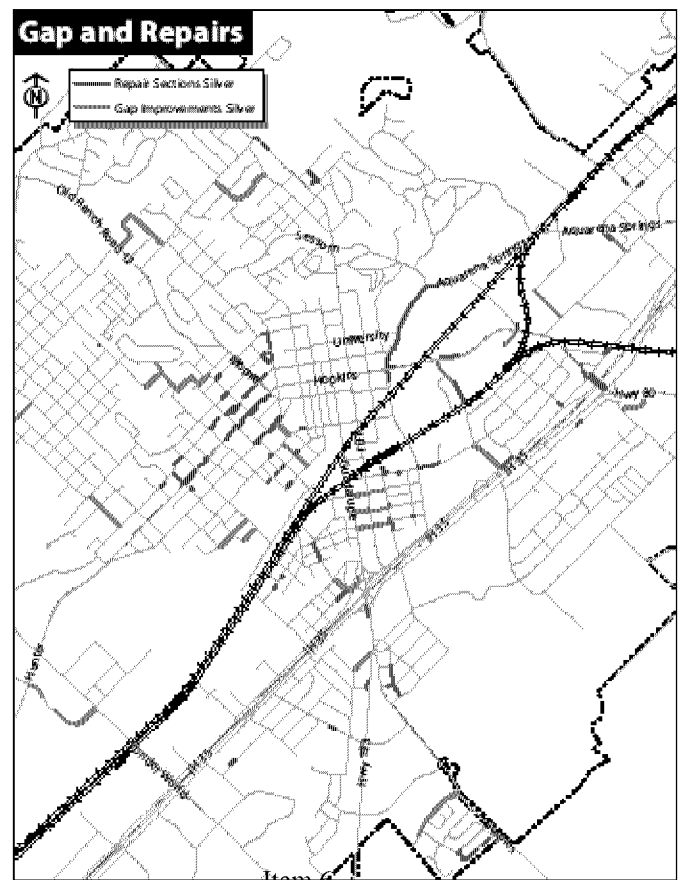
- \$1,300,000 in gaps over 5 years

Priority	% of Cost
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High (9-7) 100%

Medium (6-7) 100%

Low (3-1) 75%



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Repair and Gap Option 3 Bronze Heel

- \$350,000 in repair over 5 years

Priority	% of Cost
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High (9-7)	100%
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Medium (6-7)	49%
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Low (3-1)	0%
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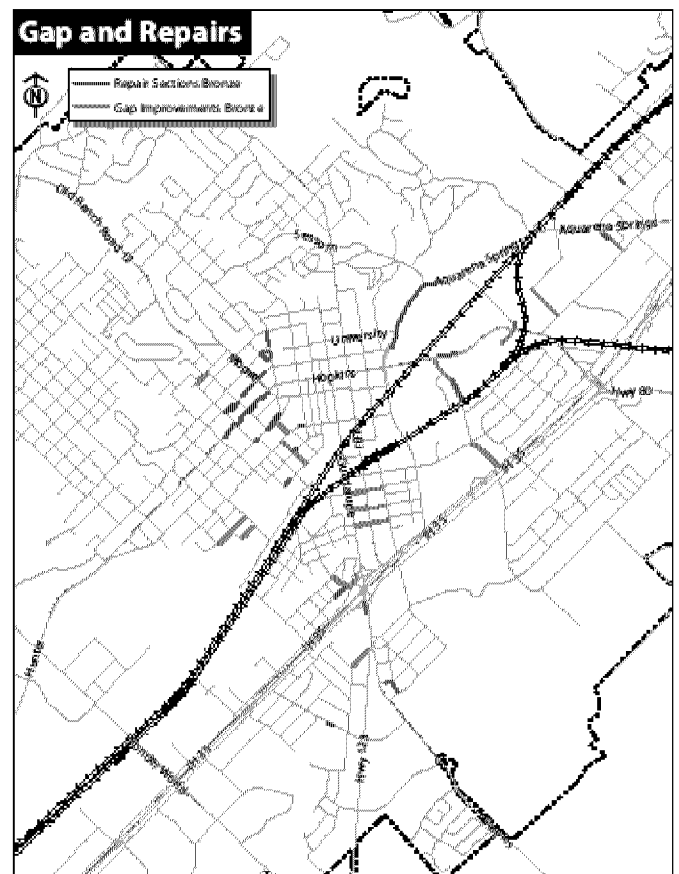
- \$650,000 in gaps over 5 years

