

MDX
Landscaping and Aesthetics Update
CIAB Meeting - October 29th, 2009

Richard Johnson
Roadway Operations Manager

Miami Dade Expressway Authority
“Moving Miami-Dade”

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MDX Aesthetics Enhancements Goals

- *The MDX Board of Directors adopted an enhancement policy in 2003.*
- *Enhancements include:*
 - *Landscape Improvements*
 - *Noise Mitigation*
 - *Architectural Approaches*
 - *Greenways and Bike Paths*

MDX System Wide Landscaping

Background History

- *Conceptual designs began in Spring 2005 on SR 836, SR 112 and SR 874*
- *Landscape Design Criteria:*
 - Think Green
 - Provide native trees and plants using xeriscape principles
 - Removal existing invasive and exotic plant materials
 - Long range maintainability
 - Utilize landscaping to reduce the highway impacts on neighboring communities
- *Implementation of landscaping began in Fall of 2006*

MDX System Wide Landscaping

SR 112 / N.W. 27th Avenue After New Plantings

Completed February 2007



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MDX System Wide Landscaping

SR 112 / N.W. 27th Avenue After New Plantings

Completed February 2007



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MDX System Wide Landscaping

SR 112 Median After New Plantings

Completed February 2007



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MIAMI-DADE EXPRESSWAY AUTHORITY

MDX System Wide Landscaping

SR 112 West End After New Plantings

Completed December 2007



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MDX System Wide Landscaping

SR 112 West End After New Plantings

Completed December 2007



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MDX System Wide Landscaping

SR 112 West End After New Plantings

Completed December 2007



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MDX System Wide Landscaping

SR 112 / N.W. 40th Street

Illegal dump site reborn as a wayside park



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SR 112 / N.W. 39th Street



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MDX System Wide Landscaping

SR 112 EB after the toll plaza



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MDX System Wide Landscaping

SR 836 / N.W. 27th Avenue Concept Design



MDX System Wide Landscaping

SR 836 / N.W. 27th Avenue After Installation



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MDX System Wide Landscaping

SR 836 / N.W. 27th Avenue After Installation



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MDX System Wide Landscaping

SR 836 / N.W. 27th Avenue After Installation



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SR 836 / N.W. 27th Avenue After Installation



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SR 836 / N.W. 27th Avenue After Installation



MDX System Wide Landscaping

SR 836 / N.W. 37th Avenue after installation



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MDX System Wide Landscaping

SR 836 Extension to 137th Avenue



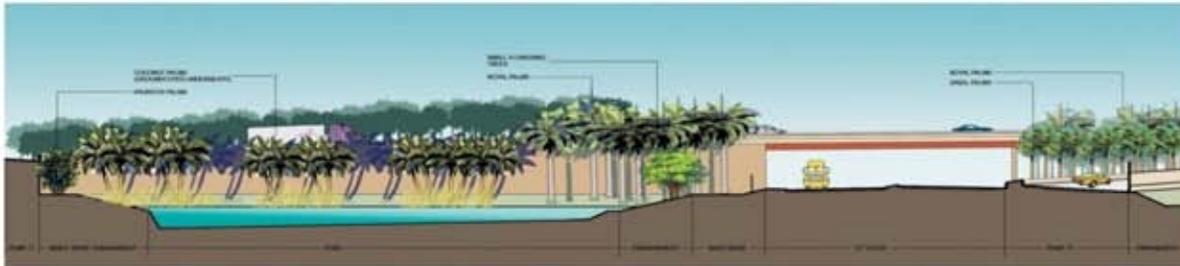
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Future Landscape Project MDX 83617



137 TH AVE. INTERCHANGE - NORTH ELEVATION



137 TH AVE. INTERCHANGE - WEST ELEVATION



SR-83617 PROPOSED LANDSCAPE IMPROVEMENTS



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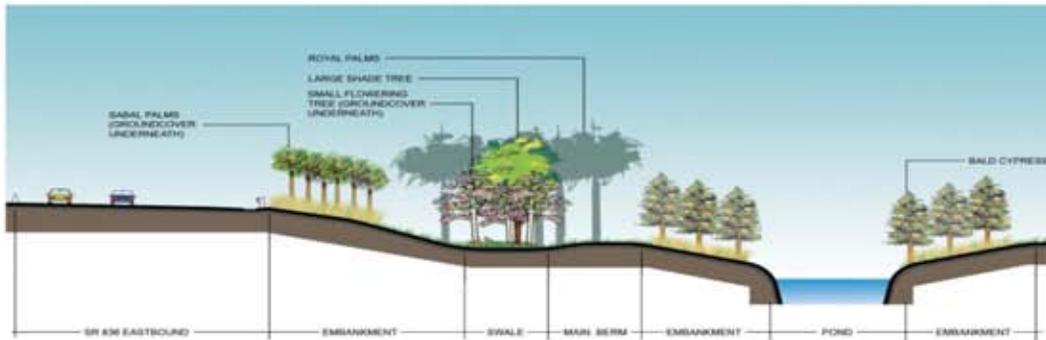
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MDX System Wide Landscaping

