

Charleston, South Carolina | Alta Planning + Design

WEST ASHLEY GREENWAY/ BIKEWAY MASTER PLAN

PUBLIC MEETING | JUNE 4TH 2018

TONIGHT'S AGENDA



Welcome & Team Introduction

2-Day Site Findings

Charrette Week & Schedule

Food For Thought

Design Elements Preference Stations

Next Steps

The background of the slide is a photograph of a paved path winding through a dense forest. Three people are seen from behind, riding bicycles on the path. The image is overlaid with a semi-transparent blue filter. The text "TEAM INTRODUCTION + PROJECT SCHEDULE" is centered in large, white, bold, sans-serif capital letters.

TEAM INTRODUCTION + PROJECT SCHEDULE

Charleston, South Carolina

PROJECT TEAM



ALTA PLANNING + DESIGN

DOVER, KOHL & PARTNERS
town planning

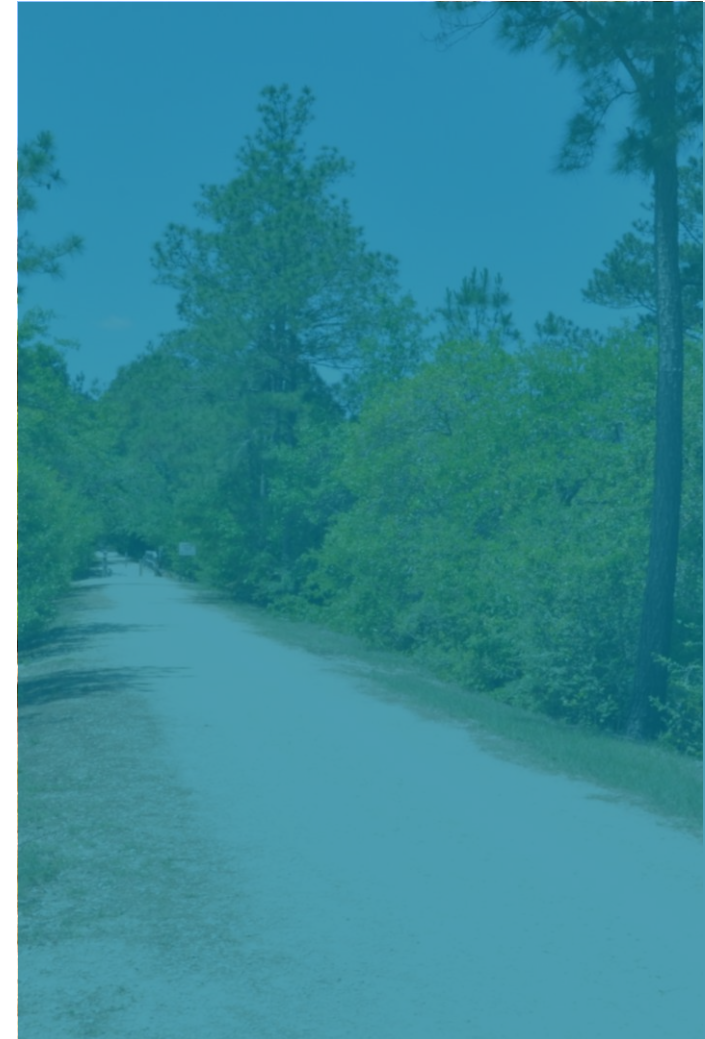
DOVER, KOHL & PARTNERS



HORSLEY WITTEN GROUP

R & R STUDIOS
ROBERTO BEHAR & ROSARIO MARQUARDT
ART ARCHITECTURE AND THE CITY WWW.RR-STUDIOS.COM

R & R STUDIOS



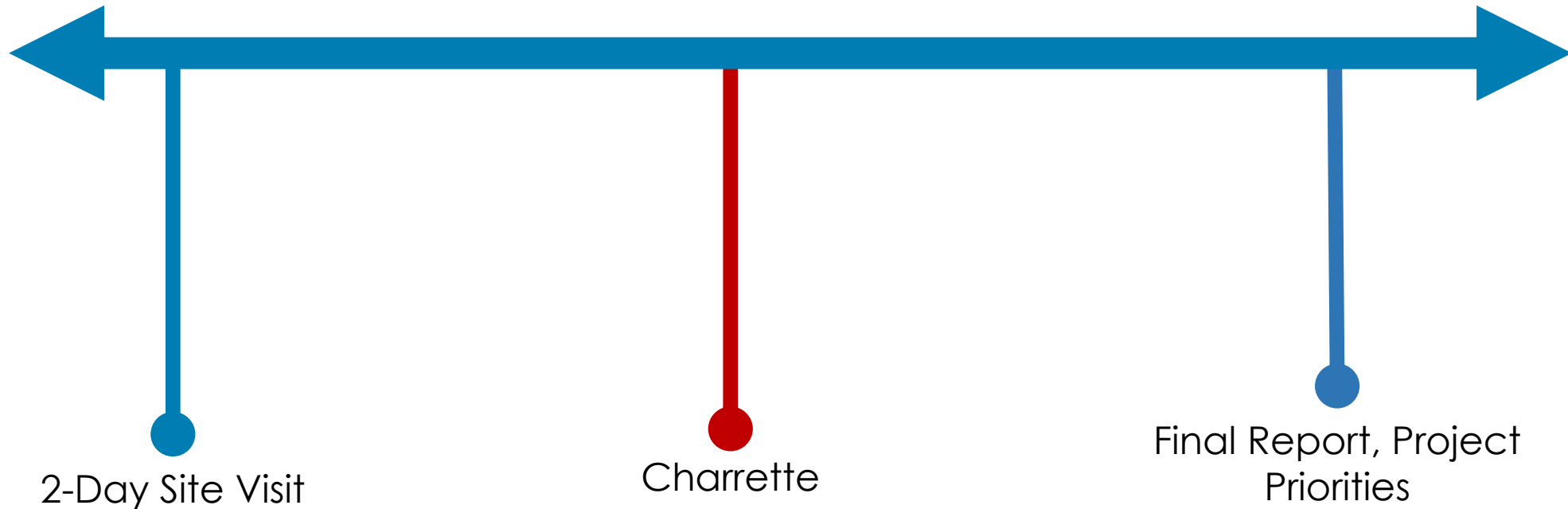
PROJECT SCHEDULE



May 2018

June 2018

Fall 2018



LET'S HEAR FROM YOU

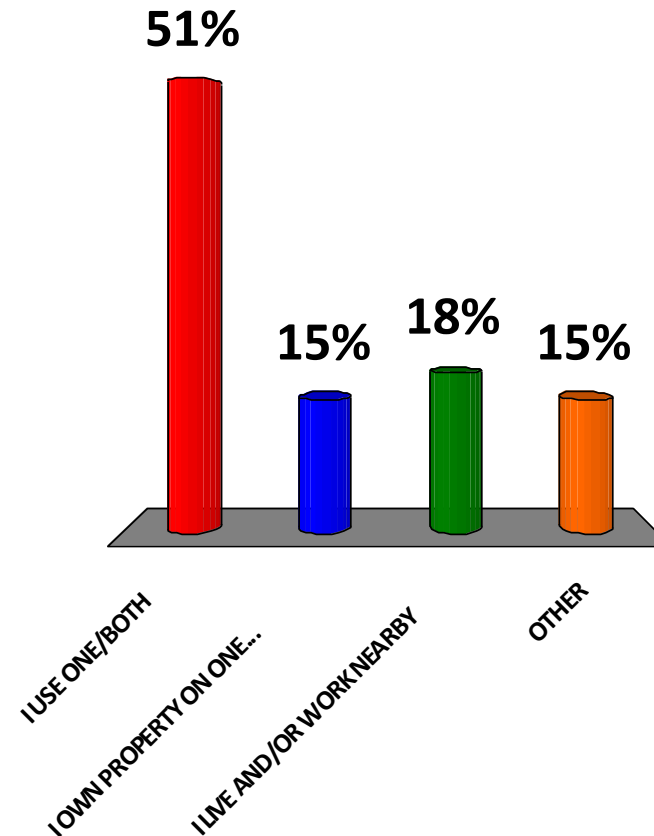
WHAT'S YOUR INTEREST IN THE GREENWAY/BIKEWAY?

