



Merced Avenue Greenway Project Design Alternative Selection

Year-long planning and design project that will address several core issues:

- Water quality,
- Heat reduction,
- Public safety, and livability.

TIPOS DE MEJORAS IMPROVEMENT TYPES



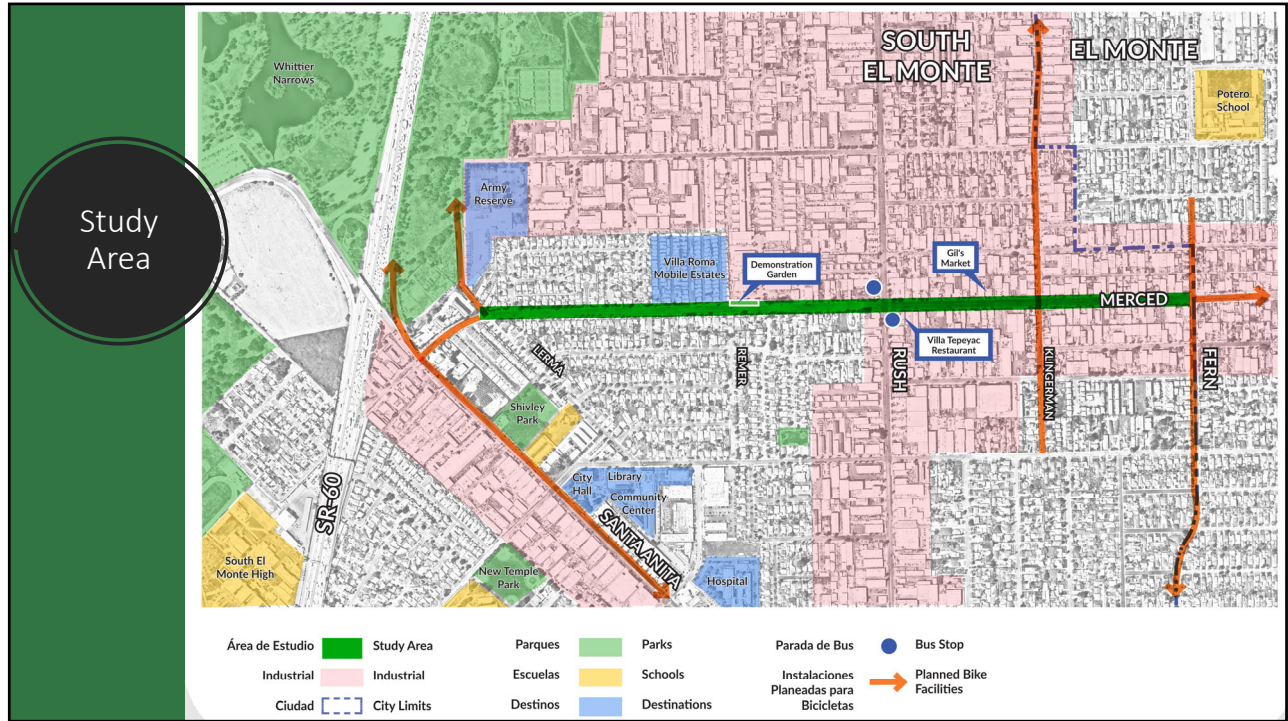
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|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 NEW TREES</p> <ul style="list-style-type: none"> • Create shade to lower temperatures • Clean water and air | <p>ÁRBOLES NUEVOS</p> <ul style="list-style-type: none"> • Crean sombras para bajar las temperaturas • Limpian el agua y el aire | <p>3 ELEVATED BIKE LANES</p> <ul style="list-style-type: none"> • Reduce collisions by separating modes • Are comfortable for all ages and abilities | <p>CARRILES DE BICICLETAS ELEVADOS</p> <ul style="list-style-type: none"> • Reducen las colisiones al separar los modos • Son cómodos para todos los edades y habilidades | <p>5 NEW CROSSINGS</p> <ul style="list-style-type: none"> • Connect people to destinations • Calm traffic | <p>CRUCES NUEVOS</p> <ul style="list-style-type: none"> • Unen a las personas con sus destinos • Calman el tráfico |
| <p>2 PLANTED AREAS</p> <ul style="list-style-type: none"> • Capture, slow, and treat runoff • Beautify our community | <p>ÁREAS PLANTADAS</p> <ul style="list-style-type: none"> • Capturan, disminuyen y tratan la escorrentía • Embellecen nuestra comunidad | <p>4 CONFLICT STRIPING</p> <ul style="list-style-type: none"> • Alerts those biking to vehicles crossing • Reminds those driving to watch for bikes | <p>ELIMINACIÓN DE CONFLICTOS</p> <ul style="list-style-type: none"> • Alerta a los ciclistas de vehículos que cruzan • Recuerdan a los conductores que deben estar atentos a las bicicletas | <p>6 PARKING PROTECTED BIKE LANES</p> <ul style="list-style-type: none"> • Alerts those biking to vehicles crossing • Reminds those driving to watch for bikes | <p>CARRILES PROTEGIDOS CON ESTACIONAMIENTO</p> <ul style="list-style-type: none"> • Alerta a los ciclistas de vehículos que cruzan • Recuerdan a los conductores que deben estar atentos a las bicicletas |

