





Additional landscape material, planted to meet bold landscape design objectives, are located within the Interchange in Zone A in space created Enhanced landscape plantings are established along the north side of NW 14th Street. This area will be dense with native and Florida friendly trees, shrubs and groundcovers to create a visual buffer to the adjacent Youth Center. Zone 1 includes several enhancements to support community activities. These include the outdoor amphitheater (APTE 10) between NW 2nd Avenue and NW 1st Place, the interactive water feature (APTE 11), the children's play area (APTE 21), and talking/viewing tubes (APTE Additional community activity spaces in Zone 1 include the community garden (APTE 13) south of NW 13th Street, a multipurpose court (APTE 19) and outdoor training equipment (APTE 71) north of the Trail east of NW 1st Court, and the passive recreation area (APTE 70)

The rich history of Overtown is celebrated in sculptures and public art installations (APTE 16) in select locations along the Heritage Train Specific installations, to be commissioned as described in the approved APTE attachment are defined for the Market Plaza, along the Trail west of NW 2nd Avenue, surrounding the fountain, and in the passive recreation areas to the north of the fountain. Additional art installations are provided as ceramic tile murals on piers (APTE 80) in select locations. • The Heritage Trail, Market Square, pathways, and plaza areas are all improved with enhanced pavement treatments (APTE 7). Highly durable, stamped, integral color concrete in three colors in patterns reflecting those used in West African Kente cloth is used to enhance pedestrian connectivity and overall pavement aesthetics. Pedestrian access and safety is enhanced through traffic calming measures along NW 14th street and adjacent streets (APTE 6). These enhancements provide continuity along the Trail and safer pedestrian crossings through the use raised crosswalks. Further improving safety at pedestrian crossings along the Trail are **LED enhanced pedestrian crossings** (**APTE 102**) that signal the presence of pedestrians and bollards (APTE 58) to demarcate pedestrian and vehicular realms. In addition, full "shared street" enhancements for NW 14th Terrace and NW 1st Court provide for improved east-west connections and an expanded footprint for the Market Square.

• Access to places along the Heritage Trail is enhanced through the provision of **parallel parking** on key streets (**APTE 8**). This parking will be defined by crosswalk bumpouts at intersections to shorten crossing distances and improve safety.

• **Enhanced Landscape** (**APTE 14**) in the form of native and naturalized Florida friendly plant material is installed in planting beds retained by planter curbs and concrete benches. Irrigation is provided for areas under the structure. Planting includes canopy trees, small trees, triple palms, large shrubs, small shrubs, and ground cover.

• Supporting activity along the Heritage Trail are the following streetscape furnishings: trash and recycling bins (APTE 61), bicycle racks (APTE 62), drinking fountains (APTE 63), wayfinding signage (APTE 64), and cast stone benches (APTE 67). As indicated in the approved APTE

attachment these furnishings are located to support planned activity and selected based on their quality, durability, and minimal maintenance requirements

Aesthetic lighting enhancements above base line requirements are described below:

In-ground pavement lighting along the Heritage Trail (APTE 2) is used to lead the visitor through a continuous path between Zones 1, 2, and Lighting of planting (APTE 81) in select areas with LED fixtures mounted flush with grade is used to highlight native tree and shrub plantings Additional period street lamps (APTE 68) are provided along NW 14th Street to match the double-headed pedestrian street lamps currently

Lighting for public art throughout the Heritage Trail will highlight and complement each individual art piece for appreciation at night.(APTE 84).

Enhancements above base line requirements are described below:

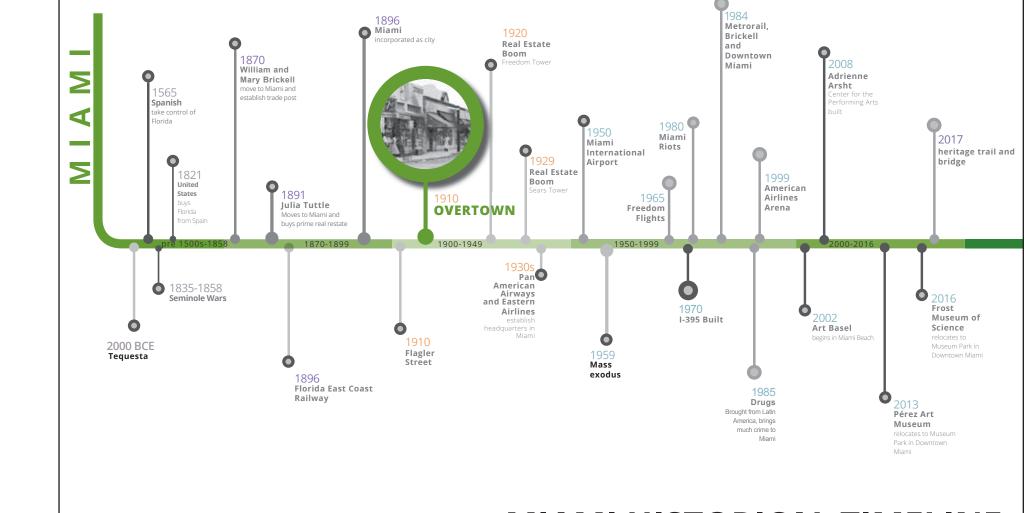
• White LED lighting is provided to illuminate the vertical surfaces of each of the major abutment walls within the zone. These serve to highlight intended to give more flexibility in placement to achieve organic shapes and shadows. span, brighter spaces along the trail during daylight hours, and less reflected noise from local traffic.

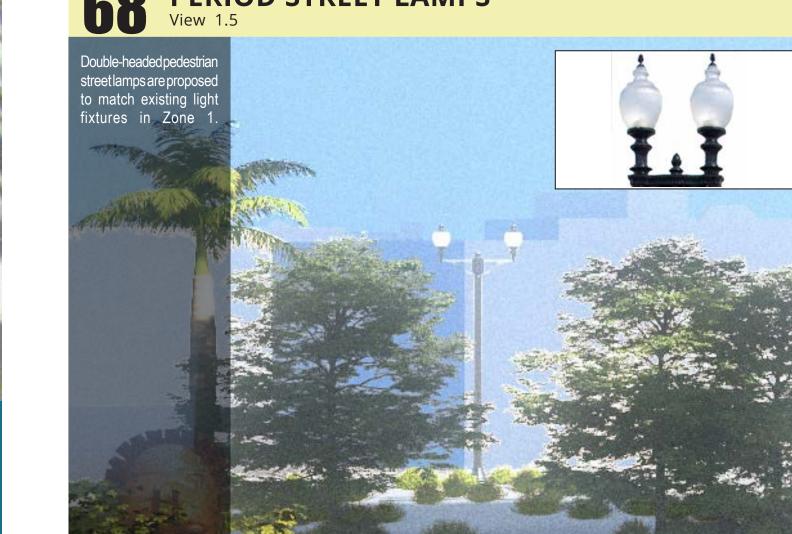




SUPERSTRUCTURE, PIERS & WALLS

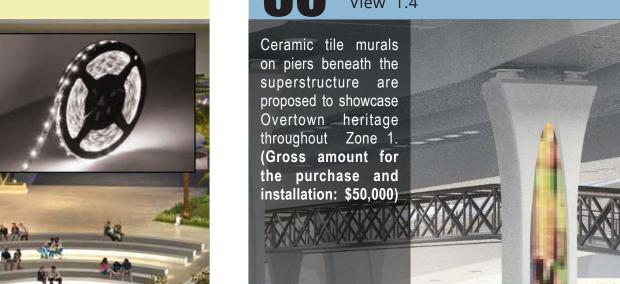
• Enhanced MSE wall panels (APTE 78) are used on the MSE walls west of NW 3rd Avenue to match enhanced treatments on the walls in Zones 2 and 3. The enhanced panels have a relief depth of 3" to maximize visual intrigue and deter graffiti and vandalism. Patterns are