A. I USE ONE/BOTH

B. I OWN PROPERTY ON ONE/BOTH

C. I LIVE AND/OR WORK NEARBY

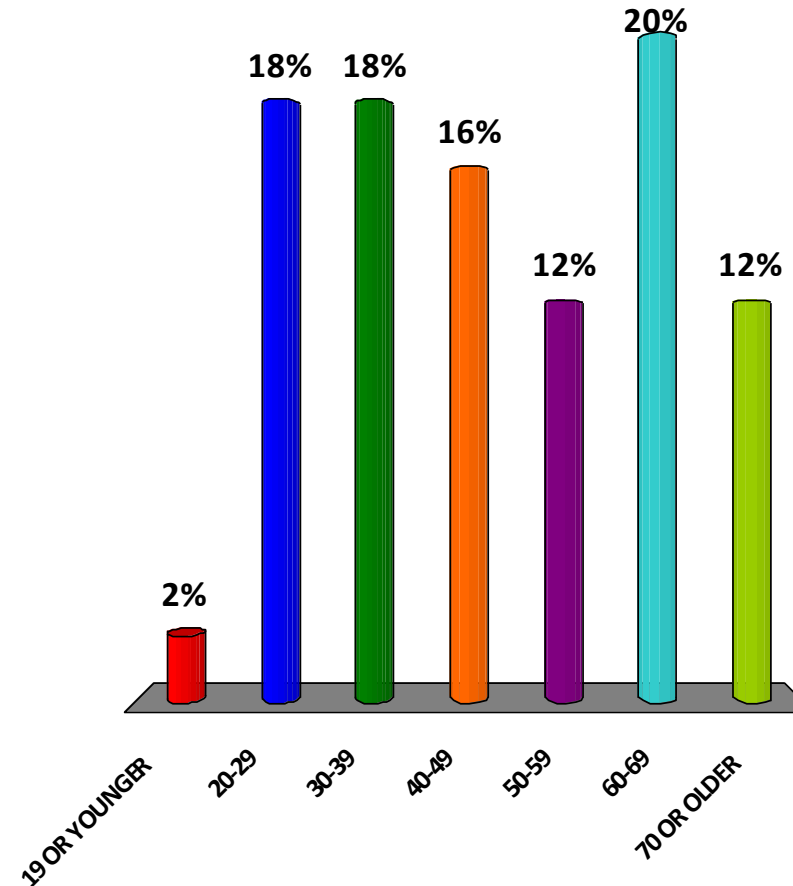
D. OTHER



NEXT QUESTION

WHAT IS YOUR AGE?

1. 19 OR YOUNGER
2. 20-29
3. 30-39
4. 40-49
5. 50-59
6. 60-69
7. 70 OR OLDER

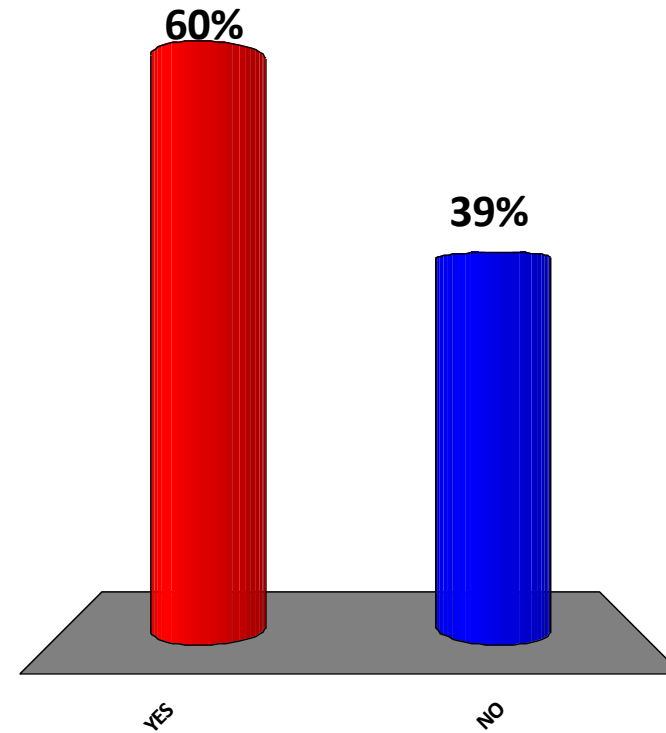


NEXT QUESTION

DO YOU LIVE WITHIN $\frac{1}{2}$ MILE OF THE GREENWAY/BIKEWAY?

A. YES

B. NO



NEXT QUESTION

HOW OFTEN DO YOU USE THE GREENWAY OR BIKEWAY?