Improvement
Options



<http://www.mercedavegreenway.org/>







Water Quality –
Bioretention, Infiltration,
and Permeable Pavements



Sidewalks and Curb Ramps

DISEÑO DE ALTERNATIVAS DESIGN ALTERNATIVES

Design Options

A PARKING PROTECTED BIKE LANE
CARRIL DE BICICLETA PROTEGIDO CON ESTACIONAMIENTO

LESS: MORE: Gallons of Water Captured, New Landscape, New Street Trees, Cost, Parking Availability

RESUMEN DEL PROYECTO
Se agrega un carril para bicicletas al mismo nivel que la carretera. Camión estacionados separan a los coches de los carriles en movimiento.

Esta opción minimiza el costo manteniendo la acera donde está hoy y captura de agua se produce principalmente en la franja divisoria.

MÁS: MENOS: Galones de Agua Capturados, Paisaje Nuevo, Árboles Nuevos De La Calle, Costo, Estacionamiento

B ELEVATED BIKE LANE
CARRIL DE BICICLETA ELEVADO

LESS: MORE: Gallons of Water Captured, New Landscape, New Street Trees, Cost, Parking Availability

RESUMEN DEL PROYECTO
Las bicicletas viajan en una zona para bicicletas elevada al mismo nivel que la acera.

Esta opción crea nuevo espacio para árboles y plantas, mejorando oportunidades para limpiar el agua y el aire mientras que proporciona sombra.

MÁS: MENOS: Galones de Agua Capturados, Paisaje Nuevo, Árboles Nuevos De La Calle, Costo, Estacionamiento