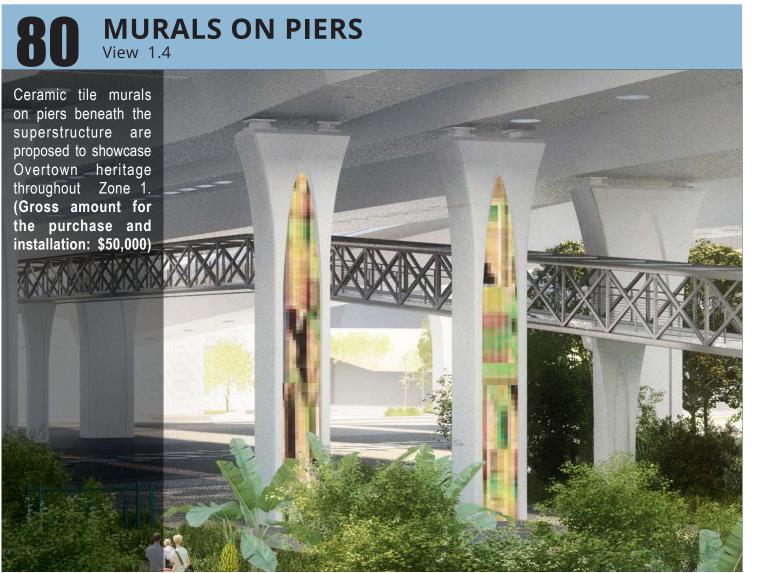






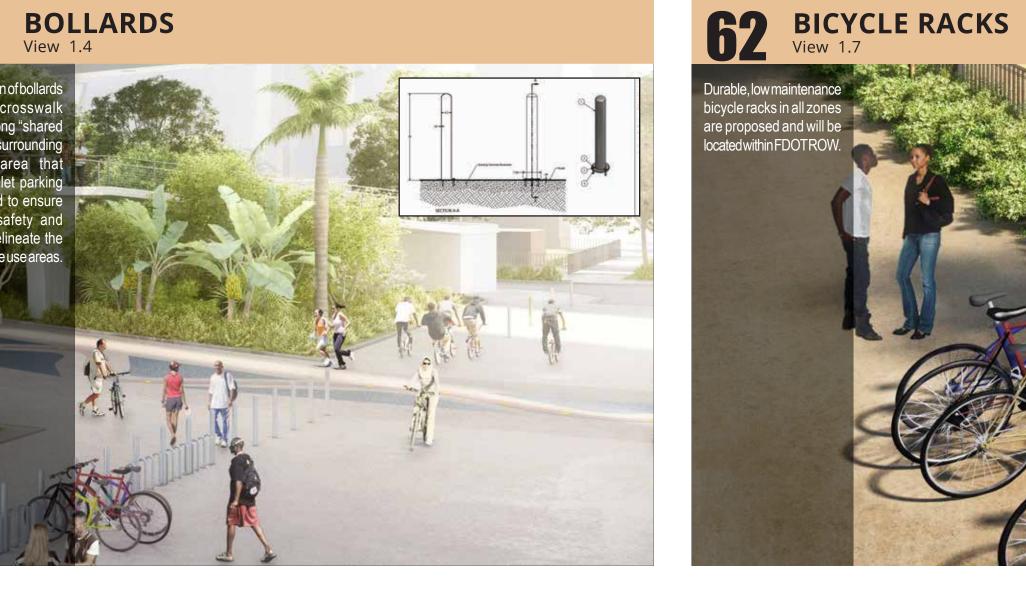


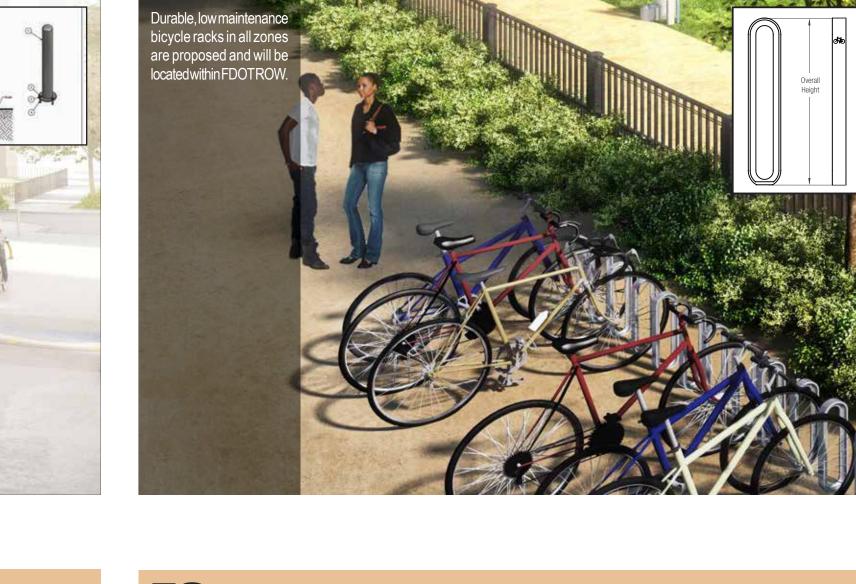






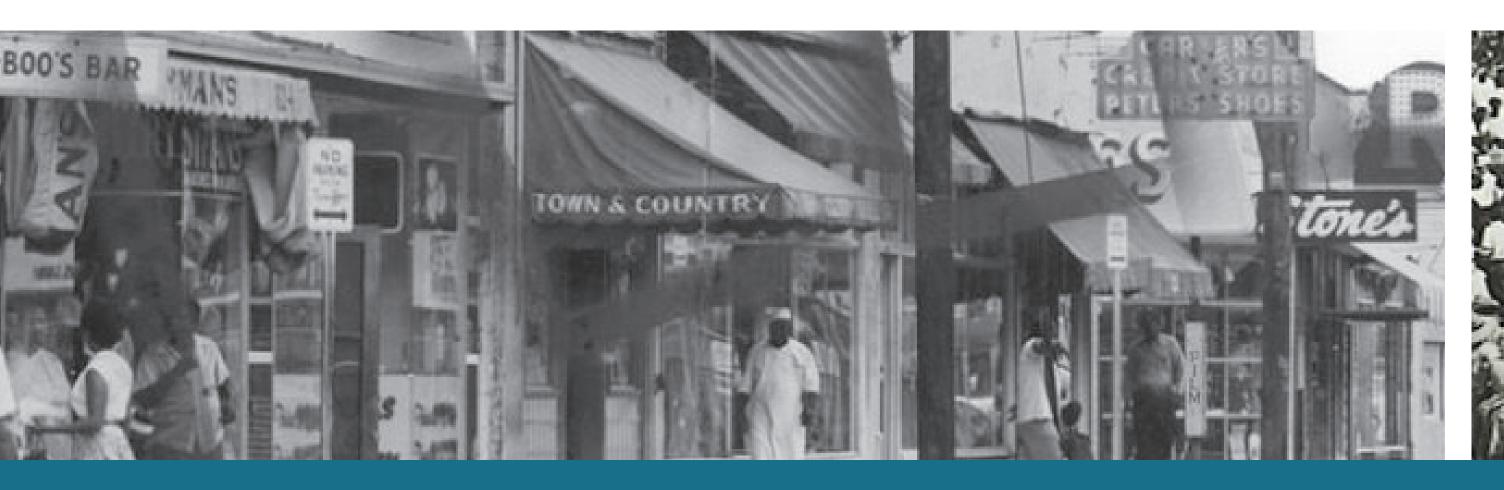






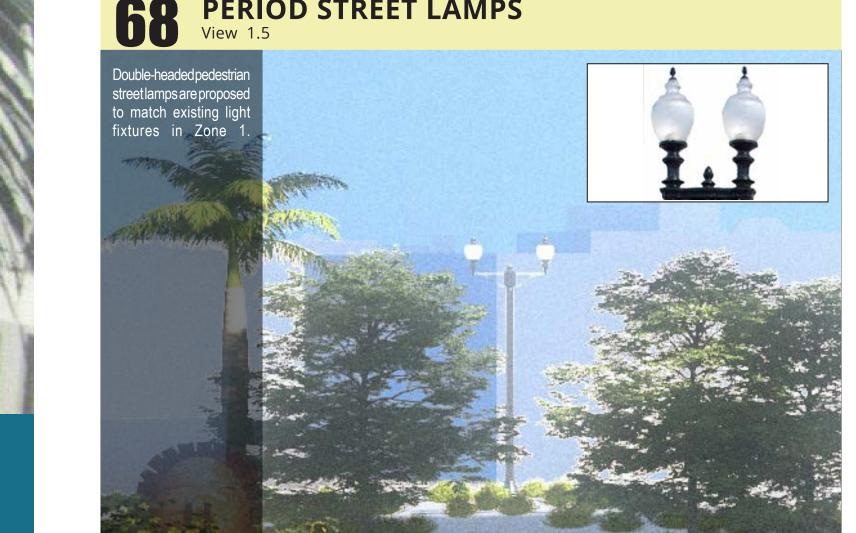


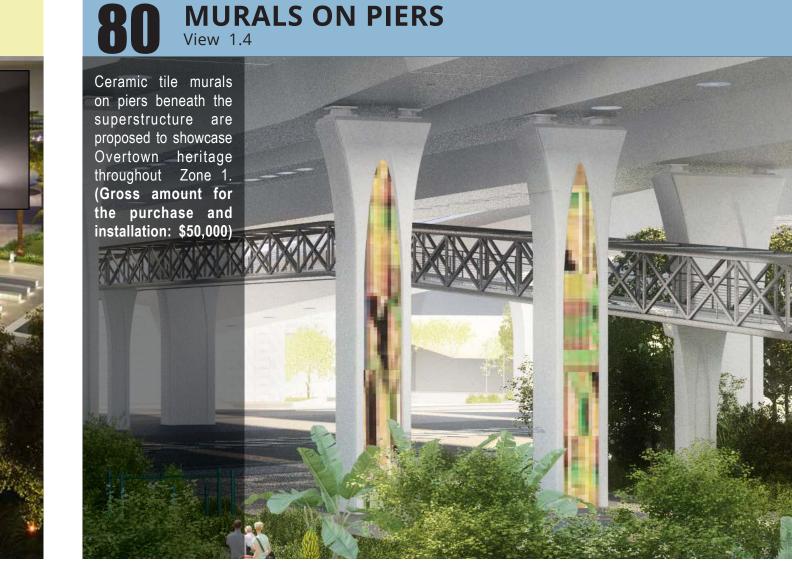




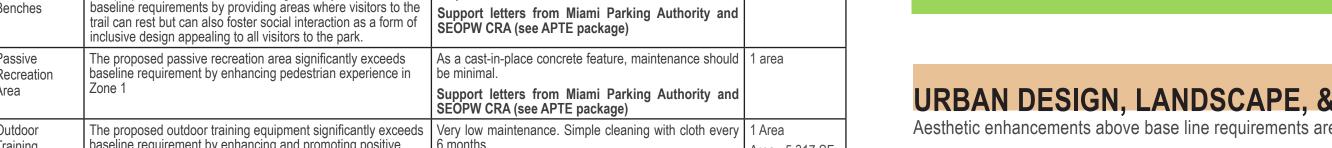












Support letters from Miami Parking Authority and (Turf) Very low maintenance. Simple cleaning with cloth every 2 Tubes Support letters from Miami Parking Authority and

Playground baseline requirements by providing children a place to play and 6 months. explore their creativity on heritage trail. Support letters from Miami Parking Authority and SEOPW CRA (see APTE package)

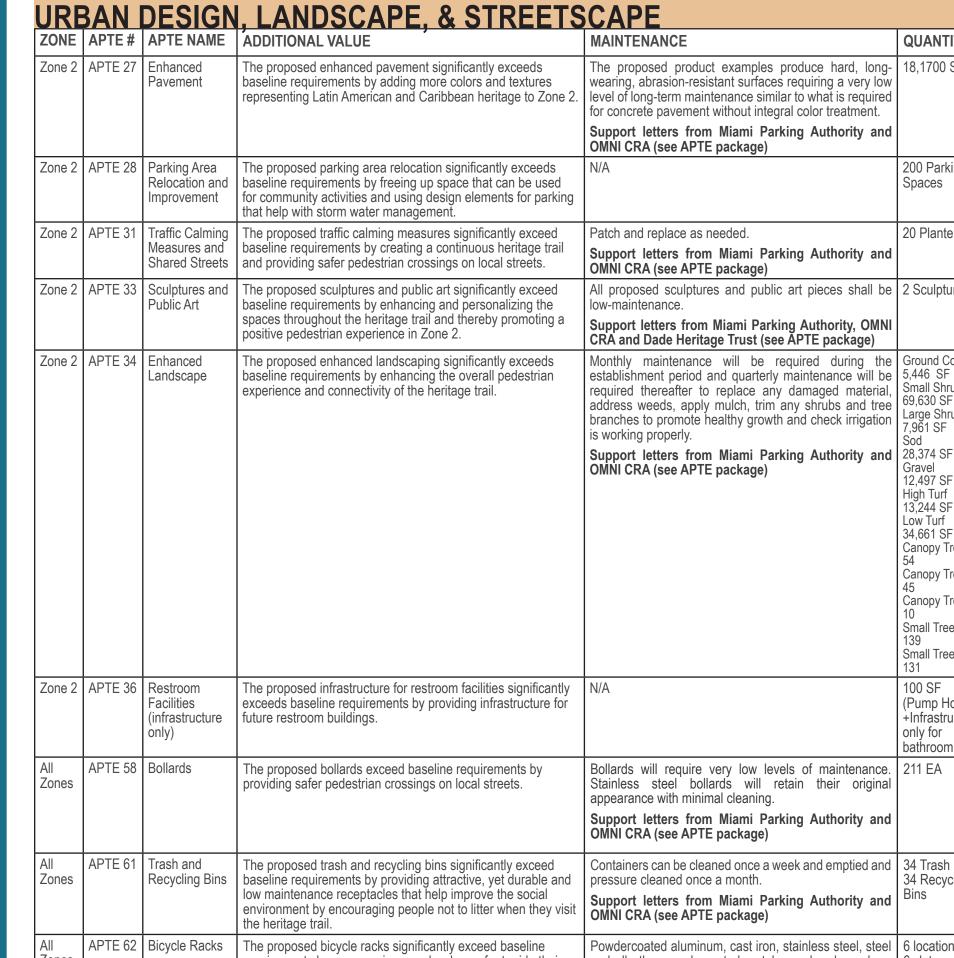
et The proposed period street lamps significantly exceed baseline requirements by adequately lighting areas in Zone 1 while reached the end of their life or failure. Provide luminaires maintaining a scale that enhances the pedestrian experience with a yearly cleaning. The proposed lighting for plantings significantly exceeds LEDs and drivers can be replaced after they have 60 round Plantings | baseline requirements by highlighting the beautiful landscape | reached the end of their life or failure. Luminaires require | ingrade uplights | that helps to enhance the pedestrian experience along the trail | annual cleaning. Water Feature | the attractive design elements of the interactive water feature | be pre-programmed for automatic control but the control | LED | for an equally enjoyable pedestrian experience of this area at settings can be changed temporarily or permanantly by persons mainting the system. Luminaires require annual

exceeds baseline requirements by enhancing the design reached the end of their life or failure. Luminaires will step lights at the end of their life or failure. elements, ensuring safety, and allowing for activities to be held require annual cleaning. to the pieces and art and allowing them to be appreciated at with a yearly cleaning. exceeds baseline requirements by increasing the safety to signal head replacement. Maintenance costs are of pedestrians and cyclists visiting the trail at night and simultaneously enhancing the connectivity of the trail.

adding an aesthetic component to an otherwise unrelieved

s on Piers | The proposed murals on piers significantly exceed baseline | Low maintenance murals with anti-graffiti coating will | 16 locations requirements by enhancing the pedestrian experience by allow for pressure cleaning. adding art and color to various superstructure piers and adding an additional source to depict the historic component of the

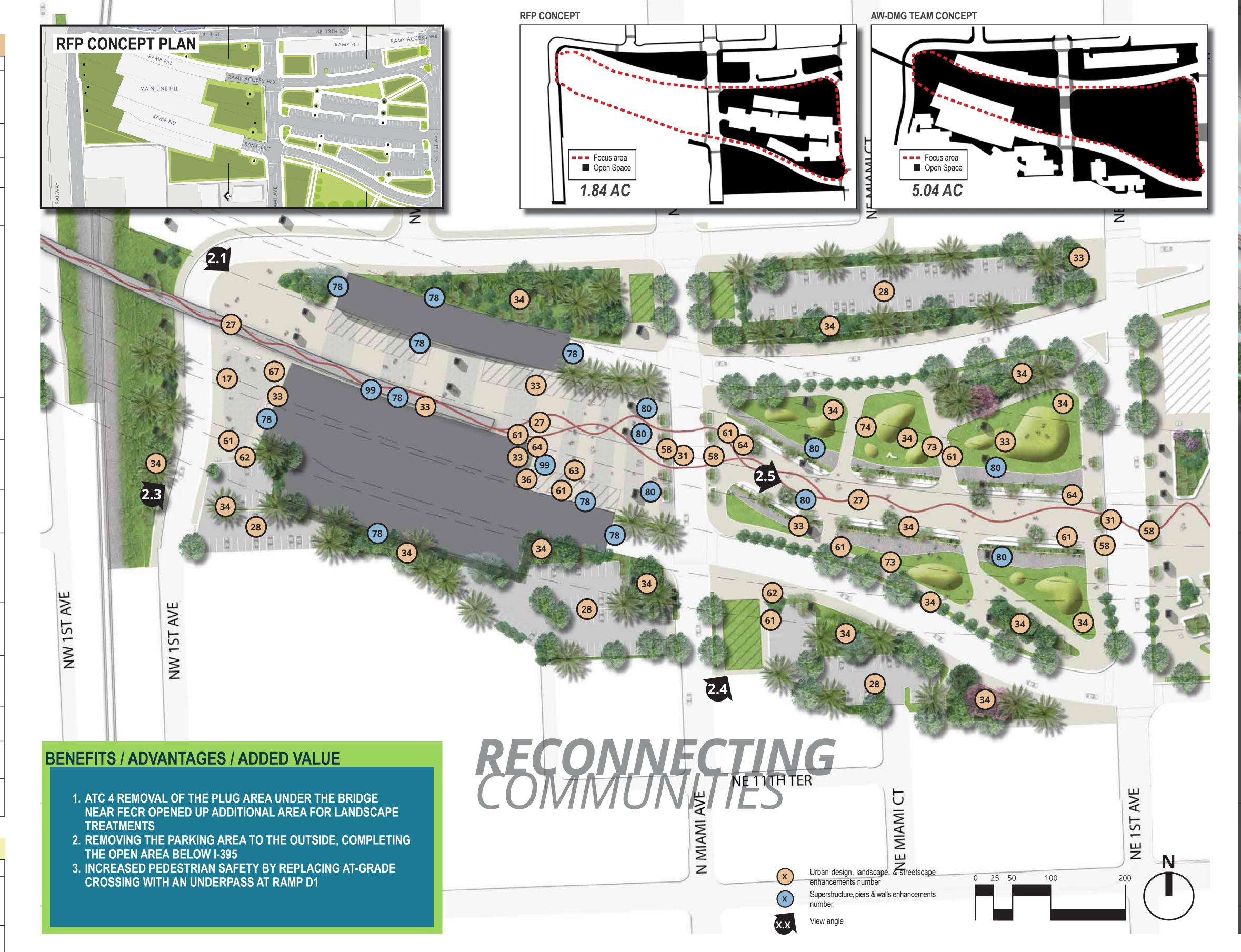
Support letters from Miami Parking Authority, SEOPW CRA, Dade Heritage Trust and Black Archives History and Reasearch Foundation of SFL(see APTE package) The proposed legacy wall panels significantly exceed baseline | Low maintenance ceramic murals with anti-graffiti coating | 5 kg CRA, Dade Heritage Trust and Black Archi



