



MIAMI-DADE
EXPRESSWAY
AUTHORITY

MDX Landscaping and Aesthetics Update

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Roadway Maintenance Engineer

February 22nd, 2008

MDX Aesthetics Enhancements Goals

- In July of 2003, the MDX Board adopted a policy that focused on developing roadway enhancements as an integral part of all roadway infrastructure and capacity improvements projects.
- 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**
- Final designs completed in Summer 2006
- Implementation of landscaping began in Fall of 2006 and will continue through 2008

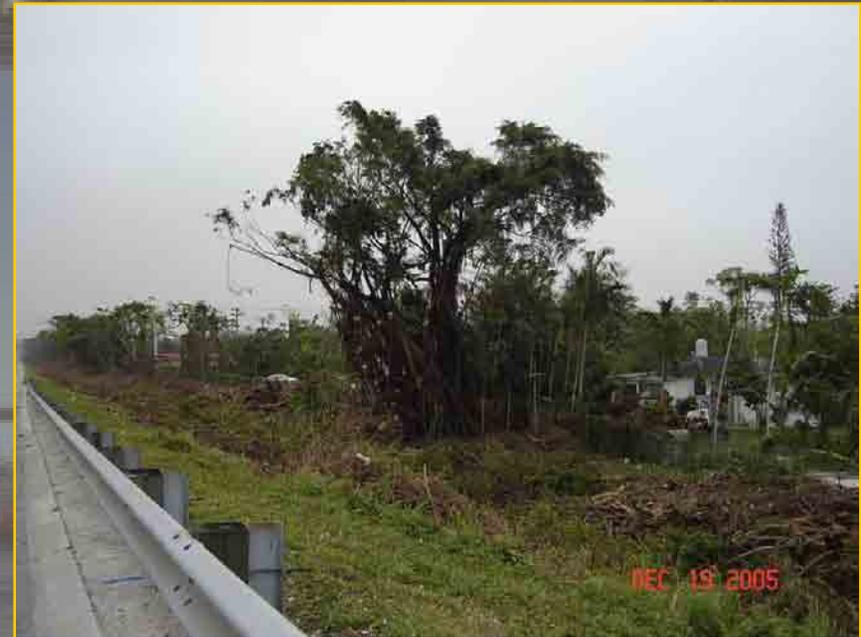
MDX System Wide Landscaping

SR 874

- As a result of the impacts incurred by Hurricanes Katrina and Wilma, priorities were shifted to the SR 874 corridor.
- Clearing of the hurricane damaged trees and debris resulted in expediting the design and installation of new plantings.
- This also provided the opportunity for using mixed planting schemes to benefit adjacent homeowners and MDX patrons.

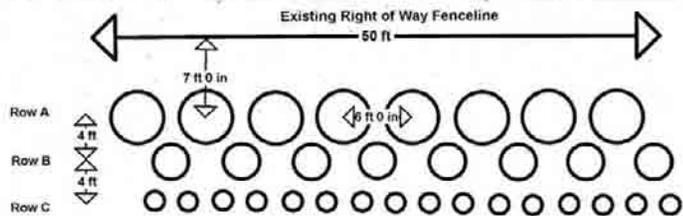
MDX System Wide Landscaping

SR 874 after Hurricane Katrina and Wilma
November 2005



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.

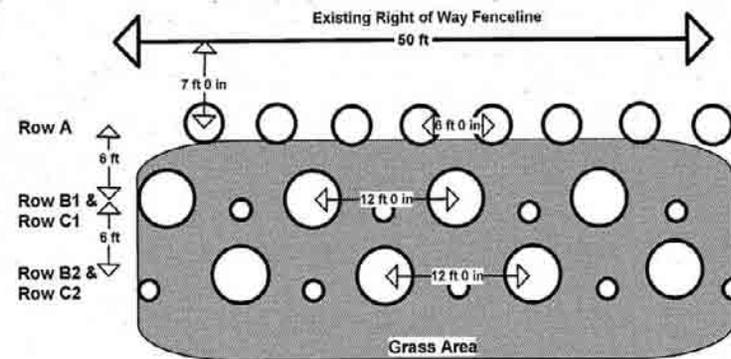
Row C. Cocoplum single row planting of 2' - 3' height x 2' spread bush type shrubs planted on 3' center to center spacing.

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")