C STANDARD BIKE LANE
CARRIL DE BICICLETA ESTANDAR

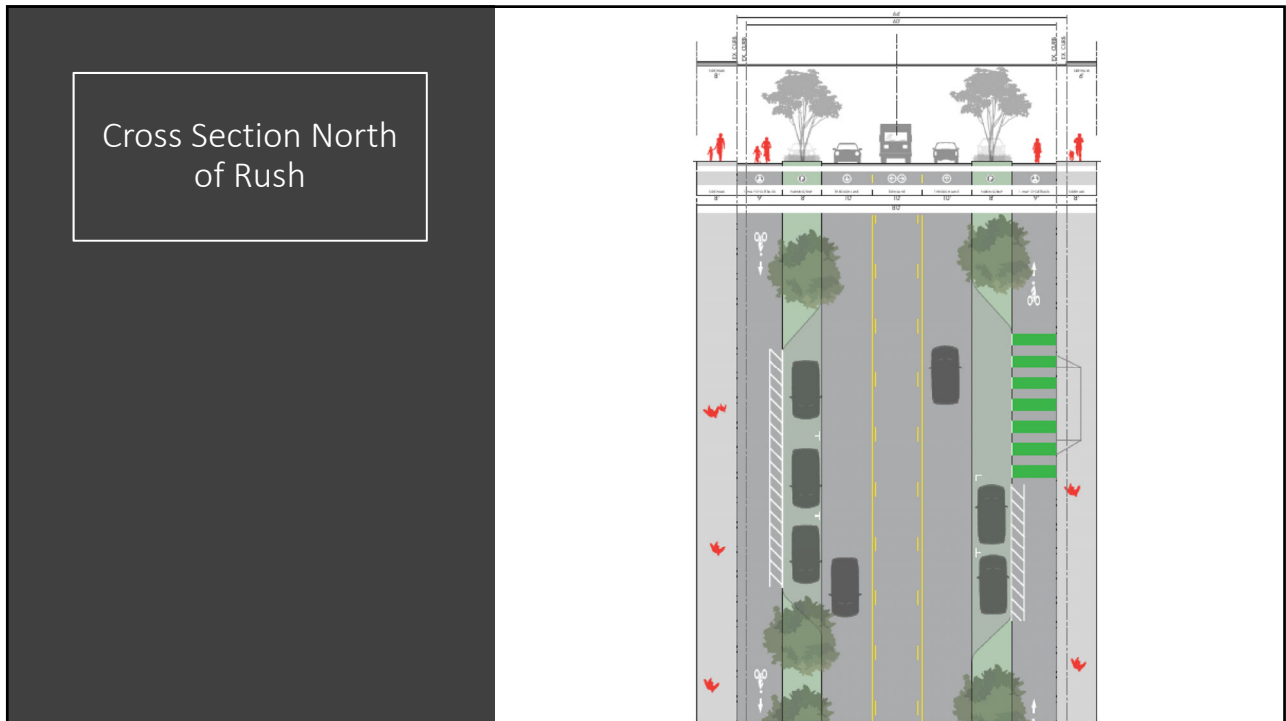
LESS: MORE: Gallons of Water Captured, New Landscape, New Street Trees, Cost, Parking Availability

RESUMEN DEL PROYECTO
Se agrega un carril para bicicletas estrecho entre los carriles de estacionamiento y de viaje.

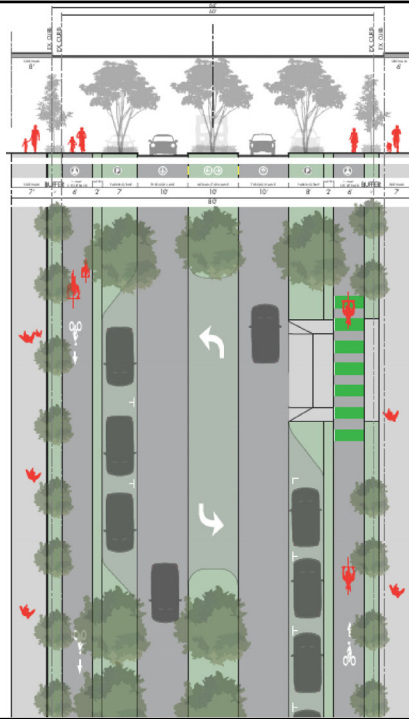
Captura de agua se produce principalmente a través de permeabilidad permeable; pocas oportunidades para el nuevo paisaje.

MÁS: MENOS: Galones de Agua Capturados, Paisaje Nuevo, Árboles Nuevos De La Calle, Costo, Estacionamiento