Zone 2	APTE 36	Restroom Facilities (infrastructure only)	The proposed infrastructure for restroom facilities significantly exceeds baseline requirements by providing infrastructure for future restroom buildings.	N/A
All Zones	APTE 58	Bollards	The proposed bollards exceed baseline requirements by providing safer pedestrian crossings on local streets.	Bollards will require very low levels of maintenance. Stainless steel bollards will retain their original appearance with minimal cleaning. Support letters from Miami Parking Authority and OMNI CRA (see APTE package)
All Zones	APTE 61	Trash and Recycling Bins	The proposed trash and recycling bins significantly exceed baseline requirements by providing attractive, yet durable and low maintenance receptacles that help improve the social environment by encouraging people not to litter when they visit the heritage trail.	Containers can be cleaned once a week and emptied and pressure cleaned once a month. Support letters from Miami Parking Authority and OMNI CRA (see APTE package)
All Zones	APTE 62	Bicycle Racks	The proposed bicycle racks significantly exceed baseline requirements by encouraging people who prefer to ride their bicycles to comfortably visit the trail by finding sufficient and adequate parking for their bicycles.	Powdercoated aluminum, cast iron, stainless steel, steel and all other powdercoated metals can be cleaned, as needed, using a soft brush or cloth with warm water and a mild detergent. Do not use harsh abrasives, acids or chlorine-based cleaners or cleaning tools containing carbon steel, such as steel wool or wire brushes.
				Support letters from Miami Parking Authority and OMNI CRA (see APTE package)
All Zones	APTE 63	Drinking Fountains	The proposed drinking fountains significantly exceed baseline requirements by providing attractive, durable, and user-friendly fountains at frequent locations that accommodate every visitor to the heritage trail.	Maintenance requirements include valve adjustment, cartridge replacement, inspection and cleaning of submersible pump, and regular cleaning of drains and surfaces.
				Support letters from Miami Parking Authority and OMNI CRA (see APTE package)
All Zones	APTE 64	Wayfinding Signage	The proposed wayfinding signage significantly exceeds baseline requirements by providing beautiful signs and displays that improve enjoyment and understanding of the heritage trail, improving accessibility and safety for all users, encourage visitors to experience more areas, and allow easy navigation throughout the trail.	Very low maintenance. Simple cleaning with cloth every 6 months. Support letters from Miami Parking Authority and OMNI CRA (see APTE package)
All Zones	APTE 67	Cast Stone Benches	The proposed cast stone benches significantly exceed baseline requirements by providing areas where visitors to the	Very low maintenance.

			navigation throughout the trail.		
All Zones	APTE 67	Cast Stone Benches	The proposed cast stone benches significantly exceed baseline requirements by providing areas where visitors to the trail can rest but can also foster social interaction as a form of inclusive design appealing to all visitors to the park.	Very low maintenance. Support letters from Miami Parking Authority and OMNI CRA (see APTE package)	42 EA
All Zones	APTE 73	Talking / Viewing Tubes	The proposed talking/viewing tubes significantly exceed baseline requirements by providing children a place to play and explore their creativity on heritage trail.	Very low maintenance. Simple cleaning with cloth every 6 months. Support letters from Miami Parking Authority and	
All Zones	APTE 74	Musical Playground	The proposed musical playground significantly exceeds baseline requirements by providing children a place to play and explore their creativity on heritage trail.	OMNI CRA (see APTE package) Very low maintenance. Simple cleaning with cloth every 6 months. Support letters from Miami Parking Authority and OMNI CRA (see APTE package)	(EA)
A E 6	THE	TIO 1 10			
		TIC LIG	ADDITIONAL VALUE	MAINTENANCE	QUANT
All Zones	APTE 2	Pavement Lighting along Heritage Trail	The proposed pavement lighting along heritage trail significantly exceeds baseline requirements by reinforcing the directional design and providing connectivity along the heritage trail.	The light fixture is constructed of aluminum making it very durable. Light bulb replacement typically occurs every 50,000 hours. The maintenance costs are typically very low.	750 fixtu
All Zones	APTE 81	Lighting for Plantings	The proposed lighting for plantings significantly exceeds baseline requirements by highlighting the beautiful landscape that helps to enhance the pedestrian experience along the trail at night.	LEDs and drivers can be replaced after they have reached the end of their life or failure. Luminaires require annual cleaning.	
All Zones	APTE 84	Lighting for Sculptures and Public Art	The proposed lighting for sculptures and public art significantly exceeds baseline requirements by adding vertical illumination to the pieces and art and allowing them to be appreciated at night.	LEDs and drivers can be replaced after they have reached the end of their life or failure. Provide luminaires with a yearly cleaning.	
	APTE 89	Pole Mounted Luminaires for	The proposed pole mounted luminaries for parking significantly exceed baseline requirements by providing additional lighting	LEDs and drivers can be replaced after they have reached the end of their life or failure. Provide luminaires	17 EA
Zone 2		Parking	coverage in areas that need it to further improve the safety of those visiting the trail at night.	with a yearly cleaning.	

ZONE	APTE#	APTE NAME	ADDITIÓNAL VALUE	MAINTENANCE	QUAN
All Zones	APTE 78	MSE Wall Pattern	The proposed MSE wall pattern significantly exceeds baseline requirements by enhancing the pedestrian experience by adding an aesthetic component to an otherwise unrelieved surface treatment of the highway superstructure walls.	FDOT regular maintenance to typical MSE walls.	55,350
All Zones	APTE 80	Murals on Piers	The proposed murals on piers significantly exceed baseline requirements by enhancing the pedestrian experience by adding art and color to various superstructure piers and adding an additional source to depict the historic component of the heritage trail.	Low maintenance murals with anti-graffiti coating will allow for pressure cleaning. Support letters from Miami Parking Authority, OMNI CRA and Dade Heritage Trust (see APTE package)	
All Zones	APTE 99	Legacy Wall Panels	The proposed legacy wall panels significantly exceed baseline requirements by enhancing the pedestrian experience visually but also providing an additional source of cultural heritage in Zone 2.	Low maintenance ceramic murals with anti-graphitti coating allows for pressure cleaning. Support letters from Miami Parking Authority, OMNI CRA and Dade Heritage Trust (see APTE package)	5 locat 3,650 S



URBAN DESIGN, LANDSCAPE, & STREETSCAPE Aesthetic enhancements above base line requirements are described below:

• The Heritage Trail, pathways, and plaza areas in Zone 2 are all improved with enhanced pavement (APTE 27). Highly durable stamped, integral color concrete in three colors is used in patterns taking inspiration from Caribbean and Latin cultures. Treatments are designed to enhance pedestrian connectivity and overall pavement aesthetics. • Miami's rich Caribbean and Hispanic heritage is celebrated through sculptures and public art (APTE 84) placed along the Trail. Specific installations, to be commissioned as described in the approved APTE attachment, are defined for placement in the block between N Miami Avenue and NW 1st Street. Additional art installations are provided as ceramic tile murals on piers (APTE 80) in select locations.

• To activate spaces and add a dimension of play, musical playground equipment (APTE 74) will stimulate children's and adults' creativity and build a greater appreciation of Caribbean and Latin heritage, and talking/viewing tubes (APTE 73) will provide a fun way for children to interact

A building for storage and fountain pump and control equipment (APTE 36) will provide an additional amenity for trail maintainers and protect sensitive equipment from damage. • Enhanced landscape (APTE 34) in the form of native and naturalized Florida Friendly plant material is installed in planting beds retained by planter curbs, cast in place concrete benches, and raised planter beds. Irrigation is provided for areas under the structure. Zone 2 planting includes canopy trees, small trees, triple palms, large shrubs, small shrubs, and ground cover. Zone 2 also includes 12.615 sf of gravel cover.

Pedestrian access and safety is enhanced through traffic calming measures (APTE 31) along N Miami Avenue and NE 1st Avenue. These improvements provide continuity along the Heritage Trail and safer pedestrian crossings through the use of raised crosswalks. Enhancements will result in highly visible pedestrian crossing locations and slower vehicular travel speeds. Further improving safety at road crossings along the Heritage Trail are LED enhanced pedestrian crossings (APTE 102) to signal the presence of pedestrians to drivers and bollards (APTE 58)

Off street parking areas are relocated and improved (APTE 28). The 200 parking spaces described in the Baseline Landscape Requirements are proposed to be moved to the south and west of the original locations and improved with permeable pavement to improve surface water management. Parking is connected via an improved streetscape and pathway system along the Heritage Trail.
Supporting activity along the Heritage Trail in Zone 2 are the following streetscape furnishings: trash and recycling bins (APTE 61), bicycle racks (APTE 62), drinking fountains (APTE 63), wayfinding signage (APTE 64), and cast stone benches (APTE 67). As indicated in the approved APTE attachment these furnishings are located to support planned activity and selected based on their quality, durability, minimal maintenance requirements.

Aesthetic lighting enhancements above base line requirements are described below:

illumination for motorists and pedestrians to navigate the area with a sense of safety.

depth and increase the perceived brightness in the open area under the structure. Fixtures will be located, directed, and shielded to avoid glare Lighting for public art throughout the Heritage Trail will high-light and complement each individual art piece for appreciation at night (APTE 84).
 Pole mounted luminaries will illuminate the parking lots moved out from underneath the structure (APTE 89) providing vertical and horizontal
 attached to the MSE wall and will be designed in 5'x 5' modules surrounded by MSE panels with custom retired to the MSE wall and a 3" recessed space in the middle for graphic patterns in ceramic tile.

AESTHETIC LIGHTING

• In-ground Pavement Lighting along the Heritage Trail (APTE 2) is used to reinforce east-west connections between Zones 1, 2, and 3; provide • ATC 4 for pier layout and ATC 12C for roadway geometry are major design moves which allow for the creation the seamless east-west connection visual continuity through areas with different design themes and elements; and enhance perceptions of safety and comfort among users of the of the Heritage Trail between historically divided and segregated communities. This is a truly transformative enhancement to the project and • Lighting of Planting (APTE 81) in select areas with LED fixtures mounted flush with grade is used to highlight native trees to create visual

• Enhanced MSE Wall Patterns (APTE 78) are designed with a relief depth of 3" to maximize visual intrigue and deter graffiti and vandalism.

SUPERSTRUCTURE, PIERS & WALLS Enhancements above base line requirements are described below:

Linear surface mounted white LED

Cable mounted direct view linear color

makes several of the improvements described above possible

nd surface mounted downlight, white LED Paver lights, white LED

Recessed wall step lights, white LED

In-grade round adjustable uplight for trees, white LED

Deck mounted adjustable Floodlights, white LED enhancements Number

Flexible Linear tape light, white LED

In-grade fountain light, color changing LED

Handrail lighting, white LED

Patterns are intended to give more flexibility in placement to achieve organic shapes and shadows. Legacy wall panels (APTE 99) are located on the MSE walls on the block between N Miami Ave and NW 1st Ave. The legacy wall panels are attached to the MSE wall and will be designed in 5'x 5' modules surrounded by MSE panels with custom rustications. The design includes a