MDX System Wide Landscaping

SR 874 after landscaping

Completed July 2006

Status April 2007



MDX System Wide Landscaping

SR 874 after landscaping
Status April 2007

Completed July 2006



MDX System Wide Landscaping

SR 874 after landscaping
Status April 2007

Completed July 2006



MDX System Wide Landscaping

SR 874 after landscaping
Status April 2007

Completed July 2006



MDX System Wide Landscaping

SR 874 after landscaping
Status January 2008

Completed July 2006



MDX System Wide Landscaping

SR 878 Prior to New Plantings



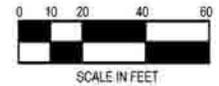
MDX System Wide Landscaping

SR 878 Prior to New Plantings



MDX System Wide Landscaping

SR 878 Concept Design



SR-878 PROPOSED LANDSCAPE IMPROVEMENTS



MDX System Wide Landscaping

SR 878 After New Planting
Completed November 2006



MDX System Wide Landscaping

**SR 878 After New Planting
Completed November 2006**



MDX System Wide Landscaping

**SR 878 After New Planting
Completed November 2006**

Status January 2008



MDX System Wide Landscaping

SR 878 After New Planting
Completed November 2006



MDX System Wide Landscaping

SR 878 After New Planting Completed November 2006



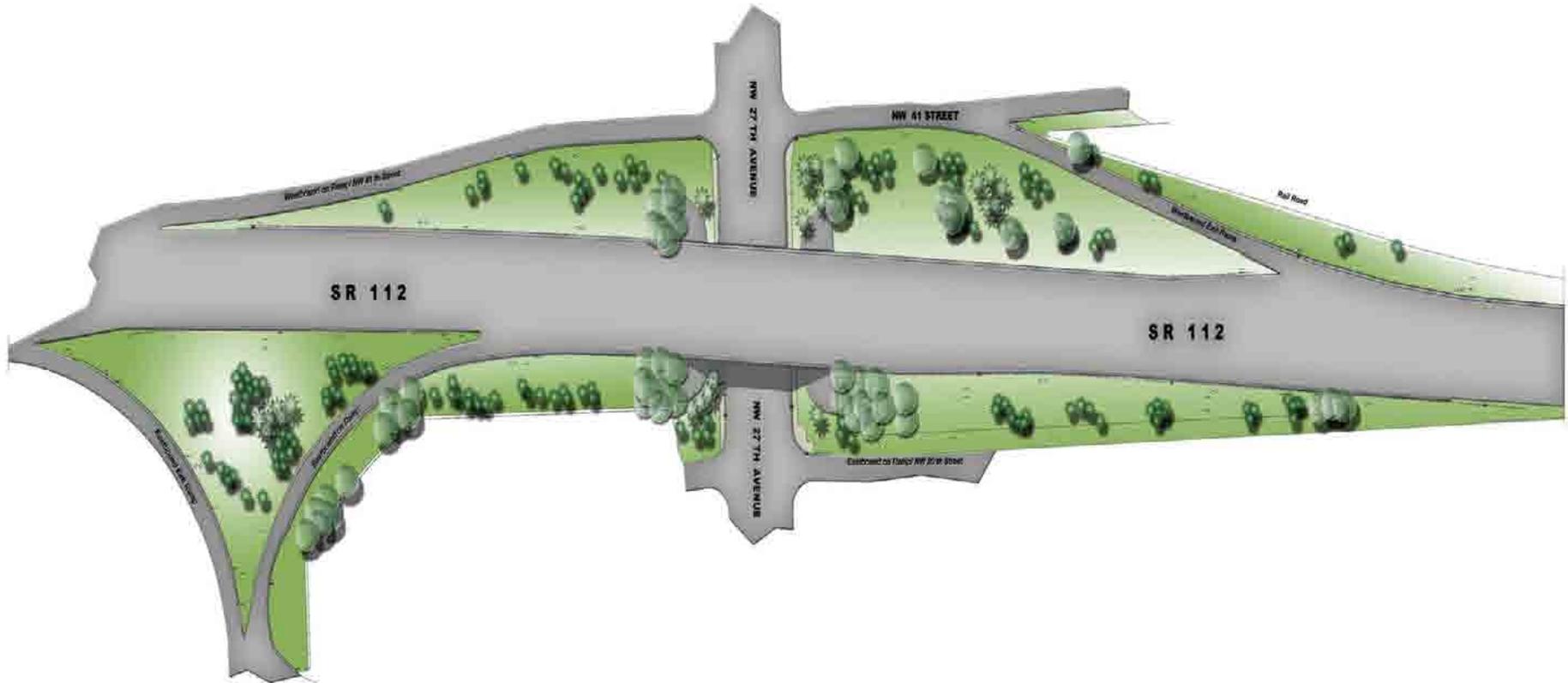
MDX System Wide Landscaping

SR 878 After New Planting Completed November 2006
Status January, 2008



MDX System Wide Landscaping

