

2012

Annual Inspection Report



ORLANDO - ORANGE COUNTY
EXPRESSWAY AUTHORITY

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Roadway and Building Inspection Worksheets are included on the compact disk (CD) attached to the back cover of this report. Instructions for viewing the disk are also included as the last page in this report.

2012 Annual Inspection Report



Executive Summary



Executive Summary

The 2012 inspection of the Orlando-Orange County Expressway Authority's (Authority) system, performed by Atkins, the Authority's General Engineering Consultant, included a visual inspection of the roadways, buildings, and bridges under Authority jurisdiction.

The Authority's roadway system includes SR 408 (East-West Expressway), SR 414 (John Land Apopka Expressway), SR 417 (Central Florida GreeneWay) from International Drive to the Seminole County line, SR 429 (Daniel Webster Western Beltway) from Seidel Road to US 441 and SR 528 (Beachline Expressway) from McCoy Road to SR 520. The system totals 105 existing centerline miles of highway with 57 interchanges, 14 mainline toll plazas, 62 ramp toll plazas and 282 bridges. In addition, there are 4 centerline miles and 2 ramp toll plazas currently under construction. The Authority also operates a non-system, 2 mile tolled expressway (Goldenrod Extension) with one mainline plaza. The inspection results for the Goldenrod Extension are included under separate cover.

Rating systems were used to evaluate the condition status of the roadways, buildings, and bridges on the Authority's system. The findings, summarized in the 2012 Annual Inspection Report, reflect the condition of the feature(s) on the day the inspection was performed. Many of the deficiencies noted may have been corrected subsequent to the inspection as part of the Maintenance Program currently administered by the Authority.

The findings of the 2012 inspection concluded that the Authority's roadway system is in good condition. This includes Roadway/Pavement, Roadside, Traffic Services, Drainage and Vegetation/Aesthetics Features.

The overall appearance of the Authority's toll facilities and buildings along SR 408, SR 414, SR 417, SR 429 and SR 528 remains generally good.

Bridge inspections are conducted by Certified Bridge Inspectors under a program administered by the Florida Department of Transportation (FDOT) and funded by the Authority. Inspection results are published twice per year. No load limits or weight restrictions have been imposed that would constrain the use of any bridge on the Authority's system. According to the Florida Transportation Commission (FTC) performance measures, 99.3% of the bridges on the Authority's system are rated excellent or good.

The deficiencies identified in this year's report can be corrected through routine maintenance contracts that are part of the Authority's Maintenance Program.

2012 Annual Inspection Report



Section 1 Introduction



1. Introduction

1.1 Background

Between July and October 2012, Atkins, the Orlando-Orange County Expressway Authority's (Authority) General Engineering Consultant, conducted the annual inspection of the Authority's system as required by Article V, Section 5.12 (C) of the Amended and Restated Master Bond Resolution.

The Authority's roadway system, which includes SR 408 (East-West Expressway), SR 414 (John Land Apopka Expressway), SR 417 (Central Florida GreeneWay) from International Drive to the Seminole County line, SR 429 (Daniel Webster Western Beltway) from Seidel Road to US 441 and SR 528 (Beachline Expressway) from McCoy/Boggy Creek Road to SR 520 is a major transportation network. The system consists of 105 existing centerline miles of highway with 57 interchanges, 14 mainline toll plazas, 62 ramp toll plazas, and 282 bridges (and other structures and appurtenances). In addition, there are 4 centerline miles and 2 ramp toll plazas currently under construction. The Authority also operates a non-system, 2 mile tolled expressway (Goldenrod Extension) with one mainline toll plaza. The inspection results for the Goldenrod Extension are included under separate cover.

The Authority's system was examined by means of a visual inspection. The 2012 Annual Inspection Report summarizes the findings of these examinations by category:

- Roadways
- Buildings
- Bridges

Each category has been divided into segments corresponding to the roadway being inspected (SR 408, SR 414, SR 417, SR 429 and SR 528). Figure 1-1 depicts the Authority's system and toll facilities. For purposes of reporting, the roadway inspection references mile post locations. The mile post locations on the Authority's system can be found in Figure 1-2.

Rating systems were used to evaluate the condition status of roadways, buildings, and bridges. The procedures for these rating systems are summarized in Section 2 of this report.

The inspection results, summarized in Section 3 of this report, reflect the condition of the feature(s) on the day the inspection was performed. Many of the deficiencies noted may have been corrected subsequent to the inspection as part of the Authority's Maintenance Program.

At the time the 2012 inspection was performed, the following construction projects were

underway:

- Construction of the SR 414 Extension and the system interchange with SR 429
- Widening of SR 408 from Goldenrod Road to SR 417 (including the SR 408 / SR 417 Interchange)

As a result, these portions of the roadway were not inspected. Section 3 of this report identifies the specific roadway sections that were not inspected due to construction activities.

1.2 Authority's Maintenance Program

Highway Maintenance Program

The Authority's fiscal year¹ (FY) 2013 Highway Maintenance Fund is budgeted at \$13.56 million for maintenance administration, expressway operations, routine maintenance, capital expenditures and Florida Department of Transportation (FDOT) services.

The Authority employs two contractors to perform routine maintenance and management services for roadways and bridges. One contractor maintains SR 408, SR 417 and SR 528, while the other maintains SR 414 and SR 429.

Building Maintenance Program

The toll facilities and buildings, as well as the Authority's headquarters building are maintained by a single contractor. The Authority's building maintenance budget for FY 2013 is \$1.18 million.

Maintenance Program Overview

As part of the report preparation process, a representative of Atkins met with the Authority's Director of Construction and Maintenance to discuss the major achievements of the past fiscal year (FY 2012) and the goals and objectives for the coming fiscal year (FY 2013).

Staff identified the following major achievements during the past fiscal year (FY 2012):

- Continued management of the ongoing program for maintenance of the ITS infrastructure.
- Continued a modified aquatic maintenance program to make stormwater ponds an aesthetic feature and part of the roadway landscape.
- Implemented the next phase of the systemwide signing upgrades and rehabilitation in

¹ The Authority's fiscal year runs from July 1 to June 30.

compliance with Federal Highway Association (FHWA) requirements.

- Performed pavement inspections that identified areas that were raveling and/or damaged and required maintenance. These repairs are necessary to extend the pavement life in order to meet the planned and programmed milling and resurfacing schedules based on the Five Year Work Plan and the Pavement Management Program.
- Attained a Maintenance Rating Program (MRP) score from the FDOT of 93.

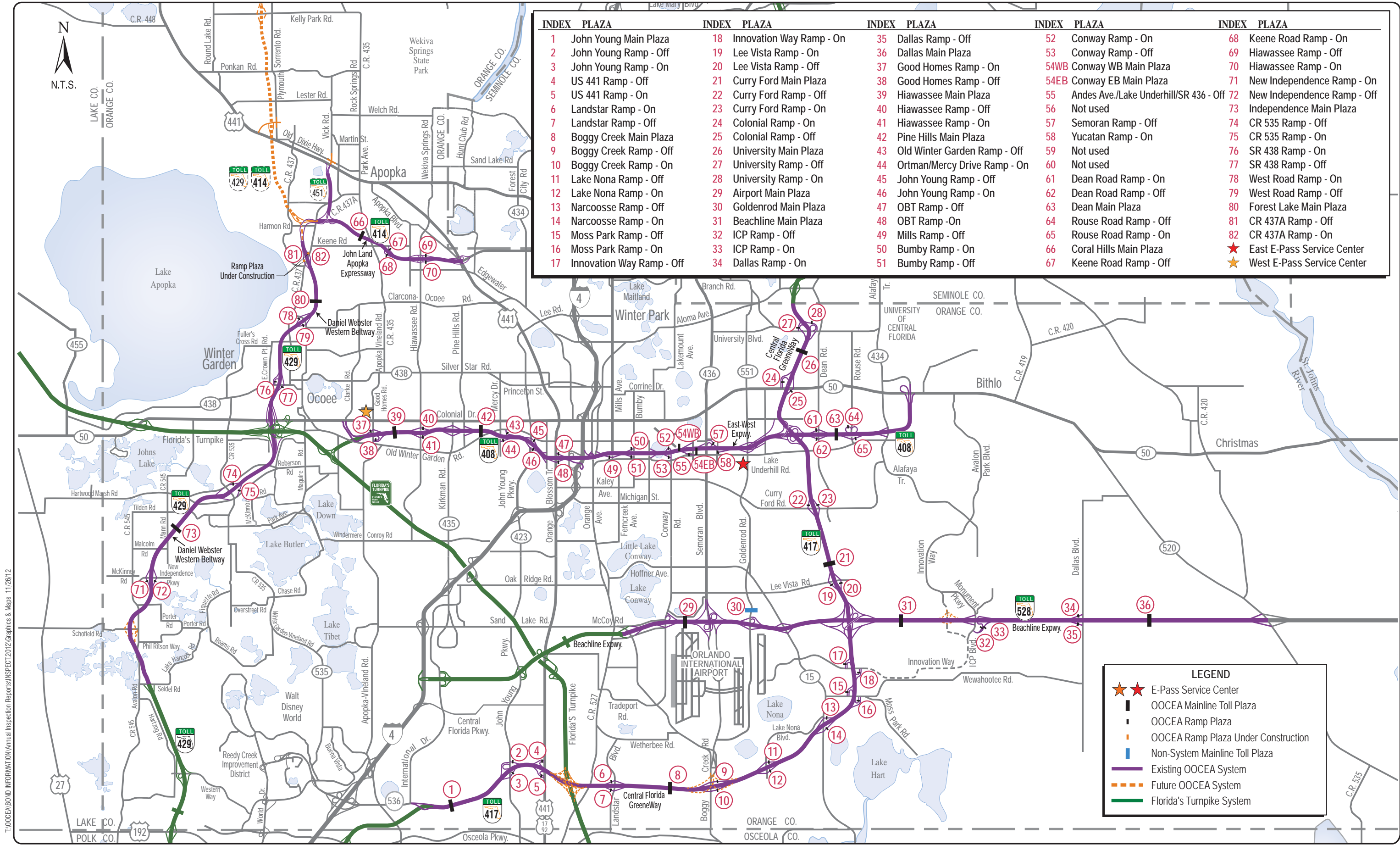
Authority staff has identified the following goals and objectives for the coming fiscal year (FY 2013). These items primarily involve the physical activities associated with construction and maintenance of roadways, bridges and toll plaza facilities:

- Maintain a Maintenance Rating Program (MRP) score from the FDOT of at least 90. For FY 2013, FDOT has modified how the MRP scoring is calculated. All characteristics will be given an equal value and all elements will be assigned a weighted percentage. The FY 2013 score will use this new method.
- Continue the next phase of replacement and upgrades of retro-reflective pavement markers (RPM) that display less than satisfactory reflectivity.
- Implement the next phase of systemwide signing upgrades and rehabilitation.
- Continue to identify those projects that should be funded under the Renewal and Replacement budget and those projects that are clearly routine maintenance and should be included in the maintenance budget.
- Perform the periodic detailed inspections of fencing systemwide multiple times per year to discourage unauthorized access to the Authority right-of-way through damaged or missing fence sections.
- Analyze the observations from Florida Highway Patrol (FHP), Road Ranger program and fiber optic locators to enhance surveillance and maintenance of the Authority's system.
- Maintain pavement striping at a high level of reflectivity and replace unsatisfactory striping where needed.
- Keep the roadway, roadside and aesthetic features maintained at the highest possible levels. For those portions of the Authority's system under construction, identify problem areas (e.g. shoulder and barrier wall inlets blocked with debris; pot holes; washouts, etc.) and advise the appropriate construction contractors through the Authority representative on the project.

- Replace the generators and air conditioners that have reached their expected useful life through the generator and air conditioners replacement initiative for those facilities where generators and air conditioners are not being replaced as part of new construction or facility renovations.
- Implement more stringent requirements for maintenance of grounding systems at all facilities.
- Continue to address deficiencies identified in the FDOT bridge inspections reports in a timely manner. FDOT gives a priority of 1 through 4 to the identified deficiencies. Priority 1 requires the work to be done in 90 days, priority 2 in 180 days, priority 3 in 365 days, and priority 4 in 2 years.

In addition to goals and objectives for the physical activities associated with construction and maintenance of roadways, bridges and toll plaza facilities, staff has identified goals and objectives related to program, process and procedural initiatives for the coming year. The ultimate purpose of these initiatives is to provide the Authority's customers with a smooth ride and aesthetically pleasing surroundings creating a unique driving experience that will be immediately identifiable with an Authority roadway. These initiatives are:

- Meet with FDOT District 5 personnel on an as-needed basis to discuss maintenance and other issues of mutual importance to both agencies.
- Evaluate and enhance the Authority's program to manage its assets to provide maximum control over the timing and implementation of replacement programs and initiatives.
- Respond to customer feedback on the maintenance with a timely response.



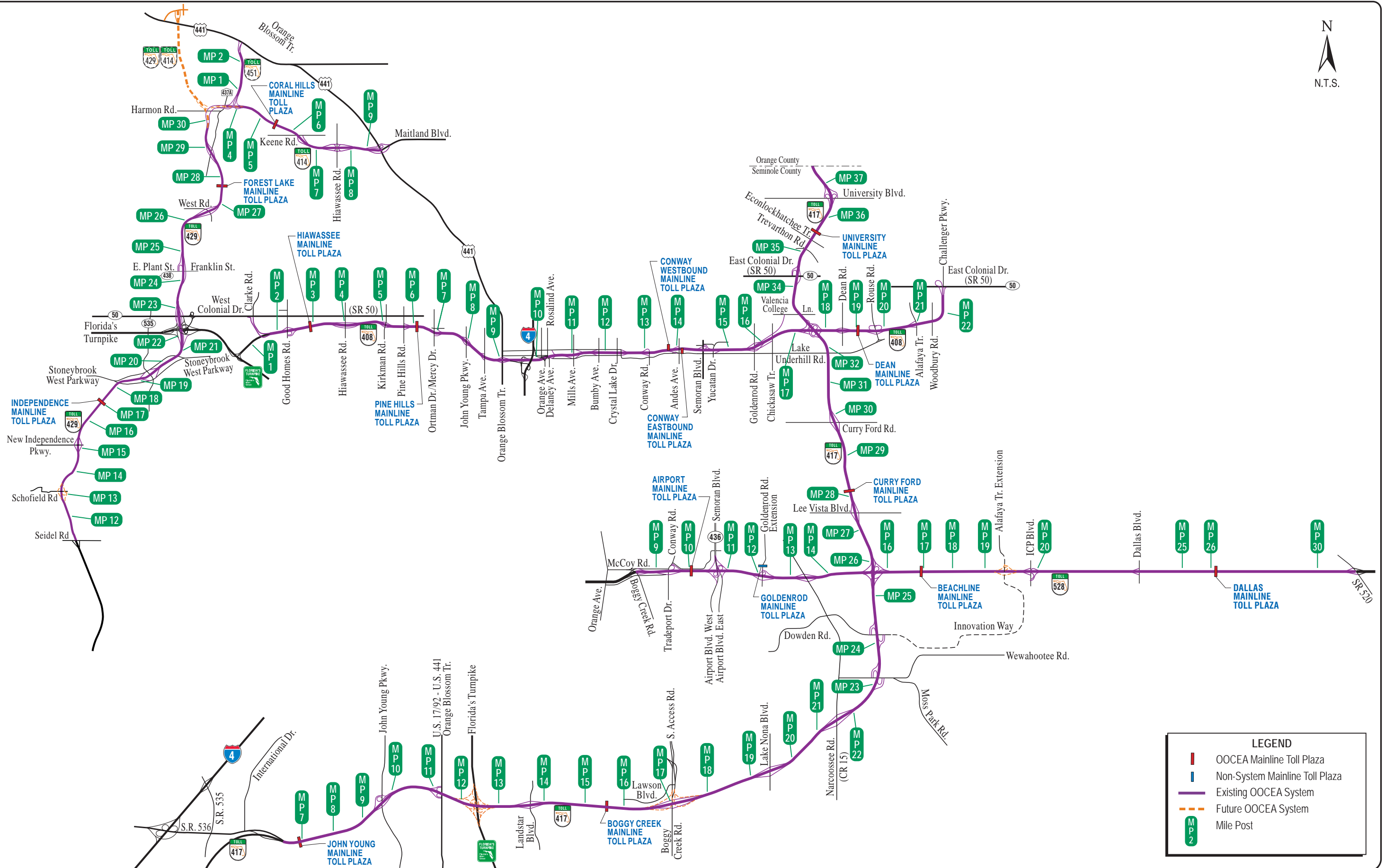
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SR 408, SR 414, SR 417, SR 429 & SR 528 TOLL FACILITIES

ORLANDO-ORANGE COUNTY EXPRESSWAY AUTHORITY

FIGURE
1-1



SYSTEM WIDE MILE POST LOCATIONS
ORLANDO-ORANGE COUNTY EXPRESSWAY AUTHORITY

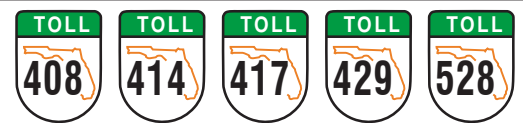


FIGURE
1-2

2012 Annual Inspection Report



Section 2 Rating Systems



2. Rating Systems

2.1 Roadway Rating System

The roadway rating system used for the annual inspection includes an in-depth review of 49 features divided into five groups: Roadway/Pavement, Roadside, Traffic Services, Drainage and Vegetation/Aesthetics. Table 1 shows the rating system used for the roadways.

Table 1: Rating System for Roadways

Rating	Description	Comment	Feature appearance and functionality / operability
0	Under Construction	Location not inspected.	-
1	Excellent	No deficiencies noted.	“Like new” condition
2	Good	No deficiencies noted. No maintenance necessary.	Good
3	Fair	Improve maintenance to protect feature.	Average
4	Poor	Maintenance is required to protect public or system.	Below Average
5	Emergency	Immediate maintenance is required to protect public or system.	Unacceptable

For reporting purposes, the deficiencies noted in Section 3 of this report are those rated 4 or 5. By the time this report is published, some of these deficiencies may have already been corrected as part of the Authority’s Maintenance Program.