LATIN/CARIBBEAN HERITAGE

Multi-head Luminaire poles, white LED

Superstructure, piers & walls structural

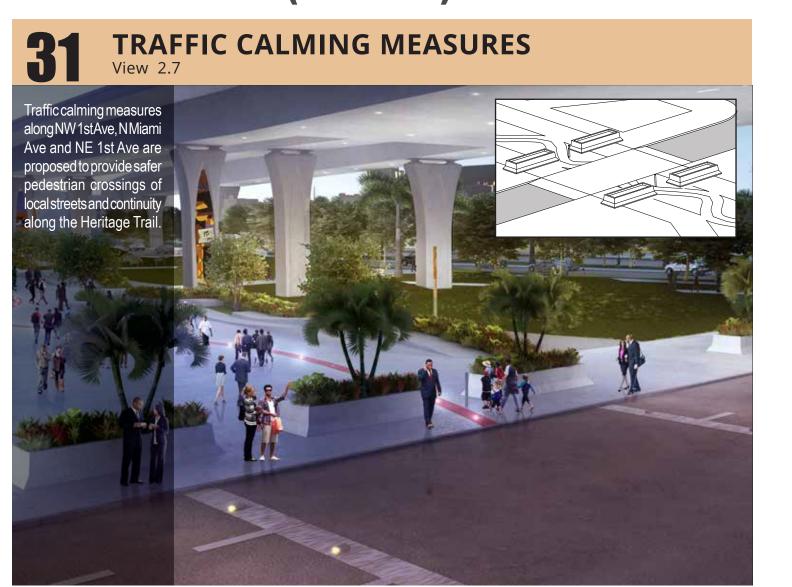
Pole mounted luminaires, white LED

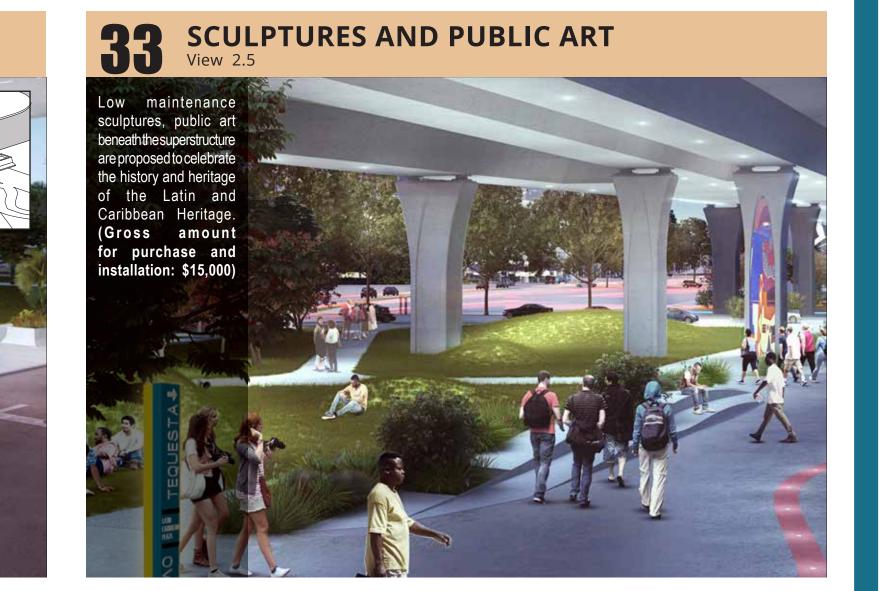
Double-head street lamps

HERITAGE TRAIL AESTHETICS PROJECT TECHNICAL ENHANCEMENTS (APTE) ABOVE BASELINE

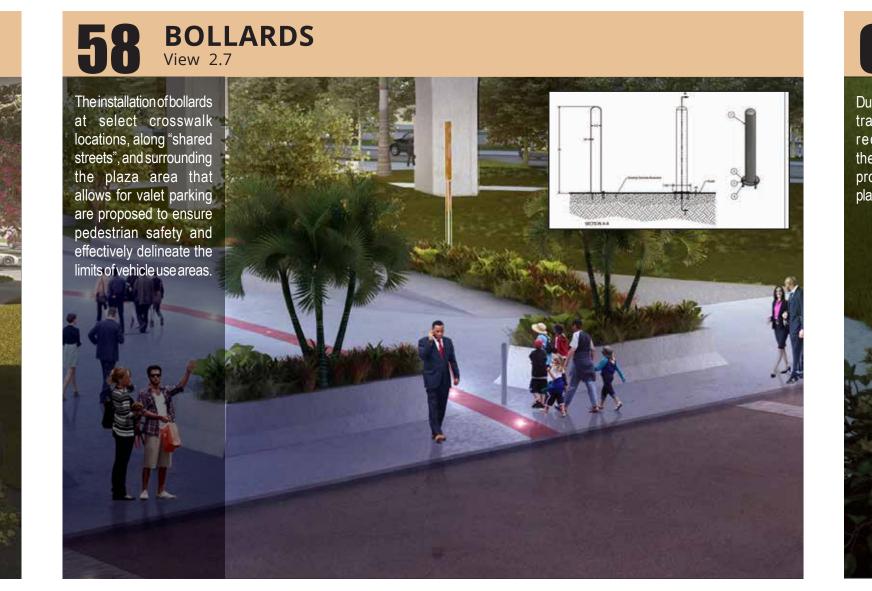








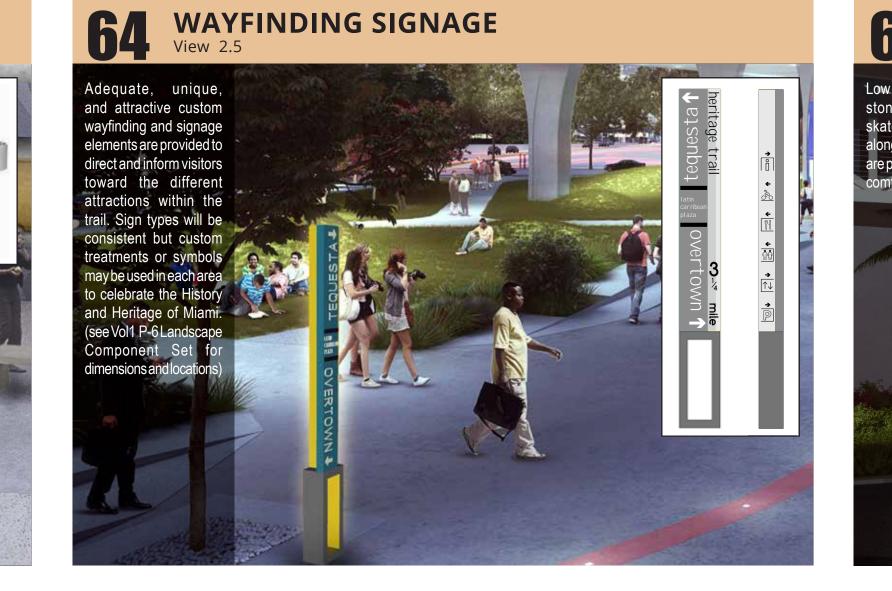


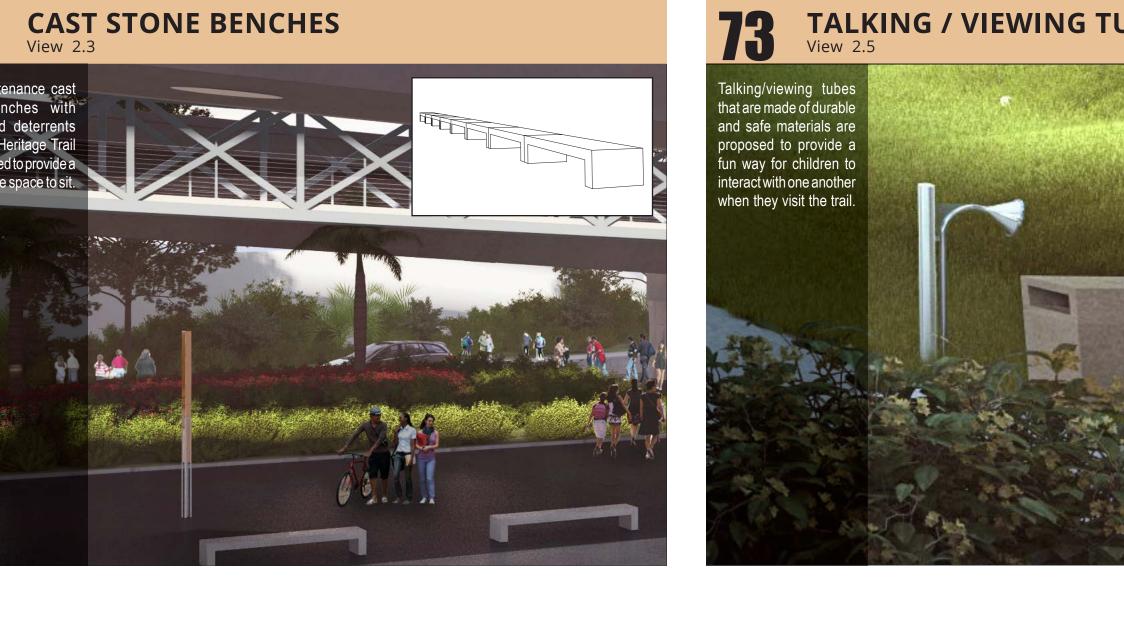






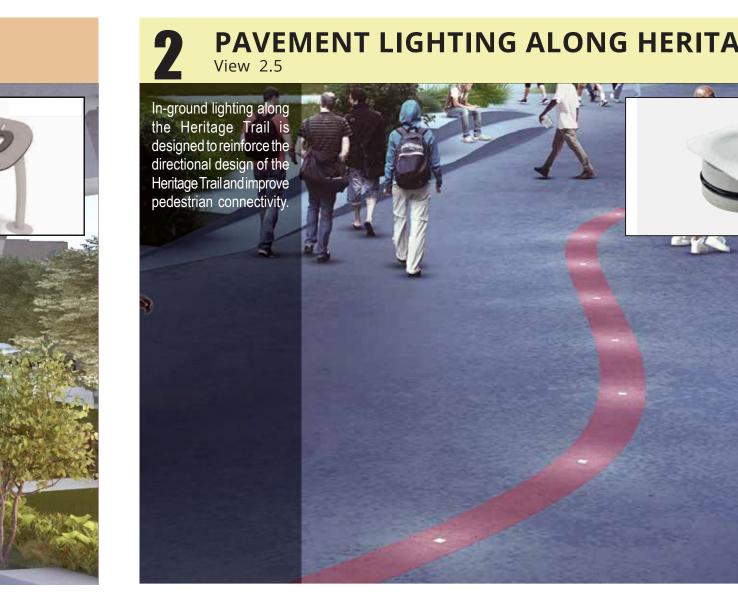




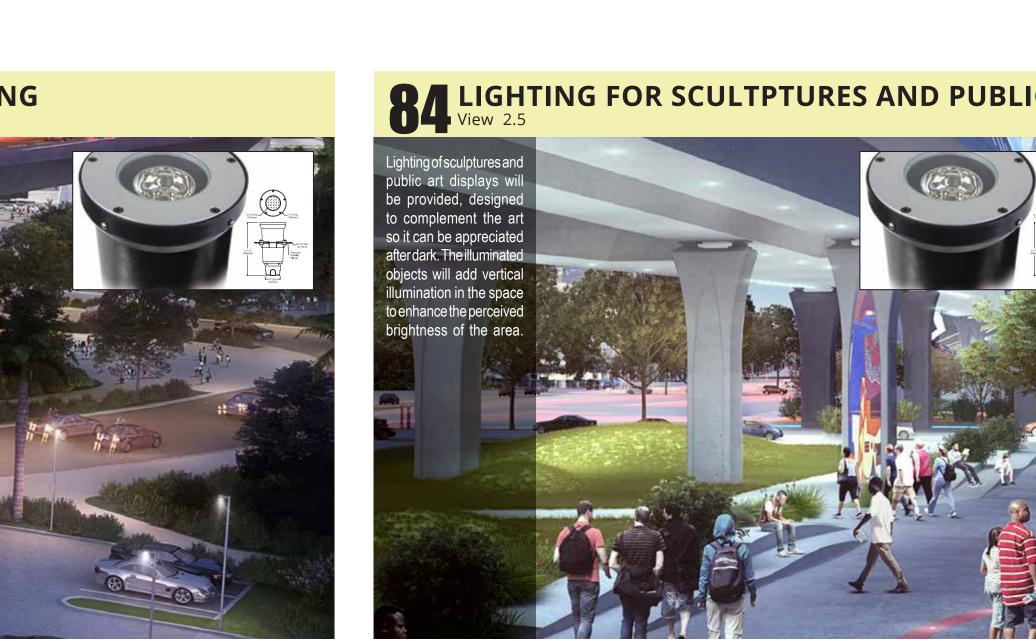


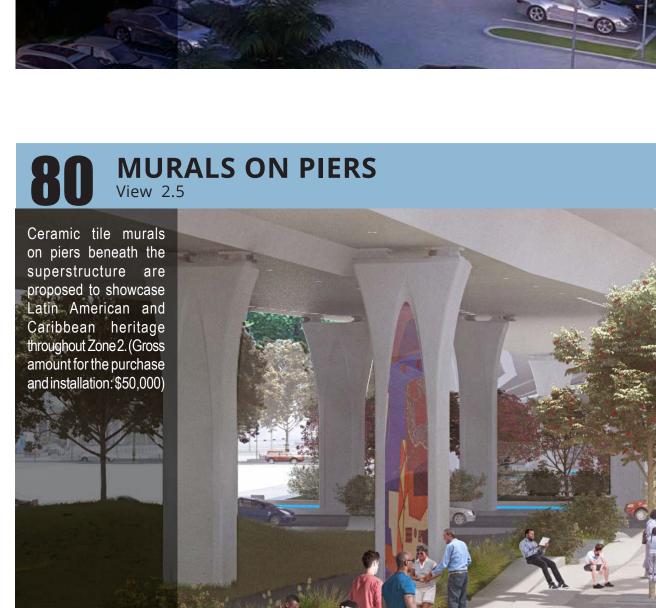


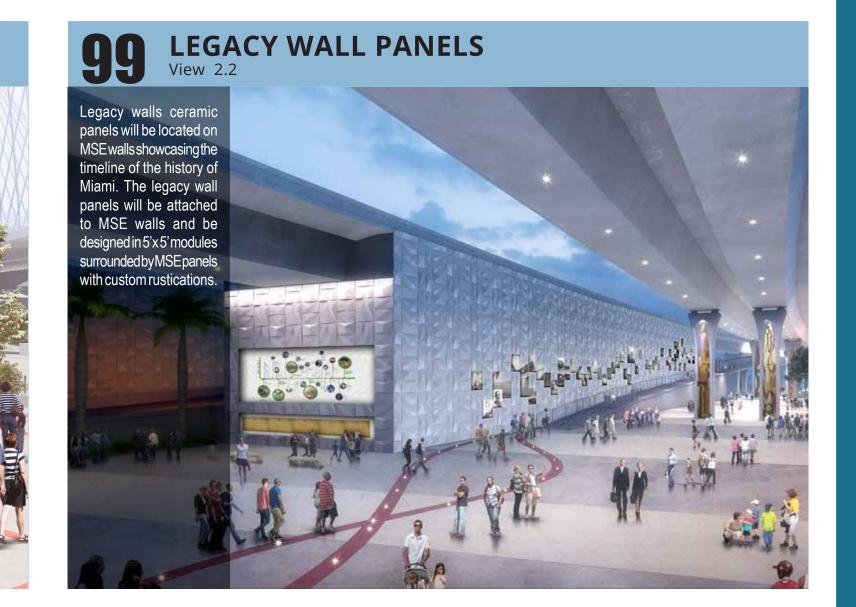




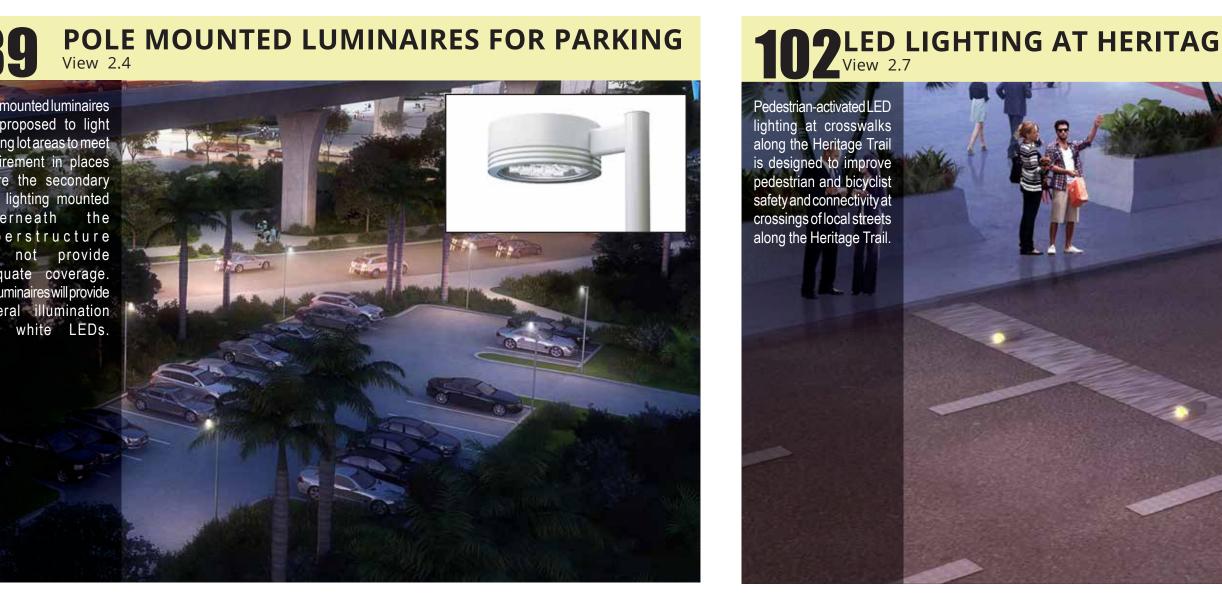


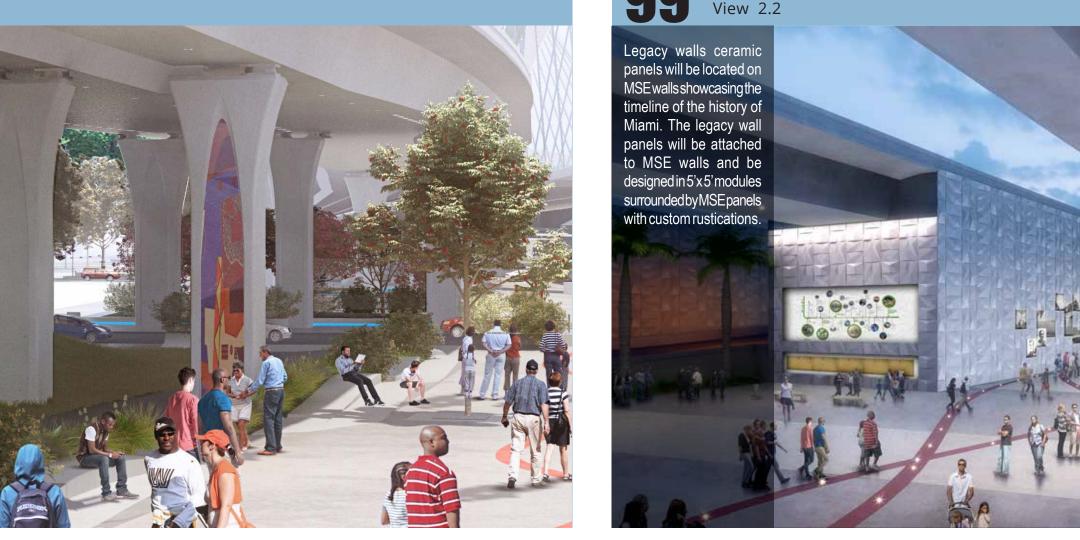


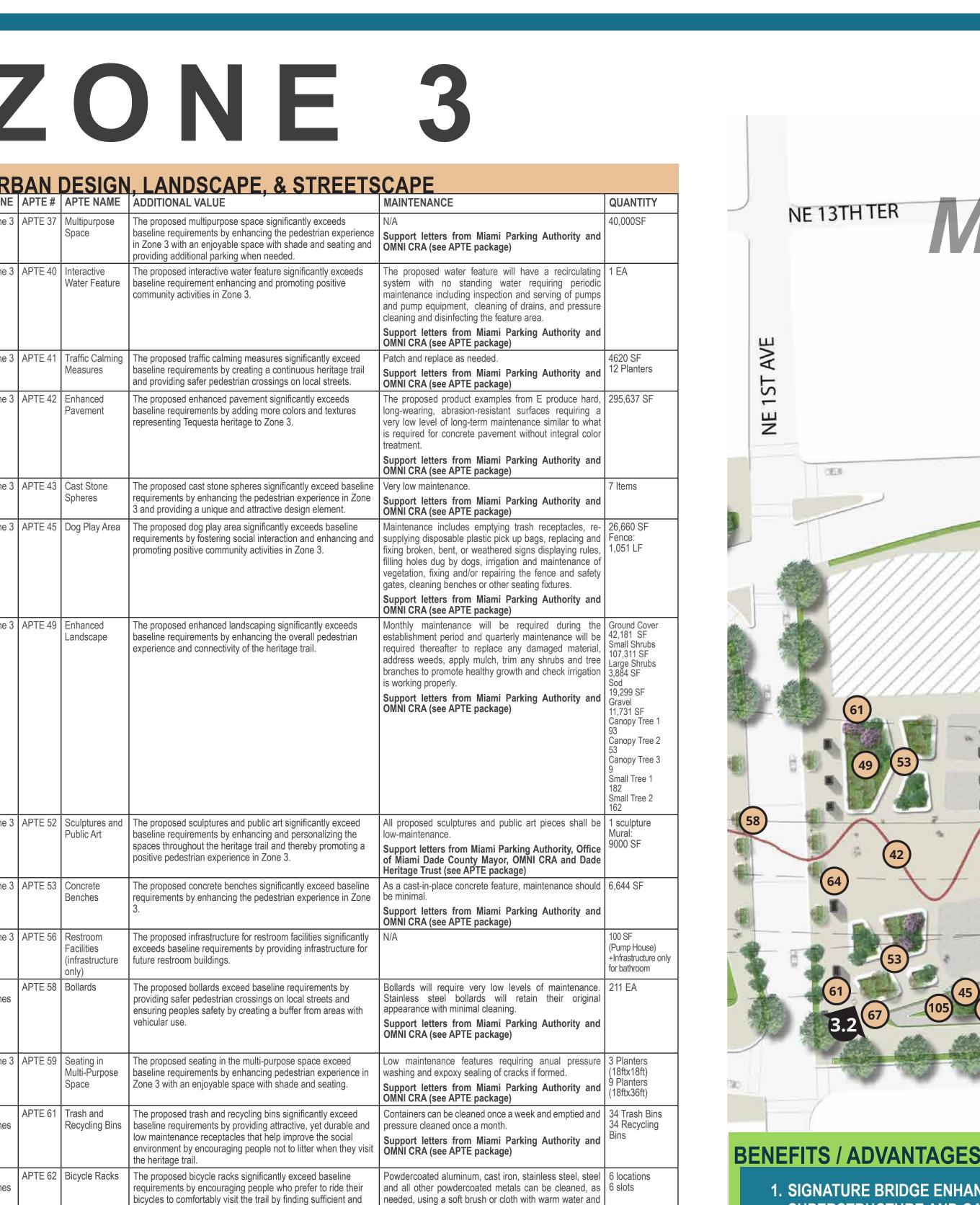












a mild detergent. Do not use harsh abrasives, acids

carbon steel, such as steel wool or wire brushes.

JMNI CRA (see APTE package)

e proposed drinking fountains significantly exceed baseline Maintenance requirements include valve adjustment,

requirements by providing attractive, durable, and user-friendly cartridge replacement, inspection and cleaning of fountains at frequent locations that accommodate every visitor submersible pump, and regular cleaning of drains and

displays that improve enjoyment and understanding of the heritage trail, improve accessibility and safety for all users,

Support letters from Miami Parking Authority and OMNI CRA (see APTE package)

or chlorine-based cleaners or cleaning tools containing

Support letters from Miami Parking Authority and

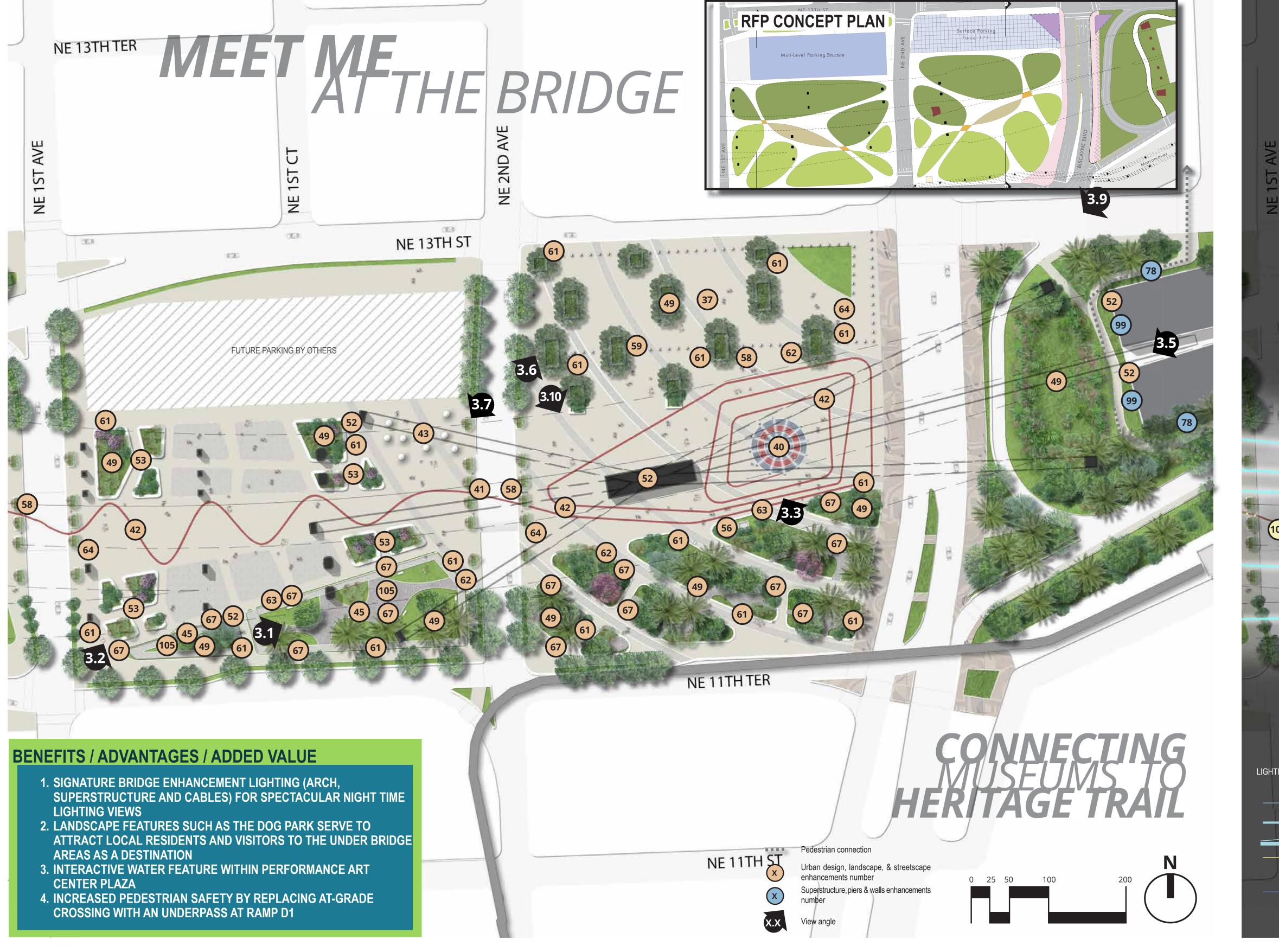
Support letters from Miami Parking Authority and OMNI CRA (see APTE package)

Very low maintenance. Simple cleaning with cloth every 8 EA

			Havigation throughout the trail.		
All Zones	APTE 67	Cast Stone Benches	The proposed cast stone benches significantly exceed baseline requirements by providing areas where visitors to the trail can rest but can also foster social interaction as a form of inclusive design appealing to all visitors to the park.	Very low maintenance. Support letters from Miami Parking Authority and OMNI CRA (see APTE package)	42 EA
AES	THE	TIC LIG	HTING		
ZONE	APTE#	APTE NAME	ADDITIONAL VALUE	MAINTENANCE	QUANTI
All Zones	APTE 2	Pavement Lighting along Heritage Trail	The proposed pavement lighting along heritage trail significantly exceeds baseline requirements by reinforcing the directional design and providing connectivity along the heritage trail.	The light fixture is constructed of aluminum making it very durable. Light bulb replacement typically occurs every 50,000 hours. The maintenance costs are typically very low.	750 fixture
Zone 3	APTE 77	New Street Lighting	The proposed new street lighting significantly exceeds baseline requirements by improving the street lighting in Zone 3 and integrating the lighting elements from the Performing Arts Center.	LEDs and drivers can be replaced after they have reached the end of their life or failure. Provide luminaires with a yearly cleaning.	4 Fixtures
All Zones	APTE 81	Lighting for Plantings	The proposed lighting for plantings significantly exceeds baseline requirements by highlighting the beautiful landscape that helps to enhance the pedestrian experience along the trail at night.	LEDs and drivers can be replaced after they have reached the end of their life or failure. Luminaires require annual cleaning.	60 round ingrade up
All Zones	APTE 84	Lighting for Sculptures and Public Art	The proposed lighting for sculptures and public art significantly exceeds baseline requirements by adding vertical illumination to the pieces and art and allowing them to be appreciated at night.	LEDs and drivers can be replaced after they have reached the end of their life or failure. Provide luminaires with a yearly cleaning.	54 round ingrade up for