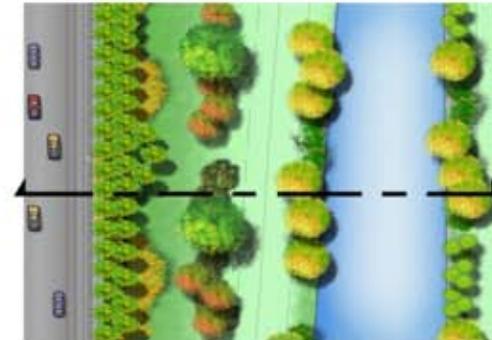
Future Landscape Project MDX 83617



107 TH AVENUE - ELEVATION



STATION 573 + 00 - SECTION



STATION 573 + 00 - PLAN VIEW

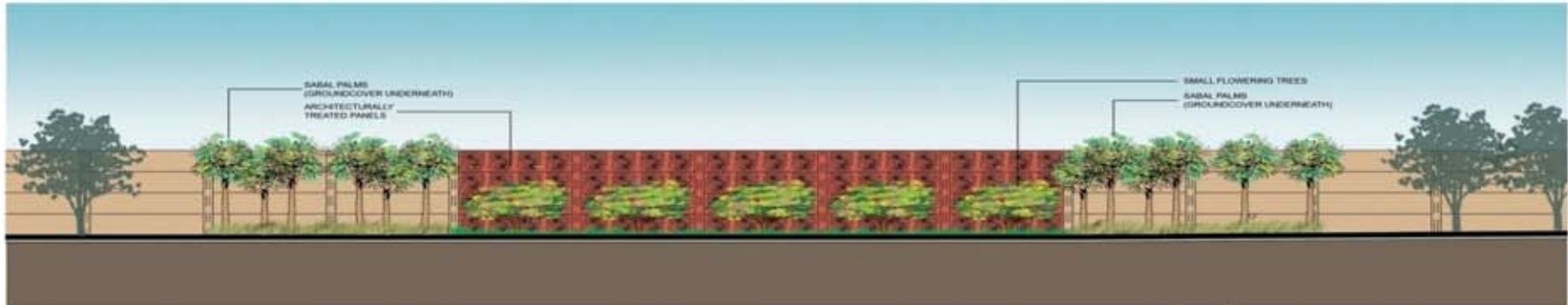


SR-83617 PROPOSED LANDSCAPE IMPROVEMENTS



MDX System Wide Landscaping

Future Landscape Project MDX 83617



ACCENT PANEL - ELEVATION



12 TH ST. BRIDGE - VIEW 1



12 TH ST. BRIDGE - VIEW 2



SR-83617 PROPOSED LANDSCAPE IMPROVEMENTS



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Landscape Project MDX 83617

- *Budget \$5,000,000*
- *Design began Spring 2007*
- *Divided into three segments to be installed by multiple Pushbutton contracts*
- *Segment 1 began construction August 2007, completed January 2008*
- *Segment 2 began construction December 2007, 40% complete*
- *Segment 3 to begin construction February 2008*



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Landscape Project MDX 83617

Began August 2007



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MDX System Wide Landscaping

Landscape Project MDX 83617

Began August 2007



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MDX System Wide Landscaping

Landscape Project MDX 83617

Segment 1



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Landscape Project MDX 83617

Segment 1



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Landscape Project MDX 83617

Segment 1



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MDX System Wide Landscaping

Landscape Project MDX 83617

Segment 2



MDX System Wide Landscaping

Landscape Project MDX 83617

Segment 2



MDX System Wide Landscaping

Landscape Project MDX 83617

Segment 2



MDX System Wide Landscaping

Landscape Project MDX 83617

Segment 2



MDX System Wide Landscaping

Landscape Project MDX 83617

Segment 2



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MDX System Wide Landscaping

Landscape Project MDX 83617

Projected Fountains



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MDX System Wide Landscaping

Landscape Project MDX 83617

97th Avenue from N.W. 7th Street to SR 836



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MDX System Wide Aesthetics

Bike Path between N.W. 87th Avenue and N.W. 107th Avenue



MDX System Wide Aesthetics

SR 836 Extension - Bike Path between N.W. 107th Avenue and N.W. 87th Avenue



MDX System Wide Landscaping

Bike Path between N.W. 87th Avenue and N.W. 107th Avenue



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MDX System Wide Landscaping

Bike Path between N.W. 107th Avenue and N.W. 87th Avenue



MDX System Wide Landscaping

Bike Path between N.W. 107th Avenue and N.W. 87th Avenue



MDX System Wide Landscaping

Bike Path *Palm Grove*



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MDX System Wide Landscaping

Bike Path between N.W. 87th Avenue and N.W. 107th Avenue



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MDX System Wide Landscaping

Bike Path *Pineland*



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MDX System Wide Landscaping

"WELCOME MIAMI-DADE"

Along SR 836 between NW 87th and 97th Avenue



MDX System Wide Landscaping

SR 874 after Hurricane Katrina and Wilma

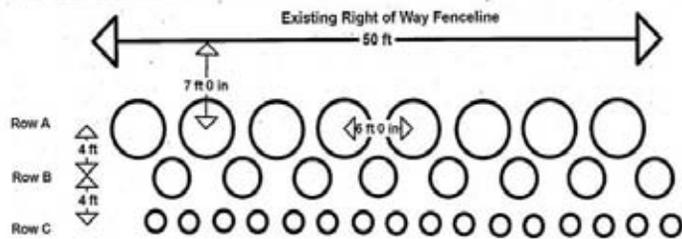
November 2005



Clearing of the hurricane damaged trees and debris resulted in expediting the design and installation of new plantings.

MDX System Wide Landscaping

SR 874 Concept Design



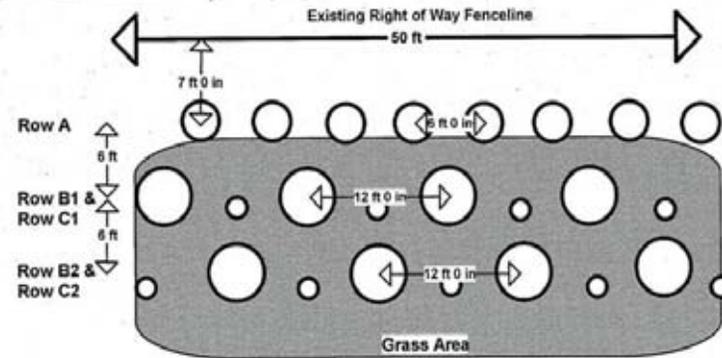
- Row A. Green buttonwood single row planting of 10' - 12' height x 5' spread bush type trees planted on 6' center to center spacing.
- Row B. Silver buttonwood single row planting of 4' - 5' height x 3' spread bush type trees planted on 6' center to center spacing.
- Row C. Cocoplum single row planting of 2' - 3' height x 2' spread bush type shrubs planted on 3' center to center spacing.