Priority	% of Cost
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High (9-7)	100%
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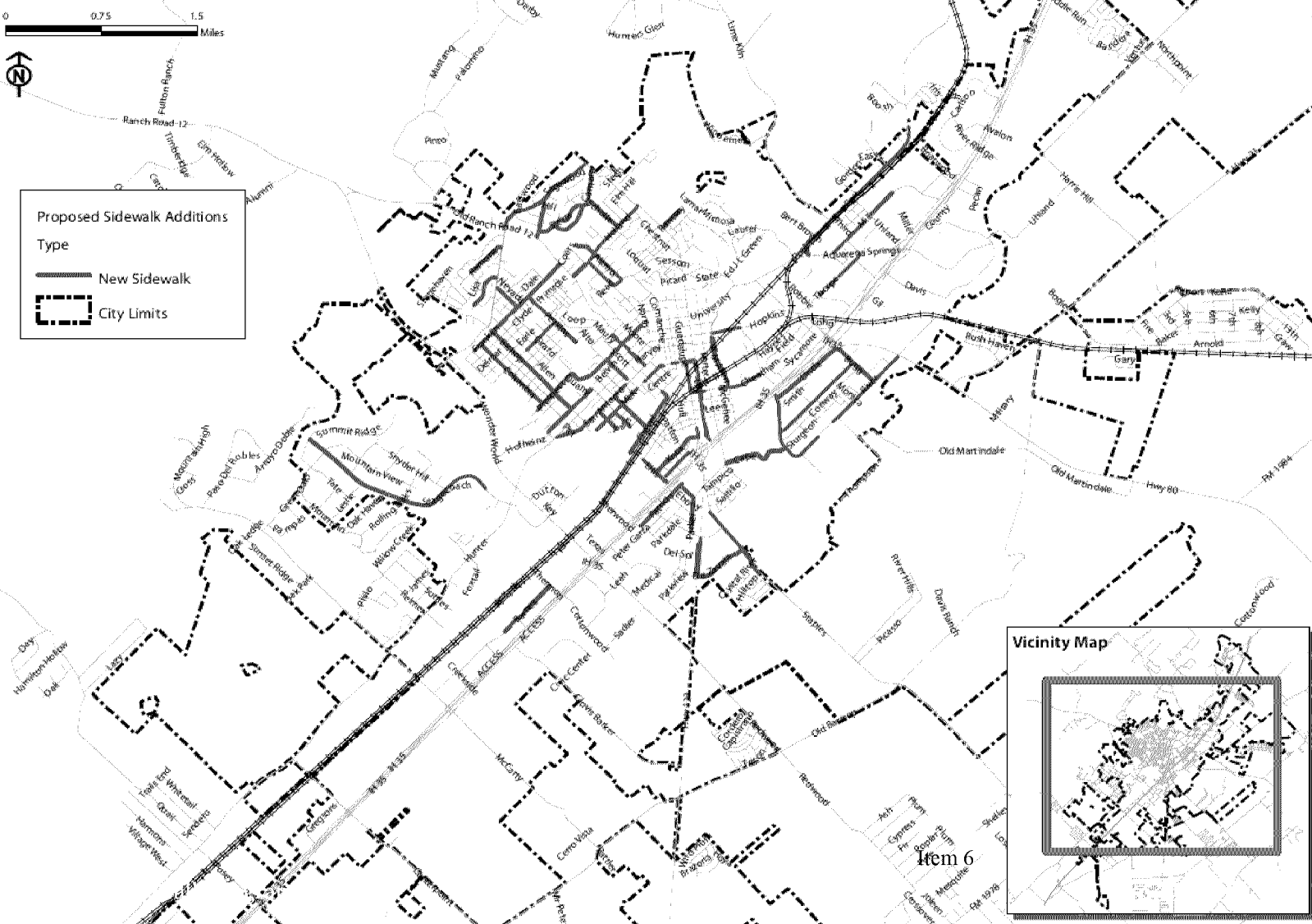
Medium (6-7)	33%
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Low (3-1)	0%
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Proposed New Sidewalk Sections