Zone 3	APTE 92	Lighting for Multipurpose Space	The proposed lighting for the multipurpose space significantly exceeds baseline requirements by adequately lighting this space in Zone 3 and allowing it to maintain its flexibility for usage and maximizing the space for parking when needed at night.	LEDs and drivers can be replaced after they have reached the end of their life or failure. Luminaires require annual cleaning.	11 three h poles and headed po
Zone 3	APTE 93	Lighting for Interactive Water Feature	The proposed lighting for the interactive water feature significantly exceeds baseline requirements by highlighting the attractive design elements of the interactive water feature for an equally enjoyable pedestrian experience of this area at night.	LEDs and drivers can be replaced after they have reached the end of their life or failure. The lighting controls can be pre-programmed for automatic control but the control settings may be changed temporarily or permanantly by persons mainting the system. Luminaires require annual cleaning.	fountain w LED lights
Zone 3	APTE 94	Lighting for Concrete Benches	The proposed lighting for concrete benches significantly exceeds baseline requirements by adding an additional design element and helping visitors to the trail easily recognize the concrete benches and to feel safe to convene and use these areas at night.	LED's and drivers can be replaced after they have reached the end of their life or failure. Luminaires require annual cleaning.	
Zone 3	APTE 97	Lighting for the Signature Bridge Base	The proposed lighting for sculptures and public art significantly exceeds baseline requirements by highlighting the aesthetic features of the walls of the signature bridge base and thereby enhancing the pedestrian experience at night.	LEDs and drivers can be replaced after they have reached the end of their life or failure. Luminaires will require annual cleaning.	160 linear for color charlinear feet of changing L surface mowall washe color cahno LED flood i
All Zones	APTE 102	LED Lighting at Heritage Trail Crossings	The proposed lighting at heritage trail crossings significantly exceeds baseline requirements by improving the safety of pedestrians and cyclists visiting the trail at night and simultaneously enhancing the connectivity of the trail.	Maintenance over the life of the fixture is generally limited to signal head replacement. Maintenance costs are typically very low.	8 location
Zone 3	APTE 105	Photo- Luminescent	The proposed lighting for sculptures and public art significantly exceeds baseline requirements by improving pedestrian safety	Low installation and maintenance costs.	7,760 SF

encourage visitors to experience more areas, and allow easy

Plaza Coating at night by illuminating the walkways while also seamlessly he proposed MSE wall pattern significantly exceeds baseline | FDOT regular maintenance to typical MSE walls. adding an aesthetic component to an otherwise unrelieved face treatment of the highway superstructure walls. APTE 99 Legacy Wall Panels The proposed legacy wall panels significantly exceed baseline requirements by enhancing the pedestrian experience visually but also providing an additional source of cultural heritage in Zone 3. Low maintenance ceramic murals with anti-graffiti coating allows for pressure cleaning. Support letters from Miami Parking Authority, OMNI CRA and Dade Heritage Trust (see APTE package)