SR 112 / N.W. 27th Avenue Pre-existing Condition

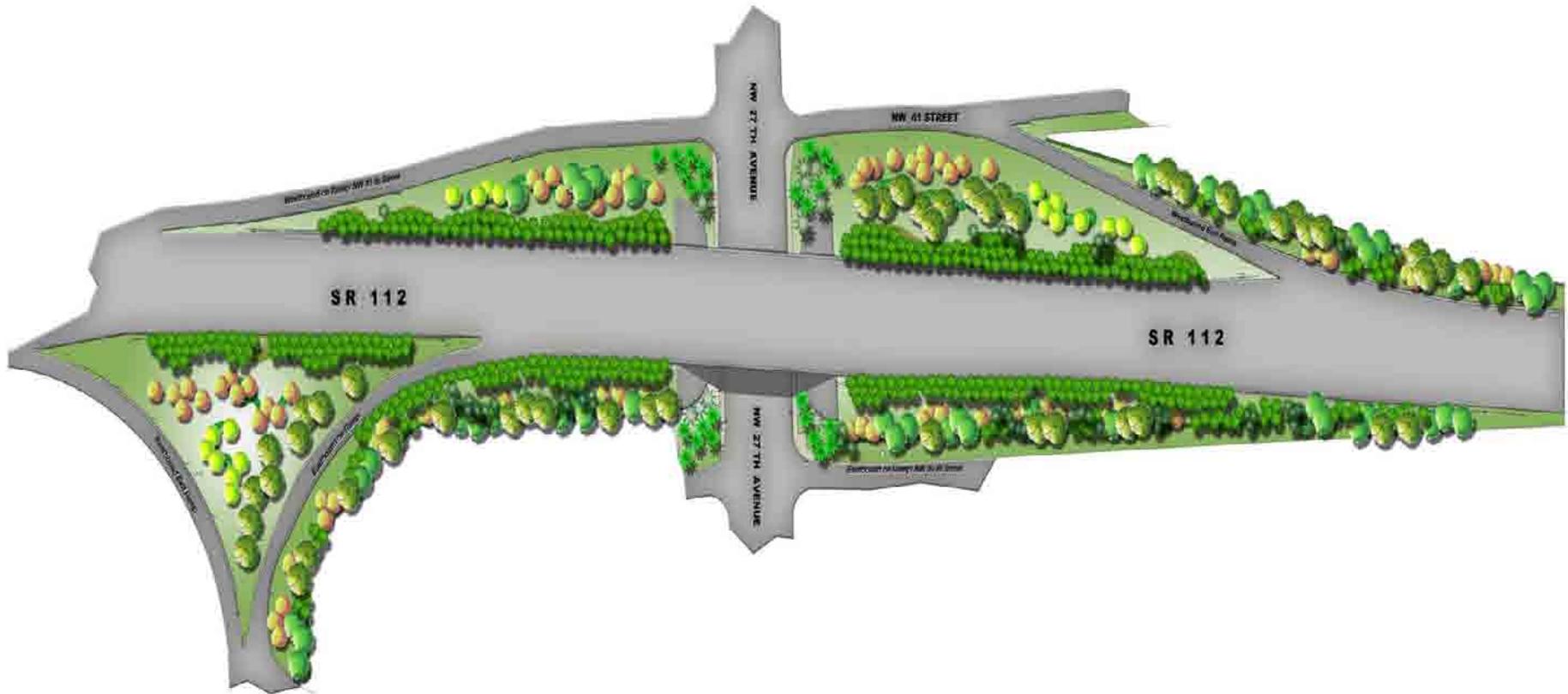


MDX INTERCHANGE - SR 112/27 AVE

EXISTING CONDITIONS

MDX System Wide Landscaping

SR 112 / N.W. 27th Avenue Concept Design



MDX INTERCHANGE - SR 112/27 AVE

CONCEPTUAL LANDSCAPE PLAN

MDX System Wide Landscaping

SR 112 / N.W. 27th Avenue After New Plantings
Completed February, 2007



MDX System Wide Landscaping

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

Completed February, 2007

Status January, 2008



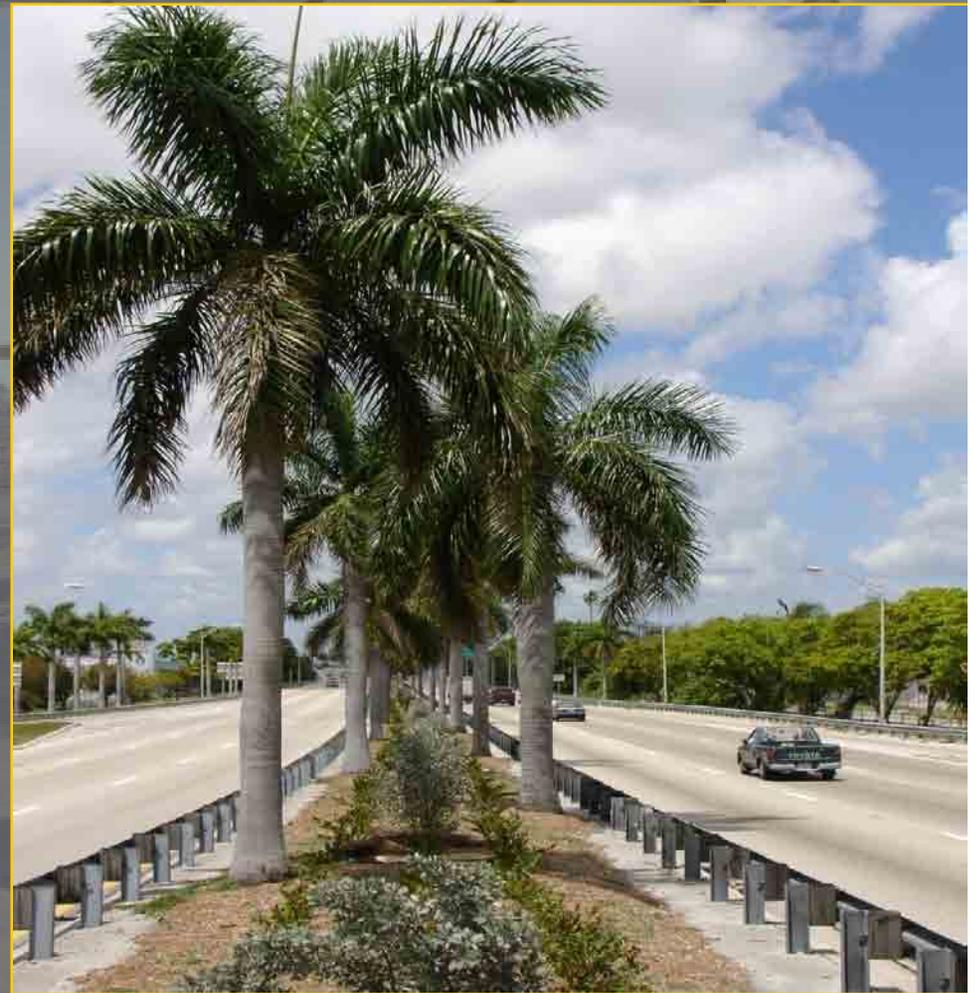
MDX System Wide Landscaping

**SR 112 / N.W. 27th Avenue After New Plantings
Completed February 2007 Status January 2008**



MDX System Wide Landscaping

SR 112 Median After New Plantings Completed
February 2007



MDX System Wide Landscaping

SR 112 Median After New Plantings

Completed February 2007

Status January 2008



MDX System Wide Landscaping

SR 112 West End After New Plantings
Completed December 2007



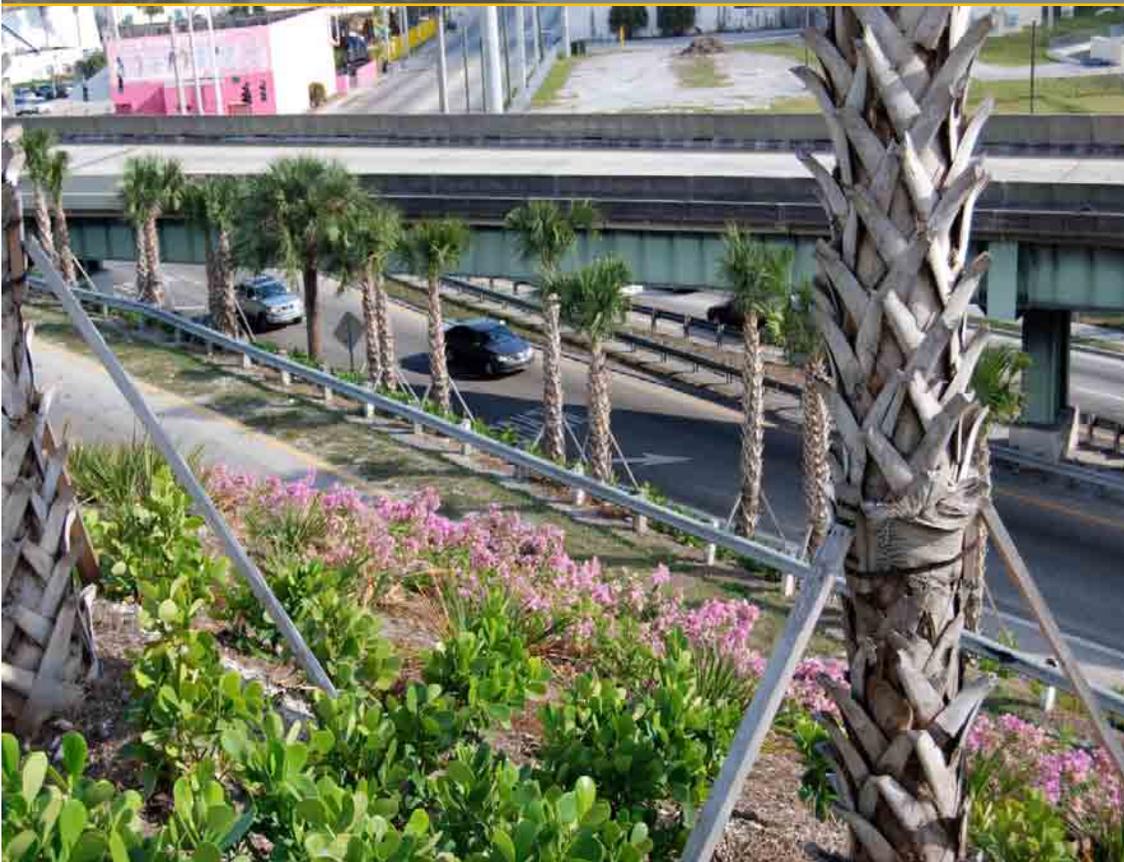
MDX System Wide Landscaping

SR 112 West End After New Plantings
Completed December 2007



MDX System Wide Landscaping

SR 112 West End After New Plantings
Completed December 2007



MDX System Wide Landscaping

SR 112 / N.W. 40th Street

Illegal dump site to Park



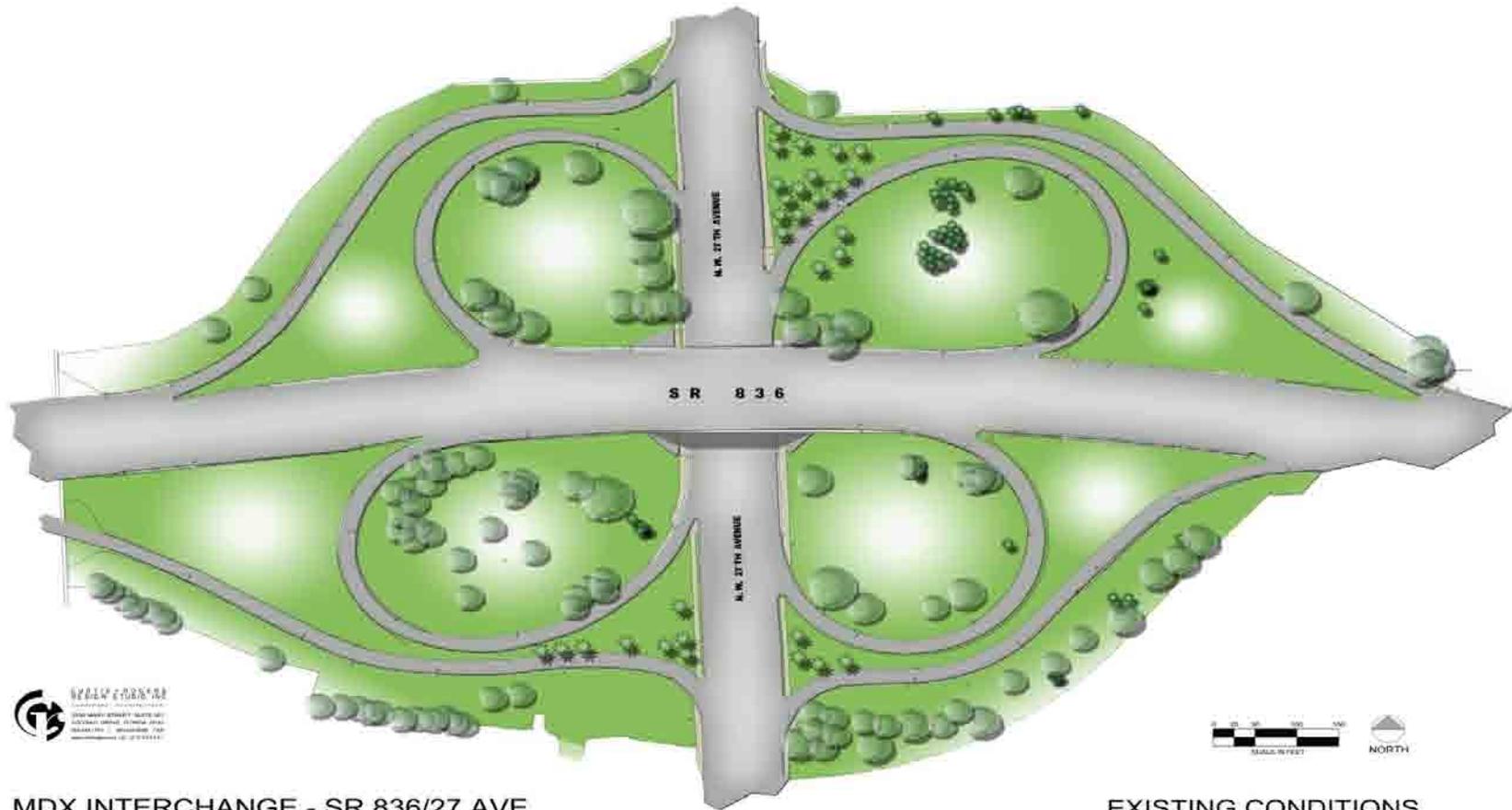
MDX System Wide Landscaping

SR 112 / N.W. 39th Street