The groups and features inspected include:

1. **Roadway/Pavement** – Includes all features/deficiencies found in the pavement area. It includes the visual review of pavement condition with particular attention directed towards the presence of potholes, edge ravel, and similar deficiencies.
 - a. Bridge
 - b. Cracking
 - c. Depression
 - d. Edge Ravel
 - e. Joint
 - f. Paved Shoulder
 - g. Pavement Void
 - h. Pothole

- i. Rutting
 - j. Shoving
 - k. Stripping
2. **Roadside** – Includes the evaluation of features found along the roadside not associated with drainage or vegetation/aesthetics.
- a. Back Slope
 - b. Fence
 - c. Front Slope
 - d. Rip Rap
 - e. Sidewalk
 - f. Slope Protection
 - g. Soil Shoulder
 - h. Turnout
3. **Traffic Services** – Includes the evaluation of features that guide, protect and assist the drivers. Highway and sign lighting were inspected at night. Sign reflectivity was not rated as part of the visual inspection. Sign reflectivity is being assessed and will be reported separately.
- a. Attenuator
 - b. Barrier Wall
 - c. Guardrail
 - d. Highway Lighting
 - e. Information Sign
 - f. Object Marker
 - g. Pavement Marker
 - h. Pavement Symbol
 - i. Regulatory Sign
 - j. Sign Light
 - k. Striping
 - l. Warning Sign
4. **Drainage** – Includes the evaluation of drainage structures and associated appurtenances.
- a. Cross Drain
 - b. Curb Inlet
 - c. Median Ditch
 - d. Misc. Drain
 - e. Misc. Inlet
 - f. Other Inlet
 - g. Outfall Ditch
 - h. Pond / Lake / Canal

- i. Roadside Ditch
 - j. Side Drain
 - k. Storm Drain
5. **Vegetation/Aesthetics** – Includes the evaluation of features found along the roadside. These features tend to have a high visual influence on travelers.
- a. Landscaping
 - b. Litter Removal
 - c. Roadway Mowing
 - d. Roadway Sweep
 - e. Slope Mowing
 - f. Tree Trim
 - g. Turf Condition

A sample of an actual roadway inspection worksheet is included at the end of this section. All reports are included on the Roadway Inspection Worksheets on the CD attached at the end of this report.

2.2 Building Rating System

The building inspection included all mainline and ramp toll plaza buildings along the Authority's system, as well as the Authority's headquarters building in ORL Tower Road. Building components such as grounds, building exterior and interior, lights, restrooms, signs and equipment were divided into a number of subcomponents and rated as shown in Table 2.

Table 2: Rating System for Buildings

Rating	Description	Comment	Feature appearance and functionality / operability
1	Excellent	No deficiencies noted.	"Like new" condition
2	Good	No deficiencies noted. No maintenance necessary.	Good
3	Fair	Improve maintenance to protect feature.	Average
4	Poor	Maintenance is required to protect public or system.	Below Average
5	Emergency	Immediate maintenance is required to protect public or system.	Unacceptable
NI	Not Inspected	Inaccessible location	-
N/A	Not Applicable	Feature does not apply at this location	-

For reporting purposes, the deficiencies noted in Section 3 of this report are those rated 4 or 5. Many of these deficiencies will have already been corrected as part of the Authority's Maintenance Program between the time the inspection was performed and the time this report is completed.

A sample of an actual building inspection worksheet is included at the end of this section. All reports are included on the Building Inspection Worksheets on the CD attached to the back of this report.

2.3 Bridge Rating System

The Authority's bridge system on SR 408, SR 414, SR 417, SR 429 and SR 528 consists of 282 structures comprised of 225 concrete bridge structures, 51 steel bridge structures and 6 box culverts. Inspections are conducted by Certified Bridge Inspectors under a program administered by the FDOT and funded by the Authority. Detailed Bridge Inspection Reports are prepared and filed twice per year. The most current bridge ratings were received from FDOT in September 2012.

The sufficiency rating develops a means of evaluating whether a bridge is sufficient to remain in service. The rating is a percentage (zero being the worst and 100 being the best possible) based upon individual component and subcomponent values. This program develops a sufficiency rating in which structural components (bridge deck, superstructure, and substructure) and non-structural components (approach roadway and channel) are rated. The components are divided into subcomponents, each of which is given a numerical condition rating.

The components and subcomponents rated include:

1. Substructure
 - a. Abutment/End Bent
 - b. Bracing Struts/Web Walls
 - c. Caps (Bent and Pier)
 - d. Columns/Wall Pier
 - e. Footings/Caissons
 - f. Piling/Shfts
 - g. Slope Protection
2. Superstructure
 - a. Beams/Stringers/Box and Plate Girder/Flat Slabs
 - b. Bearings
 - c. Diagonals
 - d. Diaphragms/Sway Bracing
 - e. Floor Beams

- f. Lateral Bracing
 - g. Lower Chords
 - h. Main Girders
 - i. Portals
 - j. Upper Chords
 - k. Verticals
- 3. Deck
 - a. Curbs/Medians/Sidewalks
 - b. Deck Top/Surface
 - c. Deck Underside
 - d. Drainage System
 - e. Handrail/Barrier/Parapets
 - f. Joints - Construction
 - g. Joints - Expansion
- 4. Channel
 - a. Alignment
 - b. Degradation/Aggregation
 - c. Embankment/Slope/Bulkheads
 - d. Fender System
 - e. Freeboard
 - f. Navigation Lights and Aids
 - g. Obstruction

Sufficiency Rating Factors

The following are components of the Sufficiency Rating Factor:

A = Structural Adequacy and Safety

Substructure,

Superstructure and

Culvert inventory rating.

Weighted at 55% maximum of total value.

B = Serviceability and Functional

Obsolescence:

Approach Roadway Alignment,

Approach Roadway Width,

Average Daily Traffic,

Bridge Roadway Width,

Deck Condition,

Deck Geometry,

Defense highway,
Lanes on the structure,
Structure condition,
Structure Type,
Under clearances and
Waterway Adequacy.
Weighted at 30% maximum of total value.

C = Essentiality for Public Use:
Average Daily Traffic,
Defense highway and
Detour length.
Weighted at 30% maximum of total value.

D = Special Reductions:
Detour length,
Main structure type and
Traffic Safety features.
Weighted at 15% maximum of total value.

The Sufficiency Rating = $A + B + C - D$.

The sufficiency rating does not reflect the load carrying capability of a bridge, but aids in the determination whether a bridge may need repair or replacement. The sufficiency rating affects its eligibility for federal funding for maintenance, rehabilitation, or replacement. Bridges qualify for federal funding based on the following:

replacement funds < or = 50%,
rehabilitation fund < or = 80%.

Performance Rating

The performance rating rates the condition of the bridge. It is auto-calculated and is based on the lowest rating for Deck, Superstructure and Substructure. For culverts, the rating is based on the Culvert Rating. The performance rating factors are as follows:

1 = Excellent
2 = Good
3 = Fair
4 (and above) = Poor

The bridge inspection summary is included at the end of this section. Detailed bridge inspection reports are available for review upon written request to the Authority.

Roadway Inspection Sample



2012 - Orlando - Orange County Expressway Authority

Report of all Roadway features

Prepared by:

ATKINS

John Land Expressway - Westbound

Milepost location	Rating	Item	Comments
M.P. 009.511 to M.P. 009			
.118	3	Tree Trim	Tree limbs overhanging fence.
.511-.000	2	Curb Inlet	No deficiencies noted
.511-.000	2	Edge Ravel	No deficiencies noted
.511-.000	2	Depression	No deficiencies noted
.511-.000	2	Cracking	No deficiencies noted
.511-.000	2	Soil Shoulder	No deficiencies noted
.511-.000	2	Slope Protection	No deficiencies noted
.511-.000	2	Front Slope	No deficiencies noted
.511-.000	2	Storm Drain	No deficiencies noted
.511-.000	2	Rip Rap	No deficiencies noted
.511-.000	2	Pond Lake Canal	No deficiencies noted
.511-.000	2	Joint	No deficiencies noted
.511-.000	2	Median Ditch	No deficiencies noted
.511-.000	2	Fence	No deficiencies noted
.511-.000	2	Cross Drain	No deficiencies noted
.511-.000	2	Highway Light	No deficiencies noted
.511-.000	2	Guardrail	No deficiencies noted
.511-.000	2	Turf Condition	No deficiencies noted
.511-.000	2	Slope Mowing	No deficiencies noted
.511-.000	2	Roadway Sweep	No deficiencies noted
.511-.000	2	Roadway Mowing	No deficiencies noted
.511-.000	2	Litter Removal	No deficiencies noted
.511-.000	2	Landscape	No deficiencies noted
.511-.000	2	Outfall Ditch	No deficiencies noted



2012 - Orlando - Orange County Expressway Authority

Report of all Roadway features

Prepared by:

ATKINS

John Land Expressway - Westbound

Milepost location	Rating	Item	Comments
M.P. 009.511 to M.P. 009			
.511-.000	2	Sign light	No deficiencies noted
.511-.000	2	Roadside Ditch	No deficiencies noted
.511-.000	2	Paved Shoulder	No deficiencies noted
.511-.000	2	Striping	No deficiencies noted
.511-.000	2	Regulatory Sign	No deficiencies noted
.511-.000	2	Pavement Symbol	No deficiencies noted
.511-.000	2	Pavement Marker	No deficiencies noted
.511-.000	2	Object Marker	No deficiencies noted
.511-.000	2	Information Sign	No deficiencies noted
.511-.000	2	Rutting	No deficiencies noted
.511-.000	2	Barrier Wall	No deficiencies noted
.511-.000	2	Attenuator	No deficiencies noted
.511-.000	2	Stripping	No deficiencies noted
.511-.000	2	Shoving	No deficiencies noted
.511-.000	2	Pavement Void	No deficiencies noted
.511-.000	2	Pothole	No deficiencies noted
.511-.000	2	Warning Sign	No deficiencies noted
M.P. 009 to M.P. 008			
.169-.072	3	Storm Drain	Vegetation growing through shoulder gutter joints.
.175-.147	3	Slope Mowing	Vegetation in excess of 30" in height.
.367	3	Highway light	Highway light out.
.574-.256	3	Roadway Sweep	Trash and debris on bridge deck shoulder.
.883	3	Highway light	Highway light out.
.965-.868	3	Storm Drain	Vegetation growing through shoulder gutter joints.
.999-.000	2	Pavement Void	No deficiencies noted



2012 - Orlando - Orange County Expressway Authority

Report of all Roadway features

Prepared by:

ATKINS

John Land Expressway - Westbound

Milepost location	Rating	Item	Comments
M.P. 009 to M.P. 008			
.999-.000	2	Pothole	No deficiencies noted
.999-.000	2	Paved Shoulder	No deficiencies noted
.999-.000	2	Edge Ravel	No deficiencies noted
.999-.000	2	Cracking	No deficiencies noted
.999-.000	2	Rutting	No deficiencies noted
.999-.000	2	Pavement Marker	No deficiencies noted
.999-.000	2	Depression	No deficiencies noted
.999-.000	2	Joint	No deficiencies noted
.999-.000	2	Shoving	No deficiencies noted
.999-.000	2	Stripping	No deficiencies noted
.999-.000	2	Attenuator	No deficiencies noted
.999-.000	2	Barrier Wall	No deficiencies noted
.999-.000	2	Warning Sign	No deficiencies noted
.999-.000	2	Regulatory Sign	No deficiencies noted
.999-.000	2	Object Marker	No deficiencies noted
.999-.000	2	Information Sign	No deficiencies noted
.999-.000	2	Soil Shoulder	No deficiencies noted
.999-.000	2	Pavement Symbol	No deficiencies noted
.999-.000	2	Striping	No deficiencies noted
.999-.000	2	Curb Inlet	No deficiencies noted
.999-.000	2	Sign light	No deficiencies noted
.999-.000	2	Slope Protection	No deficiencies noted
.999-.000	2	Landscape	No deficiencies noted
.999-.000	2	Litter Removal	No deficiencies noted



2012 - Orlando - Orange County Expressway Authority

Report of all Roadway features

Prepared by:

ATKINS

John Land Expressway - Westbound

Milepost location	Rating	Item	Comments
M.P. 009 to M.P. 008			
.999-.000	2	Roadway Mowing	No deficiencies noted.
.999-.000	2	Tree Trim	No deficiencies noted
.999-.000	2	Turf Condition	No deficiencies noted
.999-.000	2	Cross Drain	No deficiencies noted
.999-.000	2	Median Ditch	No deficiencies noted
.999-.000	2	Outfall Ditch	No deficiencies noted
.999-.000	2	Pond Lake Canal	No deficiencies noted
.999-.000	2	Rip Rap	No deficiencies noted
.999-.000	2	Roadside Ditch	No deficiencies noted
.999-.000	2	Side Drain	No deficiencies noted
.999-.000	2	Fence	No deficiencies noted
.999-.000	2	Front Slope	No deficiencies noted
.999-.000	2	Guardrail	No deficiencies noted
M.P. 008 to M.P. 007			
.120	3	Sign light	Sign light out
.210	3	Highway light	Highway light out.
.342	3	Highway Light	Highway light out.
.999-.000	2	Soil Shoulder	No deficiencies noted
.999-.000	2	Cracking	No deficiencies noted
.999-.000	2	Depression	No deficiencies noted
.999-.000	2	Edge Ravel	No deficiencies noted
.999-.000	2	Joint	No deficiencies noted
.999-.000	2	Paved Shoulder	No deficiencies noted
.999-.000	2	Pavement Void	No deficiencies noted
.999-.000	2	Regulatory Sign	No deficiencies noted



2012 - Orlando - Orange County Expressway Authority

Report of all Roadway features

Prepared by:

ATKINS

John Land Expressway - Westbound

Milepost location	Rating	Item	Comments
M.P. 008 to M.P. 007			
.999-.000	2	Rutting	No deficiencies noted
.999-.000	2	Shoving	No deficiencies noted
.999-.000	2	Warning Sign	No deficiencies noted
.999-.000	2	Stripping	No deficiencies noted
.999-.000	2	Striping	No deficiencies noted
.999-.000	2	Information Sign	No deficiencies noted
.999-.000	2	Object Marker	No deficiencies noted
.999-.000	2	Pavement Marker	No deficiencies noted
.999-.000	2	Pavement Symbol	No deficiencies noted
.999-.000	2	Slope Protection	No deficiencies noted
.999-.000	2	Pothole	No deficiencies noted
.999-.000	2	Roadway Mowing	No deficiencies noted
.999-.000	2	Front Slope	No deficiencies noted
.999-.000	2	Barrier Wall	No deficiencies noted
.999-.000	2	Litter Removal	No deficiencies noted
.999-.000	2	Roadway Sweep	No deficiencies noted.
.999-.000	2	Slope Mowing	No deficiencies noted
.999-.000	2	Tree Trim	No deficiencies noted
.999-.000	2	Turf Condition	No deficiencies noted
.999-.000	2	Guardrail	No deficiencies noted
.999-.000	2	Storm Drain	No deficiencies noted
.999-.000	2	Curb Inlet	No deficiencies noted
.999-.000	2	Median Ditch	No deficiencies noted
.999-.000	2	Outfall Ditch	No deficiencies noted

Building Inspection Sample



2012 - Orlando - Orange County Expressway Authority

Report of all facility features

Prepared by:

ATKINS



SR 417 - GreeneWay

Innovation Way - NB On ramp

MP 037

Apron

Facility Feature	Rating	Comments
Apron Sweep	1	No deficiencies noted
Pavement Voids	1	No deficiencies noted
Cracking	1	No deficiencies noted
Joints	1	No deficiencies noted
Striping	1	No deficiencies noted

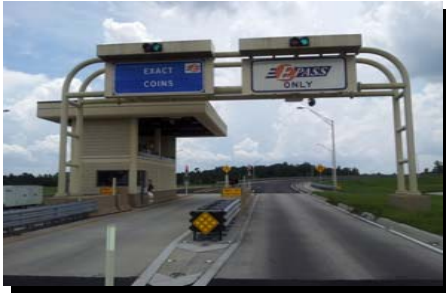


2012 - Orlando - Orange County Expressway Authority

Report of all facility features

Prepared by:

ATKINS



SR 417 - GreeneWay

Innovation Way - NB On ramp

MP 037

Canopy

Facility Feature	Rating	Comments
Sign Structure	3	Algae growth present needs power wash.
Traffic Red / Green Lighting	1	No deficiencies noted
Sign Lighting	1	No deficiencies noted
Canopy Underside	1	No deficiencies noted
Canopy Fascia	1	No deficiencies noted
Canopy lighting	1	No deficiencies noted
Variable Message Signs	1	No deficiencies noted
Canopy Columns	1	No deficiencies noted
Signs	1	No deficiencies noted



2012 - Orlando - Orange County Expressway Authority

Report of all facility features

Prepared by:

ATKINS



SR 417 - GreeneWay

Innovation Way - NB On ramp

MP 037

Combo Bldg - Bldg Exterior

Facility Feature	Rating	Comments
ACM	3	ACM screen does not display anything.
Windows and Storefronts	3	Algae growth on window frames
Generator	2	No deficiencies noted
Paint - Interior and Exterior	1	No deficiencies noted
Condensing Units	1	No deficiencies noted
Doors / Frames (Interior and Exterior)	1	No deficiencies noted
Receptacle	1	No deficiencies noted
Ductwork and Insulation	1	No deficiencies noted
Exhaust Fans	1	No deficiencies noted
Concrete Pavement	1	No deficiencies noted
Nose Flashers	1	No deficiencies noted
Signs	1	No deficiencies noted
Walls (Concrete Block, Brick, Stucco or EIFS)	1	No deficiencies noted
Lighting (Exterior)	1	No deficiencies noted
Site Grounds	1	No deficiencies noted
Joint Sealants	1	No deficiencies noted

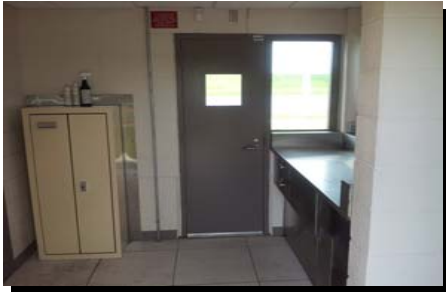


2012 - Orlando - Orange County Expressway Authority

Report of all facility features

Prepared by:

ATKINS



SR 417 - GreeneWay

Innovation Way - NB On ramp

MP 037

Combo Bldg - Collection Area

Facility Feature	Rating	Comments
Flooring (Interior and Accessories)	3	Floors are dirty.
Switchboards and Breakers	1	No deficiencies noted
ACM	1	No deficiencies noted
Ceilings and Ceiling Grids	1	No deficiencies noted
Counters/Cabinets and Drawers	1	No deficiencies noted
Ductwork and Insulation	1	No deficiencies noted
HVAC Control Systems	1	No deficiencies noted
Joint Sealants	1	No deficiencies noted
Lighting (Interior)	1	No deficiencies noted
Paint - Interior and Exterior	1	No deficiencies noted
Fire Extinguisher	1	No deficiencies noted
Receptacle	1	No deficiencies noted
Security	1	No deficiencies noted
Telephone System	1	No deficiencies noted
Ventilation Outlets	1	No deficiencies noted
Walls (Concrete Block, Brick, Stucco or EIFS)	1	No deficiencies noted
Walls (Interior)	1	No deficiencies noted
Windows and Storefronts	1	No deficiencies noted
Wiring	1	No deficiencies noted
Air Conditioners	1	No deficiencies noted

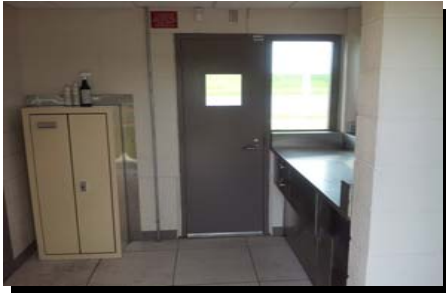


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SR 417 - GreeneWay

Innovation Way - NB On ramp

MP 037

Combo Bldg - Collection Area

Facility Feature	Rating	Comments
Panelboards	1	No deficiencies noted



2012 - Orlando - Orange County Expressway Authority

Report of all facility features

Prepared by:

ATKINS



SR 417 - GreeneWay

Innovation Way - NB On ramp

MP 037

Combo Bldg - Recorder Room

Facility Feature	Rating	Comments
Walls (Interior)	1	No deficiencies noted
Lighting (Interior)	1	No deficiencies noted
Paint - Interior and Exterior	1	No deficiencies noted
Receptacle	1	No deficiencies noted
Switchboards and Breakers	1	No deficiencies noted
TVSS (Transient Voltage Surge Suppressor)	1	No deficiencies noted
Ceilings and Ceiling Grids	1	No deficiencies noted
UPS (Uninterrupted Power Supply)	1	No deficiencies noted
Ventilation Outlets	1	No deficiencies noted
Air Conditioners	1	No deficiencies noted
Wiring	1	No deficiencies noted
Panelboards	1	No deficiencies noted
Ductwork and Insulation	1	No deficiencies noted
Fire Extinguisher	1	No deficiencies noted
Flooring (Interior and Accessories)	1	No deficiencies noted
HVAC Control Systems	1	No deficiencies noted
Doors / Frames (Interior and Exterior)	1	No deficiencies noted



2012 - Orlando - Orange County Expressway Authority

Report of all facility features

Prepared by:

ATKINS



SR 417 - GreeneWay

Innovation Way - NB On ramp

MP 037

Combo Bldg - Restroom

Facility Feature	Rating	Comments
Doors / Frames (Interior and Exterior)	NI	Not Inspected - door locked no access



2012 - Orlando - Orange County Expressway Authority

Report of all facility features

Prepared by:

ATKINS



SR 417 - GreeneWay

Innovation Way - NB On ramp

MP 037

Island A - Island

Facility Feature	Rating	Comments
Attenuator	1	No deficiencies noted
Wiring	1	No deficiencies noted
Toll Indicator	1	No deficiencies noted
Signs	1	No deficiencies noted
Concrete	1	No deficiencies noted
Nose Flashers	1	No deficiencies noted

Bridge Inspection Summary

OOCEA Bridge Ratings Summary
by Florida Department of Transportation
District 5

Bridge Number	Facility	Deck Rating	Superstructure Rating	Substructure Rating	Channel Rating	Culvert Rating	Structure Evaluation	Sufficiency Rating	Performance Rating
750057	SR-528 WB	7	7	6	5	N	6	79.9	2
750102	SR-408 WB	7	7	7	N	N	7	91.3	2
750107	SR-408 WB	7	7	7	N	N	7	89.3	2
750129	SR-408	7	7	7	N	N	7	91.7	2
750183	SR-408	6	7	7	9	N	7	91.8	2
750212	SR-528	7	7	6	5	N	6	79.9	2
750214	SR-528	7	7	7	N	N	7	90.8	2
750380	SR-417 SB	7	8	7	N	N	7	98.9	2
750390	SR-408 EB	8	7	8	N	N	7	99.5	2
750399	Paul Street	7	7	8	N	N	7	81	2
750430	SR-417 SB	7	8	7	N	N	7	100	2
750432	SR-417 Off Ramp	7	7	7	N	N	7	97.7	2
750433	SR-417 SB	7	7	8	N	N	7	98	2
750453	SR-417	7	7	7	N	N	7	100	2
750379	SR-417 NB	8	7	7	N	N	7	97.3	2
750385	SR-417	7	7	7	N	N	7	98.9	2
750543	SR-429 SB	8	7	7	N	N	7	96.7	2
750544	SR-429 NB	8	8	8	N	N	8	96.7	1
750548	SR-429 NB	8	8	8	N	N	8	96.7	1
750539	SR-429 SB	7	7	8	N	N	7	96.7	2
750463	SR-417 SB	7	8	7	N	N	7	98.4	2
750502	SR-429 SB	8	8	8	N	N	8	97.4	1
750503	SR-429 NB	8	8	8	N	N	8	97.5	1
750408	SR-429 Ramp L	7	8	7	N	N	7	97.1	2
750509	Ramp C	8	8	7	N	N	7	99.7	2
750567	New Independence Pkwy	8	7	8	N	N	7	80	2
750554	SR-429 NB	7	8	7	8	N	7	98.7	2
750398	Powers Drive	7	6	8	N	N	6	80	2
750521	SR-429 NB	8	8	8	N	N	7	98.6	1
750525	SR-429 NB	8	8	8	N	N	8	99.2	1
750366	SR-408	7	7	7	N	N	7	99.7	2
750236	SR-408 EB	7	7	7	N	N	7	94.4	2
750725	Marden Rd	7	7	7	N	N	7	100	2
750706	SR-414	8	8	8	N	N	8	100	1
750709	SR-414	8	8	8	N	N	8	94.3	1
750571	SR-408 WB	7	8	8	N	N	8	97.4	2
750718	SR-414 Ramp CA	9	9	9	N	N	9	96.8	1
750055	SR-528	N	N	N	6	7	7	80.8	2
750100	SR-408 WB	7	7	7	N	N	7	91.6	2
750108	SR-408 WB	7	7	7	N	N	7	98.4	2
750120	SR-408	7	7	7	N	N	7	93.8	2
750123	SR-408 WB	7	7	7	N	N	7	95.4	2
750179	SR-528	6	7	7	N	N	6	90.9	2
750235	SR-408	7	7	7	N	N	7	88.6	2
750244	SR-408	7	7	7	N	N	4	70.8	2
750316	SR-436	5	7	7	N	N	7	98	3
750343	SR-417 SB	7	7	7	N	N	7	99	2
750360	SR-408	7	7	7	N	N	7	98.8	2
750378	SR-417 SB	7	7	7	N	N	7	97.3	2
750383	SR-417 NB	8	8	8	N	N	8	96.9	1
750457	SR-417	8	8	7	N	N	7	99	2
750462	SR-417 SB	7	7	7	N	N	7	98.4	2
750466	SR-417	7	7	7	N	N	7	99.4	2
750470	SR-417 Ramp C	7	7	7	N	N	6	95.1	2
750137	I-4 Connector	7	7	7	N	N	7	91.1	2
750547	SR-429 SB	8	8	8	N	N	8	95.7	1
750540	SR-429 NB	8	7	8	N	N	7	96.7	2
750451	SR-417	7	7	7	7	N	7	99.3	2
750056	SR-528	6	7	6	N	N	6	90.8	2

OOCEA Bridge Ratings Summary
by Florida Department of Transportation
District 5

Bridge Number	Facility	Deck Rating	Superstructure Rating	Substructure Rating	Channel Rating	Culvert Rating	Structure Evaluation	Sufficiency Rating	Performance Rating
750506	SR-429 NB	8	8	8	N	N	8	99.5	1
750411	Ramp A-NB Exit Ram	7	8	7	N	N	7	99.8	2
750423	West Road	8	8	8	N	N	8	99.1	1
750531	SR-429 SB	8	8	8	N	N	8	99.7	1
750059	SR-528 WB	6	7	7	N	N	7	90.8	2
750553	SR-429 SB	7	7	8	8	N	7	99.2	2
750523	SR-429 NB	8	8	8	N	N	8	99.2	1
750393	SR-408	7	7	7	7	N	7	98.8	2
750495	SR-429 NB	8	8	7	N	N	7	99.3	2
750712	SR-414	8	8	8	N	N	8	94.3	1
750346	Trevarthon Rd.	7	7	7	N	N	7	87.9	2
750436	SR-417 SB	8	7	7	N	N	7	99.1	2
750726	SR-414	7	7	7	N	N	7	98.1	2
750708	SR-414	8	8	8	N	N	8	94.3	1
750710	WB On-Ramp H – A	8	8	8	N	N	8	93.9	1
750711	SR 414 WB	8	8	8	N	N	8	93.9	1
750128	SR-408 WB	7	7	7	N	N	7	95.9	2
750234	SR-408 EB	7	7	7	N	N	7	97.4	2
750242	SR-408	7	7	7	N	N	4	69.4	2
750252	SR-408 EB	7	7	7	N	N	7	94.7	2
750315	SR-436	6	7	7	N	N	7	96	2
750348	SR-417	7	7	7	N	N	7	95.9	2
750351	SR-417 NB	7	7	7	N	N	7	95.5	2
750369	SR-408 EB	8	8	8	N	N	8	97.8	1
750376	SR-417 NB	7	7	7	N	N	7	93.5	2
750381	SR-417 NB	8	8	8	N	N	8	98.9	1
750438	SR-417 SB	7	8	7	N	N	7	99.1	2
750448	SR-417 NB	7	7	8	N	N	7	99.3	2
750413	SR-429 NB	8	7	8	N	N	7	98.8	2
750419	SR-429 NB	8	8	8	N	N	8	98.8	1
750422	West Road	8	8	8	N	N	8	99.1	1
750530	Malcolm Rd.	8	7	8	N	N	7	94.1	2
750464	SR-417 NB	8	7	7	N	N	7	98.4	2
750524	SR-429 SB	8	8	8	N	N	8	99.2	1
750528	SR-429 SB	8	8	8	N	N	8	99.2	1
750213	SR-528	7	6	7	N	N	6	88.2	2
750707	SR-414	8	7	8	N	N	7	98.2	2
750743	SR-414	8	8	8	N	N	8	100	1
750824	SR-417 Ramp G	8	8	8	N	N	8	97	1
750703	SR-414	8	8	8	N	N	8	95.4	1
750570	SR -408 WB	7	8	8	N	N	8	97.5	2
750723	SR-429 Ramp EG	8	8	8	N	N	8	99.1	1
750722	SR-429 NB Ramp EG	9	9	9	N	N	9	99.1	1
750124	SR-408 WB	7	7	7	N	N	7	90.5	2
750186	SR-408 EB	7	7	7	N	N	7	94.8	2
750233	SR-408 EB	7	7	7	N	N	7	93.4	2
750239	SR-408	7	8	7	N	N	7	85	2
750240	SR-408	7	7	7	N	N	7	87.3	2
750248	SR-408 EB	7	7	7	N	N	7	95.4	2
750251	SR-408 WB	7	7	7	N	N	7	93.7	2
750300	SR-528	N	N	N	7	6	6	79.5	2
750333	SR-528	6	7	7	N	N	7	92.7	2
750350	SR-417 SB	7	7	7	N	N	7	95.5	2
750354	SR-417	7	7	7	N	N	7	95.5	2
750358	SR-408	7	7	7	9	N	7	80.8	2
750391	SR-408	7	7	7	N	N	7	99.6	2
750396	SR-408 WB	7	7	7	N	N	5	90.8	2
750397	SR-408	7	7	7	N	N	5	90.8	2
750431	SR-417 NB	7	7	7	N	N	7	100	2