Aesthetic lighting enhancements above base line requirements are described below:

• Project enhancements on the block south AAPAC are organized around the interactive water feature (APTE 40) designed to mark the origins of the City of Miami. The Tequestas are represented through the circular shape of the feature and the basins from where the water sprouts to celebrate local heritage and reinforce family-oriented community activities. To the north of the fountain is the multipurpose space (APTE 37) designed to do double duty as a parking area. The design of the lot will be integrated into the landscape design of the entire block and will use an enhanced surface treatment to continue circles from the AAPAC Plaza making reference to the Tequestas. The space also includes and custom cast-in-place benches (APTE 59) surrounding planting beds and **bollards** (APTE 58) to mark the limits of temporary vehicle use areas. The plaza space south of the proposed parking garage (to be constructed by others) includes several enhancements to attract activity, including permanent cast stone spheres (APTE 43) for use as informal play features and furnishings and concrete cast-in-place benches (APTE 53)

URBAN DESIGN, LANDSCAPE, & STREETSCAPE

Large, fenced dog play area (APTE 45) are located south of the Heritage Trail to attract activity to the space and serve as a valuable amenity to community residents. The dog play area will allow owners to let their dogs off leash in a fenced area with grass surface and decomposed granite The Heritage Trail, pathways, and plaza areas are all improved with **enhanced pavement treatments** (**APTE 42**). Highly durable, stamped, integral

Miami's rich Caribbean and Hispanic heritage is celebrated and expressed through sculptures and public art (APTE 52) placed along the Heritage Trail. Specific installations, to be commissioned as described in the approved APTE attachment, are defined for placement in the block between N Miami Avenue and NW 1st Street. Additional art installations are provided as ceramic tile murals on piers (APTE 80) in select locations.
Pedestrian access and safety is enhanced through Traffic Calming Measures (APTE 41) along NE 2nd Avenue. These improvements provide continuity along the Heritage Trail and safer pedestrian crossings of local streets through the use of raised crossings. Enhancements will result in highly visible pedestrian access. in highly visible pedestrian crossing locations and slower vehicular travel speeds. Further improving safety at road crossings are **LED enhanced**pedestrian crossings (APTE 102) to signal the presence of pedestrians and bollards (APTE 58) to demarcate pedestrian and vehicular realms.

• Enhanced low-maintenance landscaping (APTE 49) in the form of a Tropical Rockwood Hammock forest to represent the native plant communities that existed prior to development of Miami will be installed in planting beds retained by planter curbs, cast in place concrete benches, and raised

color concrete in three colors is used in patterns taking inspiration from Caribbean and Latin cultures. Treatments are designed to enhance pedestrian

planter beds. Irrigation is provided for areas under the structure. Zone 3 planting includes canopy tree, small tree, triple palm, large shrub, small Supporting activity along the Heritage Trail are the following streetscape furnishings: trash and recycling bins (APTE 61), bicycle racks (APTE 62), drinking fountains (APTE 63), wayfinding signage (APTE 64), and cast stone benches (APTE 67). As indicated in the approved APTE

Aesthetic enhancements above base line requirements are described below:

• In-ground pavement lighting along the Heritage Trail (APTE 2) reinforces east-west connections between Zones 1, 2, and 3; provides visual continuity through areas with different design themes and elements; and enhances perceptions of safety and comfort among users. LED Lighting for the interactive water feature (APTE 93) with controls tied into the water feature programming is used to create excitement • Color changing LED lighting on the signature bridge base's vertical surfaces (APTE 97) connects pedestrians passing under the bridge at night with the lighting changing color across the signature bridge above them. • Lighting of landscape areas (APTE 81) in select areas with LED fixtures mounted flush with grade is used to highlight native trees to create visual

depth and increase the perceived brightness in areas under the structure. Fixtures are located, directed, and shielded to avoid glare on paths and Lighting for public art throughout the Heritage Trail will highlight and complement each individual art piece for appreciation at night (APTE 84). • The plaza north of the signature bridge will be lit with multi-headed poles (APTE 92) to provide pleasant illumination for pedestrians strolling

through the plaza and appropriate illumination for the area when used as valet parking.

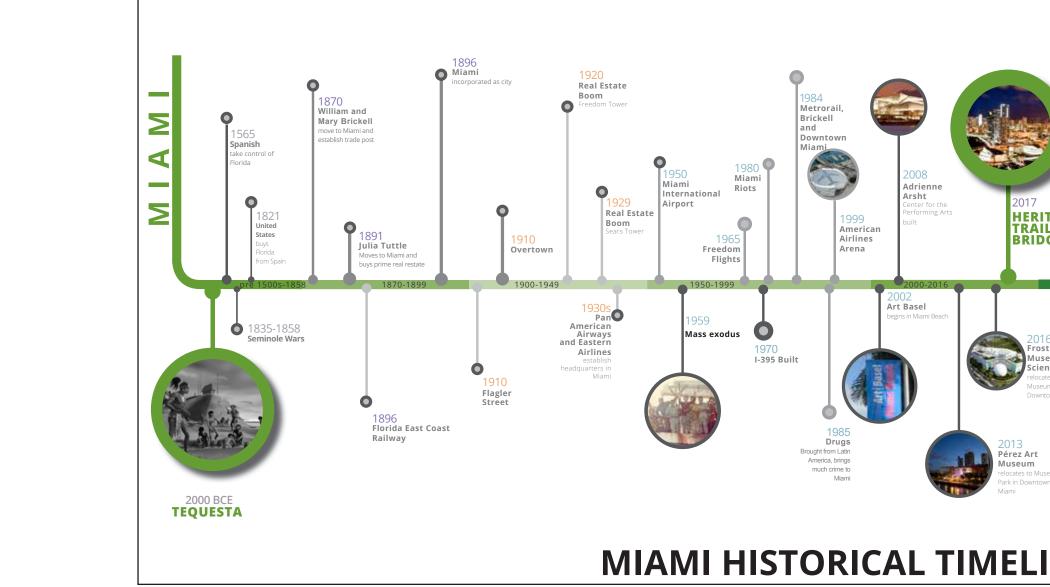
• The underside of the concrete benches shall be outlined with continuous white LED lighting. This will serve to highlight the form of the benches, • Replace the existing street lighting within this zone with a pole and luminaire (APTE 77) matching those found around the adjacent performing arts center will serve to tie the two areas together and provide a consistent vocabulary between destinations.

APTE LIGHTING KEY Multi-head Luminaire poles, white LED Paver lights, white LED Linear surface mounted white LED Recessed wall step lights, white LED Double-head street lamps Flexible Linear tape light, white LED Pole mounted luminaires, white LED In-grade round adjustable uplight for trees, white LE Cable mounted direct view linear color In-grade fountain light, color changing LED Handrail lighting, white LED

SUPERSTRUCTURE, PIERS & WALLS

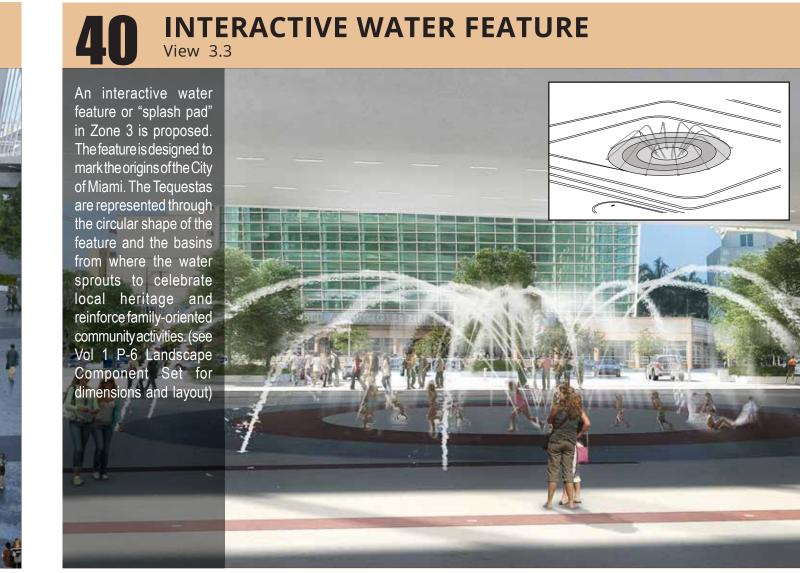
Enhancements above base line requirements are described below:

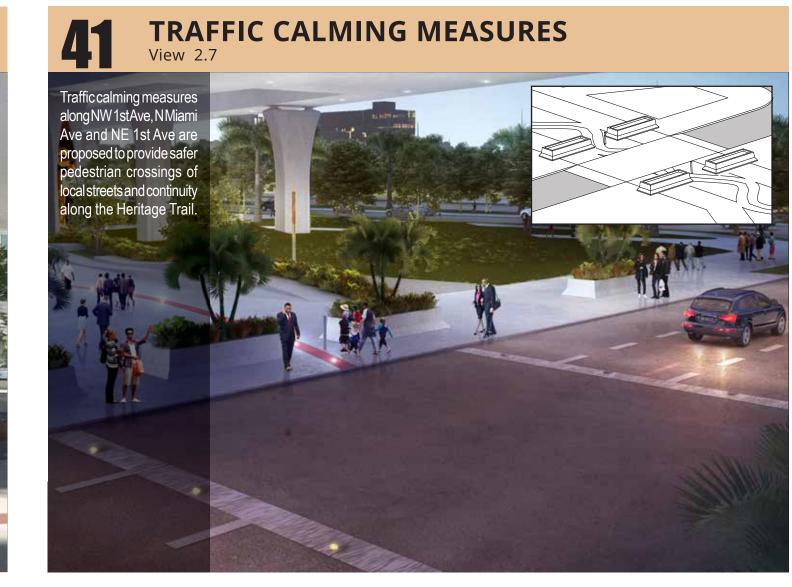
• ATC 4 for pier layout and ATC 12C for roadway geometry are major design moves which allow for the creation the seamless east-west connection of the Heritage Trail between historically divided and segregated communities. This is a truly transformative enhancement to the project and makes several of the improvements described above possible. Enhanced MSE wall panels (APTE 78) are used on the walls east of Biscayne Boulevard to match enhanced treatments in Zone 3. The enhanced panels have a relief depth of 3" to maximize visual intrigue and deter graffiti and vandalism. Patterns are intended to give more • Legacy wall panels (APTE 99) are located on MSE walls east of Biscayne Boulevard to mark the eastern end of the Heritage Trail. The panels are attached to flat MSE panels and be designed in 5'x 5' modules.