MDX System Wide Landscaping

SR 836 / N.W. 27th Avenue Pre-existing Condition



MDX INTERCHANGE - SR 836/27 AVE

EXISTING CONDITIONS

MDX System Wide Landscaping

SR 836 / N.W. 27th Avenue Pre-existing Condition



MDX System Wide Landscaping

SR 836 / N.W. 27th Avenue Pre-existing Condition



MDX System Wide Landscaping

SR 836 / N.W. 27th Avenue Pre-existing Condition



MDX System Wide Landscaping

SR 836 / N.W. 27th Avenue Pre-existing Condition



MDX System Wide Landscaping

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



MDX INTERCHANGE - SR 836/27 AVE

CONCEPTUAL LANDSCAPE PLAN

MDX System Wide Landscaping

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



MDX INTERCHANGE - SR 836 / 27th AVENUE

TYPICAL SECTION



MDX System Wide Landscaping

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



MDX System Wide Landscaping

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



MDX System Wide Landscaping

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



MDX System Wide Landscaping

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



MDX System Wide Landscaping

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



MDX System Wide Landscaping

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



MDX System Wide Landscaping

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



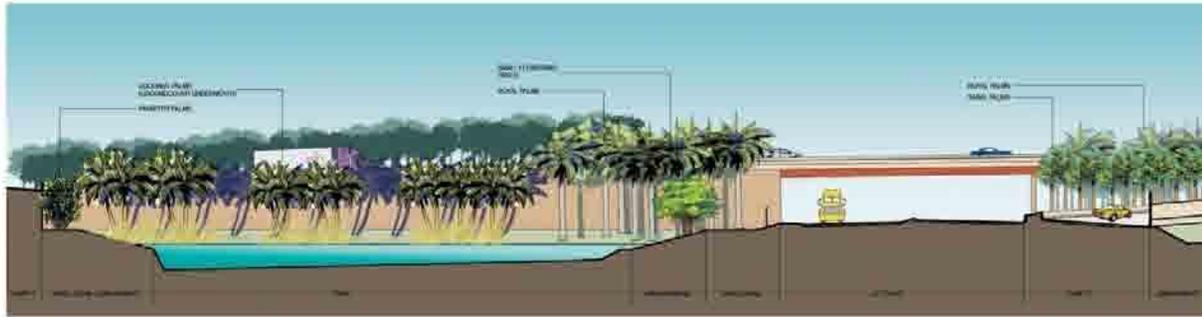
MDX System Wide Landscaping

SR 836 / N.W. 87th to 137th Avenue Pre-existing Condition



MDX System Wide Landscaping

Future Landscape Project MDX 83617



137 TH AVE. INTERCHANGE - NORTH ELEVATION



137 TH AVE. INTERCHANGE - WEST ELEVATION

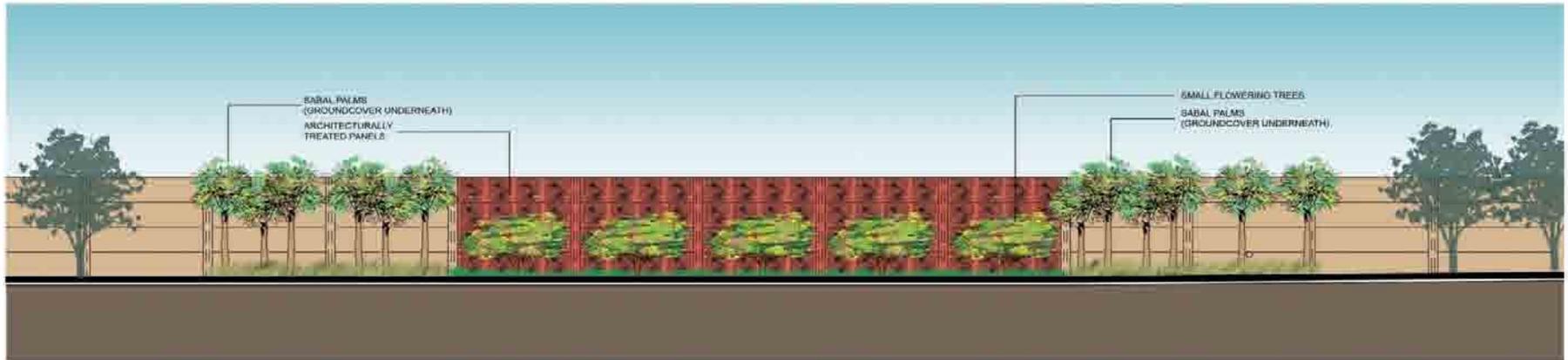


SR-83617 PROPOSED LANDSCAPE IMPROVEMENTS



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



MDX System Wide Landscaping

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



MDX System Wide Landscaping

Landscape Project MDX 83617

Began August 2007



MDX System Wide Landscaping

Landscape Project MDX 83617

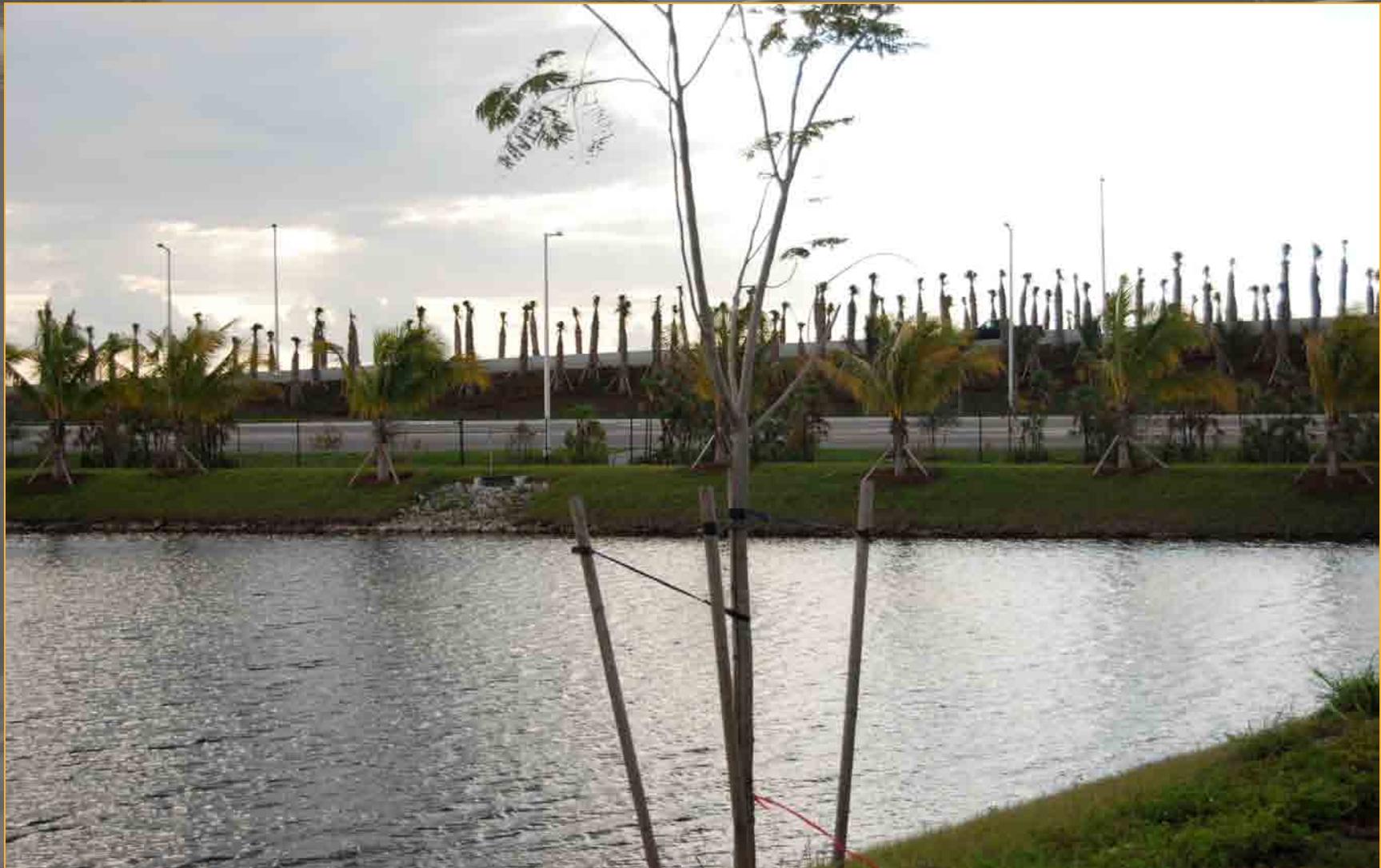
Began August 2007



MDX System Wide Landscaping

Landscape Project MDX 83617

Segment 1



MDX System Wide Landscaping

Landscape Project MDX 83617

Segment 1



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 SR 878 / US-1 Interchange Pre-existing Condition



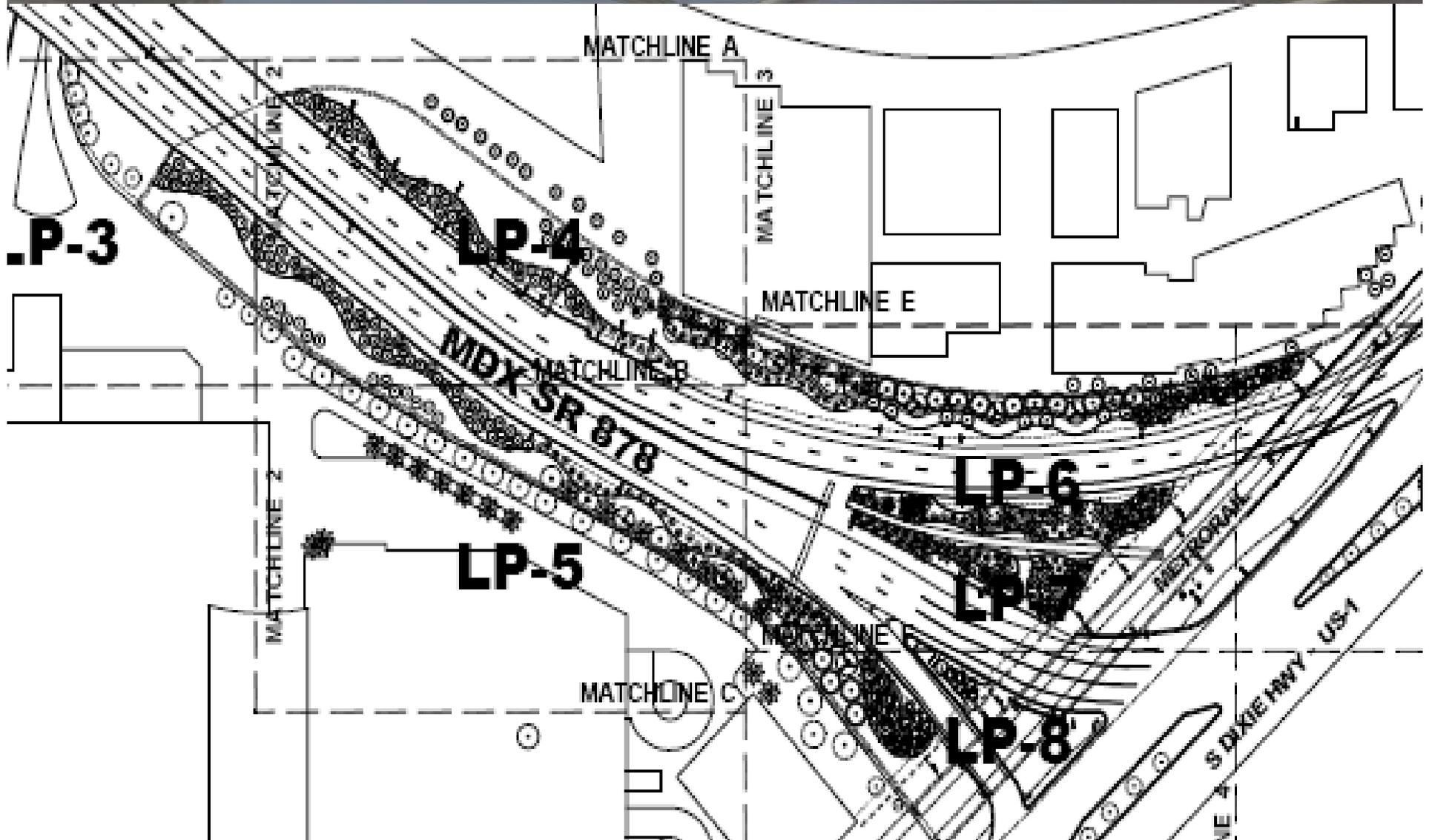
MDX System Wide Landscaping

Landscape Project SR 878 / US-1 Interchange Pre-existing Condition



MDX System Wide Landscaping

Landscape Project SR 878 / US-1 Interchange



MDX System Wide Landscaping

Landscape Project SR 878 / US-1 Interchange Projected



MDX System Wide Landscaping

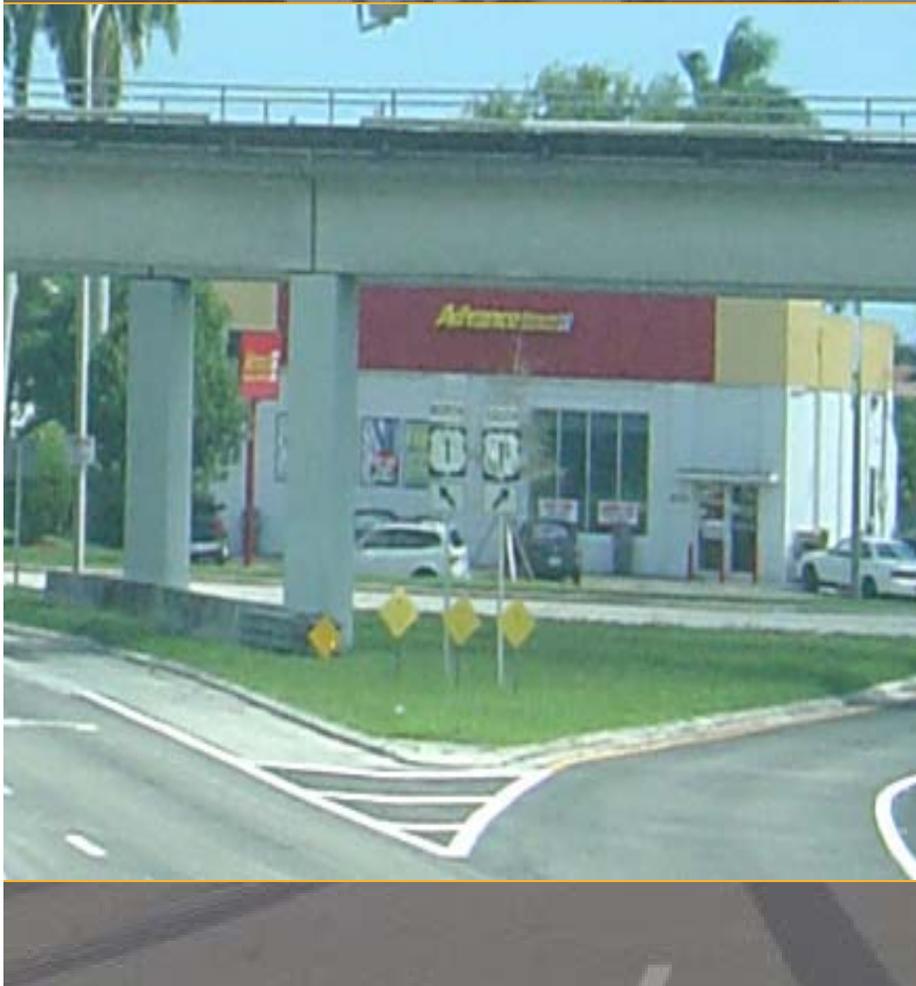
Landscape Project SR 878 / US-1 Interchange
Projected