NOTE: 4 ft spacing between rows

Scale: 1" = 6'

SR 874 Landscape Restoration M.P. 5.7-6.3 Southbound

Tree Plan (section "A")



- Row A. Areca Palm single row planting of 10' - 12' height x 5' spread planted on 6' center to center spacing.
- Row B1. Sabal Palm staggered double row planting of 20' height back row and
- Row B2. Sabal Palm 16' height front row planted on 12' center to center spacing, 6 ft spacing between rows.
- Row C1. Red Stopper staggered double row planting of 6' - 7' height x 2' spread alternating with Row B1 and
- Row C2. Red Stopper alternating with Row B2 planted on 12' center to center spacing.
- Grass Area. Fakahatchee grass infill planting of 1 gallon 18" height x 12" spread planted on 3' triangular spacing.

Scale: 1" = 6'

SR 874 Landscape Restoration M.P. 5.7-6.3 Southbound

Palm Plan (section "B")

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SR 874 after landscaping
completed July 2006



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MDX System Wide Landscaping

SR 874 after landscaping
completed July 2006



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MDX System Wide Landscaping

SR 874 after landscaping

Completed July 2006



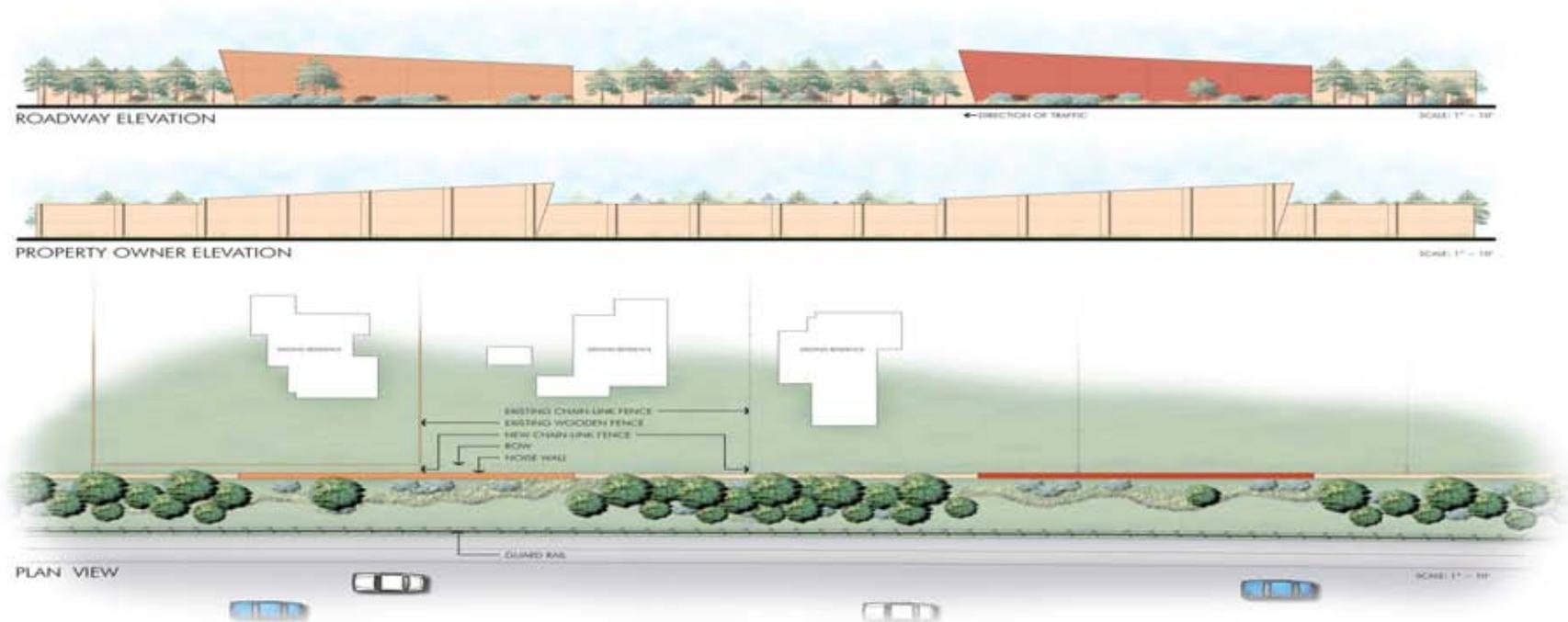
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MDX System Wide Landscaping

MDX Projects 87404 / 87407 – Landscaping & Aesthetics



SR-874 PROPOSED LANDSCAPE IMPROVEMENTS



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MDX System Wide Aesthetics

MDX Project 87407



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MDX Project 87407



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MDX Project 87407



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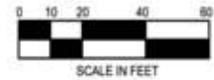
MDX System Wide Landscaping

