



Project Corridor

- UPPER BROADWAY
 - Brackenridge Park/
 Cultural Corridor
 (Josephine to
 Hildebrand)

- LOWER BROADWAY
 - Downtown Urban Core (Houston to I-35)
 - -Pearl (I-35 to Josephine)



Stakeholder / Community Leaders Feedback



Cultural Institutions

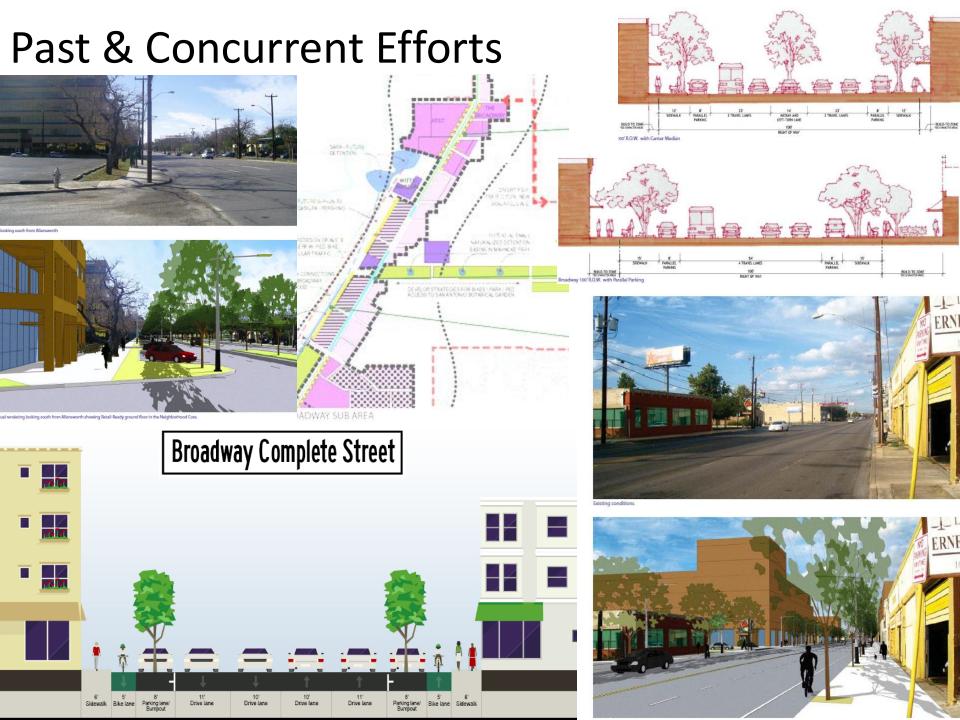
Witte, DoSeum, McNay,
 Brackenridge Park Conservancy,
 Botanical Gardens, San Antonio
 Zoo, etc

Public Agencies

Transportation & Capital
 Improvements (TCI), San Antonio
 River Authority (SARA), VIA
 Transit, TxDOT, Bexar County,
 MidTown TIRZ

Private Sector

Centro San Antonio, Hixon,
 Graystreet Partners, Silver
 Ventures, San Antonio
 Commercial Advisers, Area Real
 Estate



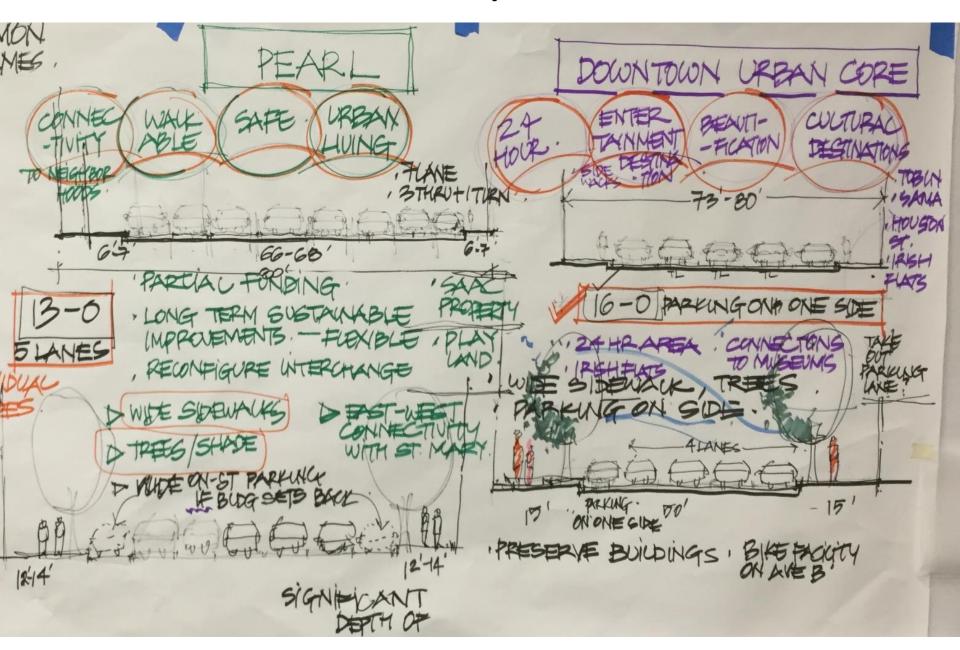








Stakeholder / Community Leaders Feedback



- Create Tree-lined Corridor
- Ensure Comfortable Sidewalks
- Provide Viable Bicycle Connectivity
- Balance Needs of Destination & Through Traffic
- Provide Parking in Constrained Segments
- Celebrate Distinctive Segments
- Unify Corridor with Wayfinding and Signage
- Create Places for People
- Create Sustainable Places



• Create Tree-lined Corridor

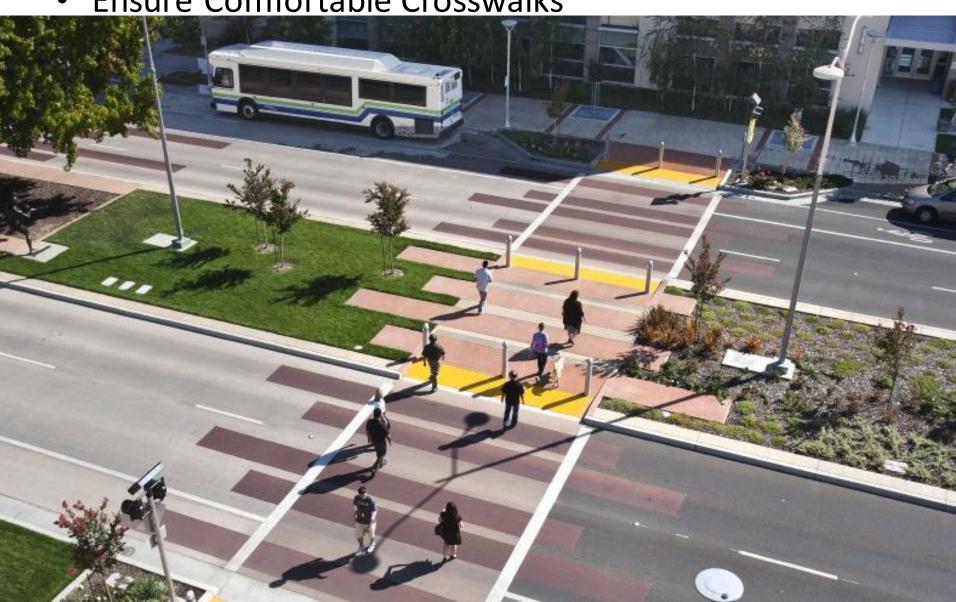


Ensure Comfortable Sidewalks

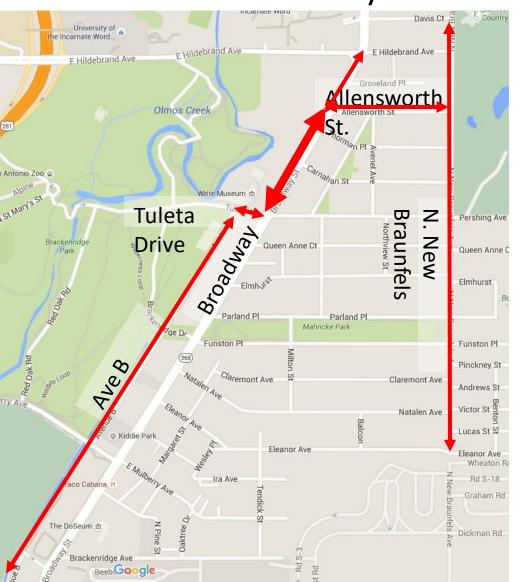




Ensure Comfortable Crosswalks



Provide Viable Bicycle Connectivity





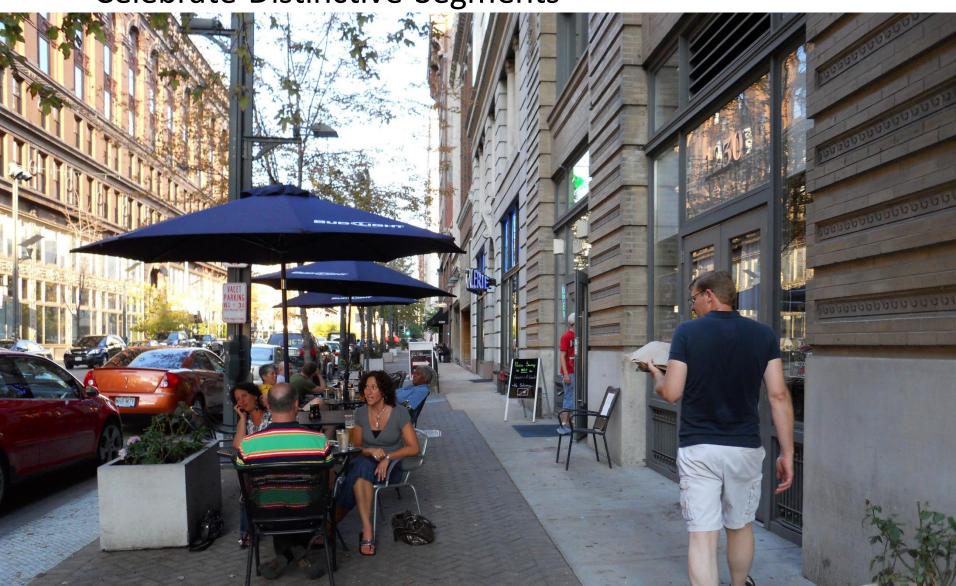
Balance Needs of Destination and Through Traffic