OOCEA Bridge Ratings Summary
by Florida Department of Transportation
District 5

Bridge Number	Facility	Deck Rating	Superstructure Rating	Substructure Rating	Channel Rating	Culvert Rating	Structure Evaluation	Sufficiency Rating	Performance Rating
750435	SR-417 SB Off Ramp	7	8	8	N	N	8	98.1	2
750449	SR-417 SB Ramp	7	8	7	7	N	7	98.7	2
750460	SR-417	7	7	7	N	N	7	99.4	2
750468	SR-417	7	7	7	N	N	7	99.4	2
750182	SR-408 EB	7	7	7	N	N	7	91.3	2
750441	SR-417 NB	7	7	7	N	N	7	98.1	2
750512	Goldenrod Rd.	7	7	7	N	N	7	93	2
750442	SR-417	7	7	7	N	N	7	99.1	2
750454	SR-417	7	7	7	N	N	7	100	2
750121	SR-408 WB	7	7	7	9	N	7	89.5	2
750444	SR-417 NB Off Ramp	8	7	7	N	N	7	99.4	2
750496	SR-429 SB	7	8	7	N	N	7	99.4	2
750407	SR-429 NB	7	8	7	N	N	7	97.2	2
750409	SR-429 SB	7	8	7	N	N	7	99.3	2
750493	SR-429 NB	8	8	8	N	N	8	98.3	1
750534	SR-429 NB	8	8	7	N	N	7	99.7	2
750494	SR-429 SB	8	8	7	N	N	7	99.4	2
750520	SR-429 SB	8	8	8	N	N	7	98.6	1
750522	SR-429 SB	8	8	8	N	N	8	99.2	1
750332	SR-528	7	7	7	N	N	7	92.7	2
750808	SR-528 EB	8	8	8	N	N	8	96.6	1
750576	SR-417 NB Ramp B1	8	8	8	N	N	8	97.5	1
750727	SR-414	8	8	8	N	N	8	98.8	1
750535	SR-429 SB	8	8	8	N	N	8	99.6	1
750412	SR-429 SB	8	8	8	N	N	8	96.8	1
750104	SR-408 WB	7	7	7	N	N	7	95.4	2
750112	SR-408 Exit Ramp	7	7	7	N	N	7	98.4	2
750185	SR-408 EB	7	7	7	N	N	7	94.7	2
750241	SR-408	7	7	7	N	N	7	85	2
750243	SR-408	7	7	7	N	N	7	93.9	2
750330	SR-528	N	N	N	7	6	6	79.5	2
750344	SR-417 SB	7	7	7	7	N	7	95.1	2
750353	SR-408 Ramp AR-1	7	7	7	N	N	7	84.8	2
750355	SR-417	7	7	7	N	N	7	98.5	2
750356	Econlockhatchee Tr	7	7	7	N	N	7	88.4	2
750359	Dean Rd.	7	7	7	N	N	7	95.4	2
750362	SR-408 WB	7	7	7	N	N	7	99.2	2
750364	Woodbury Road	7	7	7	N	N	7	89.7	2
750384	SR-417	7	7	8	N	N	7	98.9	2
750392	Good Homes Road	7	7	7	N	N	7	90.7	2
750394	SR-408	7	7	7	7	N	7	96.7	2
750424	SR-417 NB	7	7	8	N	N	7	99	2
750425	SR-417 SB	7	7	8	N	N	7	97	2
750440	SR-417 SB	7	7	6	N	N	6	98.1	2
750446	SR-417 NB	7	7	7	N	N	7	99	2
750458	SR-417	8	8	7	N	N	7	99	2
750467	SR-417	7	7	8	N	N	7	99.4	2
750452	SR-417 Off Ramp	7	8	7	7	N	7	98.5	2
750130	I-4 Con. to SR-408	7	7	7	N	N	7	97.3	2
750374	SR-417 NB Ramp	7	7	7	N	N	7	98.3	2
750505	SR-429 SB	8	8	8	N	N	8	99.4	1
750406	SR-429 SB	7	8	7	N	N	7	97.2	2
750410	SR-429 NB	7	7	7	N	N	7	99.3	2
750473	SR-417	7	7	8	N	N	7	99.3	2
750538	SR-429 NB	8	8	8	N	N	8	100	1
750549	SR-429 SB	8	8	8	N	N	8	96.7	1
750319	SR-528	6	7	7	N	N	7	91.5	2
750246	SR-408 EB	7	7	7	N	N	7	95.4	2
750439	SR-417 NB	7	8	7	N	N	7	99.1	2

OOCEA Bridge Ratings Summary
by Florida Department of Transportation
District 5

Bridge Number	Facility	Deck Rating	Superstructure Rating	Substructure Rating	Channel Rating	Culvert Rating	Structure Evaluation	Sufficiency Rating	Performance Rating
750705	SR 414	8	8	8	N	N	8	93.9	1
750719	SR-429 NB Ramp BF	8	9	9	N	N	9	98.8	1
750728	SR-414 Ramp CA	8	9	9	N	N	9	98.8	1
750103	SR-408 WB	7	7	7	N	N	7	93.4	2
750116	SR-408 WB	7	7	7	N	N	7	93.9	2
750231	SR-408 EB	7	7	7	N	N	7	94.7	2
750253	SR-408	7	7	7	N	N	7	91.7	2
750318	SR-528	6	7	7	N	N	7	90.5	2
750320	SR-528	6	7	7	N	N	7	90.5	2
750347	Econ Trail	7	8	8	N	N	8	87.2	2
750370	SR-408	8	8	8	N	N	7	98.1	1
750434	SR-417 NB	7	8	8	N	N	8	96	2
750437	SR-417 NB	7	7	7	N	N	7	99.1	2
750445	SR-417 SB	7	7	7	N	N	7	99	2
750461	SR-417 NB	8	7	7	N	N	7	98.4	2
750471	Ramp To SR-528 WB	7	7	7	N	N	7	99	2
750472	SR-417	7	7	8	N	N	7	99.3	2
750480	SR-417	N	N	N	5	5	5	59	3
750119	SR-408 WB	7	7	7	N	N	7	93.9	2
750427	SR-417 NB	7	7	7	7	N	7	99	2
750557	SR-417 NB C-D Road	8	7	7	N	N	5	86.4	2
750249	SR-408 EB	7	7	7	N	N	7	96.3	2
750429	SR-417 NB	7	7	8	N	N	7	99	2
750507	SR-429 SB	8	8	8	N	N	8	99.4	1
750418	SR-429 SB	8	8	8	N	N	8	98.8	1
750414	SR-429 SB	8	7	7	N	N	7	99.3	2
750415	SR-429 NB	7	8	7	N	N	7	99.3	2
750443	SR-417	7	7	7	N	N	7	99.1	2
750532	SR-429 NB	8	8	8	N	N	8	99.7	1
750537	SR-429 SB	8	8	8	N	N	8	100	1
750526	SR-429 SB	8	8	8	N	N	8	99.2	1
750361	SR-408	7	7	7	N	N	7	98.8	2
750363	SR-408	8	7	7	N	N	7	99.2	2
750807	SR 528 WB	8	8	8	N	N	8	96.6	1
750373	SR-417 Ramp SB	7	7	7	N	N	7	98.9	2
750579	Lake Underhill Dr.	8	8	8	N	N	8	93.8	1
750580	SR-408 EB	8	8	8	N	N	8	91.9	1
750581	SR-408	8	8	8	N	N	8	85	1
750058	SR-528	6	7	7	N	N	6	88.2	2
750126	SR-408 WB	7	7	7	N	N	7	94.7	2
750138	I-4 Connector	7	7	7	N	N	7	95.6	2
750184	SR-408	7	7	7	N	N	7	93.8	2
750342	SR-417 NB	7	7	7	N	N	7	98	2
750357	SR-408 WB	7	8	8	9	N	8	80.8	2
750365	SR-408	7	8	8	N	N	8	99.7	2
750395	Dorscher Road	7	8	7	N	N	7	99.8	2
750450	SR-417	7	7	7	7	N	7	99.3	2
750469	SR-417 NB Off Ramp	7	8	8	N	N	8	98.2	2
750481	SR-417	N	N	N	7	7	7	78.6	2
750352	SR-408 Ramp AR-2	7	8	7	N	N	7	84	2
750497	SR-429 NB	8	8	7	N	N	7	99.3	2
750420	SR-429 SB	7	8	8	N	N	8	98.8	2
750417	SR-429 NB	8	8	8	7	N	8	98.8	1
750729	Ramp K over SR-528	8	8	8	N	N	7	99.6	1
750345	SR-417 NB	7	7	7	8	N	7	96.2	2
750730	SR-436	7	8	8	N	N	8	97.6	2
750533	SR-429 SB	8	8	7	N	N	7	99.7	2
750541	SR-429 SB	8	8	8	N	N	8	96.7	1
750529	SR-429 NB	8	8	8	N	N	8	99.2	1