New



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5-Year Sidewalk Program

June 18, 2013

Approximate Cost of New Sidewalks

- \$8 a square foot, with a 20% contingency
 - Current Fee in Lieu - \$5 a square foot
- 350 foot long average construction cost:
 - \$16,800 at 5 feet wide
 - \$20,160 at 6 feet wide
 - \$33,600 at 10 feet wide



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Approximate Cost of New Sidewalks

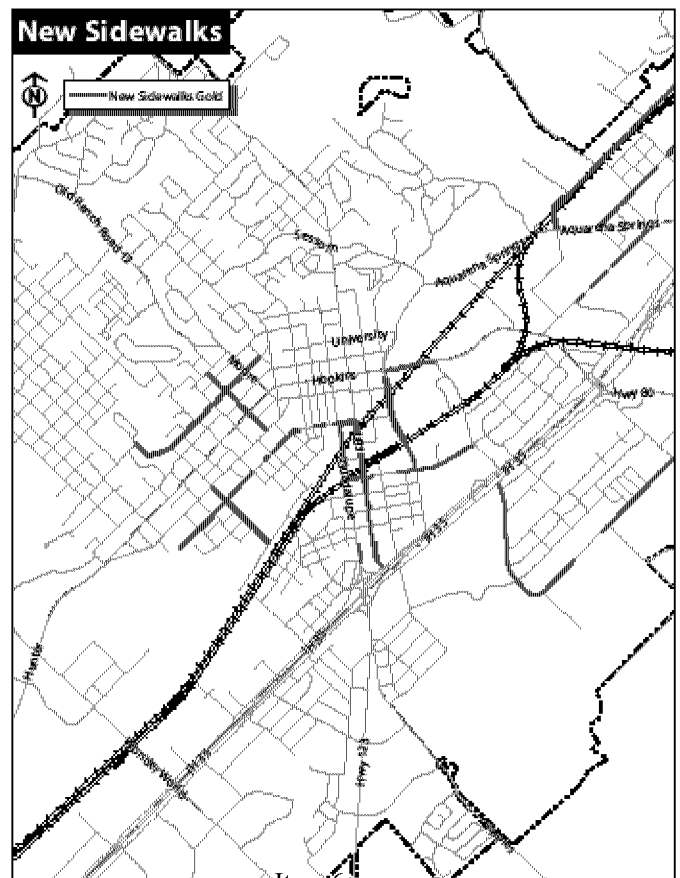


- Other potential costs
 - Utility Relocation
 - ✦ Example: Power Pole
 - ROW Acquisition
 - Drainage
 - Engineering Design
 - ✦ Example: Bar Ditches, Slopes, Etc.
 - None included in this analysis

New Sidewalks Option 1 Gold Soles

- \$3,000,000 over 5 years

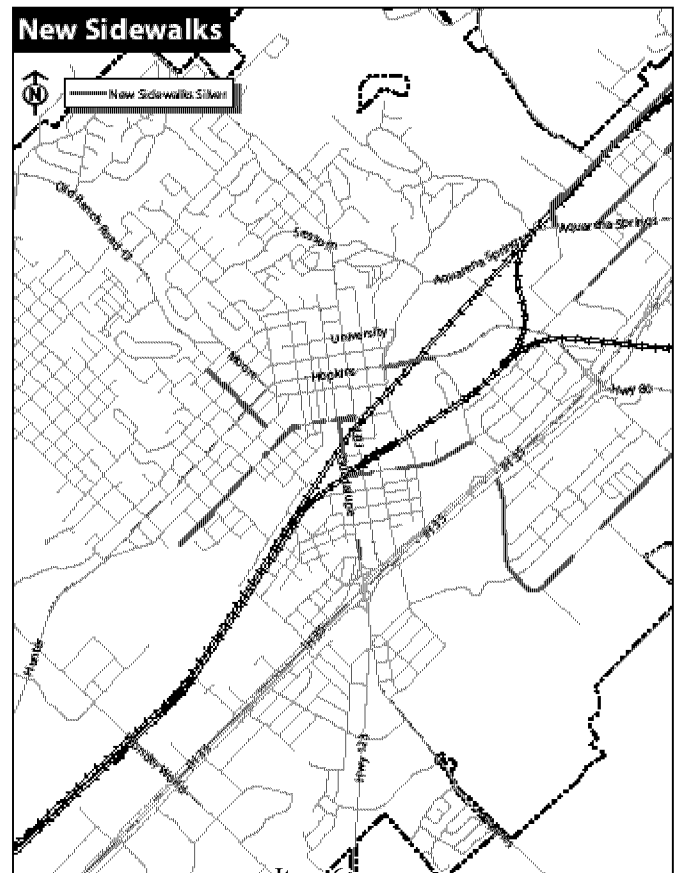
Priority	% of Cost
High (9-7)	100%
Medium (6-7)	36%
Low (3-1)	0%