Provide Parking in Constrained Segments



Celebrate Distinctive Segments



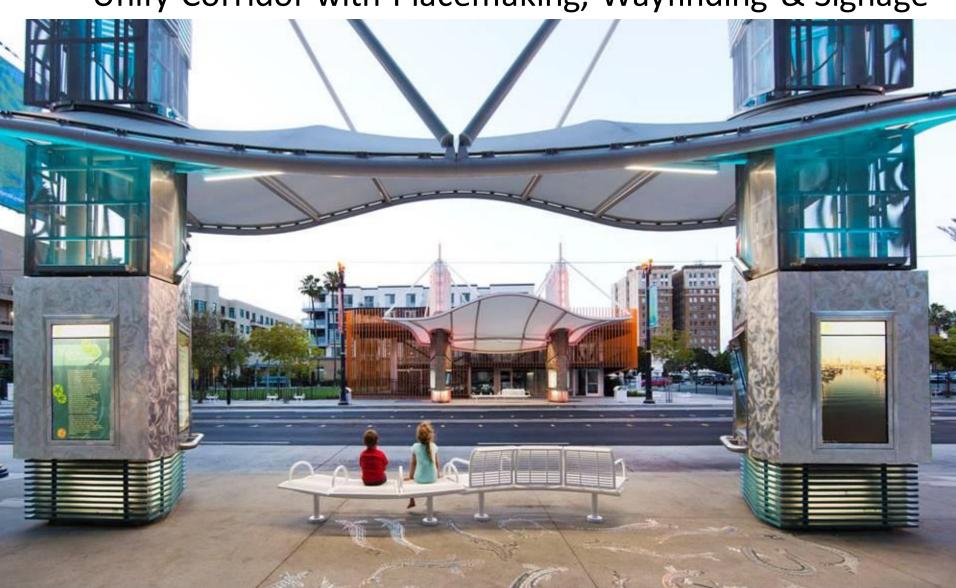
Celebrate Distinctive Segments



Unify Corridor with Placemaking, Wayfinding & Signage



Unify Corridor with Placemaking, Wayfinding & Signage

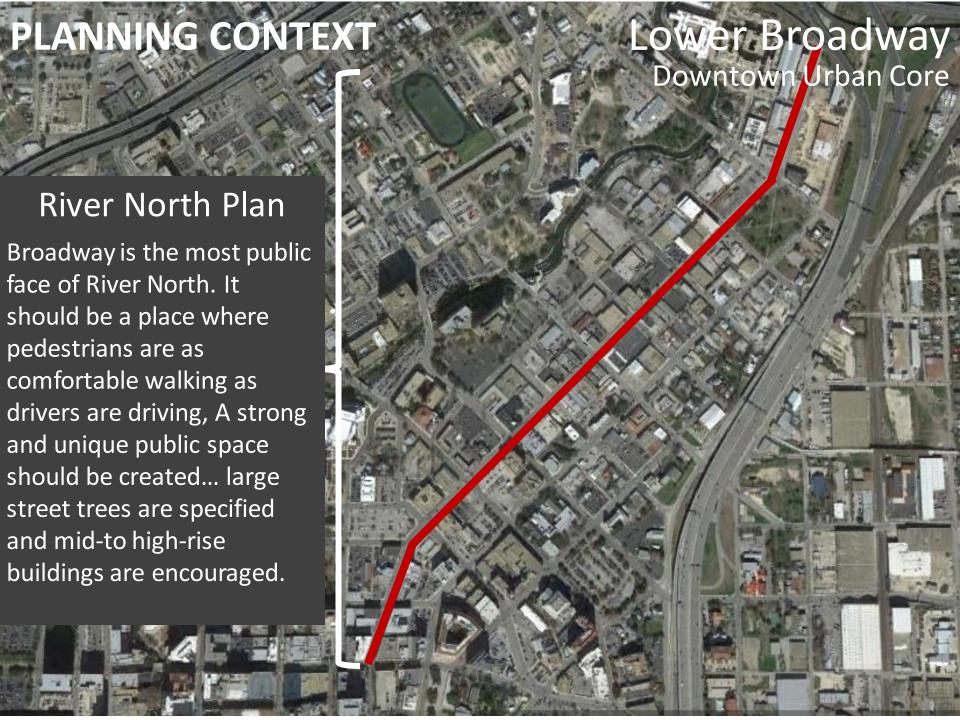


Create Places for People





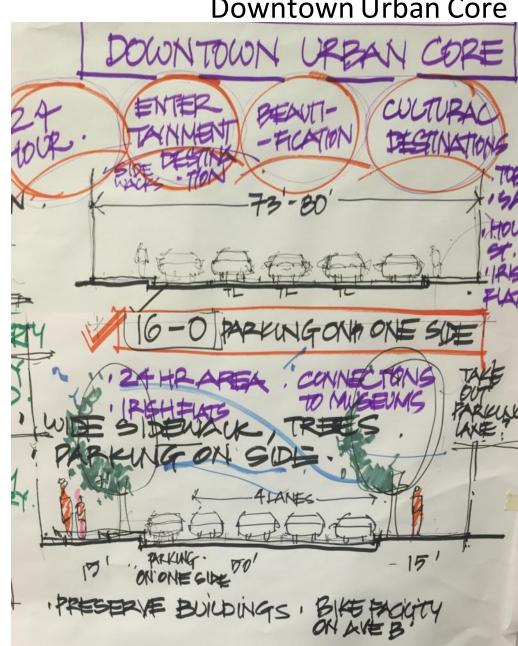


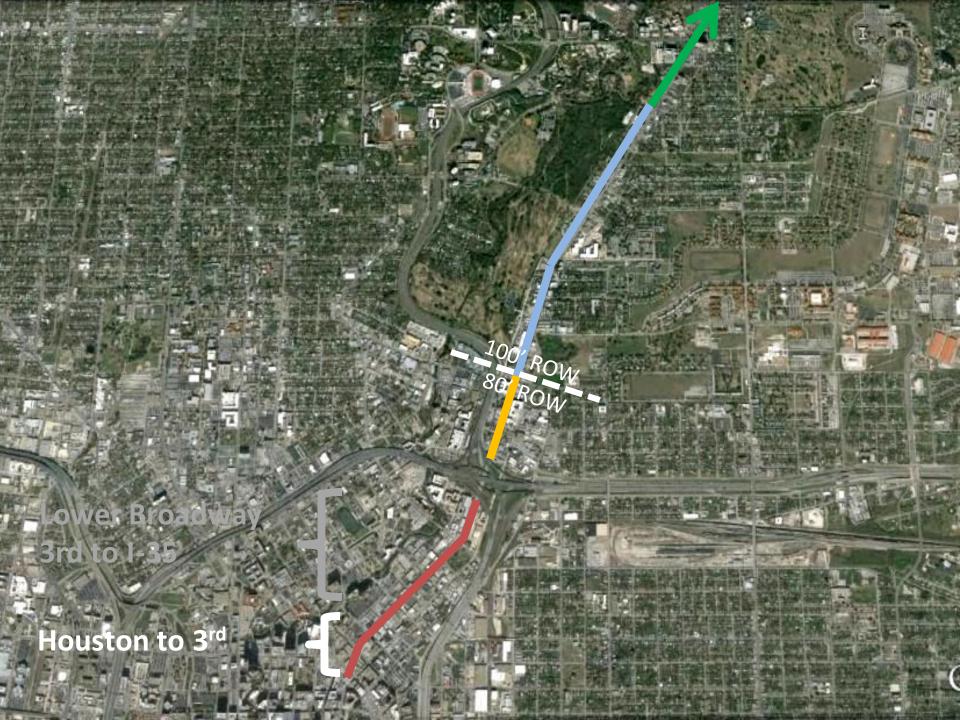


Lower Broadway

Downtown Urban Core

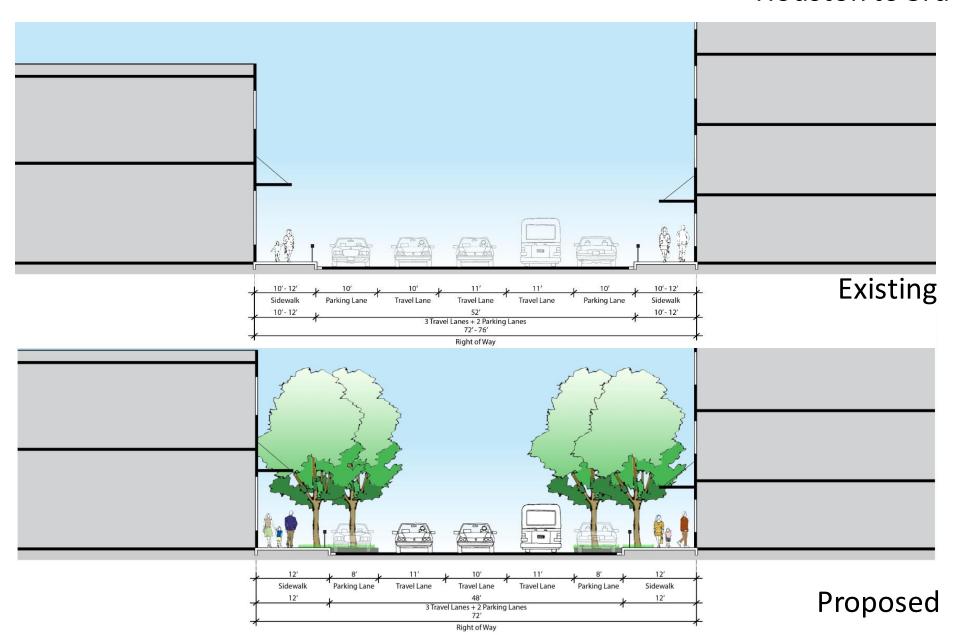
- Houston to I-35
- ROW: 73' to 80'
- Overarching
 - Create a 24 Hour **Entertainment District**
 - Enhance Connections to Diverse Cultural and Entertainment **Destinations**
 - Beautify
- Design Interventions
 - Maintain Through Lanes & Parking On One Side
 - Remove Left Turn Lanes





