MDX Landscaping and Aesthetics Update

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Roadway Maintenance Engineer

February 22nd, 2008
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
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

**Tree Plan (section "A")**

Row A: Green buttonwood single row planting of 10'-12' height x 5' spread

Bush type trees planted on 8' center to center spacing.

Row B: Silver buttonwood single row planting of 4'-6' height x 3' spread

Bush type shrubs planted on 4' 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**

**Palm Plan (section "B")**

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 12' height back row and

Row B2: Sabal Palm 10' 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**
MDX System Wide Landscaping

SR 874 after landscaping  Completed July 2006
Status April 2007
MDX System Wide Landscaping

SR 874 after landscaping  Completed July 2006
Status April 2007
MDX System Wide Landscaping

SR 874 after landscaping  Completed July 2006
Status April 2007
MDX System Wide Landscaping

SR 874 after landscaping  Completed July 2006
Status April 2007
MDX System Wide Landscaping

SR 874 after landscaping  Completed July 2006
Status January 2008
MDX System Wide Landscaping

SR 878 Prior to New Plantings
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 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
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 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

107TH AVENUE - ELEVATION

STATION 573 + 00 - SECTION

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 2
MDX System Wide Landscaping

Landscape Project MDX 83617 Segment 2
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

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
MDX Landscaping and Aesthetics Update

Thank You