New Sidewalks Option 2 Silver Laces

- \$2,000,000 over 5 years

Priority	% of Cost
High (9-7)	100%
Medium (6-7)	28%
Low (3-1)	0%

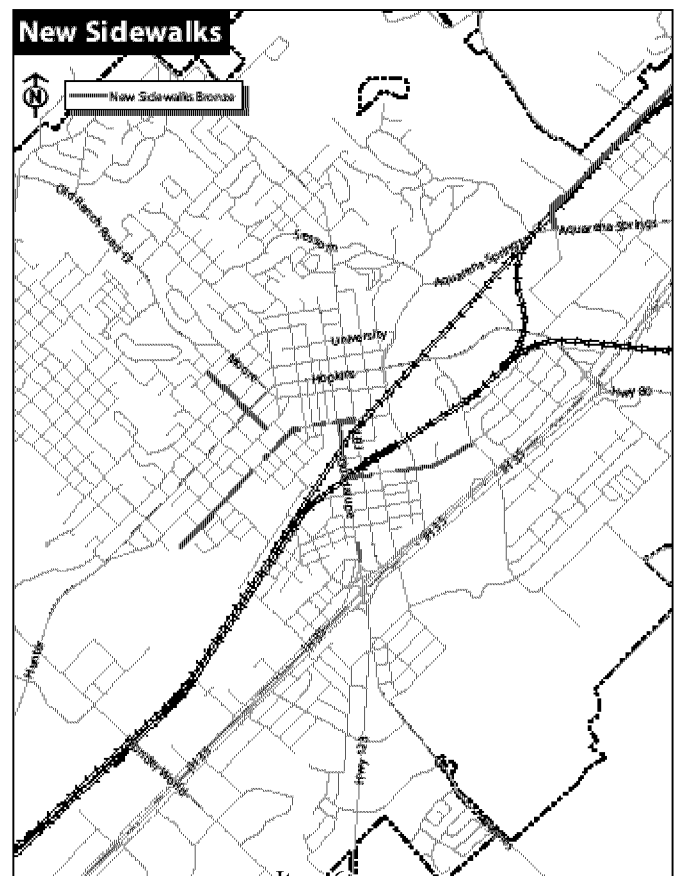


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New Sidewalks Option 3 Bronze Heels

- \$1,000,000 over 5 years

Priority	% built
High (9-7)	100%
Medium (6-7)	7%
Low (3-1)	0%



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Summary

Repairs and Gaps

- Funding need - \$2,801,740

Priority	5-year funding	% built in 5 years	Years to complete need
Gold Soles	\$3 million	107%	5
Silver Laces	\$2 million	71%	7
Bronze Heels	\$1 million	36%	14

New

- Funding Need - \$11,380,760

Priority	5-year funding	% built in 5 years	Years to complete need
Gold Soles	\$3 million	26%*	19
Silver Laces	\$2 million	18%	28
Bronze Heels	\$1 million	9%	57

*Would fund top 10
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Value of Walkability

- Office and retail - Walkscore of 80 worth between 29% and 40% more than properties with a Walkscore of 20.
- Source: “The Walkability Premium In Commercial Real Estate, Gary Pivo and Jeffrey D. Fisher (2010).
- Single-family - 1 point increase in Walkscore, increase in values from \$700 to \$3000.
- Source: “Walking the Walk,” Joe Cortright, CEOs for Cities (2009).

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Summary

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