Lower Broadway

Houston to 3rd





Lower Broadway At 3rd St looking south - Existing



Lower Broadway At 3rd St looking south - Proposed



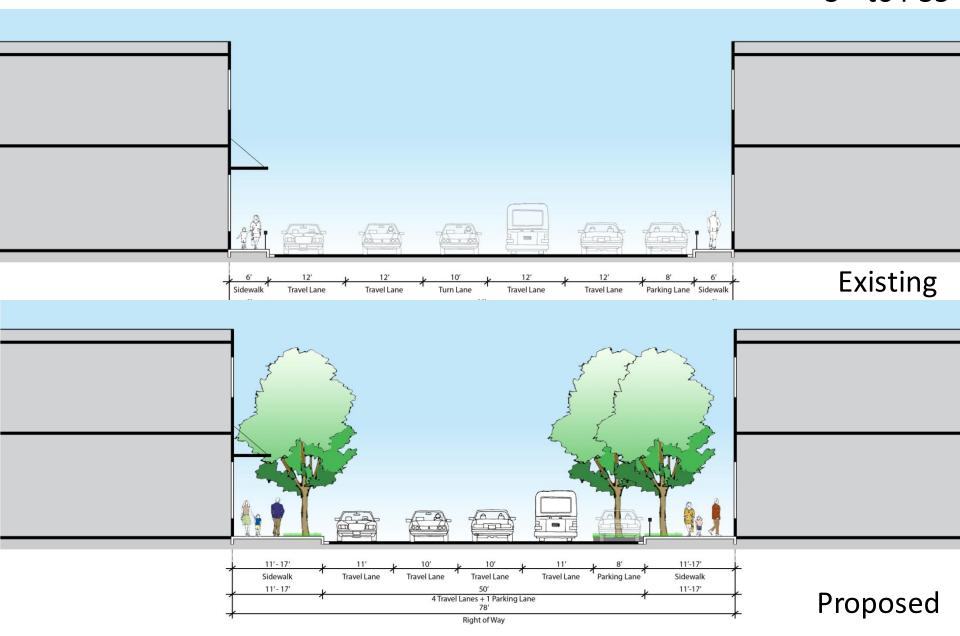




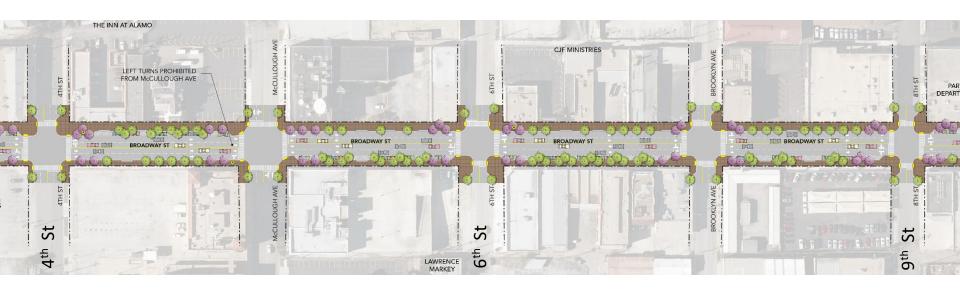
Lower Broadway 3rd St to I-35 - Existing

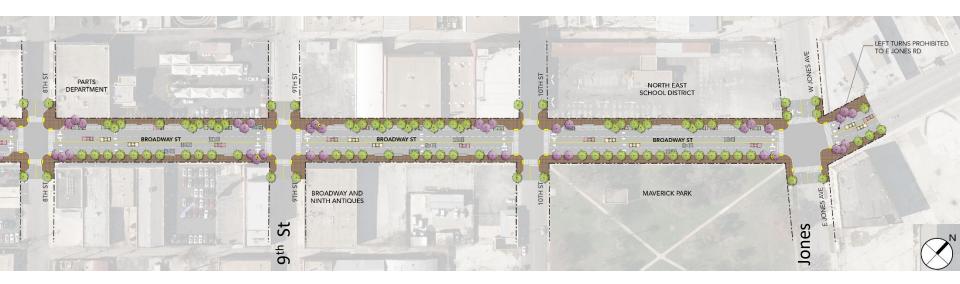


Lower Broadway 3rd to I-35



Lower Broadway 3rd to I-35 - Proposed





Lower Broadway

Houston St to I-35 - Proposed



Lower Broadway At 6th Street, looking north - Existing



Lower Broadway At 6th Street, looking north - Proposed



Lower Broadway

Broadway at Jones, looking south - Existing

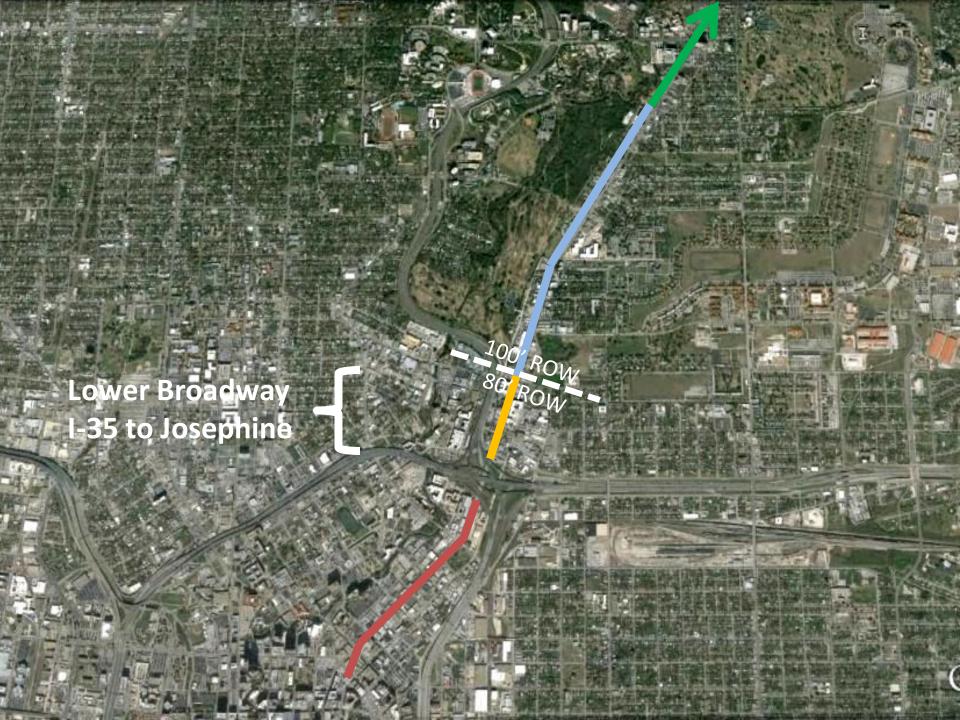


Lower Broadway
Broadway at Jones, looking south - Proposed



Lower Broadway
Broadway at Jones, looking south - Proposed

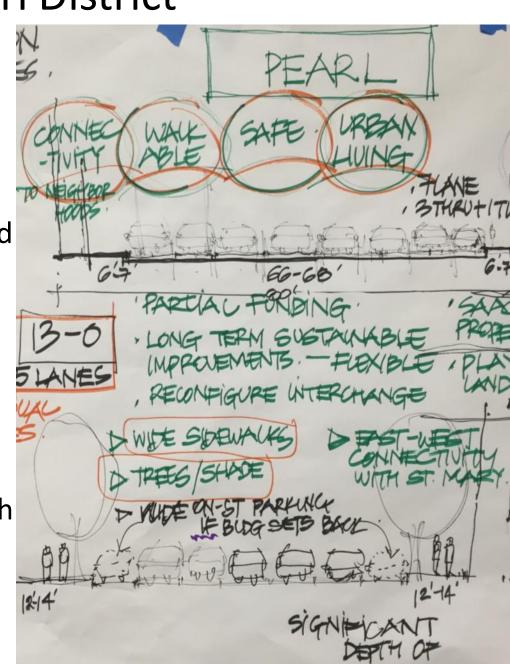






Lower Broadway – Pearl District

- I-35 to Josephine
- ROW: 80'
- Overarching
 - A walkable, safe, connected district for shopping and dining
 - Create a new standard for Urban Living
- Design Interventions
 - 4 lanes plus turn lane
 - On-street parking only with developer setback
 - Priority on wide sidewalks
 Trees and shade