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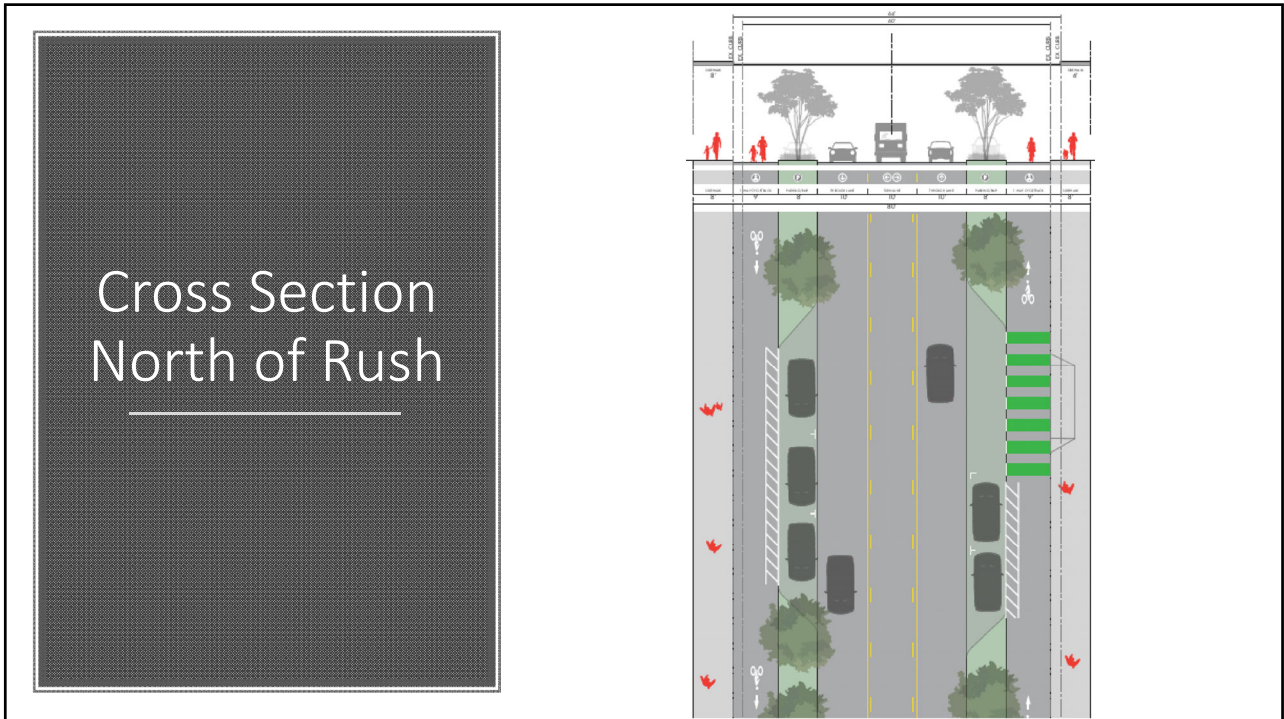
Cross Section South of Rush