MDX Project 87407



MDX System Wide Landscaping

SR 878 Concept Design



SR-878 PROPOSED LANDSCAPE IMPROVEMENTS



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MDX System Wide Landscaping

SR 878 After New Planting

Completed November 2006



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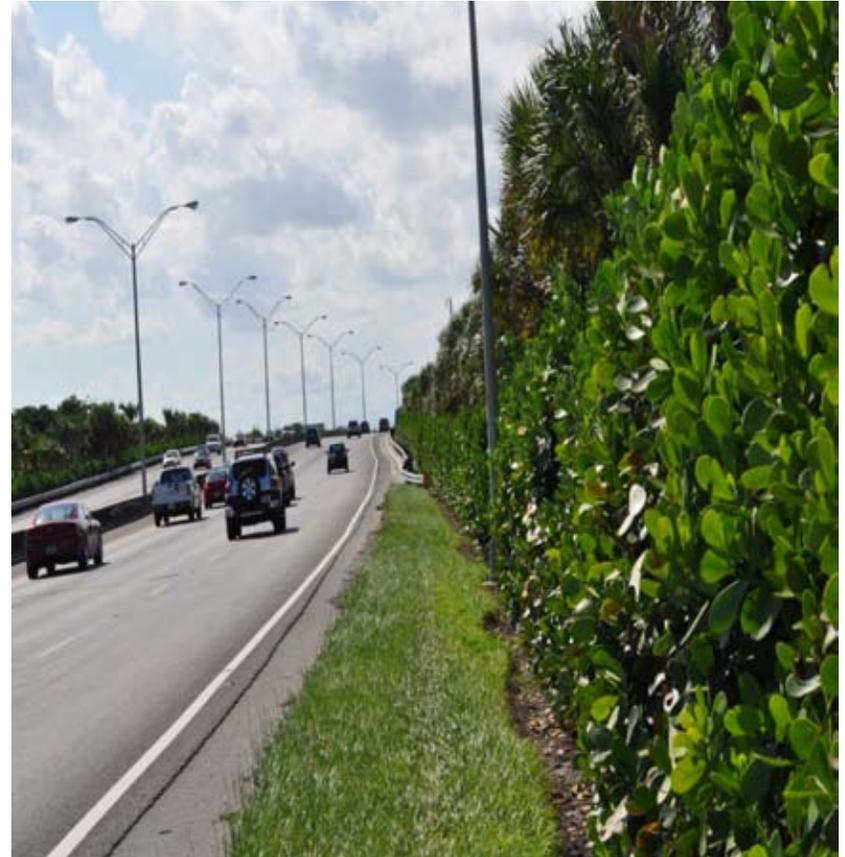
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MDX System Wide Landscaping