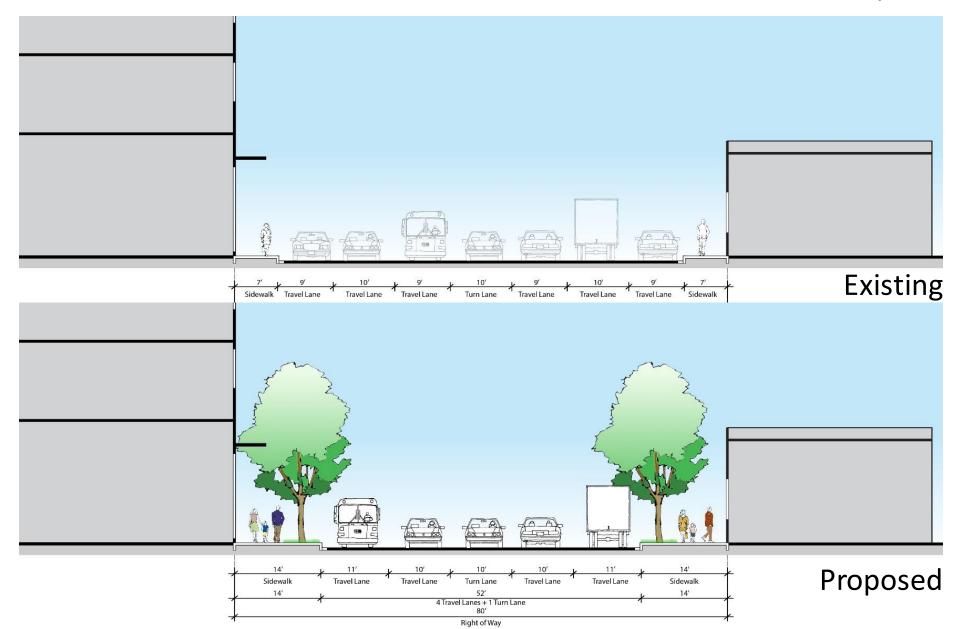


Lower Broadway I-35 to Josephine - Existing



Lower Broadway

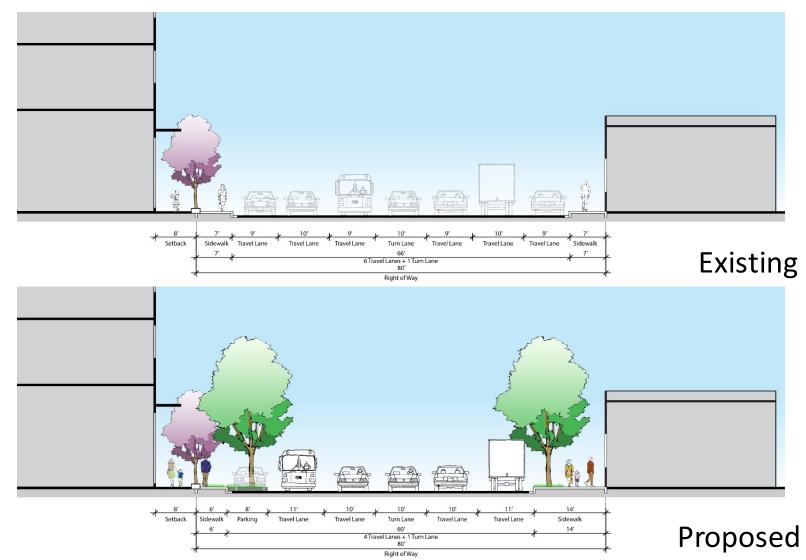
I-35 to Josephine



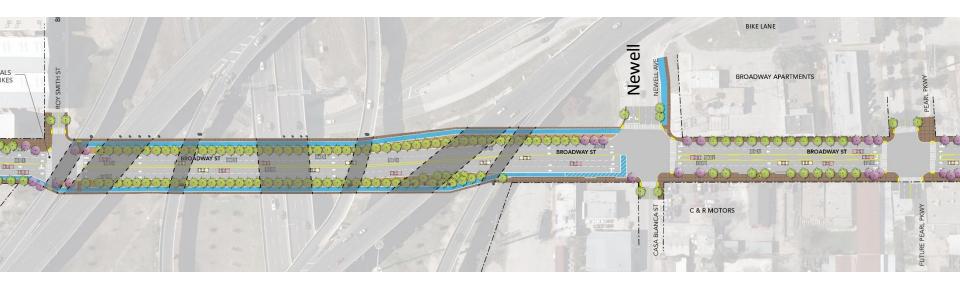


Lower Broadway

I-35 to Josephine – Alternative with building setback

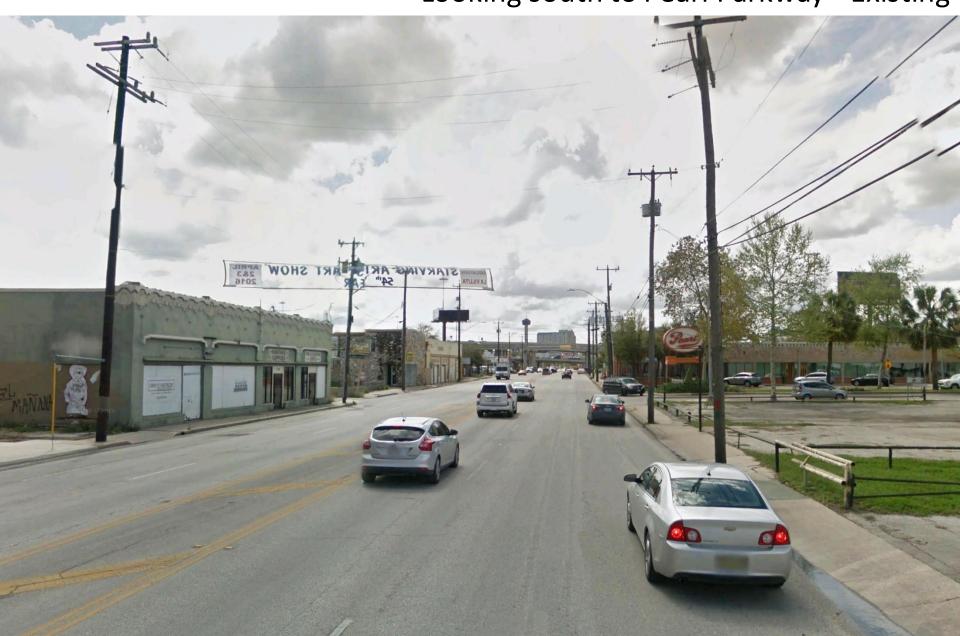


Lower Broadway 1-35 to Josephine - Proposed

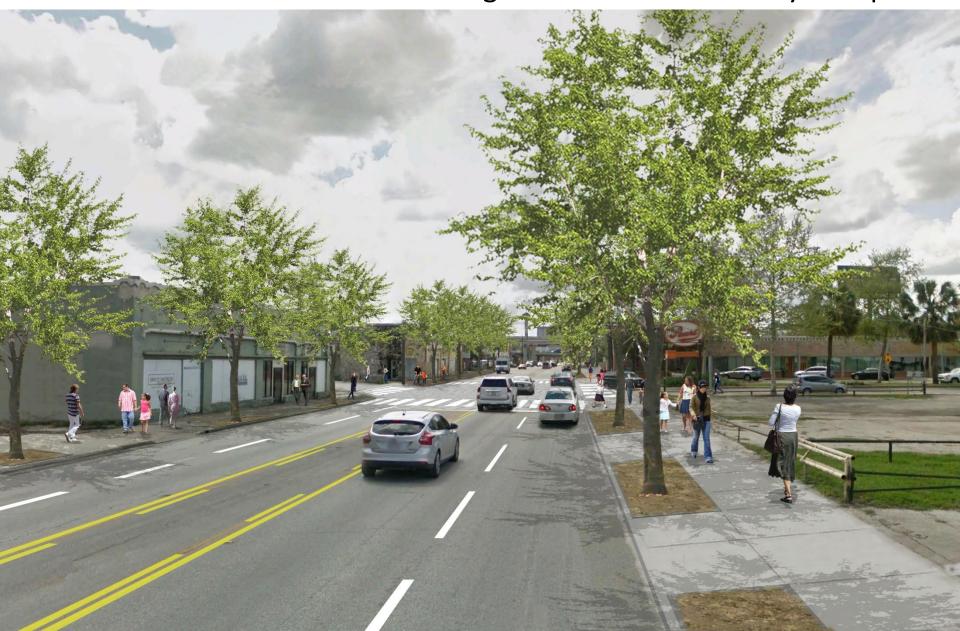




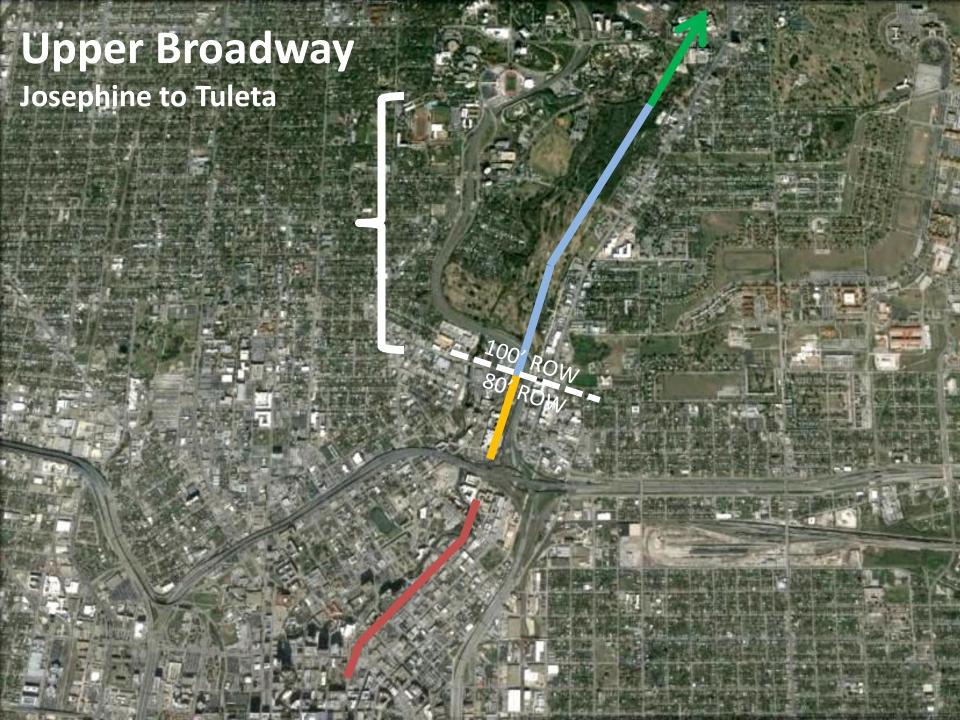
Lower Broadway
Looking south to Pearl Parkway - Existing



Lower Broadway
Looking south to Pearl Parkway - Proposed





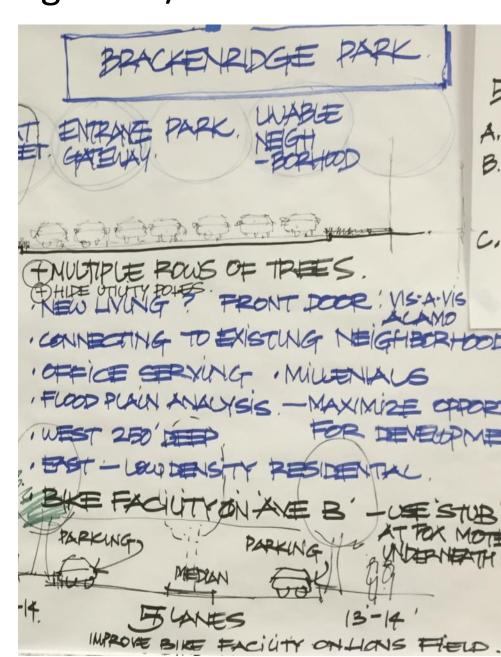






Upper Broadway-Brackenridge Park/Cultural Corridor

- Josephine to Tuleta
- ROW: 100'
- Overarching
 - Create a **Great Street**worthy of Park & Museums
 - Urban living with all the amenities, but less dense
 - Connect to surrounding neighborhoods and park
 - Maximize opportunity for redevelopment
- Design Interventions
 - 4 lanes + median/turn lane
 - Parking both sides