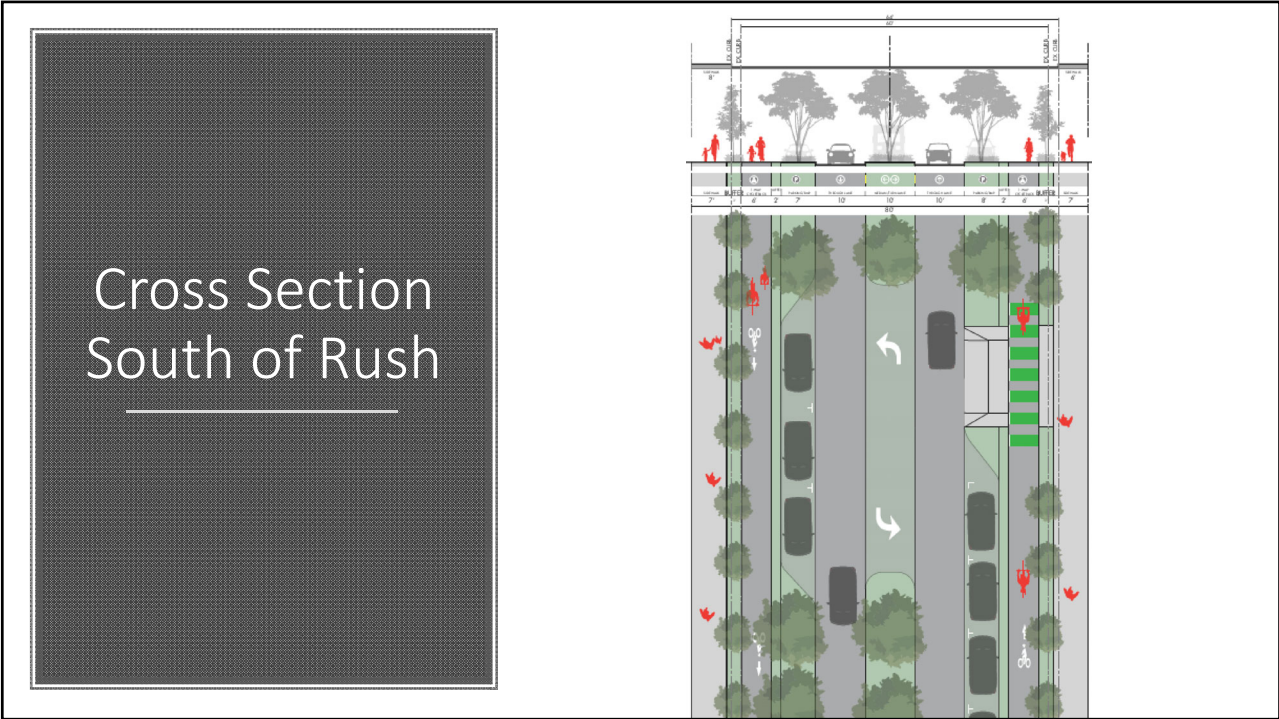


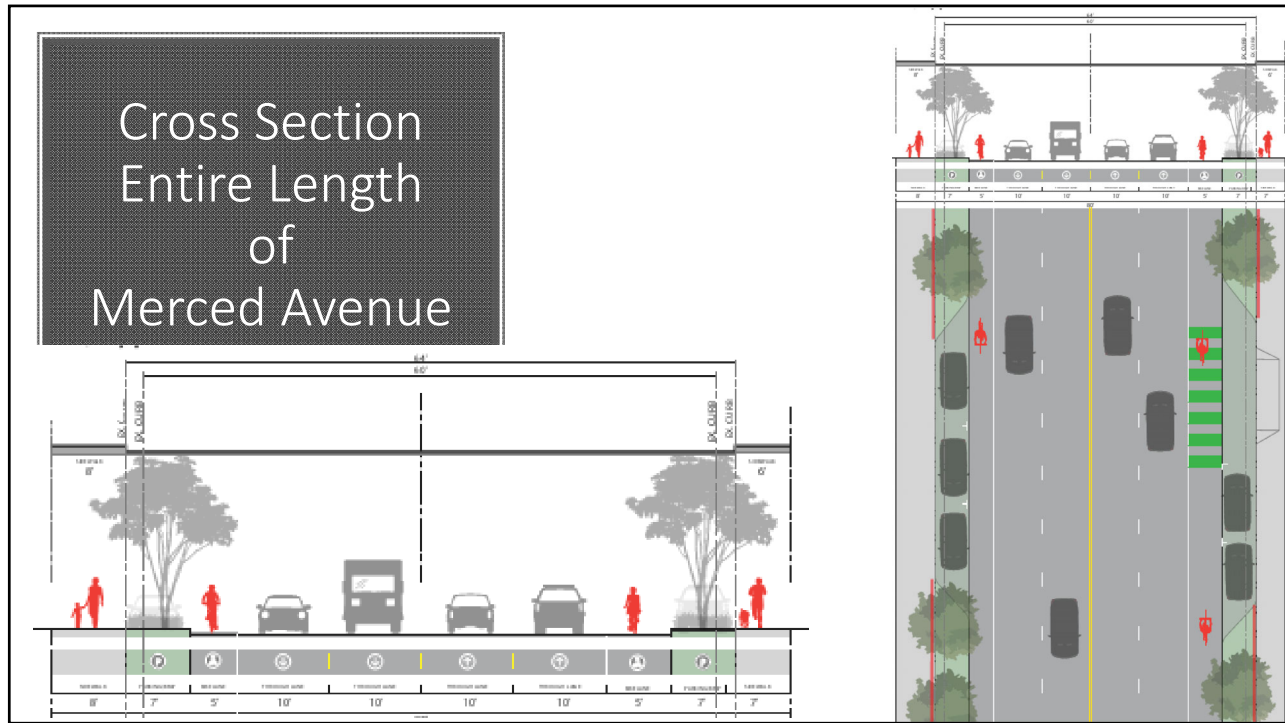
Design Option B – Elevated Bikeway



	LESS	MORE
Gallons of Water Captured	●●●●	●●●●●●
SF New Landscape	●●●●	●●●●●●
New Street Trees	●●●●	●●●●●●
Cost	●●●●	●●●●●●
Parking Availability	●●●●	●●●●●●