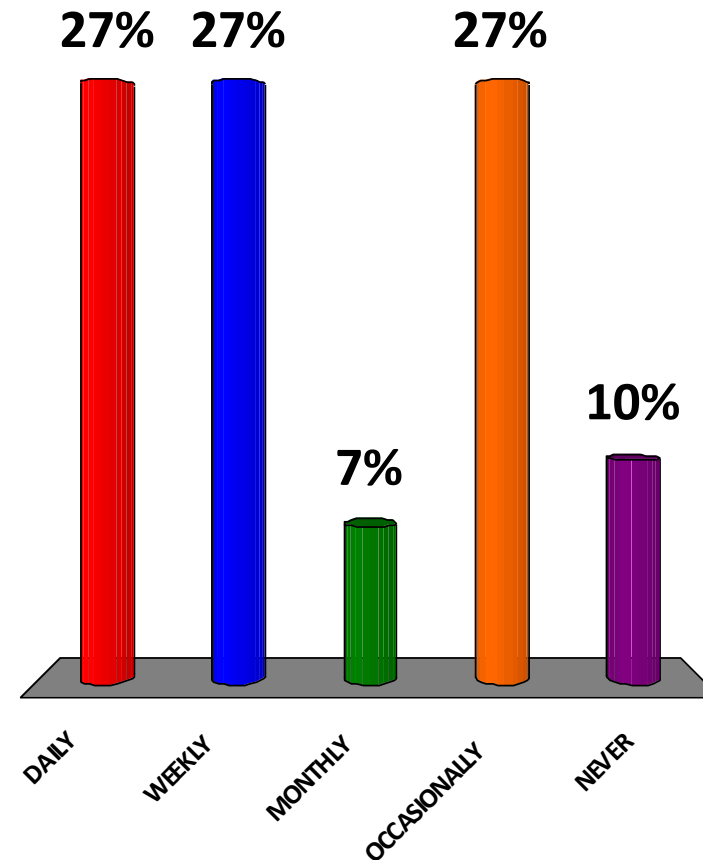
A. DAILY

B. WEEKLY

C. MONTHLY

D. OCCASIONALLY

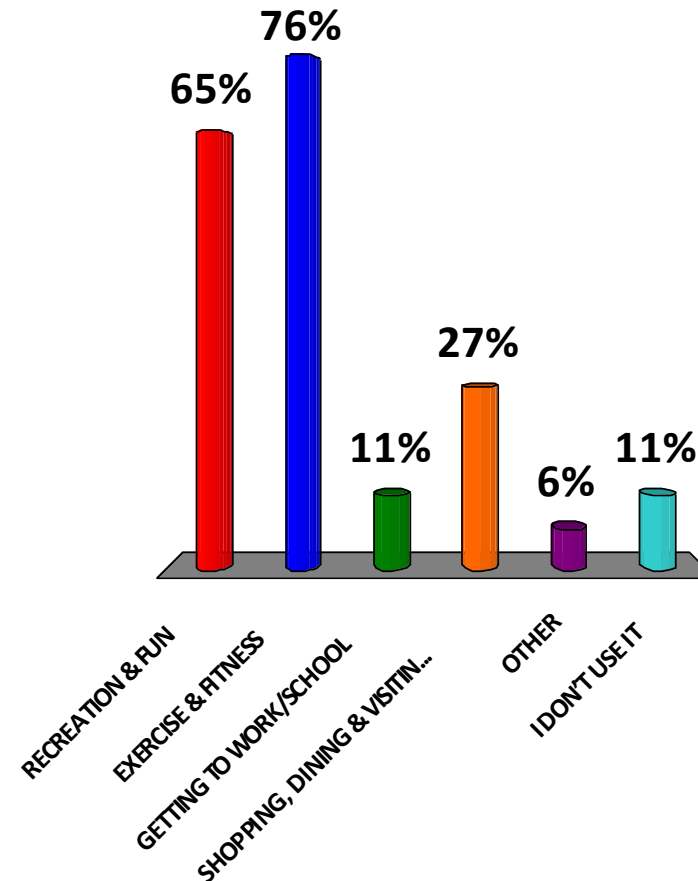
E. NEVER



NEXT QUESTION

WHY DO YOU USE THE GREENWAY AND/OR BIKEWAY? (CLICK ALL THAT APPLY)

- A. RECREATION & FUN
- B. EXERCISE & FITNESS
- C. GETTING TO WORK/SCHOOL
- D. SHOPPING, DINING & VISITING FRIENDS
- E. OTHER
- F. I DON'T USE IT



2-DAY SITE VISIT

Charleston, South Carolina

2-DAY SITE VISIT



2-DAY SITE VISIT



2-DAY SITE VISIT



2-DAY SITE VISIT



2-DAY SITE VISIT



2-DAY SITE VISIT



2-DAY SITE VISIT



2-DAY SITE VISIT



2-DAY SITE VISIT



2-DAY SITE VISIT



2-DAY SITE VISIT



2-DAY SITE VISIT



2-DAY SITE VISIT FINDINGS

- 🔍 **Narrowness of the Trails**
- 🔍 **Crossing the Ashley River**
- 🔍 **Challenging Street Crossings**
- 🔍 **Sparseness of Shade**
- 🔍 **Lack of Paving, Deteriorated Existing Paving**
- 🔍 **Lack of Amenities and Signage**
- 🔍 **Need for More Connectivity**

CHARRETTE WEEK

Charleston, South Carolina

THIS WEEK'S GOALS



Define “World Class”



Identify Key Areas



Design Options for Key Areas



Confirm Designs



Initiate Work on Master Plan Document

THIS WEEK: DESIGN CHARRETTE



1

Kick-off & Preferences Session

Monday, June 4th

6:30 pm to 8:30pm

2

Open Design Studio

Tuesday – Thursday, June 5th – 6th

10am to 6pm

3

Work-in Progress Presentation

Thursday, June 7th

6:30 pm to 8:30 pm

All events at **CHARLESTON PARKS CONSERVANCY**

FOOD FOR THOUGHT

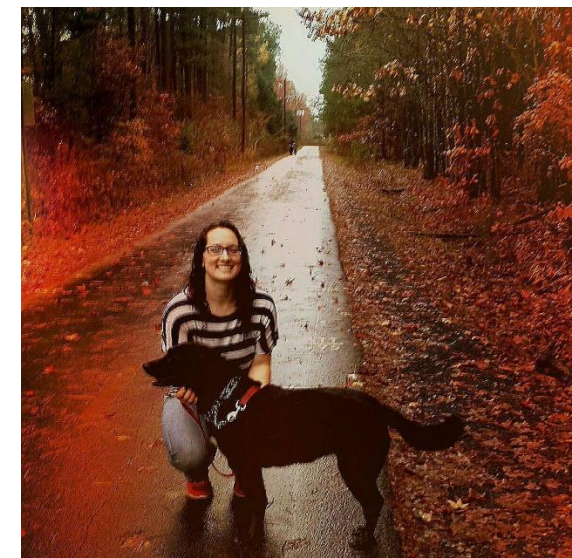
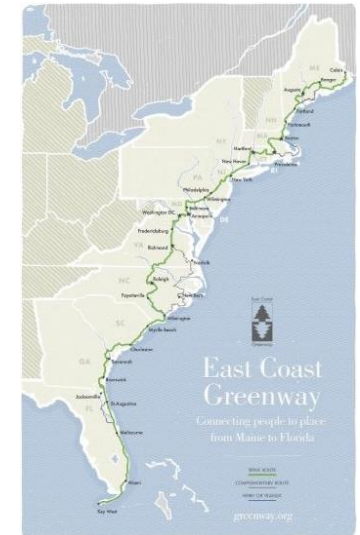
Charleston, South Carolina



OPPORTUNITIES: CONNECTING TO DAILY LIFE



THE BIG PICTURE: EAST COAST GREENWAY



OPPORTUNITIES: BIKE TOURISM



OPPORTUNITIES: BIKE TOURISM



PLAN WEST ASHLEY



PLAN WEST ASHLEY

CHARLESTON, SOUTH CAROLINA



PLAN WEST ASHLEY

IMPLEMENTATION MATRIX

Recommended Actions: Policies / Studies

	Plan Chapter	Description
1	COMM DESIGN & LAND USE	Formally adopt the Plan West Ashley vision
2	COMM DESIGN & LAND USE	Coordinate implementation activities with Charleston County, Regional and State planning bodies
3	COMM DESIGN & LAND USE	Develop a set of urban design principles for key sites and corridors. This should include the Plan Focus Areas (identified on page 2.22-2.23) and additional key nodes of Avondale and Sycamore/St. Andrews Blvd.
4	COMM DESIGN & LAND USE	Establish a joint City/County Design Review Board for key commercial corridors
5	COMM DESIGN & LAND USE	Establish a West Ashley Community Brand & Identity Committee: organize private clean up efforts (keep West Ashley beautiful)
6	COMM DESIGN & LAND USE	Pursue neighborhood preservation
7	ALL	The City and County should develop community engagement strategies to improve communication, education, and participation for residents around locally important community design & land use, transportation, green infrastructure & sustainability, housing, and economic development issues.
8	TRANSPORTATION	Develop Design Guidelines for West Ashley Greenway + Bikeway
9	TRANSPORTATION	Prepare a feasibility study for potential federal grant projects, such as TIGER (Transportation Investment Generating Economic Recovery) grants
10	TRANSPORTATION	Evaluate access management strategies
11	GREEN INFRA & SUSTAINABILITY	Pursue mechanisms and funding to purchase property for the purpose of reversion to wetlands and addition of floodplain
12	GREEN INFRA & SUSTAINABILITY	Seek authorization from the General Assembly to allow local real estate transaction surcharge to seed open space acquisition
13	GREEN INFRA & SUSTAINABILITY	Strengthen tree protection and tree planting requirements for new development and redevelopment
14	GREEN INFRA & SUSTAINABILITY	Advocate for the Greenbelt program to borrow money against future revenues on the half penny sales tax in order to provide immediate funding
15	GREEN INFRA &	Raise community awareness of sensitive environmental concerns, green



above: Potential improvements to the West Ashley Bikeway related to developing design guidelines for the West Ashley Greenway and West Ashley Bikeway. Improvements may include wayfinding, site furniture, green infrastructure, lighting, trail dimensions, etc.