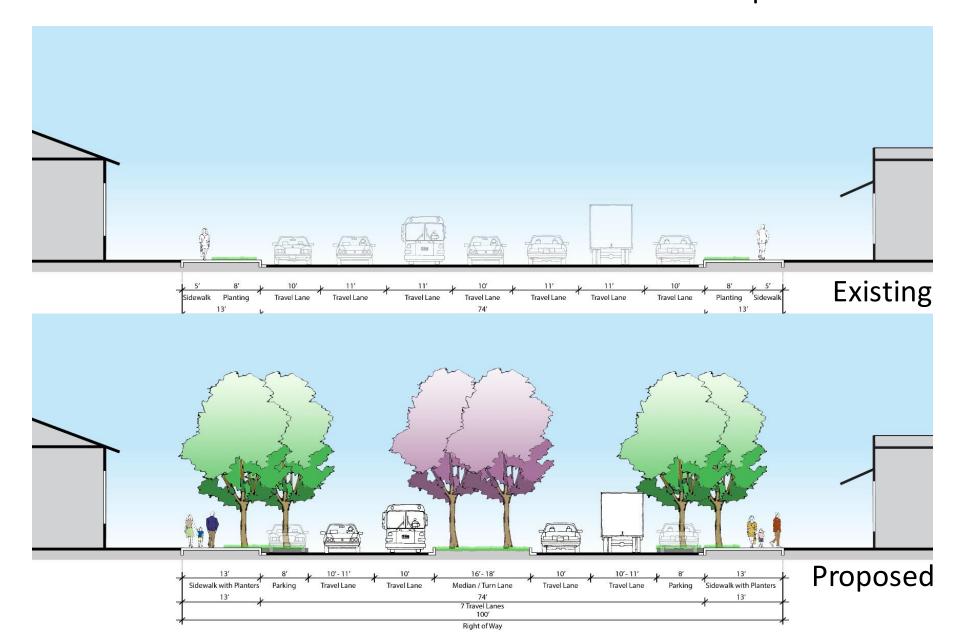




Upper Broadway Cultural Corridor Josephine to Tuleta - Existing



Upper Broadway Cultural Corridor Josephine to Tuleta



Josephine to Tuleta - Proposed

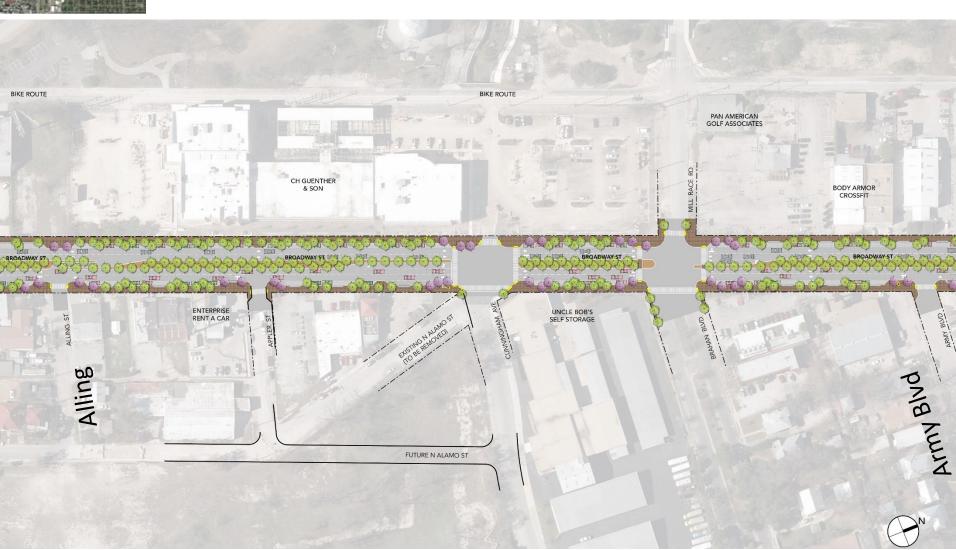






Upper Broadway

Josephine to Tuleta - Proposed



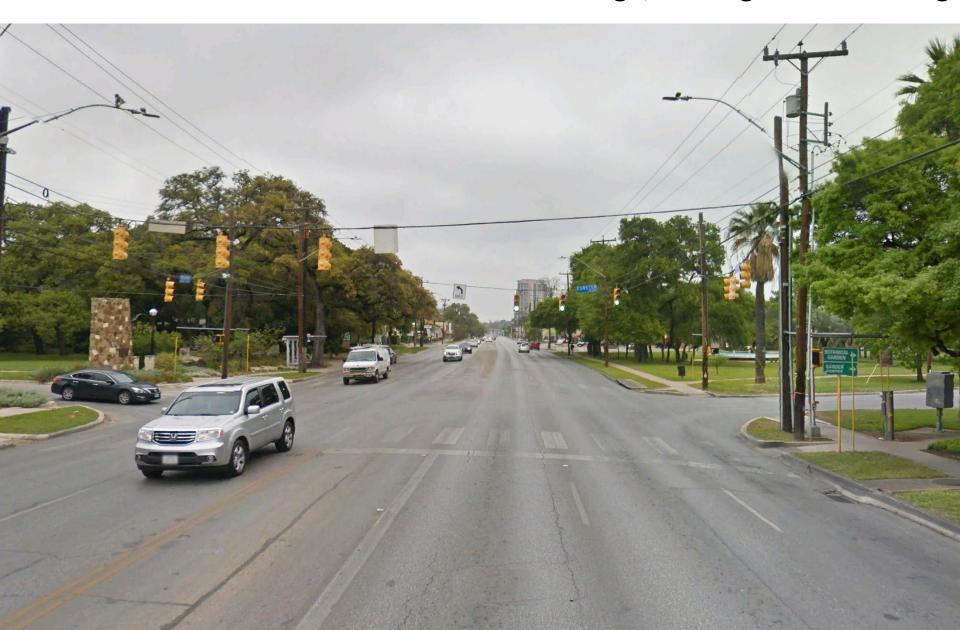
Upper Broadway

Josephine to Tuleta - Proposed

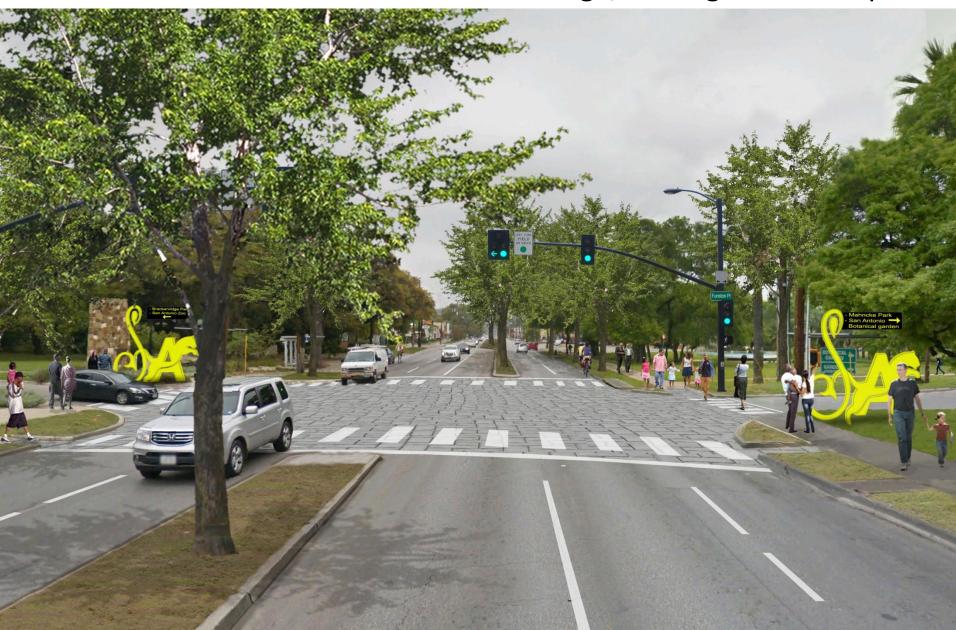


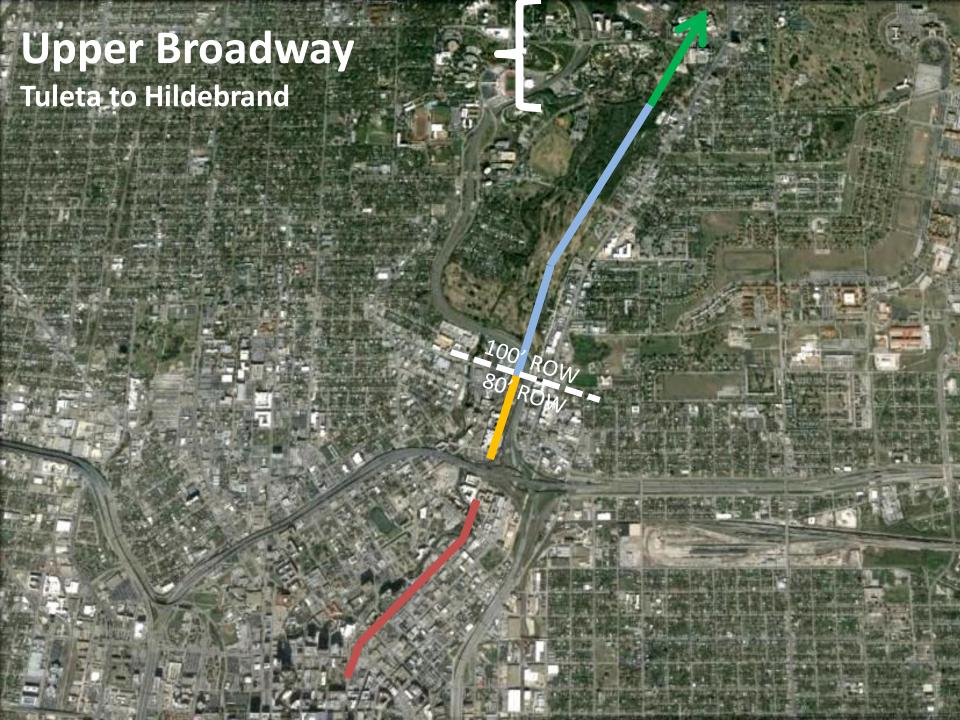


At Brackenridge, looking north- Existing



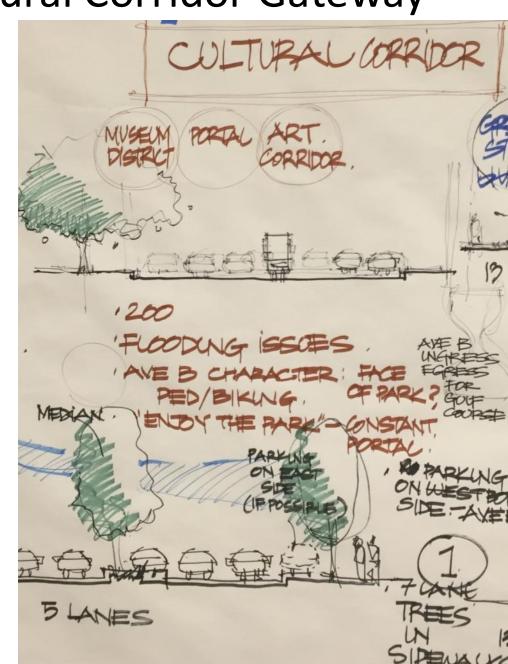
Upper Broadway Cultural Corridor At Brackenridge, looking north - Proposed