Parking
Capacity
per Block

Corridor Segment	Existing Supply West	Design Supply West	Gain/Loss West	% Change West	Existing Supply East	Design Supply East	Gain/Loss East	% Change East
Fern to Klingerman	30	14	-16	-53.33%	34	19	-15	-44.12%
Klingerman to Rush	21	14	-7	-33.33%	29	21	-8	-27.59%
Subtotal Industrial	51	28	-23	-45.10%	63	40	-23	-36.51%
Rush to Remer	17	12	-5	-29.41%	35	23	-12	-34.29%
Remer to Alicia (assumes parallel parking)	14	13	-1	-7.14%	17	12	-5	-29.41%
Alicia to Adelita	14	13	-1	-7.14%	10	3	-7	-70.00%
Adelita to La Madrina	25	25	0	0.00%	19	8	-11	-57.89%
La Madrina to Lerma	4	2	-2	-50.00%	6	5	-1	-16.67%
Subtotal Residential	74	65	-9	-12.16%	87	51	-36	-41.38%
Grand Total Parallel	125	93	-32	-25.60%	150	91	-59	-39.33%

Alternatives A/B - without sight triangles		WEST SIDE				EAST SIDE			
CORRIDOR SEGMENT	Existing Supply - West	Design Supply - West	Gain/Loss West	% Change West	Existing Supply - East	Design Supply - East	Gain/Loss East	% Change East	
Fern to Klingerman	30	29	-1	-3.33%	34	32	-2	-5.88%	
Klingerman to Rush	21	19	-2	-9.52%	29	27	-2	-6.90%	
SUBTOTAL INDUSTRIAL	51	48	-3	-5.88%	63	59	-4	-6.35%	
Rush to Remer - assumes removal of red curb in front of demonstration garden	17	23	6	35.29%	35	33	-2	-5.71%	
Remer to Alicia - (assumes parallel parking + partial removal of red curb north of Alicia - + 2 spots E and W sides of street)	14	14	0	0.00%	17	17	0	0.00%	
Remer to Alicia - assumes head-in parking	14	32	18	128.57%	17	17	0	0.00%	
Alecia to Adelita	14	14	0	0.00%	10	9	-1	-10.00%	
Adelita to La Madrina	25	25	0	0.00%	19	25	6	31.58%	
La Madrina to Lerma	4	3	-1	-25.00%	6	6	0	0.00%	
SUBTOTAL RESIDENTIAL - parallel	74	79	5	6.76%	87	90	3	3.45%	
SUBTOTAL RESIDENTIAL - head-in	74	97	23	31.08%	87	90	3	3.45%	
	Existing Supply - West	Design Supply - West	Gain/Loss West	% Change West	Existing Supply - East	Design Supply - East	Gain/Loss East	% Change East	
SUBTOTAL (parallel)	125	127	2	1.60%	150	149	-1	-0.67%	
TOTAL (head-in)	125	145	20	16.00%	150	149	-1	-0.67%	
	Existing Supply - West + East Combined	Design Supply - West + East Combined	Gain/Loss West + East Combined	% Change West + East Combined					
CORRIDOR TOTAL (parallel)	275	276	1	0.36%					
CORRIDOR TOTAL (head-in)	275	294	19	6.91%					

Parking Capacity per Block

PALETAS DE PLANTAS PLANT PALETTES



Este proyecto **capturara y tratara aguas pluviales** utilizando áreas plantadas para retardar y limpiar escorrentía. Estas áreas plantadas **embellecerán la avenida Merced, calmarán el tráfico y reducirán las temperaturas**. Cada una de las tres opciones de paletas de plantas ayudarán a lograr estas metas, pero cada una con una apariencia distinta. **Vota por tu favorita a continuación.**

This project will **capture and treat stormwater** using planted areas to slow and clean runoff. These planted areas will **beautify Merced Avenue, calm traffic, and reduce temperatures**. Each of the three plant palette options below will help achieve these goals, but each as a distinct look and feel. **Vote for your favorite below.**

Plant Palettes

A

LA Zoo

The Arroyo Canyon palette evokes a naturalistic, park-like feel with textured grasses and flowering shrubs, emphasizing native and drought-tolerant.