SR 878 After New Planting

Completed November 2006



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MDX System Wide Landscaping

SR 878 After New Planting

Completed November 2006



MDX System Wide Landscaping

Landscape Project SR 878 / US-1 Interchange

Projected



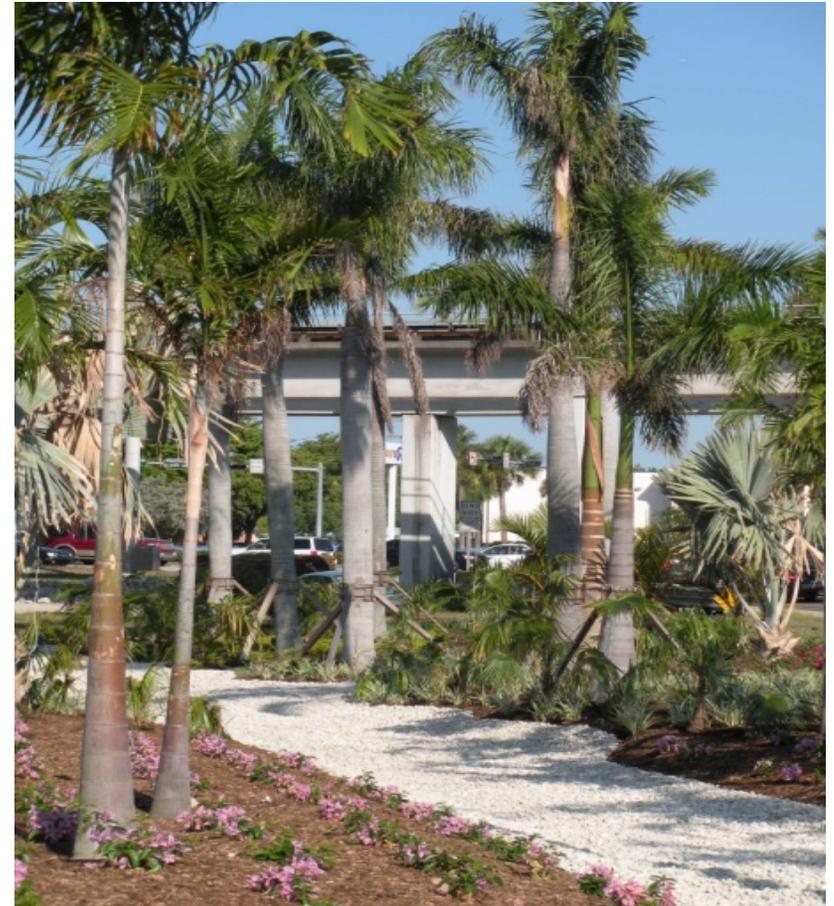
MDX System Wide Landscaping

Landscape Project SR 878 / US-1 Interchange



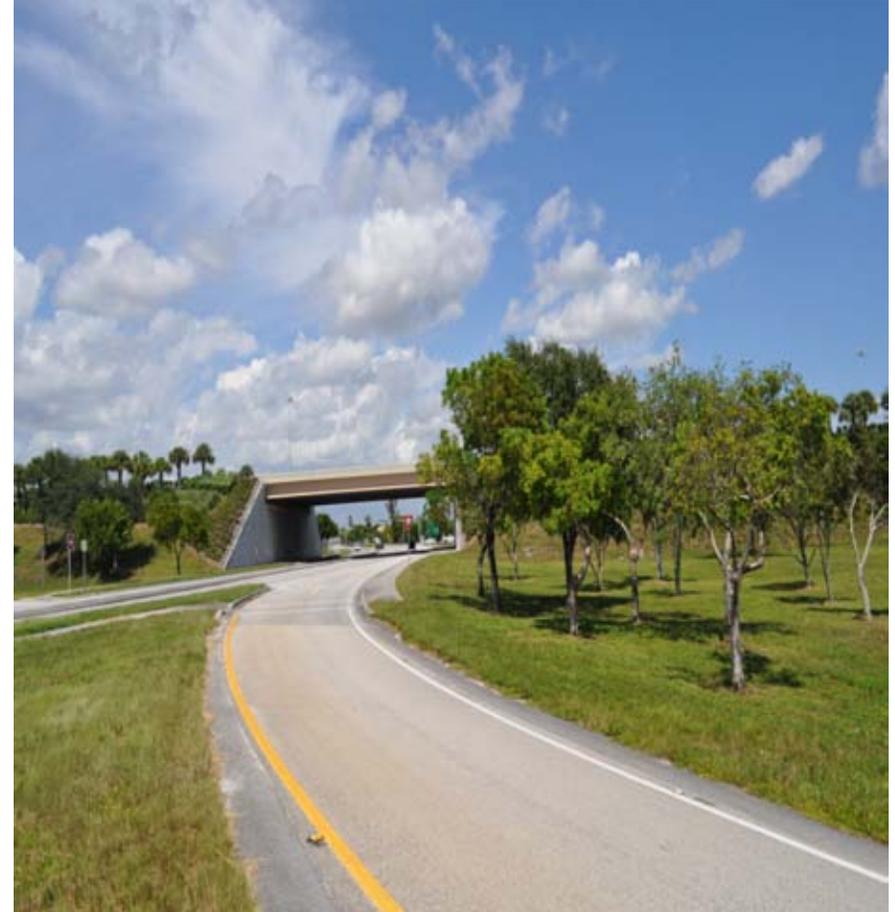
MDX System Wide Landscaping

Landscape Project SR 878 / US-1 Interchange



MDX System Wide Landscaping

SR 924



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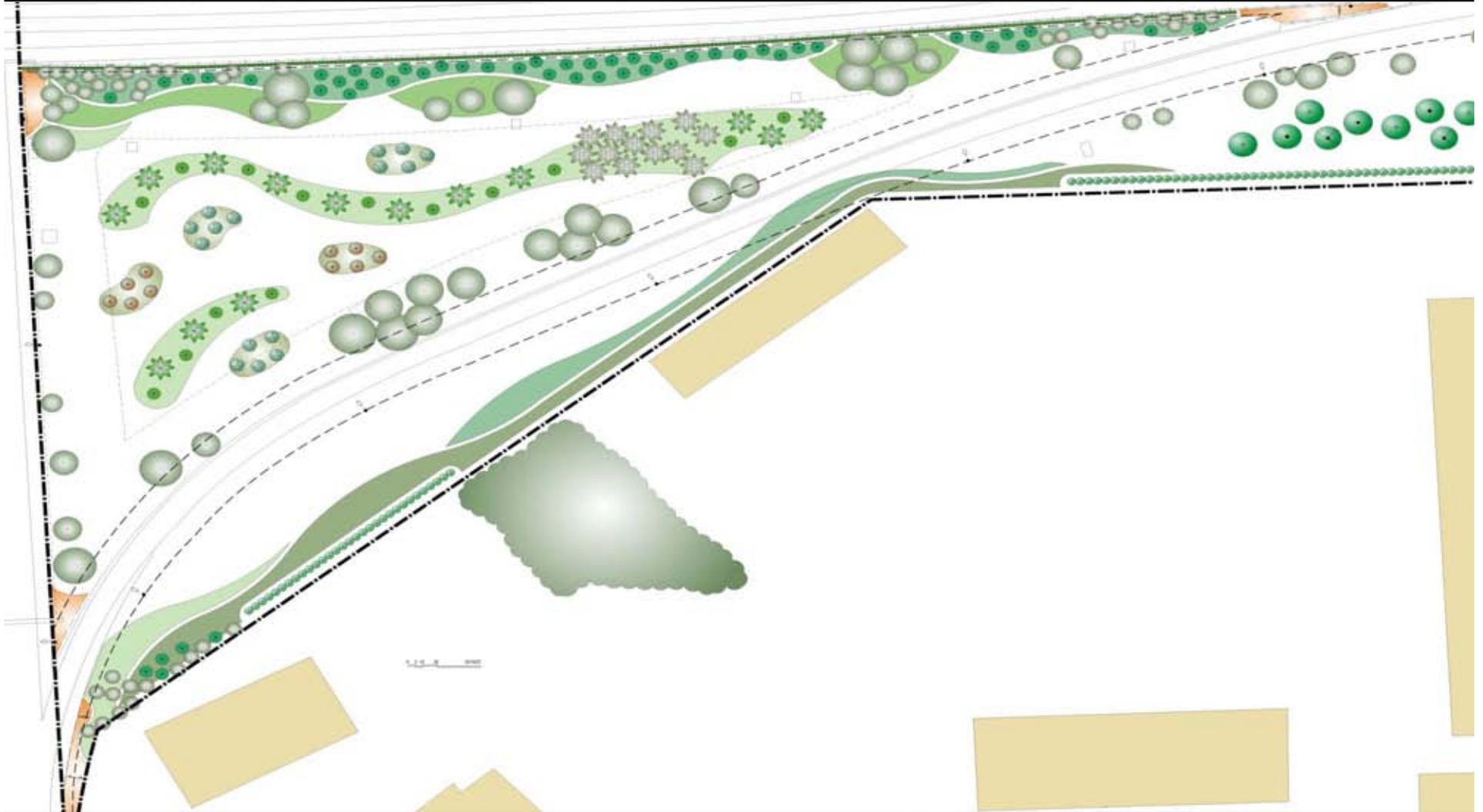
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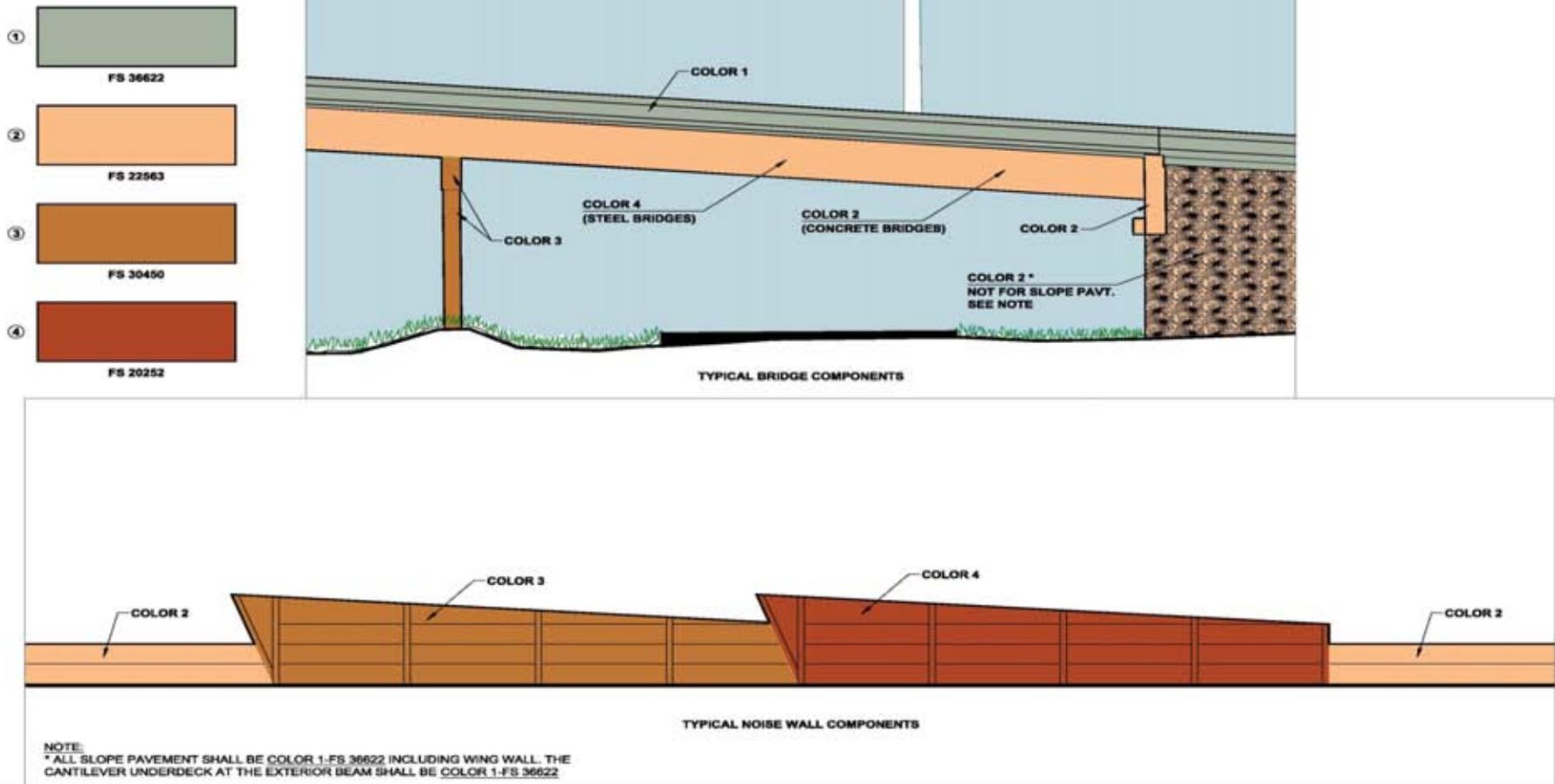
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MDX System Wide Aesthetics