PLAN WEST ASHLEY

Recommended Actions: Physical Improvements / Projects (continued)

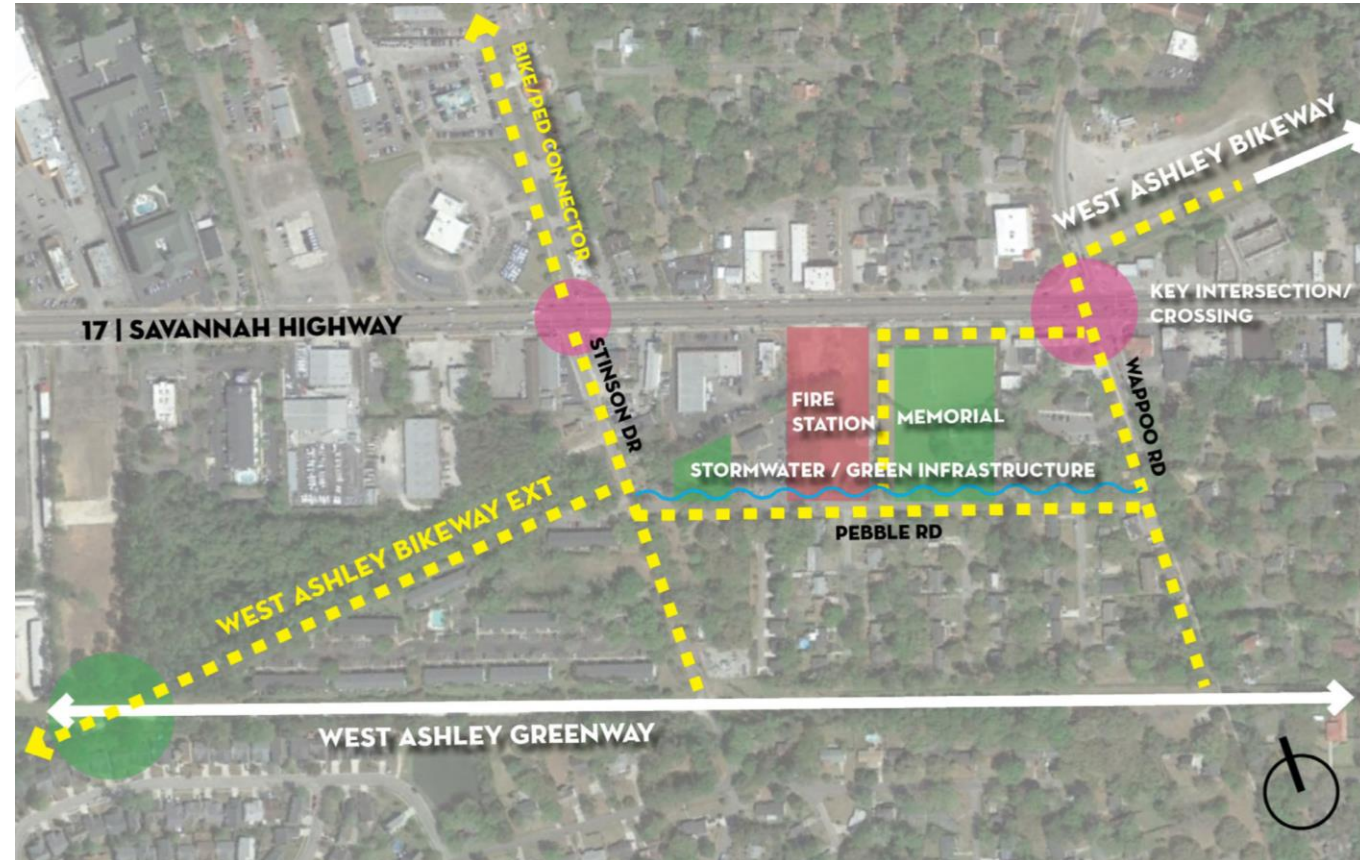
	Plan Chapter	Description
135	TRANSPORTATION	Pedestrian/Bike Crossing: West Ashley Greenway at Ashley River (Bridge - Adjacent, cantilevered, or standalone)
136	TRANSPORTATION	Sam Rittenberg Blvd at Old Towne Road Intersection Improvements
137	TRANSPORTATION	Reduce headways on CARTA routes
138	TRANSPORTATION	Install Shared Use Paths on major roadways (including US 17, Sam Rittenberg, Old Towne, St Andrews Blvd, Ashley River Rd, Glenn McConnell Pkwy, and Bees Ferry Rd)
139	TRANSPORTATION	Connect West Ashley Greenway to West Ashley Bikeway at Wappoo Rd
140	TRANSPORTATION	Citadel Mall Transit Improvements/Mobility Hub
141	TRANSPORTATION	West Ashley Circle Transit Improvements/Mobility Hub
142	TRANSPORTATION	Implement express bus service to Boeing/Airport/Leeds Avenue
143	TRANSPORTATION	Implement a pedestrian/bike scale destination based wayfinding system
144	TRANSPORTATION	Implement Access Management strategies/close excess curb cuts and install landscape medians
145	TRANSPORTATION	Install adaptive controls for real-time adjustments to traffic signal timing
146	TRANSPORTATION	Reconfigure intersection of 5th Avenue at St Andrews Blvd
147	TRANSPORTATION	Provide Canal Walk Pedestrian/Bike Crossover of Tiger Swamp
148	GREEN INFRA & SUSTAINABILITY	Implement flood control and drainage improvements with traditional stormwater management techniques coupled with green infrastructure practices
149	GREEN INFRA & SUSTAINABILITY	Partner with the Citadel Mall to construct pilot Green Infrastructure improvements
150	GREEN INFRA & SUSTAINABILITY	Incorporate "Water Smart Park" concepts into the next park construction or retrofit as a pilot
151	GREEN INFRA &	Increase wetland preservation/restoration and floodplain management as part of



PLAN WEST ASHLEY

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THE BIG PICTURE: GREENWAY & BIKEWAY



THE BIG PICTURE: GREENWAY & BIKEWAY



PLAN WEST ASHLEY GREEN INFRASTRUCTURE



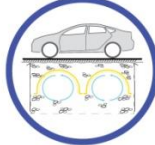


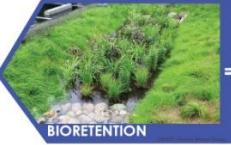
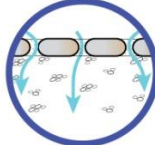



GREEN INFRASTRUCTURE MENU

Techniques to mimic predevelopment, hydrologic conditions.