La paleta de Arroyo Canyon evoca una sensación natural, similar a un parque, con texturas de hierbas y arbustos en flor.

- White Alder
Alnus rhombifolia
- Wild Rye
Leymus condensatus
- Cleveland Sage
Salvia clevelandii

B

El Centro

The California Garden palette is semi-formal in style, mixing plantings you might find in your home garden with drought-tolerant natives.

La paleta de California Garden es de estilo más o menos formal, mezclando plantaciones que puede encontrar en su jardín con plantas nativas tolerantes a la sequía.

- Coast Live Oak
Quercus agrifolia
- Southern California Lilac
Leanothus spp.
- Douglas Iris
Iris douglasiana

C

Modern

The Modern plant palette has more formal approach to planting layout with a more limited selection of plantings for a uniform aesthetic.

La paleta de plantas moderna es más formal para el diseño de la siembra uniforme, con menos opciones.

- Palo Verde
Cercidium x Desert Museum
- Foxtail Agave
Agave attenuata
- Gold Lantana
Lantana x New Gold

<http://www.mercedavegreenway.org/>



Arroyo Canyon Plant Palette



White Alder
Alnus rhombifolia



Wild Rye
Leymus condensatus



Cleveland Sage
Salvia clevelandii

California Garden Plant Palette



Coast Live Oak
Quercus agrifolia



Southern California Lilac
Ceanothus spp.



Douglas Iris
Iris douglasiana

Modern Plant Palette



Palo Verde
Cercidium x 'Desert Museum'

Foxtail Agave
Agave attenuata

Gold Lantana
Lantana x 'New Gold'

Estimated Construction Costs

	Alternative A	Alternative B	Alternative C
Mobilization and Demobilization (5% of Costs)	\$368,465	\$495,511	\$192,817
Site Preparation and Demolition	\$810,901	\$870,121	\$175,847
Pavement	\$1,530,091	\$3,638,421	\$957,889
Signals and Signage	\$732,459	\$787,311	\$175,265
Landscape and Irrigation Modifications	\$1,577,308	\$1,488,090	\$481,810
Water Quality Treatment	\$2,148,522	\$2,429,260	\$1,707,514
Utilities	\$248,000	\$475,000	\$148,000
Temporary Traffic Control	\$300,000	\$200,000	\$200,000
Start-up, Testing, O&M Manuals, and Record Drawings	\$22,000	\$22,000	\$10,000
Base Estimated Construction Cost	\$7,737,747	\$10,405,714	\$4,049,141
Design Contingency (25%)*	\$1,934,437	\$2,081,143	\$1,012,285
Total	\$9,672,183	\$12,486,857	\$5,061,427

*20% Design contingency applied to Alternative B

Community Benefits

for HEALTH

60 MINUTES Children and adolescents should have 60 minutes (1 hour) or more of physical activity daily.

Nearly 1 in 4 Adults in Los Angeles County are OBESE.

Each additional hour per day spent in the car INCREASES IN THE LIKELIHOOD OF OBESITY by 6%

for the ENVIRONMENT

The number of extreme heat days (days above 95°F) are expected to double—and even triple—in the LA area over the next 20-40 years

In a year, a mature oak tree can capture and treat more than 3,600 gallons of water

for EQUITY

30% of BUDGET SPENT on TRANSPORTATION Families with incomes under \$50,000 per year spend an average of 30% of their budget on transportation.

FATALITY RATE 30% HIGHER FOR AFRICAN-AMERICAN BICYCLISTS 23% HIGHER FOR HISPANIC BICYCLISTS The fatality rate for bicyclists is 23% higher for Hispanic than white bicyclists and 30% higher for African American than white bicyclists.

Questions?