SR 836 & SR 924 Corridor Aesthetic Color Scheme



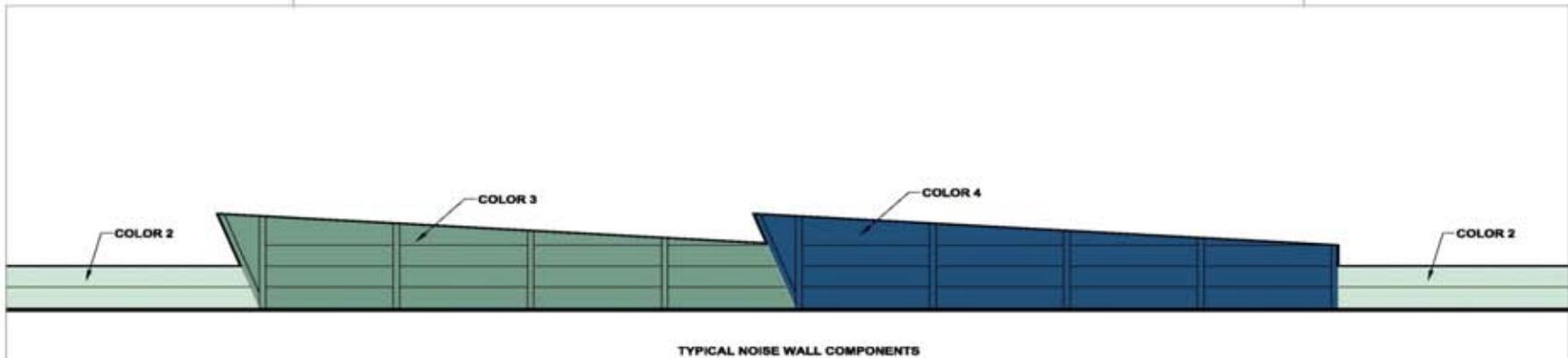
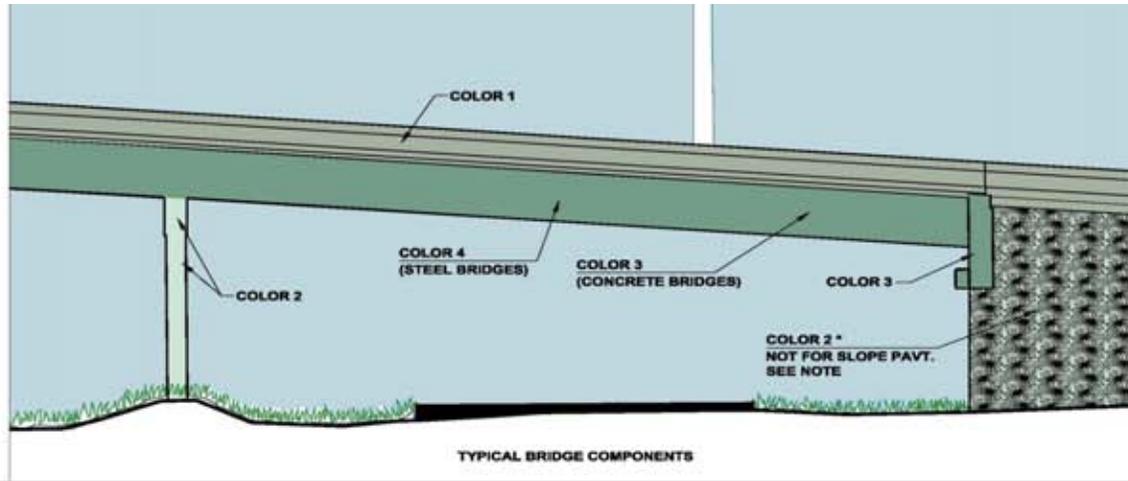
SR 836 & SR 924