WATER QUALITY PRACTICES			
Local, site specific solutions designed to capture and treat the first flush from small and frequent rain events.			
		HOW IT WORKS	Rain gardens collect, treat and recharge groundwater reserves.
	RAIN GARDEN	BENEFITS	Filters stormwater through soil, plants and microbes. Creates wildlife habitat and encourages infiltration on site.
		HOW IT WORKS	Sandy soils are the planting medium making this practice ideal for coastal settings.
	SAND FILTER	BENEFITS	Filters stormwater through soil, plants and microbes. Creates wildlife habitat and encourages infiltration on site.
		HOW IT WORKS	Runoff is diverted by site specific curb cuts to relieve storm drains.
	BIOSWALE	BENEFITS	Filters stormwater through soil, plants and microbes. Fits in tight spaces and encourages infiltration on site.
		HOW IT WORKS	Redirected downspouts puts rain into above ground planters for irrigation.
	STORMWATER PLANTER	BENEFITS	Filters stormwater through soil, plants and microbes. Fits in tight spaces and encourages infiltration on site.
		HOW IT WORKS	An inlet allows runoff to enter the soil and root zone. Carefully selected trees will absorb stormwater.
	TREE FILTER PITS	BENEFITS	Filters stormwater through soil and gravel layers. Fits in tight spaces, and encourages infiltration on site.
		HOW IT WORKS	Replace black top with green plants; outfitted extensive green roofs contain very shallow soil and gravel layers.
	EXTENSIVE GREEN ROOF	BENEFITS	Filters stormwater through soil and gravel layers. Reduces impervious cover, and provides building energy savings.

GREEN INFRASTRUCTURE MENU

Techniques to mimic predevelopment, hydrologic conditions.

HYBRID PRACTICES			
These specialized forms of green infrastructure perform both water quality treatment and provide a degree of storage capacity during more significant rain events.			
		HOW IT WORKS	Set into the water table, plants and micro-organisms do a majority of the pollutant removal.
	CONSTRUCTED WETLAND	BENEFITS	Filters stormwater through plants and microbes. Creates wildlife habitat, improves air and water quality.
		HOW IT WORKS	Chambers store excess stormwater and can be placed under parking lots, park and even under other forms of G.I.
	SUBSURFACE CHAMBERS	BENEFITS	Filters stormwater through gravel. Provides flood control storage and encourages infiltration on site.
		HOW IT WORKS	A more engineered rain garden, with special soil requirements and outlet pipes to improve the system's safety.
	BIORETENTION	BENEFITS	Filters stormwater through soil, plants and microbes. Creates wildlife habitat and encourages infiltration on site.
		HOW IT WORKS	Porous void space allows stormwater to drain down instead of running off.
	PERMEABLE PAVEMENT	BENEFITS	Filters stormwater through gravel and soil, fits almost anywhere pavement can and encourages infiltration on site.
		HOW IT WORKS	Runoff is diverted into the soil and root zone. Trees will help absorb stormwater.
	ENHANCED TREE TRENCH	BENEFITS	Filters stormwater through soil and gravel layers. Absorbs pollutants, and encourages infiltration on site.
		HOW IT WORKS	Replace black top with green plants; outfitted intensive green roofs contain deep soil and gravel layers.
	INTENSIVE GREEN ROOF	BENEFITS	Filters stormwater through soil and gravel layers. Reduces impervious cover, and provides building energy savings.