Upper Broadway - Cultural Corridor Gateway

- Tuleta to Hildebrand
- ROW: 100'
- Overarching
 - Distinguish, beautify and brand the Museum
 District
 - Provide portals to and connections between cultural destinations
- Design Interventions
 - Planted median
 - Comfortable sidewalks and branded multi-use path
 - On-street parking only with developer setback

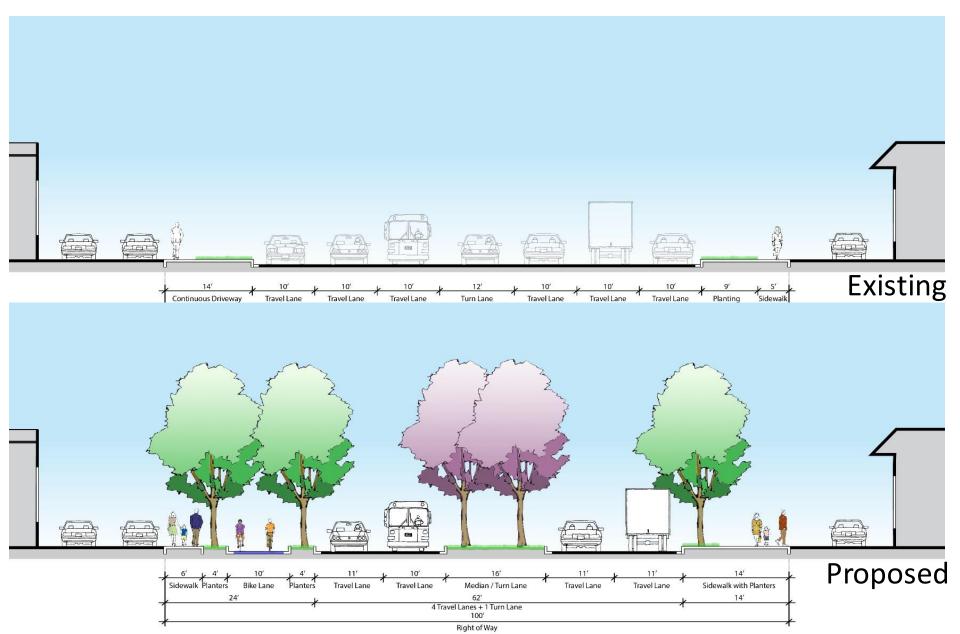




Upper Broadway Cultural Corridor Tuleta to Hildebrand - Existing



Tuleta to Allensworth



Upper Broadway Cultural Corridor Tuleta to Allensworth



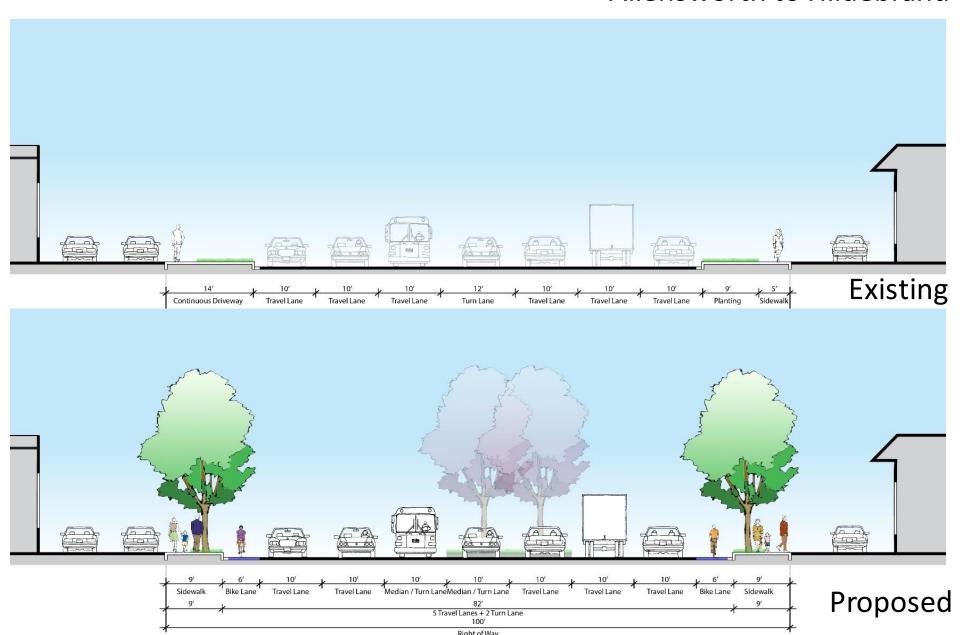
At Witte looking south - Existing



Upper Broadway Cultural Corridor At Witte looking south - Proposed



Allensworth to Hildebrand

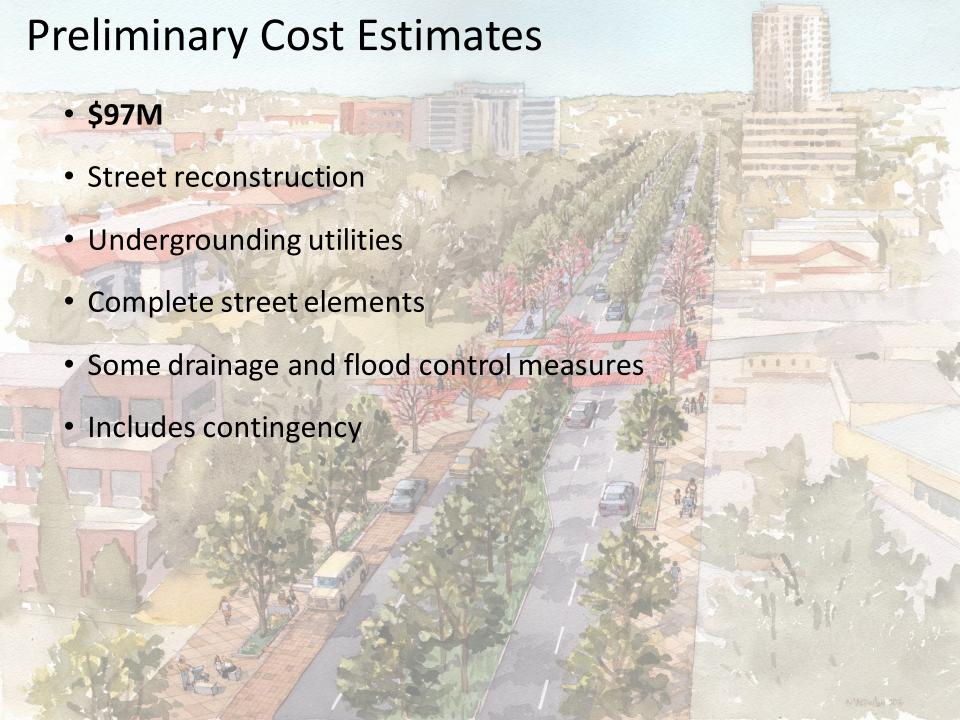


Allensworth to Hildebrand - Proposed









Cost Estimates

• \$97M

ASSUMPTIONS

Common:

- Street reconstruction
- Undergrounding utilities
- Complete street elements
- Some drainage and flood control measures

Lower Broadway Corridor:

- Houston to 3rd: Curb bulbouts and streetscaping only
- 3rd to Mulbery: Full depth pavement reconstruction & reconstruction of parkways

Upper Corridor:

- Mulberry to Allensworth: Full depth pavement reconstruction & reconstruction of parkways
- Allensworth to Hildebrand: Minor pavement widening, streetscaping and parkway reconstruction

Cost Estimates: Upper Broadway

DESCRIPTION	UNIT	QUANTITY		UNIT PRICE	2016 COST		2018 COST
Mobilization (10%)	LS	1	\$	3,120,000	\$ 3,120,000	\$	3,374,592
Insurance & Bonding (2%)	LS	1	\$	630,000	630,000	\$	681,408
Prep ROW	STA	55	\$	2,000	\$ 110,000	\$	118,976
Remove Old Concrete	SY	15,500	\$	13	\$ 193,750	\$	209,560
Street Excavation	CY	12,400	\$	15	\$ 186,000	\$	201,178
Geogrid (Subgrade Reinforcement)	SY	32,700		4	\$ 130,800		141,473
12" Ty B (Base) HMAC (keep Hildebrand new pavement) 3" Ty C (Surface) HMAC (keep Hildebrand new pavement)	TONS TONS	21,580 5,200		75 85	\$ 1,618,492 442,000	\$	1,750,561 478,067
Concrete Curb	LF	13,200		12	\$ 158,400	\$	171,325
Flatwork (sdwk, drwy, bike path, Indscp pavers)-east & west pkwys Curb Ramps	SY EA	15,500 90	\$	60 1,500	930,000 135,000		1,005,888 146,016
Landscape Center Median	SY	7,900		30	\$ 237,000	\$	256,339
Landscape Bike Buffer Streetscaping (benches, lighting, trees, lansdscaping, etc.) - east & west pkwys	SY STA		\$ \$	30 25,000	\$ 1,375,000	\$ \$	1,487,200
Placemaking Design Elements	EA	4	\$	100,000	\$ 400,000	\$	432,640
Storm Drainage System LID Stormwater Plantings	LS	1 5,850	\$	884,000 50	\$ 884,000 292,500		956,134 316,368
Drainage Outfall (from SARA)	LS	5,850	\$	9,500,000	\$ 9,500,000	\$	10,275,200
Small Signing	LS	1	\$	23,000	\$ 23,000	\$	24,877
Pavement Markings (4", 8", solid, broken, words, arrows)	LS	1	\$	71,000	\$ 71,000	\$	76,794
Traffic Signals	EA	6	\$	200,000	\$ 1,200,000	\$	1,297,920
Barricades & Temp Traffic Handling SW3P	LS LS	1	\$ \$	440,000 20,000	\$ 440,000 20,000	\$	475,904 21,632
Bury OH Electric Utilities	LF	10,900	-	800	\$ 8,720,000		9,431,552
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Subtotal =	\$ 30,816,942		33,331,604