BRIDGE AND NOISE WALL COLORS

MDX System Wide Aesthetics

SR 112 Corridors Aesthetic Color Scheme

- ① 
FS 36622
- ② 
FS 25622
- ③ 
FS 35352
- ④ 
FS 15125



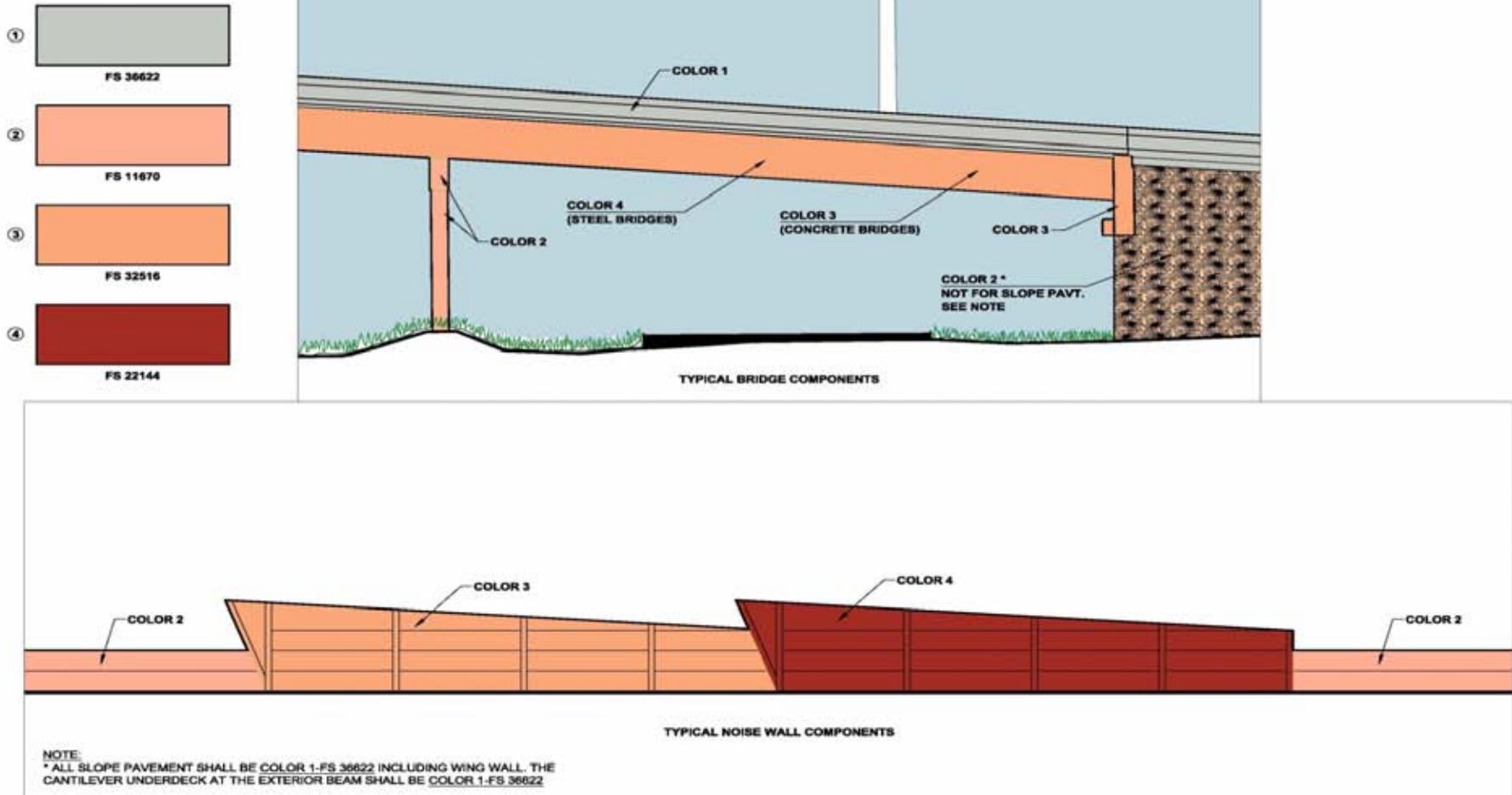
NOTE:
* ALL SLOPE PAVEMENT SHALL BE COLOR 1-FS 36622 INCLUDING WING WALL. THE CANTILEVER UNDERDECK AT THE EXTERIOR BEAM SHALL BE COLOR 1-FS 36622.