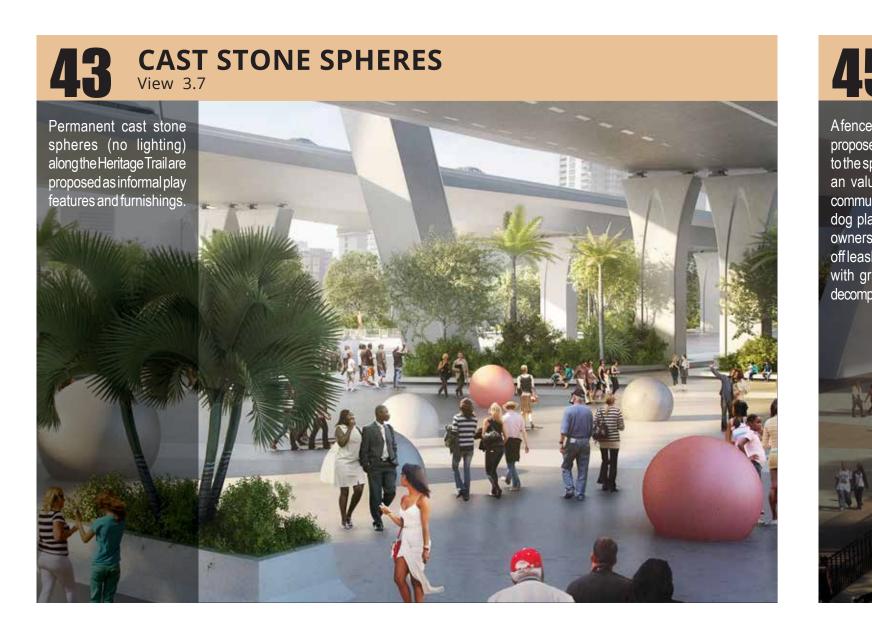
HERITAGE TRAIL AESTHETICS PROJECT TECHNICAL ENHANCEMENTS (APTE) ABOVE BASELINE

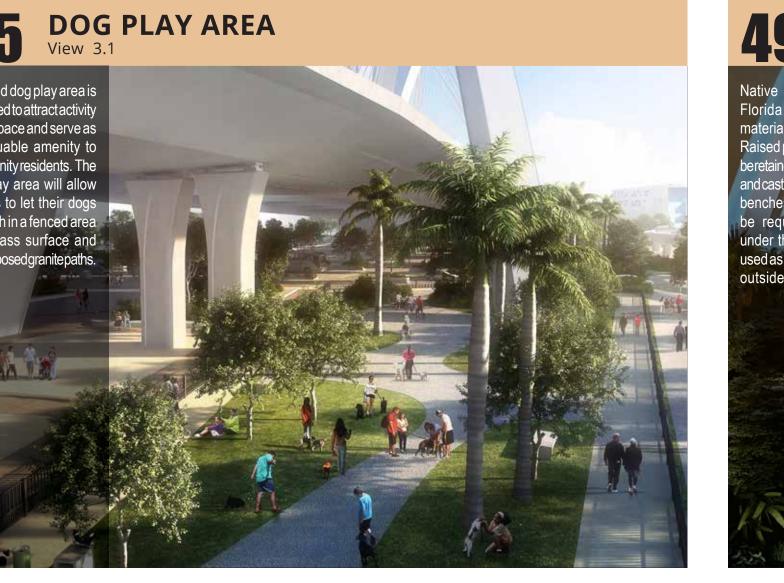




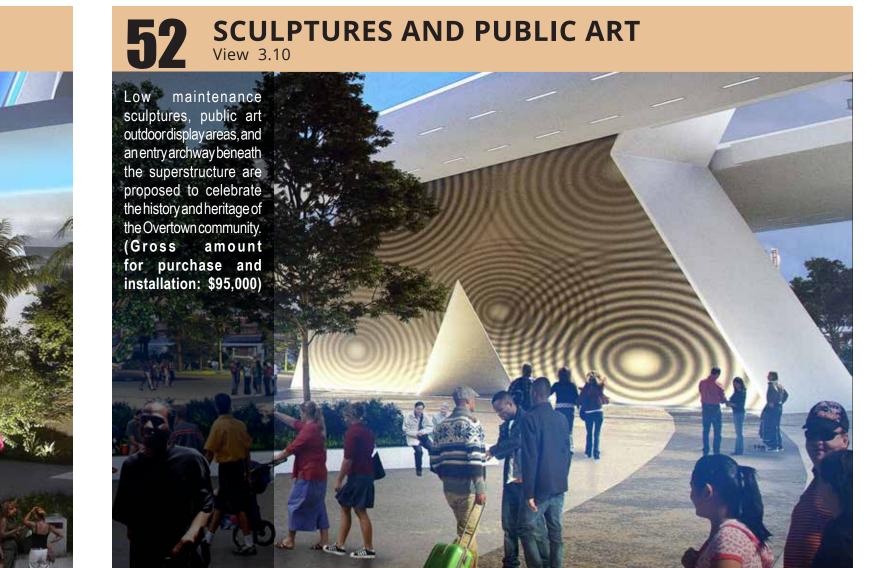


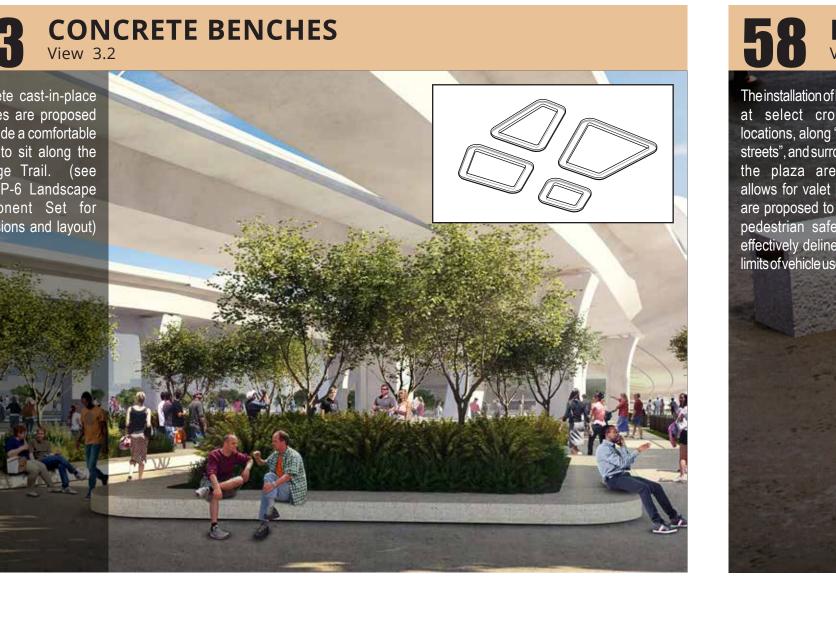








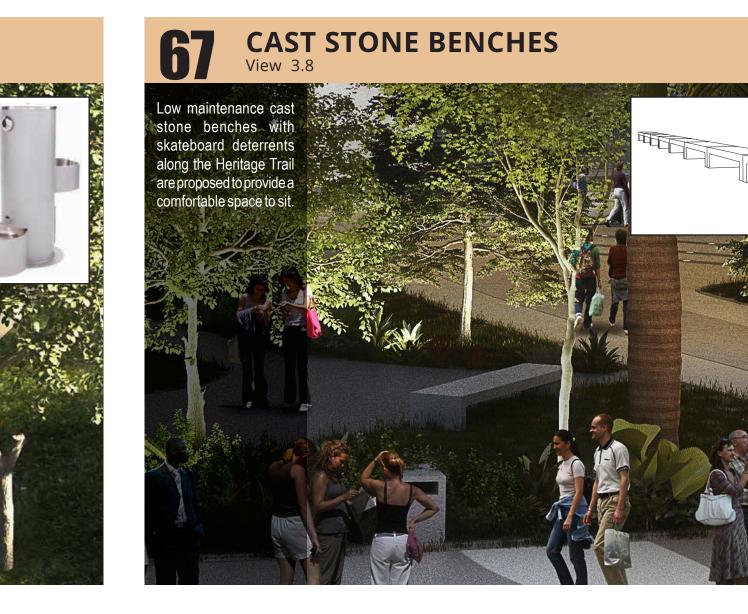


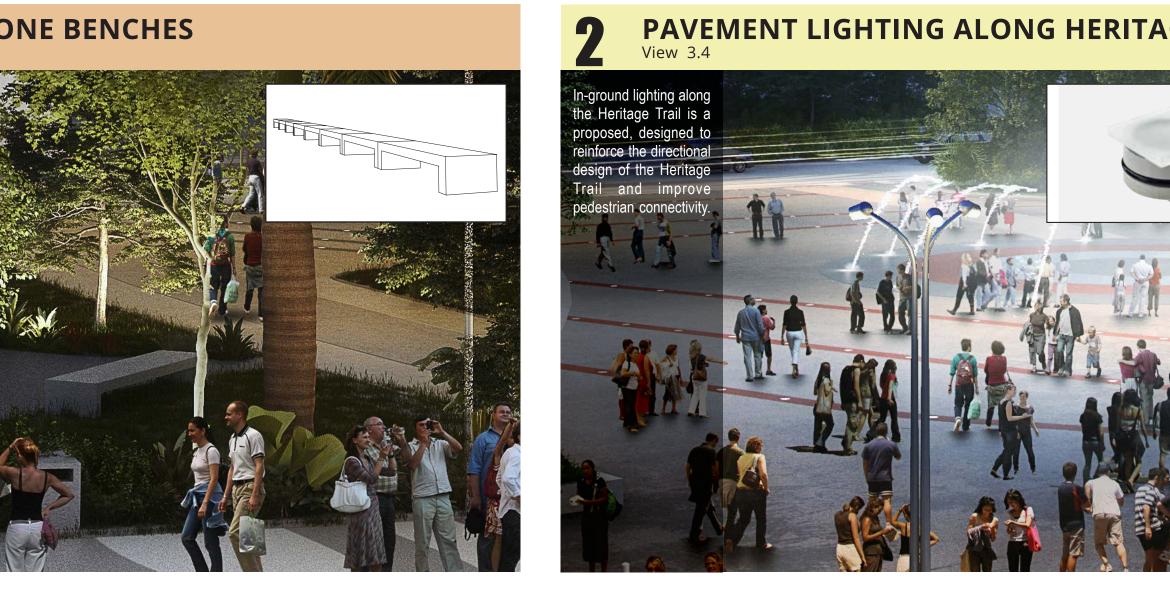






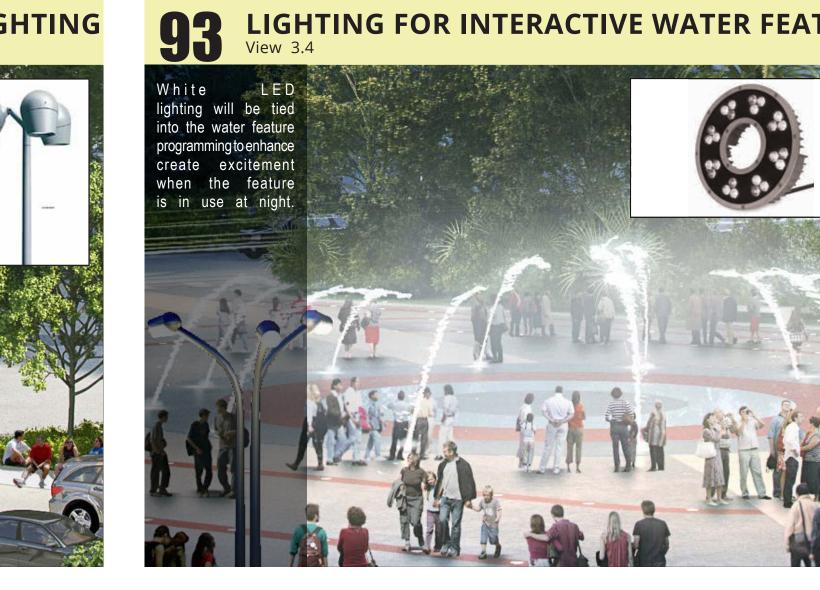


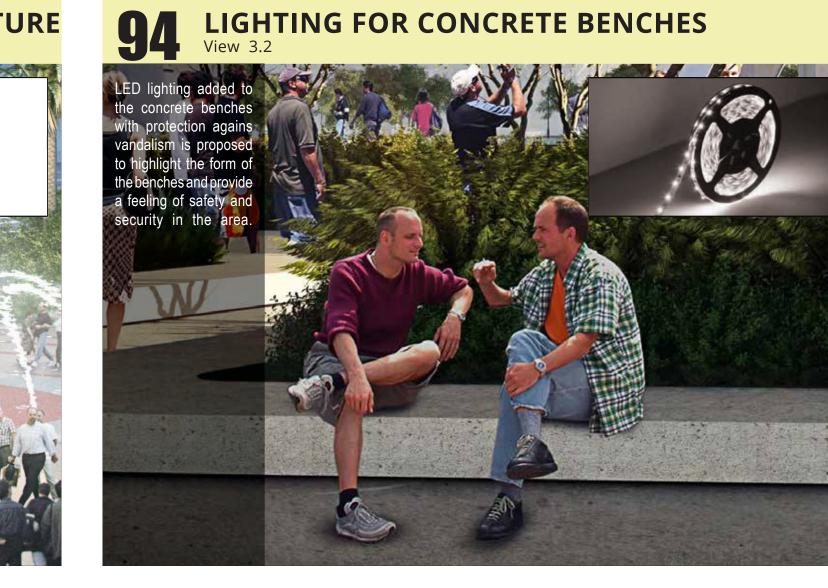


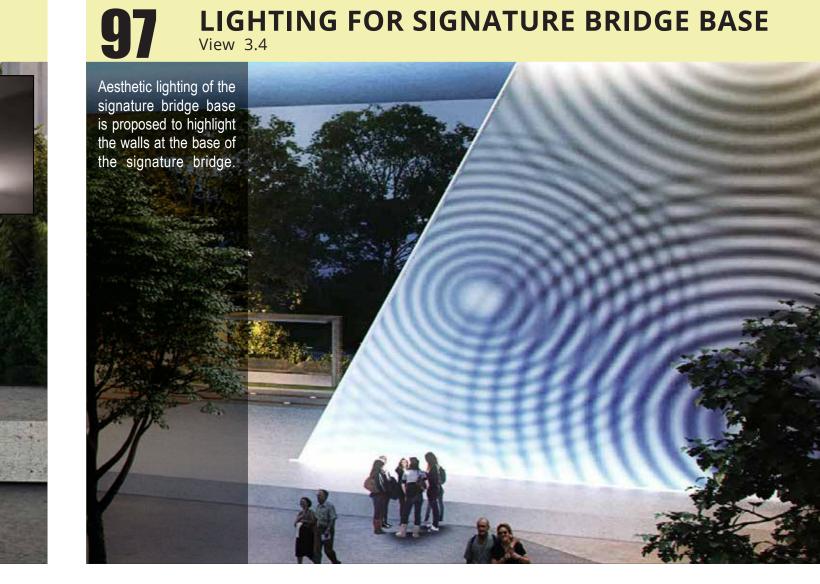


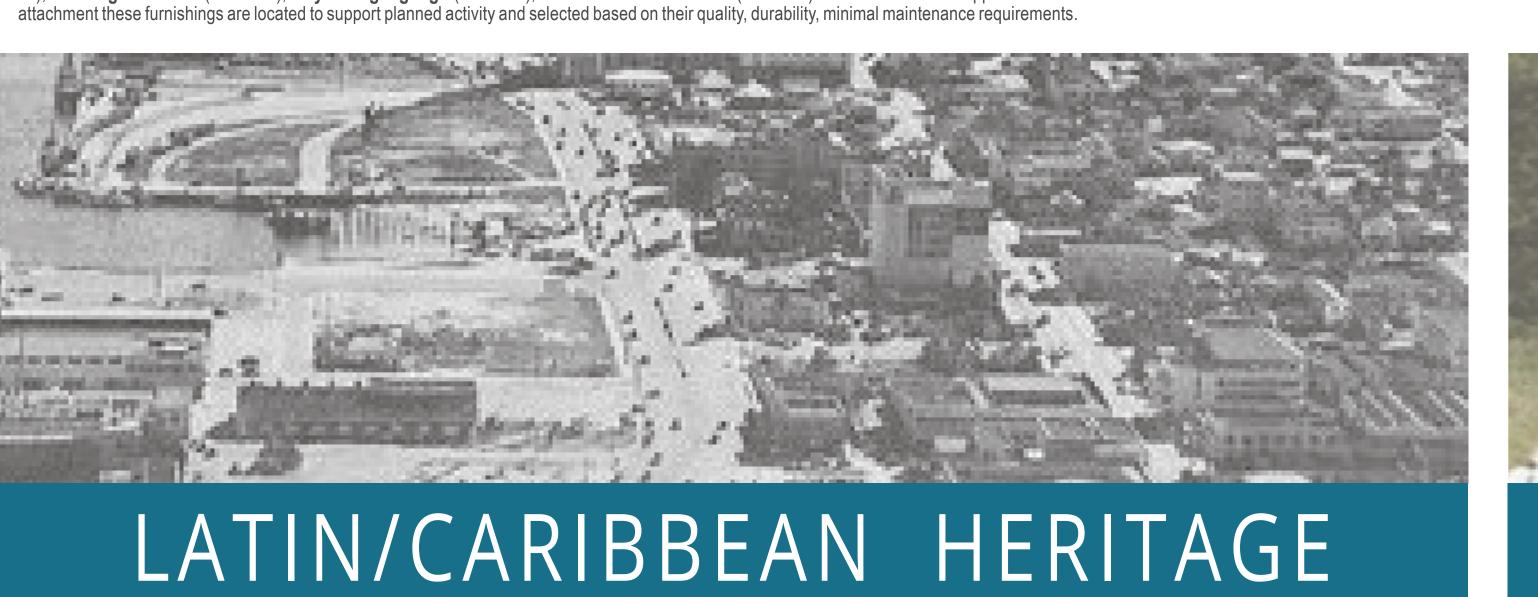


















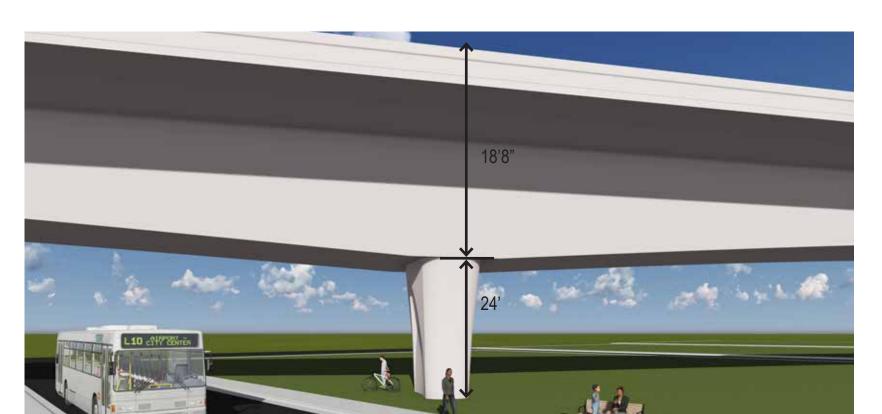
SUPERSTRUCTURE AND PIERS

APPROACH SPAN SUPERSTRUCTURE & PIERS

ZONES 1, 2, 3

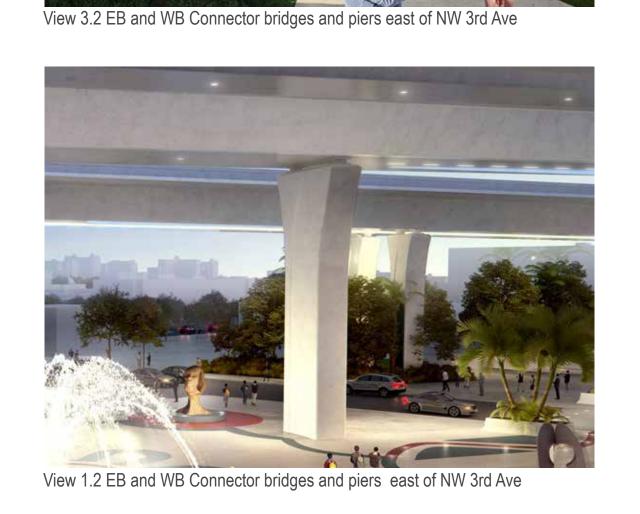
BENEFITS / ADVANTAGES / ADDED VALUE

- MINIMIZED COLUMN LOCATIONS ELIMINATED 9 COLUMNS
- VISUAL CONSISTENCY AMONG ALL PIERS • INCREASED CLEARANCE BENEATH THE BRIDGE DUE TO CONSTANT SEGMENT DEPTH AND DRAMATICALLY RAISED











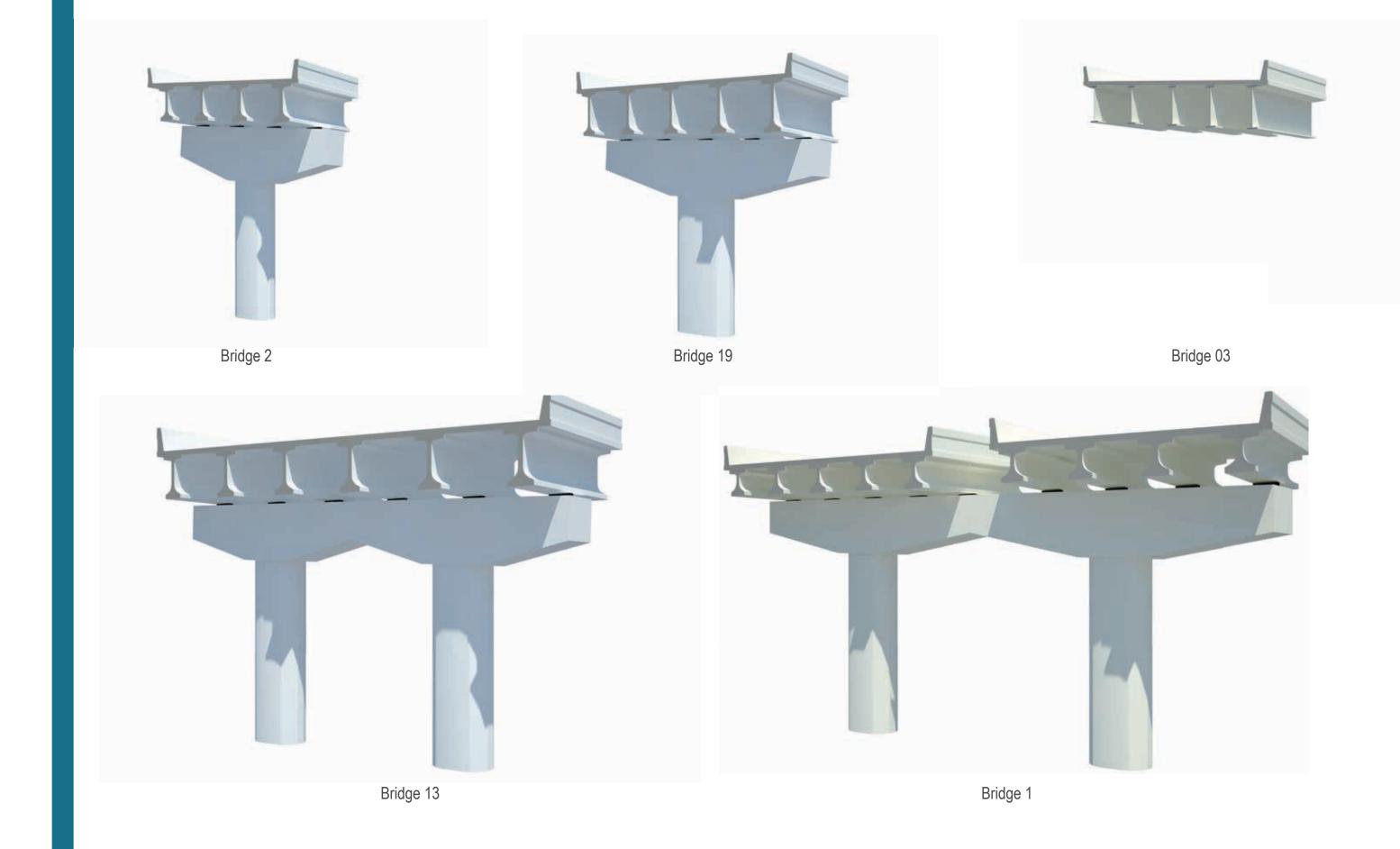


TYPICAL SUPERSTRUCTURE & PIERS

ZONE A (INTERCHANGE)

BENEFITS / ADVANTAGES / ADDED VALUE

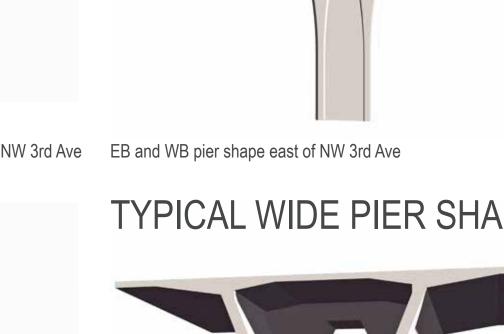