MDX System Wide Landscaping

Landscape Project SR 878 / US-1 Interchange

Pre-existing



Projected



MDX System Wide Landscaping

Landscape Project SR 878 / US-1 Interchange

Pre-existing



Proposed



MDX System Wide Aesthetics

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



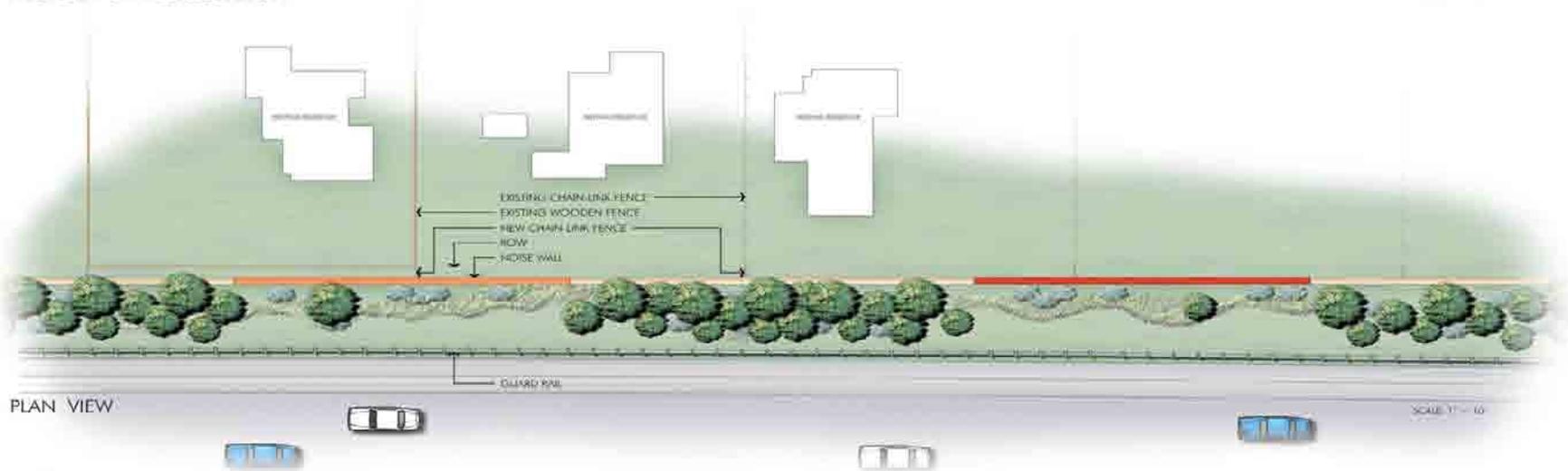
MDX System Wide Aesthetics

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



MDX System Wide Landscaping

MDX Projects 87404 / 87407 – Landscaping & Aesthetics

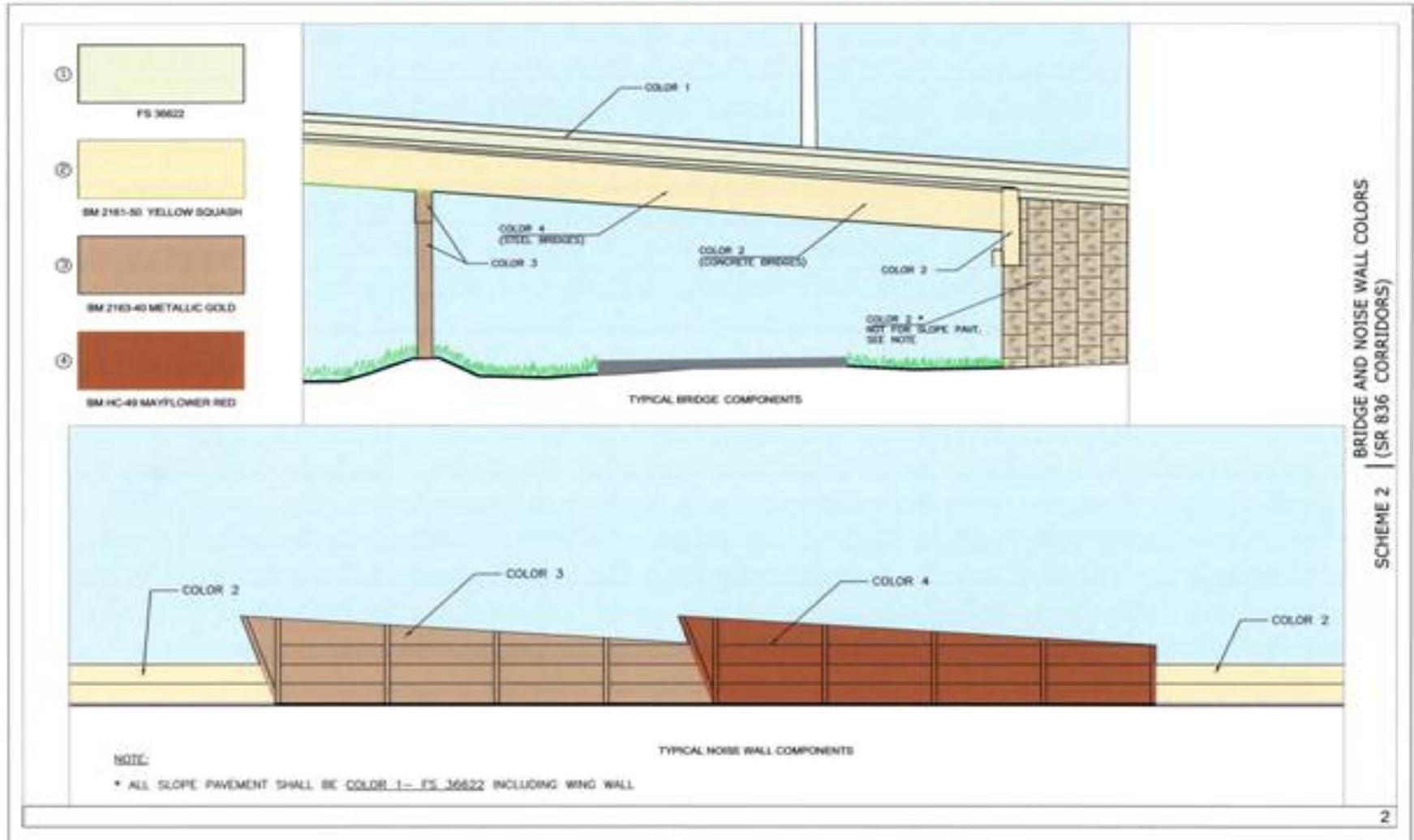