NEIGHBORHOOD SYSTEMS



BEFORE



AFTER



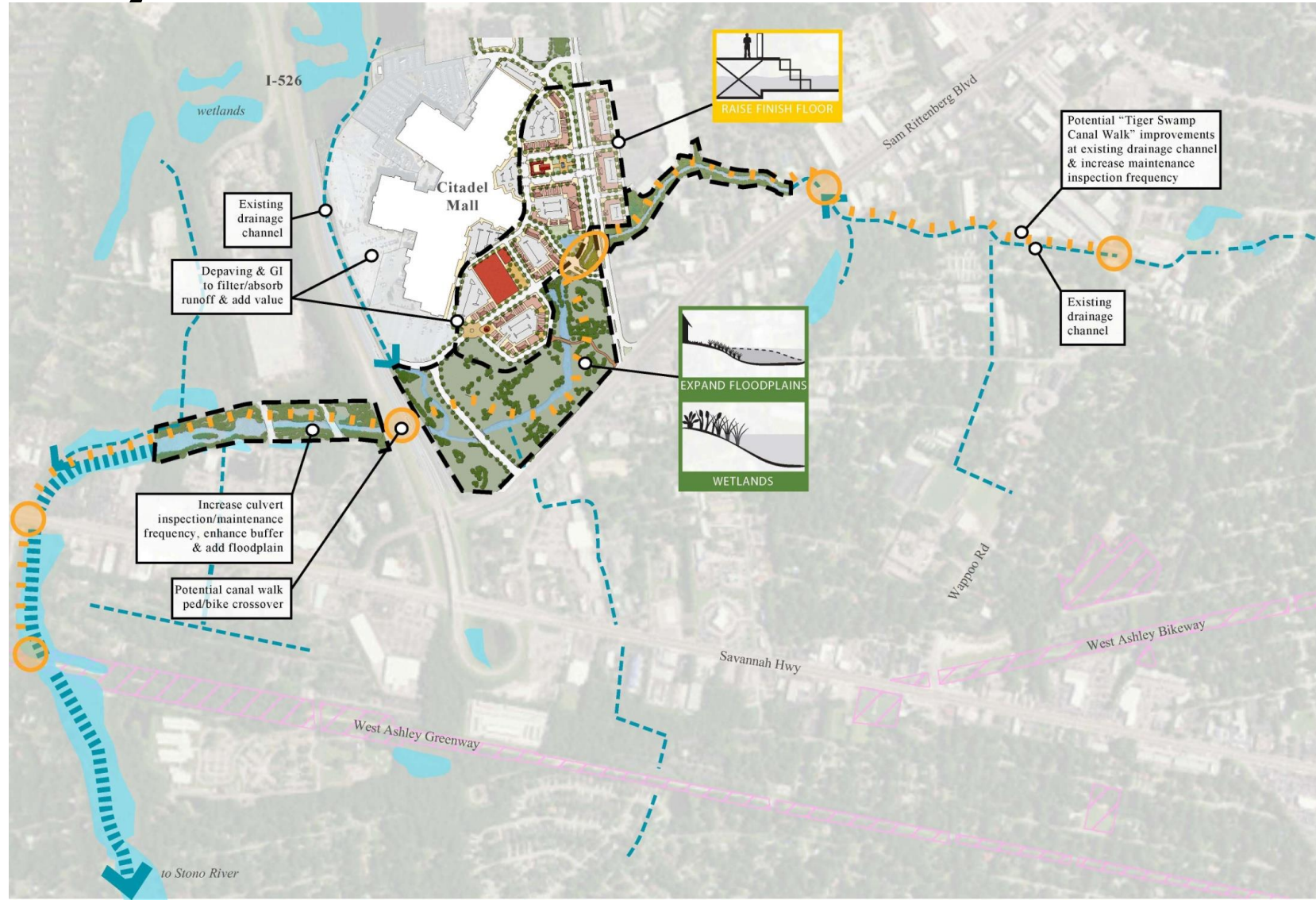
STORMWATER PARKS



TRAILS / MOBILITY / PLACE



PLAN WEST ASHLEY MALL/TIGER SWAMP CONCEPT



PAVEMENT TREATMENTS



PAVEMENT TREATMENTS

BRICK PAVERS



GRANITE
COBBLES



GLASS AGGREGATE
PAVERS / CONCRETE

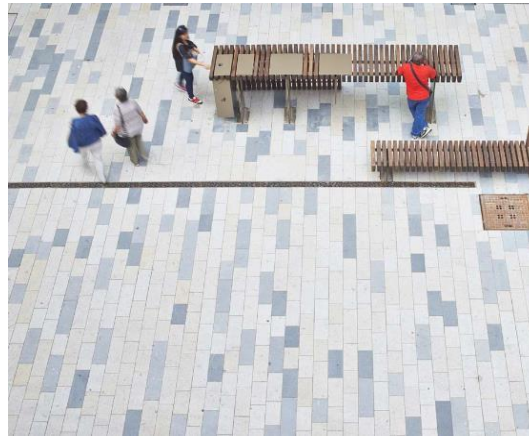


PAVEMENT TREATMENTS

CONCRETE



PRECAST
CONCRETE PAVERS



SITE FURNISHINGS



SITE FURNISHINGS - BENCHES



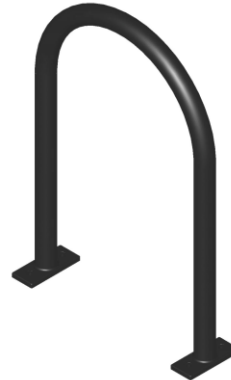
SITE FURNISHINGS - TRASH



SITE FURNISHINGS - PICNIC



SITE FURNISHINGS - BIKE RACKS



SITE FURNISHINGS - OTHER

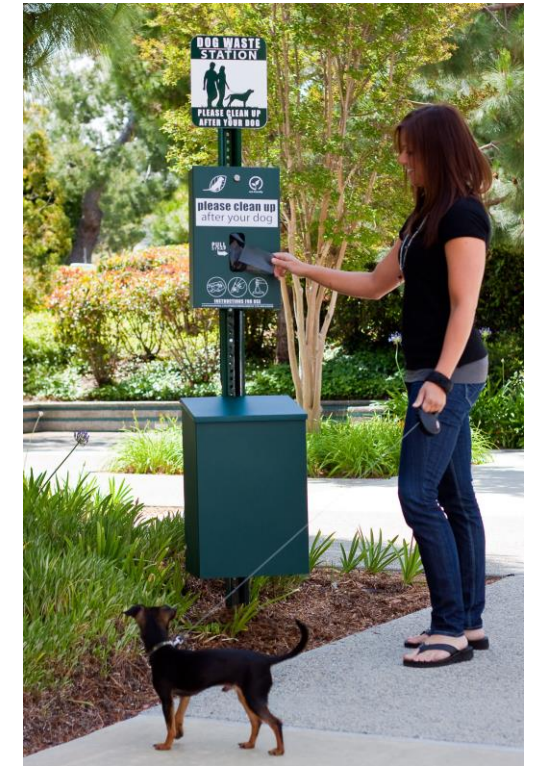
BIKE REPAIR STATIONS



DRINKING FOUNTAINS



PET STATIONS



SITE FURNISHINGS - SHADE

TREE COVER



ARTISTIC



SHADE SAILS



SHADE STRUCTURE



LIGHTING

UPLIGHTING



LED ACCENT LIGHTS



BOLLARD LIGHTS



LIGHTING - CONTINUED

TRADITIONAL



LED FESTOON



CONTEMPORARY



FENCING/EDGE TREATMENTS



FENCING/EDGE TREATMENTS

TRADITIONAL/METAL



ARTISTIC



NATURAL



CORTEN



FENCING/EDGE TREATMENTS-CONTINUED

RUSTIC / WOOD



PATTERN



MODERN



PARKS/FARMERS MARKETS



PARKS/FARMERS MARKETS



PARKS

FARMERS MARKETS



TRAILHEADS & PLAZAS



PLAZAS

TRAILHEADS



PLAYGROUNDS/FITNESS

CHILDREN'S PLAYGROUND



NATURE PLAY SPACE



FITNESS



COMMUNITY GARDENS



THEMED GARDENS

- PLAZAS
- CERTIFIED ARBORETUM
- BOTANICAL GARDEN INSTALLATIONS
- THEMED MILES- "PALMETTO MILE" "AZALEA MILE"
- HISTORICALLY THEMED GARDENS
- SENSORY GARDENS

THEMED GARDENS

THEMED MILES

“AZALEA MILE”



Pastoral



Manicured

“PALMETTO MILE”