SCHEME 6 | BRIDGE AND NOISE WALL COLORS

SR 112

MDX System Wide Aesthetics

SR 874 & SR 878 Corridors Aesthetic Color Scheme



MDX System Wide Aesthetics

SR 836 Extension at N.W. 137th Avenue



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MDX System Wide Aesthetics

SR 836 Extension Toll Plaza

Completed July 2007



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MDX System Wide Aesthetics

SR 112 at LeJeune Road

Bridge Painting Project



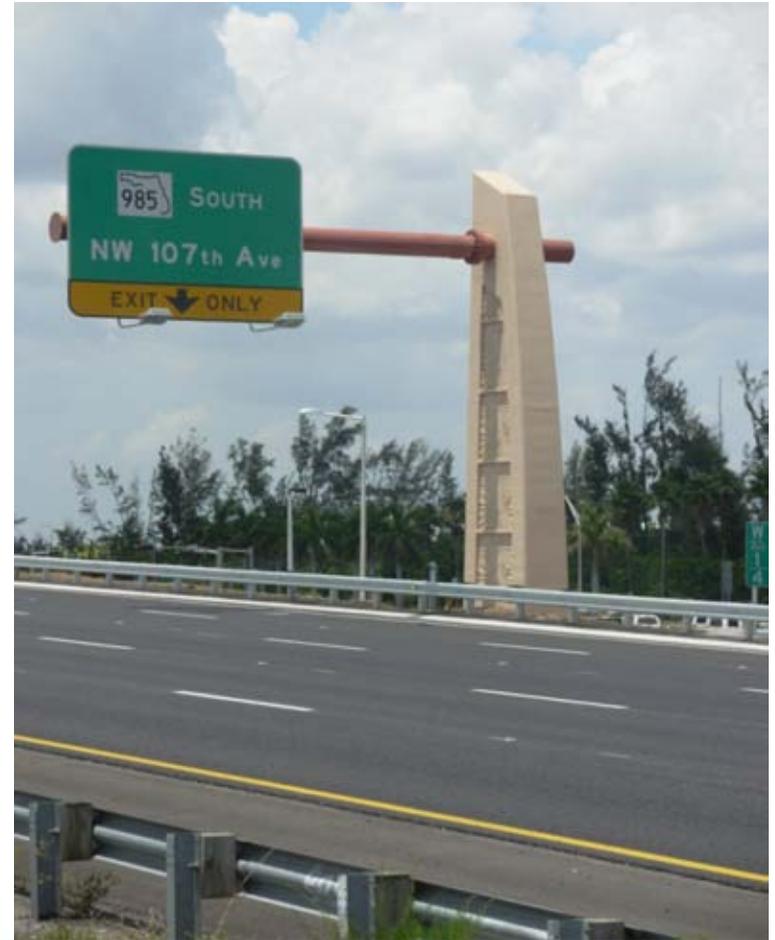
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MDX System Wide Aesthetics

MDX Sign Structures



MDX System Wide Aesthetics

SR 836 Extension Overhead and Cantilever Signs



MDX System Wide Aesthetics

SR 836 Overhead ORT Gantry and Sign Structure



MDX Update

Projects in Planning & Final Design

Juan Toledo
Assistant Director of Engineering

Miami Dade Expressway Authority
“Moving Miami-Dade”

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Projects in Planning Phase

- *SR 874 Ramp Connector to SW 136th Street (87410)*
 - Notice to Proceed to PD&E Consultant Oct. 2009
- *SR 924 West Extension to HEFT (92404)*
 - Notice to Proceed to PD&E Consultant Jan. 2010
- *SR 924 East Extension to I-95 (92407)*
 - Notice to Proceed to PD&E Consultant Jan. 2010
- *U.S. 1 Transit Express Lanes (20003)*
 - Notice to Proceed to PD&E Consultant May 2010
- *SR 836 Auxiliary Lane & Interchange Reconstruction (83628)*
 - On-going preparation of concept report. Final design not yet funded

Projects in Planning Phase

- *SR 836 / 87th Avenue Interchange Improvements (83629)*
 - On-going preparation of concept report. Final design expected to begin in 2010
- *SR 112 Milling, Resurfacing and Misc. Upgrades from NW 21st Street to 27th Avenue (30030)*
 - Final design to begin Dec. 2009
- *SR 112 Milling, Resurfacing and Misc. Upgrades from NW 27th Avenue to I-95 (30031)*
 - Final design to begin Dec. 2009

Projects in Design Phase

- *SR 836 Eastbound Auxiliary Lane from 72nd to 42nd Ave. (83622)*
 - Design is over 60% complete. Construction to begin in Dec. 2009
- *SR 874 Mainline Reconstruction between Kendall Drive and SR 826/Palmetto Expressway (87409)*
 - Design 30% complete
- *SR 874/SR 826 Interchange Improvements to which MDX is a \$60M funding partner (87411)*
 - Design-build contractor selected. Final design approx. 90% complete
- *SR 836/SR 826 Interchange Improvements to which MDX is a \$196.5 M funding partner (83608)*
 - Design-build contractor selected

Projects in Design Phase

- ***Reconstruction of Central Boulevard (11211)***
 - Project being implemented in partnership with FDOT and MDAD to reconstruct the primary access roadway between Miami International Airport and SR 112 and SR 836
 - Design-build contractor selection by Jan. 2010
- ***Open Road Tolling Infrastructure Modifications on SR 924 (92405), SR 874 (87412), and SR 878 (87801)***
 - Design-build contract awarded for installation of gantries, shelters and signage for the implementation of Open Road Tolling
 - Final design approx. 30% complete

MDX

Landscaping and Aesthetics Update

Thank You

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