 Subtotal =
 \$ 30,816,942
 \$ 33,331,604

 15% Construction Contingency =
 \$ 4,623,000
 \$ 5,000,237

 Estimated Construction Cost =
 \$ 35,439,942
 \$ 38,331,841

Engineering & Environmental Permitting (20%) = \$ 7,087,988 \$ 7,666,368

TOTAL = \$ 42,527,930 \$ 45,998,209

Cost Estimates: Lower Broadway

DESCRIPTION	UNIT	QUANTITY		UNIT PRICE	2016 COST		2018 COST
Mobilization (10%)	LS	1	\$	3,440,000	\$ 3,440,000	\$	3,720,704
Insurance & Bonding (2%)	LS	1	\$	690,000	\$ 690,000	\$	746,304
Prep ROW	STA	123	\$	2,000	\$ 246,000	\$	266,074
Remove Old Concrete	SY	30,300	\$	13	\$ 378,750	\$	409,656
Street Excavation	CY	36,100	\$	15	\$ 541,500	\$	585,686
Geogrid (Subgrade Reinforcement)	SY	86,600		4	\$ 346,400	\$	374,666
12" Ty B (Base) HMAC (keep Hildebrand new pavement) 3" Ty C (Surface) HMAC (keep Hildebrand new pavement)	TONS TONS	57,300 13,500		75 85	\$ 4,297,500 1,147,500	\$ \$	4,648,176 1,241,136
Concrete Curb Flatwork (sdwk, drwy, bike path, Indscp pavers)-east & west pkwys	LF SY	39,700 30,300		12 60	\$ 476,400 1,818,000	\$	515,274 1,966,349
Curb Ramps	EA	166		1,500	\$ 249,000	\$	269,318
Landscape Center Median	SY	5,700	\$	30	\$ 171,000	\$	184,954
Landscape Bike Buffer	SY	700		30	\$ 21,000	\$	22,714
Streetscaping (benches, lighting, trees, lansdscaping, etc.) - east & west pkwys	STA	133	\$	25,000	\$ 3,325,000	\$	3,596,320
Placemaking Design Elements	EA	6	\$	100,000	\$ 600,000	\$	648,960
Storm Drainage System	LS	1	\$	2,295,000	\$ 2,295,000	\$	2,482,272
LID Stormwater Plantings Drainage Outfall (assume outfalls for existing system adequate for proposed)	SY LS	9,000 0	\$	50 -	\$ 450,000 -	\$	486,720 -
Small Signing	LS	1	\$	58,000	\$ 58,000	\$	62,733
Pavement Markings (4", 8", solid, broken, words, arrows)	LS		\$	184,000	\$ 184,000	\$	199,014
Traffic Signals	EA	13	\$	200,000	\$ 2,600,000	\$	2,812,160
Barricades & Temp Traffic Handling	LS	1	\$	1,170,000	\$ 1,170,000	\$	1,265,472
SW3P	LS	1	\$	52,000	\$ 52,000	\$	56,243
Bury OH Electric Utilities	LF	11,800	\$	800	\$ 9,440,000	\$	10,210,304
	- 4	2	E.	Subtotal =	\$ 33,997,050	\$	36,771,209

 Subtotal = \$ 33,997,050 \$ 36,771,209

 15% Construction Contingency = \$ 5,100,000 \$ 5,516,160

 Estimated Construction Cost = \$ 39,097,050 \$ 42,287,369

 Engineering & Environmental Permitting (20%) = \$ 7,819,410 \$ 8,457,474

TOTAL = \$

46,916,460 \$

50,744,843

• Lower Broadway - Updated Traffic Analysis

	1	
Intersection	Existing	No Build 2040
3rd	В	В
4th	Α	Α
McCullough	С	F
Brooklyn	В	В
8th	Α	Α
9th	Α	Α
Jones	Α	С
Newell/Casablanca	D	F
Grayson	Α	E
Josephine	В	С
Alamo/Cunningham	С	
Brackenridge	Α	В

• Lower Broadway - Updated Traffic Analysis

			Repurposed w/
Intersection	Existing	No Build 2040	Improvements 2040
3rd	В	В	С
4th	Α	Α	В
McCullough	С	F	E
Brooklyn	В	В	D
8th	А	А	Α
9th	Α	Α	Α
Jones	Α	С	С
Newell/Casablanca	D	F	F
Grayson	Α	E	F
Josephine	В	С	F
Alamo/Cunningham	С	F	E
Brackenridge	Α	В	E

• Lower Broadway - Updated Traffic Analysis

			Repurposed w/	21.
Intersection	Existing	No Build 2040	Improvements 2040	2040 Mode Shift⁺
3rd	В	В	С	В
4th	Α	Α	В	В
McCullough	С	F	E	С
Brooklyn	В	В	D	C
8th	Α	Α	Α	Α
9th	Α	Α	Α	Α
Jones	Α	С	С	В
Newell/Casablanca	D	F	F	F
Grayson	Α	E	F	E
Josephine	В	С	F	D
Alamo/Cunningham	С	F	Е	С
Brackenridge	Α	В	E	В

[†] 15% mode shift assumed

Upper Broadway - New Traffic Analysis

		11.
Intersection	Existing	No Build 2040
Mulberry	D	F
Eleanor	Α	D
Funston	С	F
Tuleta	D	F
Allensworth	Α	D
Hildebrand	E	F

Delay exceeds 5 minutes.

Upper Broadway - New Traffic Analysis

		ik.	Repurposed w/
Intersection	Existing	No Build 2040	Improvements 2040
Mulberry	D	F	F
Eleanor	А	D	D
Funston	С	F	F
Tuleta	D	F	F
Allensworth	А	D	F
Hildebrand	E	F	F

Delay exceeds 5 minutes.

Upper Broadway - New Traffic Analysis

		36		
Intersection	Existing	No Build 2040	Improvements 2040	2040 Mode Shift⁺
Mulberry	D	F	F	F
Eleanor	А	D	D	Α
Funston	С	F	F	D
Tuleta	D	F	F	D
Allensworth	А	D	F	С
Hildebrand	E	F	F	F

Delay exceeds 5 minutes.

40% mode shift assumed





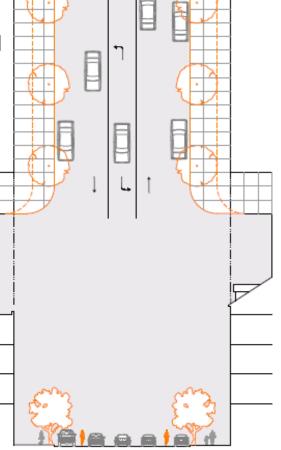
Lower Bway

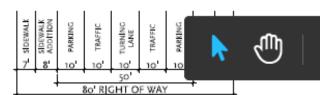


River North Master Plan

In implementing the Broadway improvements, an engineering / urban design plan must carefully consider the following elements:

- 1. Alignment of the 5 proposed travel lanes....
- 2. ..new urban **sidewalks**, and the location and alignment of **crosswalks**.
- 3. ... modifications to **traffic control devices**.
- 4. new street trees and street lights, benches...
- 5. clearances for parade floats.
- 6. a more permanent and attractive **marking** of the parade route, to replace the existing painted stripe.
- 7. unit pavers for the sidewalks would give:
- a. A higher quality appearance.
- b. Rainwater infiltration
- c. Simplifies disruption of sidewalks when new buildings are constructed
- d. If a new building project proposed a special type of sidewalk along its frontage, pavers can be pulled up for reuse elsewhere