SR-874 PROPOSED LANDSCAPE IMPROVEMENTS



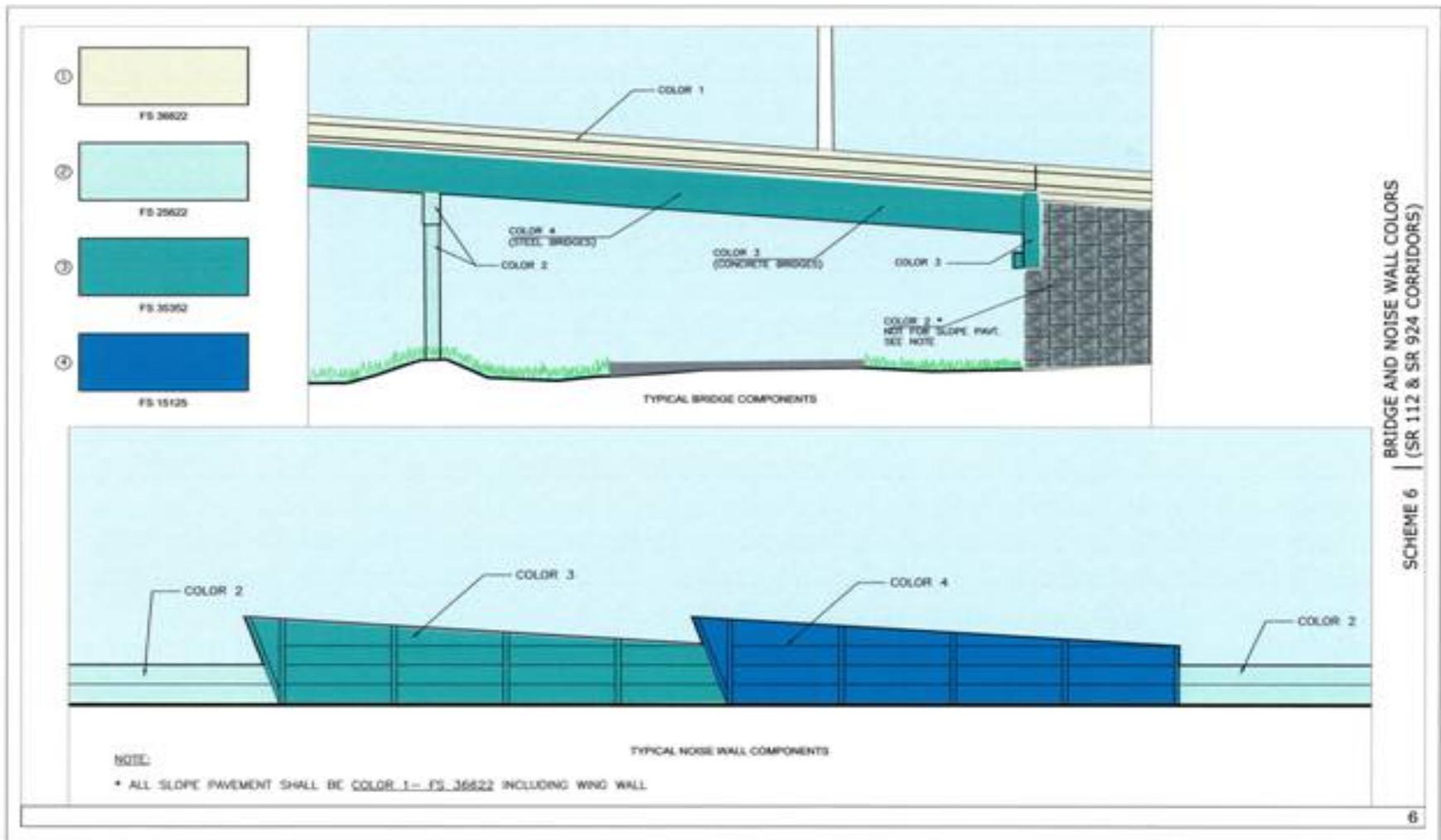
MDX System Wide Aesthetics

SR 836 Corridor Aesthetic Color Scheme



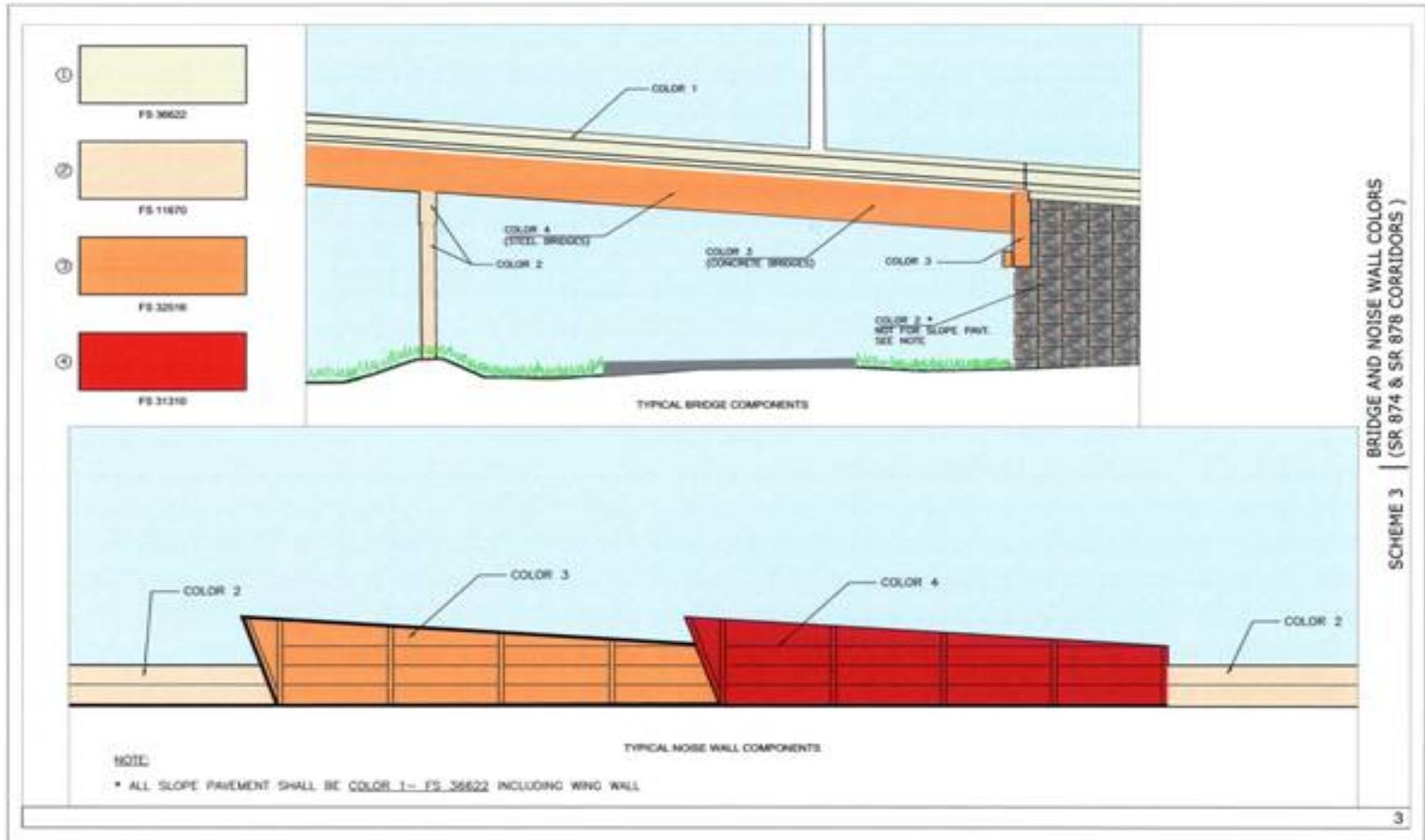
MDX System Wide Aesthetics

SR 112 & SR 924 Corridors Aesthetic Color Scheme



MDX System Wide Aesthetics

SR 874 & SR 878 Corridors Aesthetic Color Scheme



MDX System Wide Aesthetics

MDX Project 87407



MDX System Wide Aesthetics

MDX Project 87407



MDX System Wide Aesthetics

SR 836 Extension at N.W. 137th Avenue



MDX System Wide Aesthetics

SR 836 Extension at N.W. 137th Avenue