• SUPERSTRUCTURES WITHIN ZONE A WERE SET BACK AN AVERAGE OF 200 FEET WEST OF NW 3RD AVENUE, OBSCURING THEM FROM THE DRIVER'S LINE OF SIGHT THE PIER COLUMNS FOR EACH BRIDGE IN ZONE A WERE DESIGNED TO HAVE SIMILAR WIDTHS TO THE CORRESPONDING PIERS WITHIN THE SEGMENTAL BRIDGE APPROACHES















TRANSITION SPAN

BENEFITS / ADVANTAGES / ADDED VALUE

• SMOOTH TRANSITION FROM SEGMENTAL BRIDGE TO SIGNATURE BRIDGE RENDERINGS SUBMITTED AND APPROVED THROUGH SIGNATURE BRIDGE SUBMITTAL

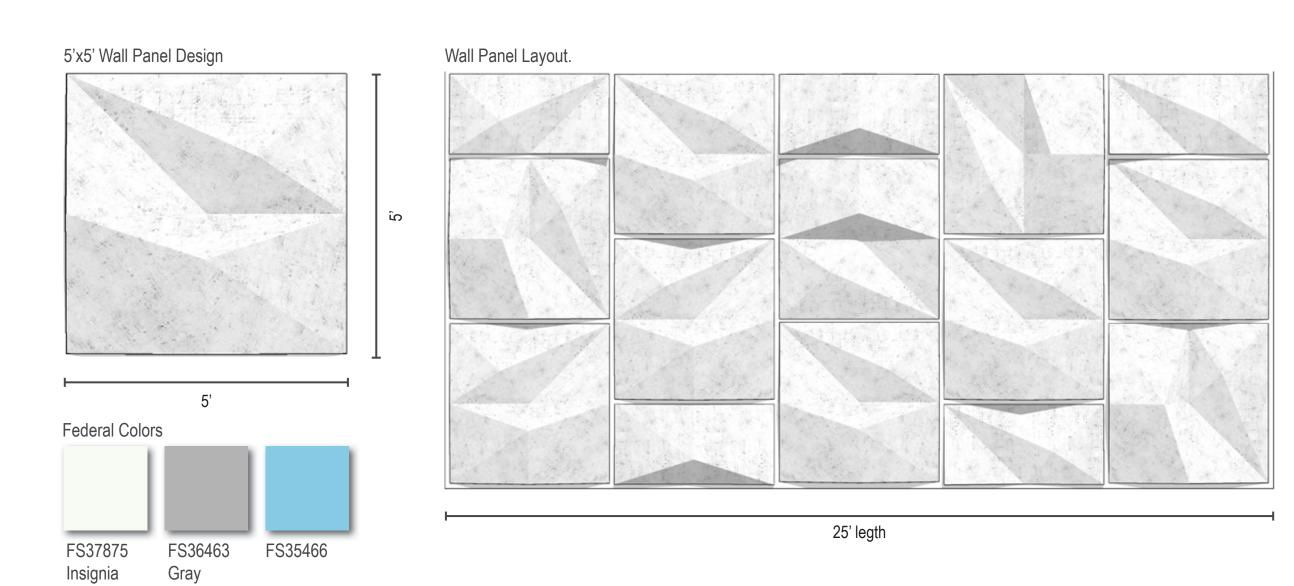




FINISHES

RETAINING WALLS

ZONES A, 1, 2, 3







CONCRETE AND STEEL FINISH

ZONES A, 1, 2, 3

SAMPLE COLORS AND WALL PATTERNS SHOWN, WE WILL WORK WITH FDOT AND STAKEHOLDERS FOR

• WHITE BRIDGE COLOR ON PIERS USED TO ENHANCE AESTHETIC LIGHTING • HERITAGE TRAIL WALL ENHANCEMENTS INCLUDE THE LEGACY WALL WITH AFRICAN-INSPIRED LEAF AND ZEBRA PANELS, MIAMI HISTORICAL TIMELINE, AND ART WORK







LIGHTING

STREETSCAPE LIGHTING

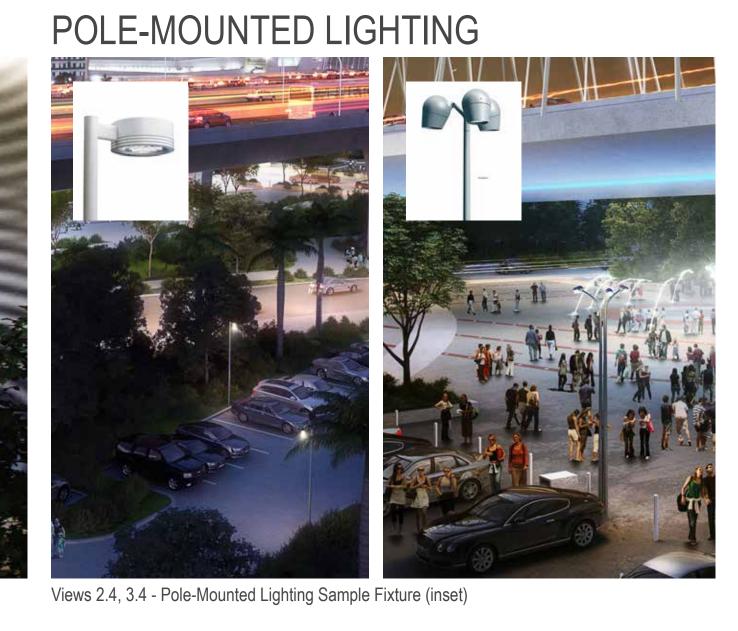
ZONES 1, 2, 3

PORTAL LIGHTING











ROADWAY LIGHTING ZONES 1, 2, 3