English Border

THEMED GARDENS

PLAZAS



CERTIFIED ARBORETUM

SENSORY GARDENS

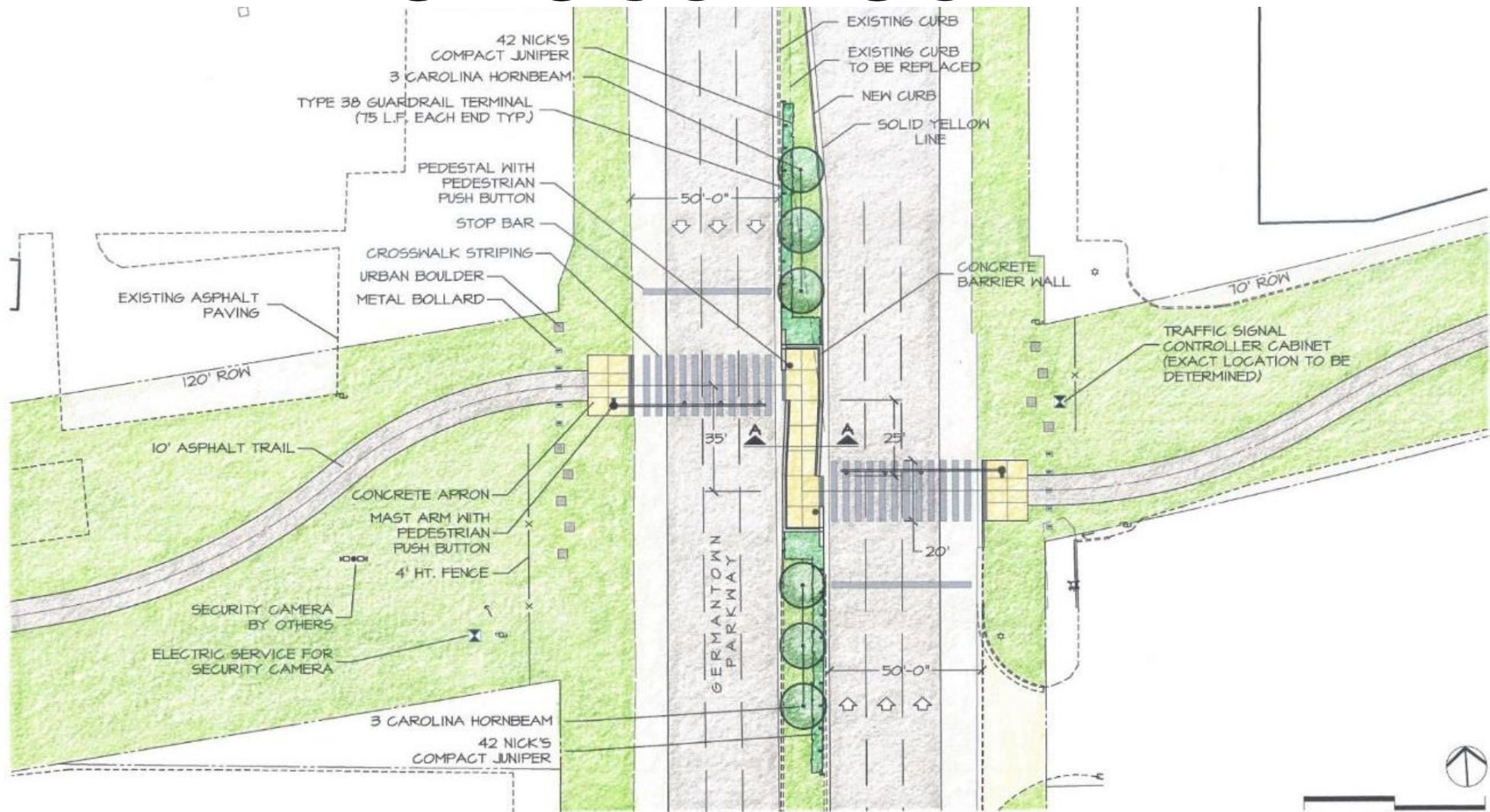
**BOTANICAL GARDEN
INSTALLATIONS**

**HISTORICALLY THEMED
GARDENS**

STREET CROSSINGS



STREET CROSSINGS



GERMANTOWN PARKWAY CROSSING

SHELBY FARMS GREENLINE - EAST EXTENSION

TETRA TECH / RITCHIE SMITH ASSOCIATES JULY 2, 2013 SCALE: 1" = 30'

STREET CROSSINGS



UNDERGROUND UTILITIES



BRANDING & WAYFINDING



OTHER ACTIVATION IDEAS



SPLASH PADS



CLIMBING BOULDERS OR LOGS



SKATE PARKS



GRASSY PLAY MOUNDS



MUSIC/ FOOD TRUCKS



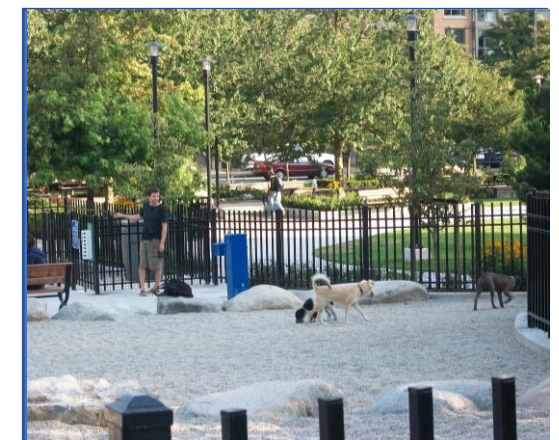
BOCCE COURTS



SWINGS



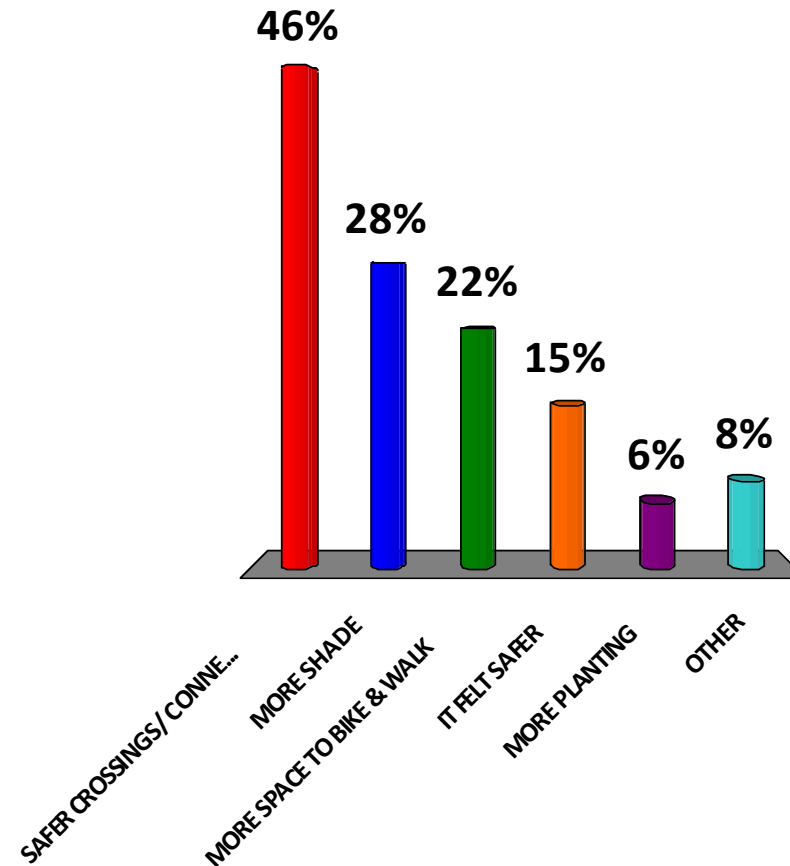
DOG PARKS



LET'S HEAR FROM YOU

I WOULD USE THE GREENWAY/BIKEWAY MORE IF... (CHOOSE UP TO THREE)

- A. SAFER CROSSINGS/ CONNECTIONS
- B. MORE SHADE
- C. MORE SPACE TO BIKE & WALK
- D. IT FELT SAFER
- E. MORE PLANTING
- F. OTHER



NEXT QUESTION

WHICH ARE MOST IMPORTANT TO YOU?

(CHOOSE UP TO THREE)