OOCEA Bridge Ratings Summary
by Florida Department of Transportation
District 5

Bridge Number	Facility	Deck Rating	Superstructure Rating	Substructure Rating	Channel Rating	Culvert Rating	Structure Evaluation	Sufficiency Rating	Performance Rating
750317	SR-436 NB	6	7	7	N	N	7	97.1	2
750237	SR-408 EB	7	7	7	N	N	7	97.5	2
750337	Chickasaw Trail	7	7	8	N	N	6	92.2	2
750825	Ramp D Flyover	9	9	9	N	N	9	94.9	1
750720	SR-414 WB	8	7	9	N	N	7	98.8	2
750106	SR-408	7	7	7	N	N	7	96.4	2
750232	SR-408	7	7	7	N	N	7	92.8	2
750245	SR-408	7	7	7	N	N	6	84.4	2
750247	SR-408	7	7	7	9	N	7	91.2	2
750349	SR-417 NB	7	7	7	N	N	7	95.9	2
750377	SR-417	N	N	N	7	6	6	70	2
750382	SR-417 SB	7	7	7	N	N	7	96.9	2
750426	SR-417 SB	7	7	7	7	N	7	97	2
750428	SR-417 SB	7	7	8	N	N	7	99	2
750465	SR-417	7	7	7	N	N	7	99.4	2
750220	SR-408	7	7	7	N	N	7	94.7	2
750550	SR-429 NB	8	8	8	N	N	8	96.7	1
750542	SR-429 NB	8	8	8	N	N	8	96.7	1
750238	SR-408	7	7	7	N	N	7	100	2
750508	SR-429	8	8	8	N	N	8	98.9	1
750504	Johns Road	8	8	8	N	N	8	94.7	1
750492	SR-429 SB	8	8	8	N	N	8	98.4	1
750416	SR-429 SB	8	8	8	7	N	8	98.8	1
750114	SR-408	6	7	7	7	N	7	71.3	2
750701	SR-408 WB	7	8	8	N	N	8	85	2
750447	SR-417 SB	7	7	7	N	N	7	99.3	2
750459	SR-417	7	7	7	N	N	7	99.4	2
750527	SR-429 NB	8	8	8	N	N	8	99.2	1
750536	SR-429 NB	8	8	7	N	N	7	99.6	2
750569	SR-408 EB Ramp C	7	7	8	N	N	7	96.8	2
750704	SR-414	8	8	8	N	N	8	95.4	1
750589	Conway Rd Ramp	8	8	8	N	N	8	98	1
750375	SR-417 SB	7	8	7	N	N	7	95	2
750823	Ramp G	8	8	8	8	N	8	99.8	1
750421	SR-429 NB	8	8	8	N	N	8	98.8	1
750724	Maitland Blvd Ext.	8	8	8	N	N	8	99.1	1
750731	CR-437 Binion Road	9	9	9	N	N	9	95.4	1

2012 Annual Inspection Report



Section 3 Inspection Results



3. Inspection Results

3.1 Summary of Findings for Roadways, Bridges and Buildings

For reporting purposes, the deficiencies noted in the inspection results are those rated 4 or 5. Features rated 4 are in poor condition and those rated 5 are in need of immediate attention. It should be noted that between the time of the inspection and now, some of these deficiencies may have already been corrected as part of the Authority's Maintenance Program. Other deficiencies identified can generally be addressed in a timely manner. Table 3 summarizes the findings for the Authority's system as a whole.

Table 3: Systemwide Summary of Findings

Feature		Rating	Description	Most Common Deficiencies ⁽¹⁾
Roadways	Roadway / Pavement	2	Good	Pavement Cracking
	Roadside	2	Good	Soil Shoulder
	Traffic Services	2	Good	Information Signs
	Drainage	2	Good	Storm Drain
	Vegetation / Aesthetics	2	Good	Tree Trimming
Buildings		2	Good	Receptacles
Bridges		2	Good	See note 2

Notes:

1. Deficiencies identified for Roadways and Buildings as the most common are features rated as 4 or 5.
2. Deficiencies identified on the reports are being addressed by the Authority. According to the Florida Transportation Commission (FTC) performance measures, 99.3% of the bridges on the Authority's system are rated excellent (1) or good (2). No load or weight restrictions have been imposed that would constrain the use of any bridge on the Authority's system.

A summary of findings of the physical condition of the roadways, buildings, and bridges for each of the Authority's system roadways: SR 408 (East-West Expressway), SR 414 (John Land Apopka Expressway), SR 417 (Central Florida GreeneWay), SR 429 (Daniel Webster Western Beltway) and SR 528 (Beachline Expressway) is included in the following sections.

Inspection Worksheets for roadways and buildings are included on the compact disk (CD) attached to the back of this report. For security purposes, the latest bridge inspection reports for the bridges along SR 408, SR 414, SR 417, SR 429 and SR 528 are not included, but are available for review upon written request to the Authority.

2012 Annual Inspection Report

East-West Expressway



3.1.1 SR 408 (East - West Expressway)

Roadway

The inspection of the roadway and its appurtenances for SR 408 starts near mile post (MP) 1 (at Florida's Turnpike) and extends east past MP 22, which is the beginning of Challenger Parkway. A map showing SR 408 and its mile posts can be found in Exhibit 3-1. At the time the 2012 inspection was performed, SR 408 was being widened from east of Goldenrod Road to SR 417. The construction limits, from approximately MP 16 to 18, include the Goldenrod Road Ramps and some of the SR 417 Ramps. These portions were not inspected and are shown on the Inspection Worksheets with a rating of 0.

Specific deficiencies and locations of all SR 408 roadway features are shown in the Roadway Inspection Worksheets on the CD attached to the back of this report.

Roadway/Pavement

Roadway/Pavement features are in generally good condition. Cracking deficiencies were the most commonly noted. Class III cracking was noticed on isolated SR 408 mainline sections near the Pine Hills Mainline toll plaza, the John Young Parkway interchange, and the I-4 interchange. It was also noted at the Good Homes Road, the Orange Avenue, and the Rouse Road eastbound off ramps.

These sections are identified on the Roadway Inspection Worksheets. Most of the locations identified as having pavement cracking deficiencies were also identified in the Authority's Pavement Management System Needs Analysis and have been included in the Current Five Year Work Plan for repair.

Other deficiencies were related to joints, paved shoulders, pavement voids, and stripping.

Out of a total of 1,119 Roadway/Pavement features that were inspected on SR 408, only 13 were rated at 4.

Two ratings of 5 were reported, as follows:

- Cracking of the concrete section on eastbound SR 408 at MP 9.764
- Pavement void at the Yucatan bridge on westbound SR 408

Roadside

Roadside features are in good condition with soil shoulder deficiencies being the most common. Most of the deficiencies are located along eastbound SR 408 west of Kirkman Road



Picture 1 – EB SR 408 near MP 2

and on westbound SR 408 near Dean Road.

Specific locations are identified on the Inspection Worksheets. Picture 1 shows shoulder erosion on eastbound SR 408 near MP 2.

Other deficiencies reported were related to fences and front slopes.

Out of a total of 462 Roadside features that were inspected on SR 408, only 20 received a rating of 4. No Roadside features received a rating of 5.

Traffic Services

Traffic services features are in good condition. Information sign deficiencies were noted at some locations. The information sign deficiencies were mostly related to missing information signs (such as milepost signs).

Other noted deficiencies were related to highway lights, object markers, pavement markers, sign lights and warning signs.

Out of a total of 1,086 Traffic Services features inspected on SR 408, only 14 received a rating of 4.

One rating of 5 was reported as follows:

- Object marker missing at the Pine Hills Road eastbound on ramp

Drainage

Drainage features are in generally good condition with the most common deficiencies involving storm drains. As shown on Picture 2, most of the storm drain deficiencies include the shoulder gutter being cracked.

Other deficiencies were related to roadside ditches, curb inlets and cross drains.

Fifteen of the 976 inspected Drainage features on SR 408 received a rating of 4. No Drainage features received a rating of 5.



Picture 2 – EB SR 408 near MP 7

Vegetation/Aesthetics

Vegetation/Aesthetics features are in good condition. Tree trimming is required at various locations. Some of the other deficiencies noted were related to roadway and slope mowing. The Inspection Worksheets include more details and locations.

Out of the total 722 Vegetation/Aesthetics features that were inspected on SR 408, 30 received a rating of 4.

One rating of 5 was reported as follows:

- Tree limbs overhanging barrier wall into clear zone at the Rosalind Avenue westbound off ramp

Buildings

Buildings are generally in good condition.

The most common deficiencies at the SR 408 mainline toll plazas were related to non-working interior and exterior lighting and to wiring. The most common deficiencies at the ramp toll plazas were related to wiring and receptacles. The majority of the locations exhibiting wiring deficiencies are missing junction box cover plates. Receptacle deficiencies were related to GFCI receptacles.



**Picture 3 – OOCEA
Headquarters Building**

The Authority's headquarters building (shown in Picture 3) is located along SR 408 near the Conway Westbound Mainline Toll Plaza. The building is in good condition. Only two features related to cabinets in the break room and the backflow preventer received a rating of 4. No features received a rating of 5. These deficiencies can be addressed through routine maintenance.