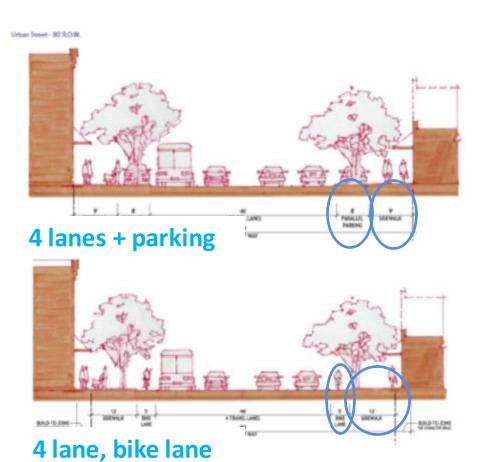




Midtown Brackenridge Plan

FINAL - March 25, 2011

Lower Bway









Concuptual randering streat section

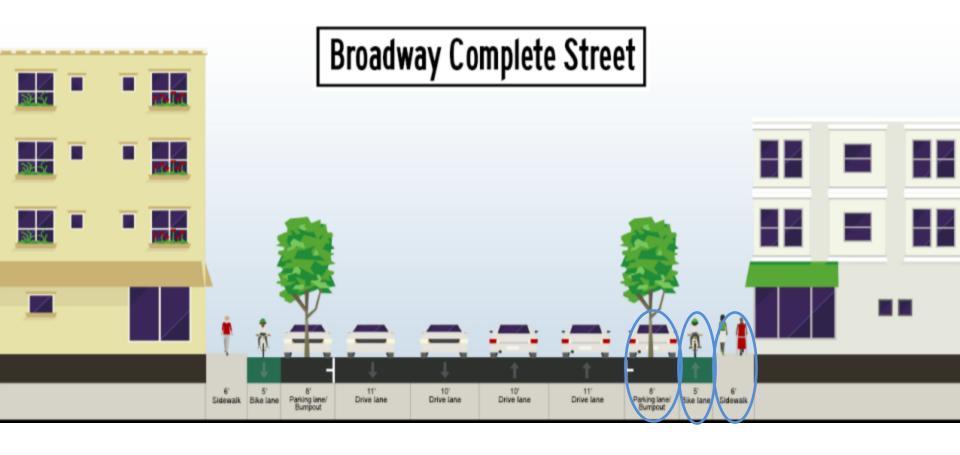




City Complete Street study

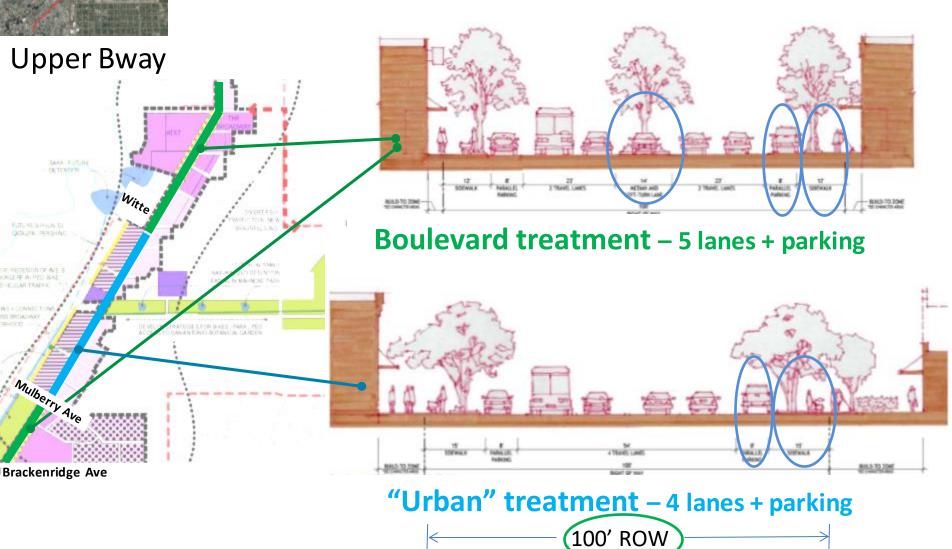
Without left turn lanes

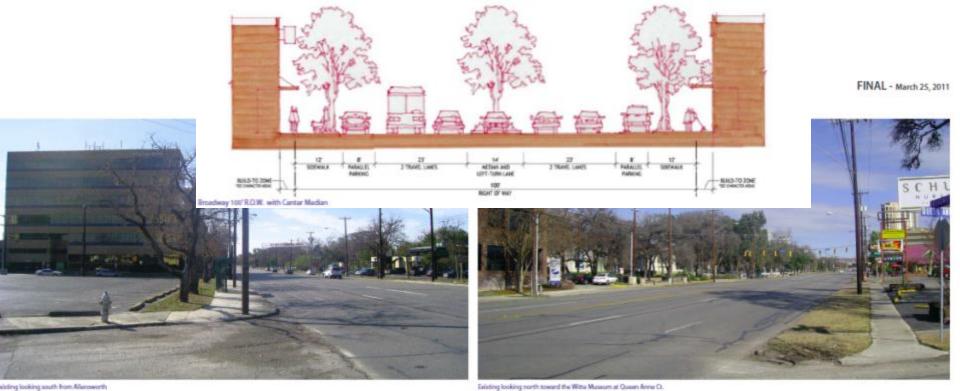






Midtown Brackenridge Plan





coting looking south from Alleraworth

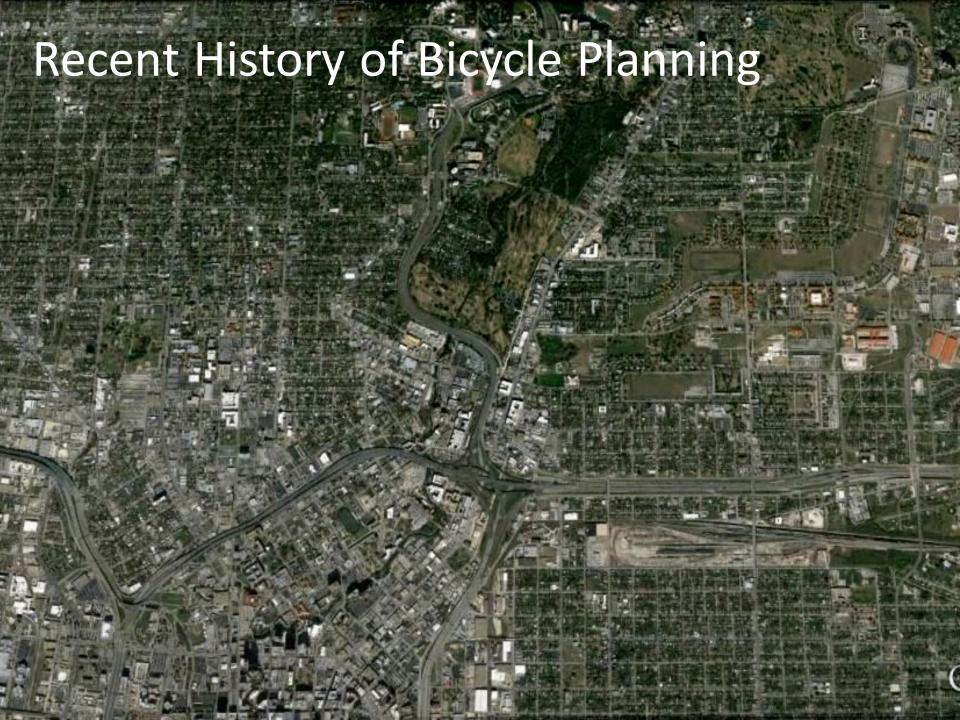


oncaptual rendering looking south from Allensworth showing Retail-Ready ground floor in the Neighborhood Core.



Conceptual randoring looking north toward the Witte Museum at Queen Anne Ct.



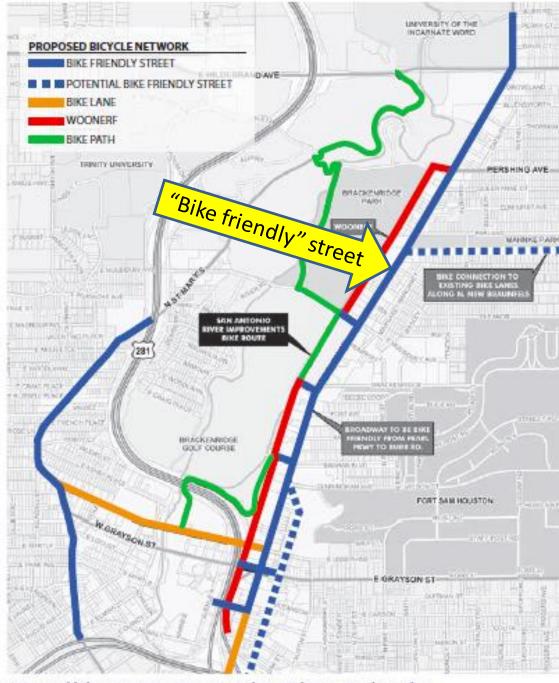






MIDTOWN Brackenridge

"The San Antonio Bicycle
Master Plan Update and
Implementation Plan should
guide the planning of any
street improvements in
MidTown Brackenridge."



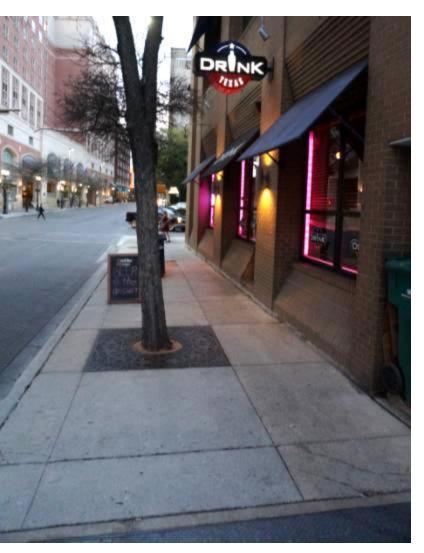
Proposed bike transportation network in MidTown Brackenridge

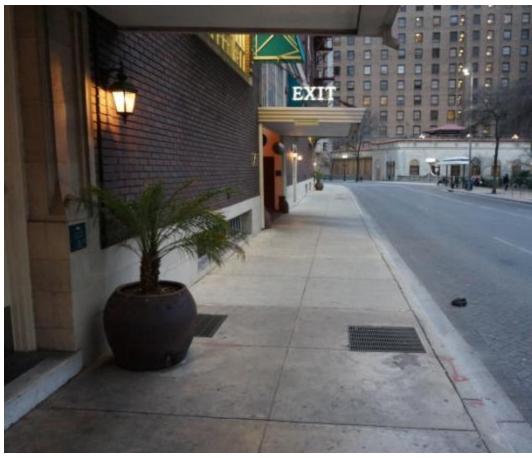




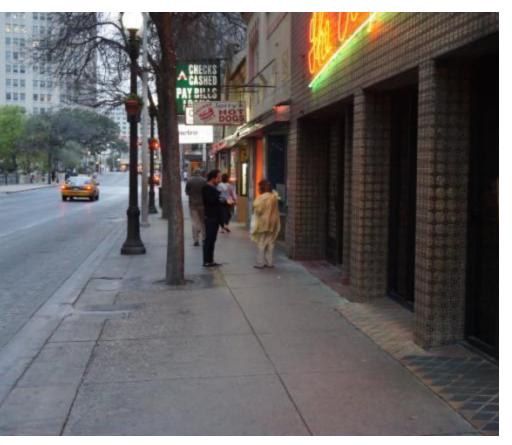








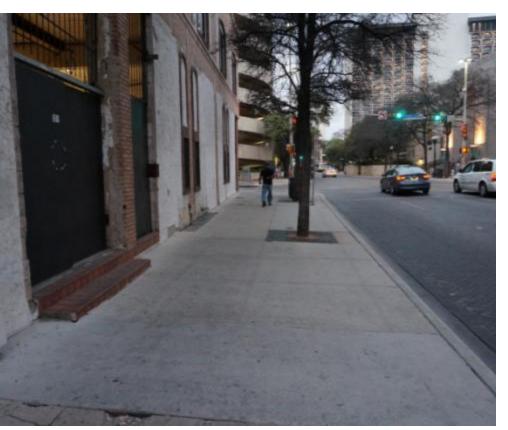
10 feet





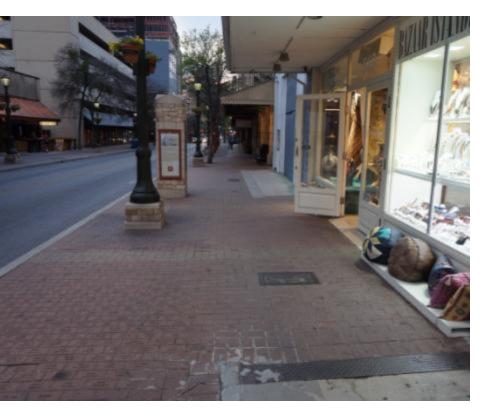
11 feet

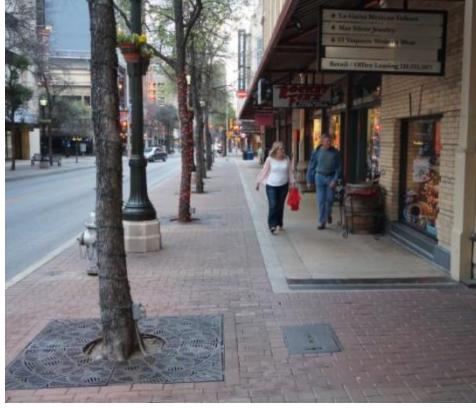
12 feet





13 feet 14 feet





15 feet 16 feet

Case Study: Indy Cultural Trail

• \$63 million investment = \$1 billion ROI

 in increased property value and other economic benefits since 2008

One investment, multiple outcomes

- Placemaking and and beautification
- Economic
- Lifestyle and fitness
- Environmental







Connecting institutions (physically, programmatically)







Branded wayfinding







Safe for all users







Innovative and Artistic







Serves all kinds of development