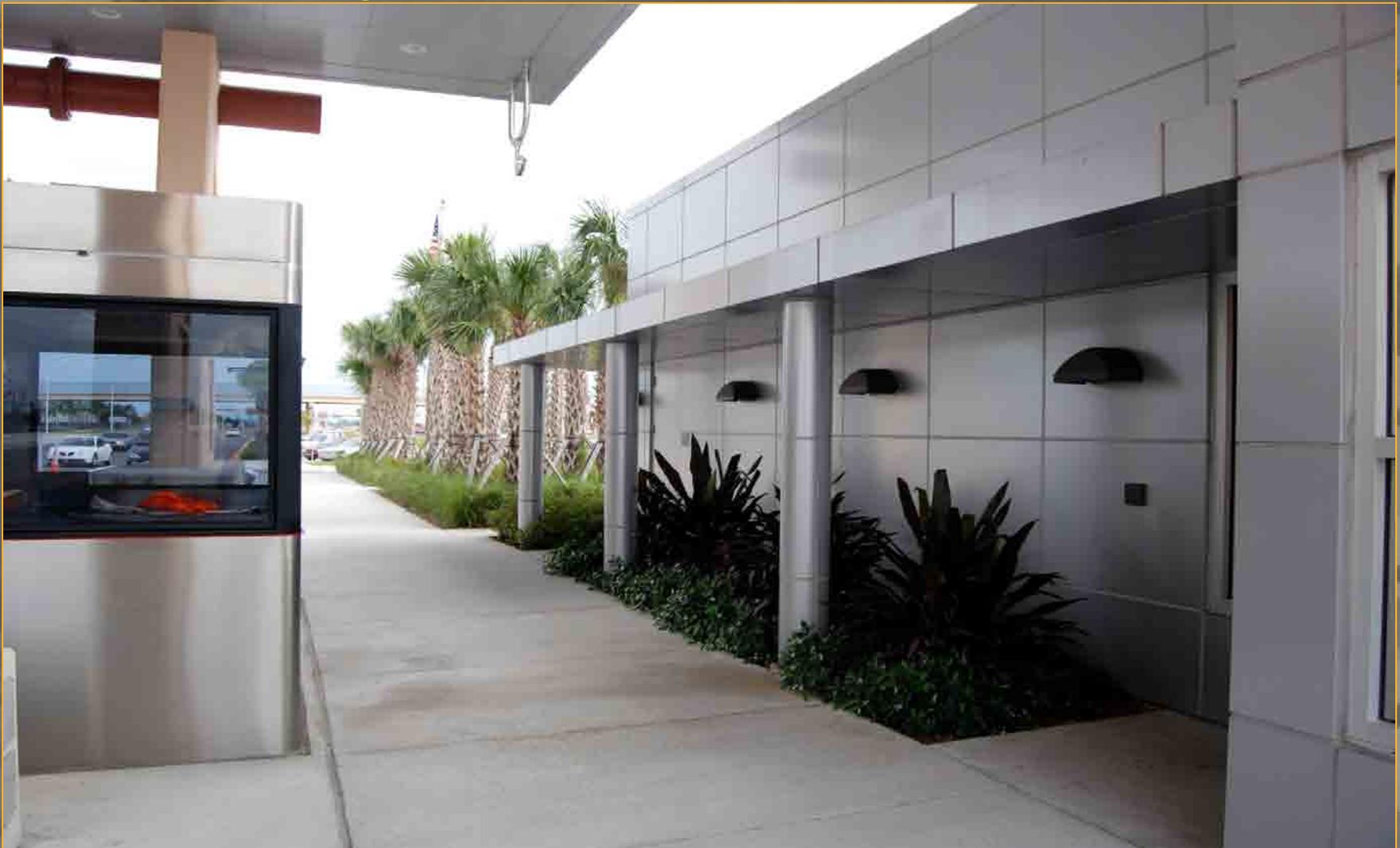
MDX System Wide Aesthetics

SR 836 Extension – Toll Plaza Completed July 2007



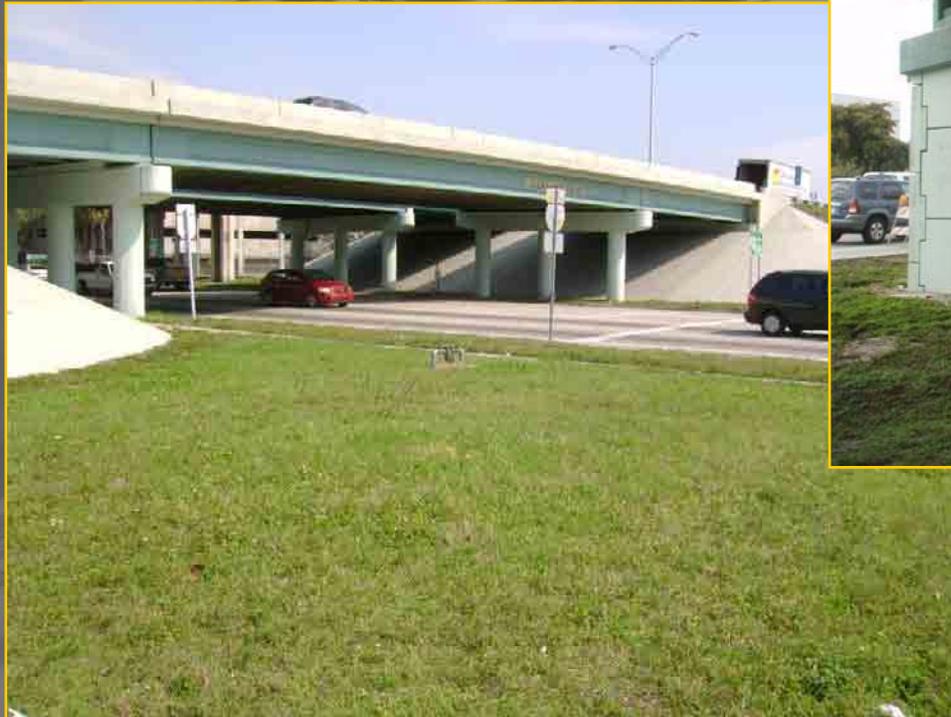
MDX System Wide Aesthetics

**SR 836 Extension – Toll Plaza Completed July 2007
Status January 2008**



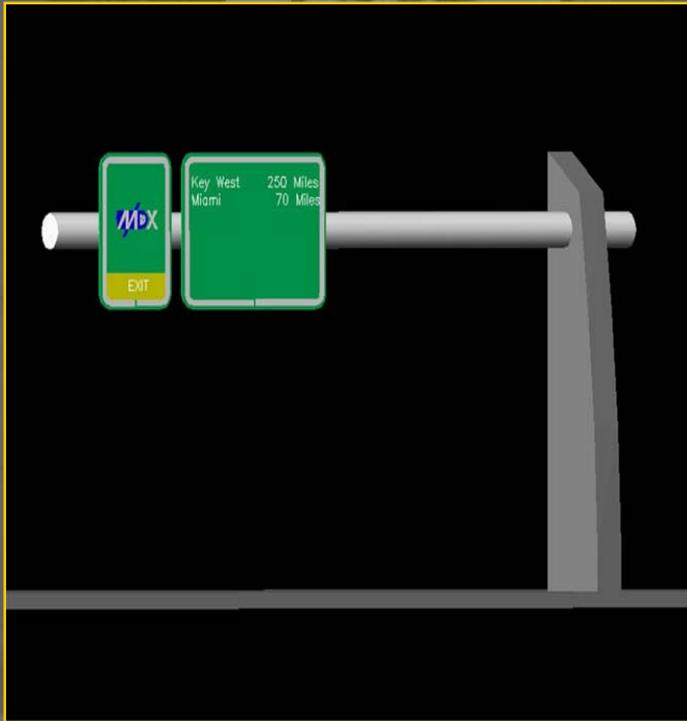
MDX System Wide Aesthetics

SR 112 at Le Jeune Road – Bridge Painting Project



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





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MDX Landscaping and Aesthetics Update

Thank You