A. SHADE

B. WATER STATIONS

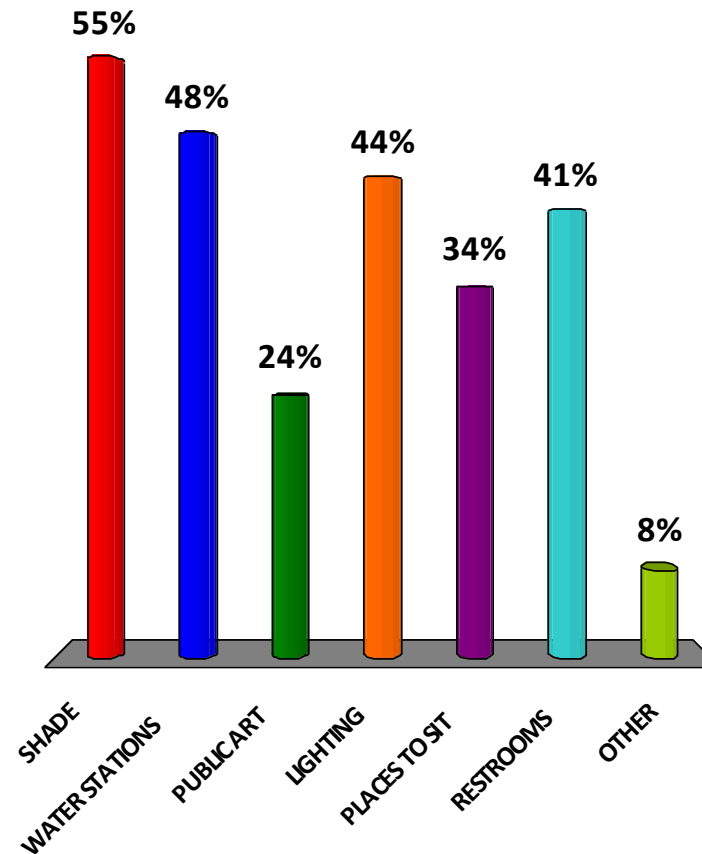
C. PUBLIC ART

D. LIGHTING

E. PLACES TO SIT

F. RESTROOMS

G. OTHER



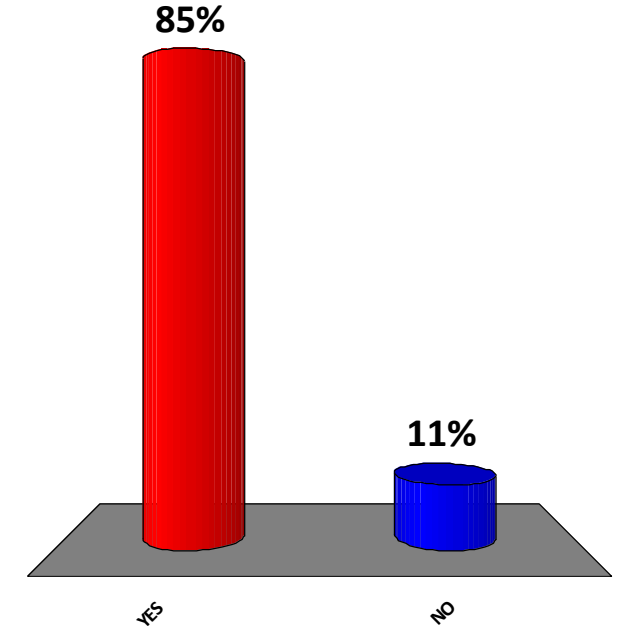
NEXT QUESTION

WOULD YOU LIKE TO EAT OVERLOOKING THE GREENWAY OR BIKEWAY?



A. YES

B. NO



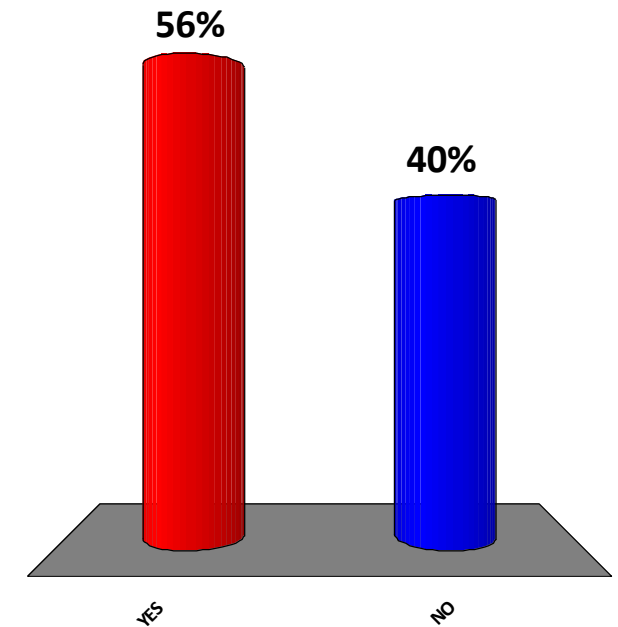
NEXT QUESTION

WOULD YOU LIKE TO LIVE OVERLOOKING THE GREENWAY OR BIKEWAY?



A. YES

B. NO



NEXT QUESTION

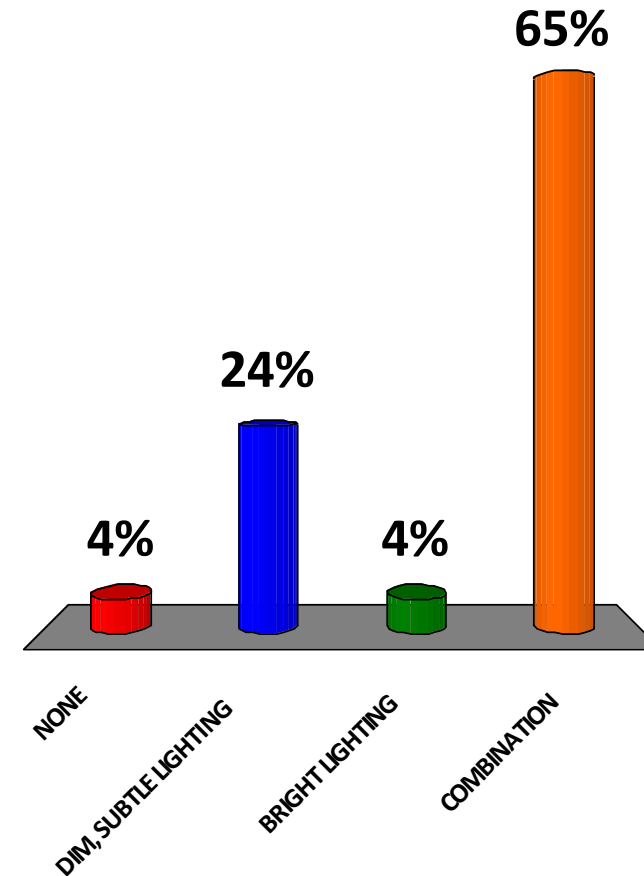
WHAT KIND OF LIGHTING?

A. NONE

B. DIM, SUBTLE LIGHTING

C. BRIGHT LIGHTING

D. COMBINATION

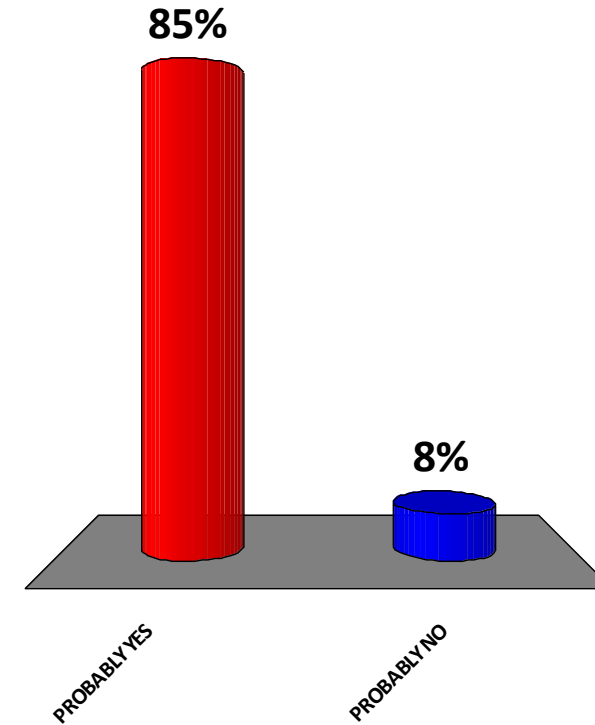


NEXT QUESTION

WILL YOU COME TO FUTURE MEETINGS?

A. PROBABLY YES

B. PROBABLY NO



EXERCISE



DESIGN ELEMENTS EXERCISE

NEXT STEPS ...



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QUESTION OR CONCERNS...



Email: planning@CharlestonParksConservancy.org