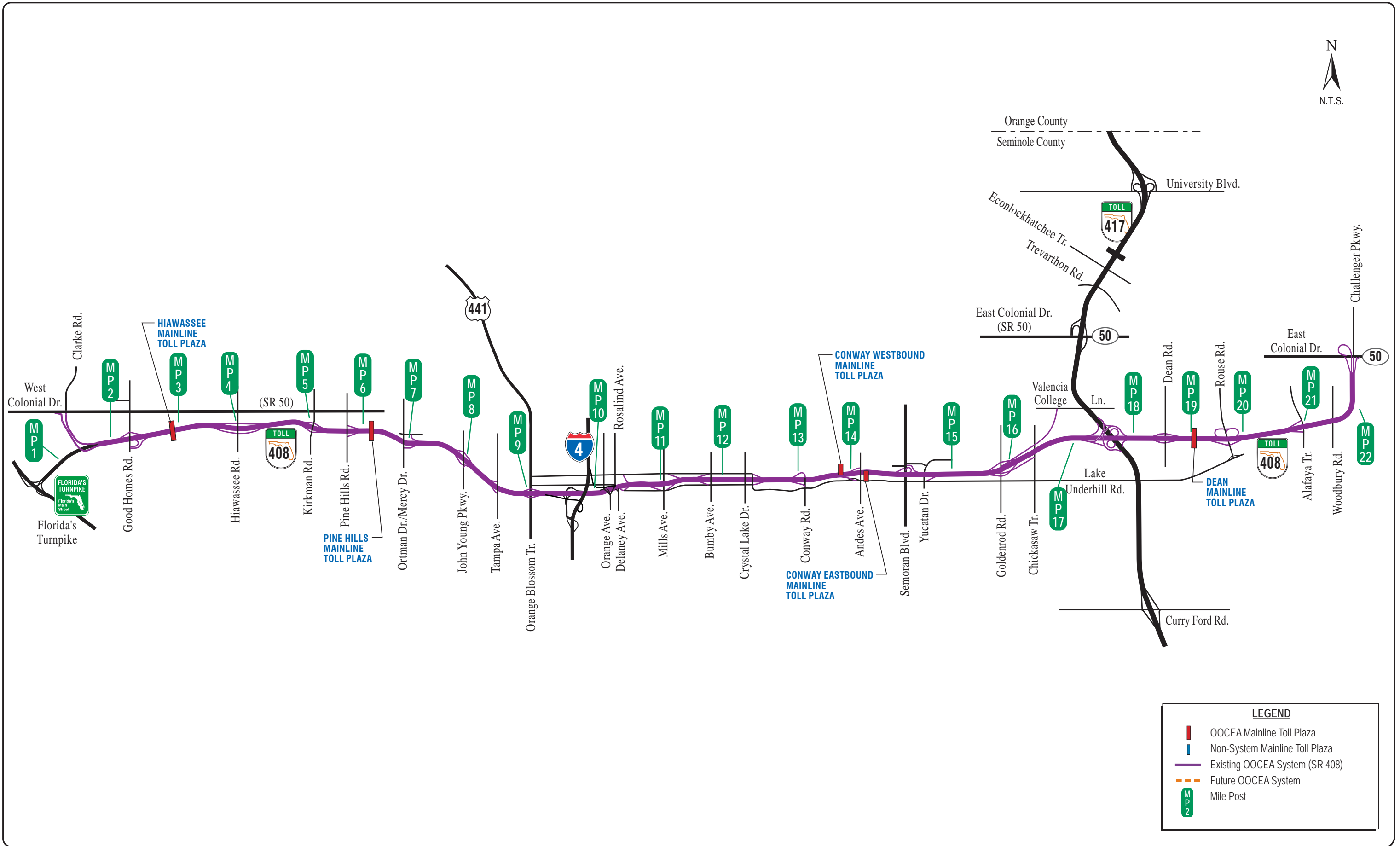
Individual summaries of building conditions along SR 408 are indicated in the Building Inspection Worksheets included on the CD attached to the back of this report.

Bridges

The latest bridge inspection reports for the bridges along SR 408 are available for review upon request to the Authority. No significant deficiencies were reported. Minor deficiencies reported are being addressed by the Authority.

No load limits or weight restrictions have been imposed that would constrain the use of any bridge on SR 408.

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SR 408 (EAST-WEST EXPRESSWAY) MILE POST
ORLANDO-ORANGE COUNTY EXPRESSWAY AUTHORITY



2012 Annual Inspection Report

John Land Apopka Expressway



3.1.2 SR 414 (John Land Apopka Expressway)

Roadway

The inspection of the roadway and its appurtenances for SR 414 starts near MP 4 at SR 429 and extends east past MP 9. A map showing SR 414 and its mile posts can be found in Exhibit 3-2. It should be noted that at the time the 2012 inspection was performed, the western end of SR 414 (approximately between MP 4 and MP 5) was under construction for the extension of SR 414 west to US 441. This roadway portion was not inspected and is shown on the Inspection Worksheets with a rating of 0.

Specific deficiencies and locations of all roadway features along SR 414 are shown in the Roadway Inspection Worksheets included on the CD attached to the back of this report.

Roadway/Pavement

Roadway/Pavement features are in excellent condition with joint deficiencies noted in isolated areas along westbound SR 414.

Only 2 out of the 240 inspected Roadway/Pavement features on SR 414 received a rating of 4. No Roadway/Pavement features received a rating of 5.

Roadside

Roadside features are in excellent condition. One of the deficiencies identified was the presence of graffiti on the slope protection concrete support at one of the US 441 ramps.

Just 4 of the 102 inspected Roadside features on SR 414 received a rating of 4. No Roadside features received a rating of 5.

Traffic Services

Traffic Services features are in excellent condition with no major deficiencies. No Traffic Services features received a rating of 4 or 5.

Highway and sign lighting was inspected at night and is in excellent condition.

Drainage

Drainage features are in excellent condition with no major deficiencies noted. No Drainage features received a rating of 4 or 5.

Vegetation/Aesthetics

Vegetation/Aesthetics features are in excellent condition. The inspection identified that slope mowing is required on eastbound SR 414 along the mainline near MP 7. This was the only feature that received a rating of 4.

No Vegetation/Aesthetics features received a rating of 5.

Buildings

Buildings are generally in excellent condition with deficiencies in isolated locations.

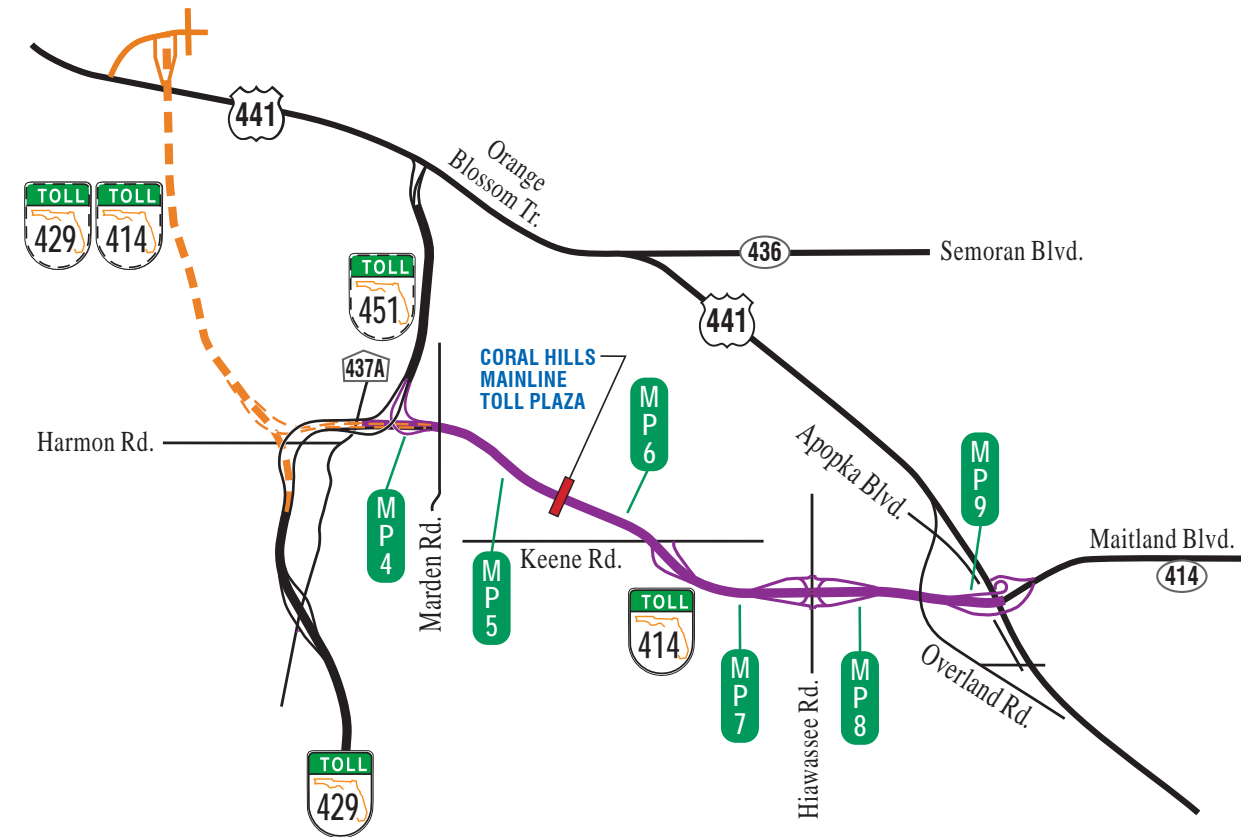
The most common deficiency at the Coral Hills Mainline Toll Plaza is related to GFCI receptacles not working properly. The most common deficiencies at the ramp toll plazas are related to emergency lights not working.

Individual summaries of building conditions along SR 414 are indicated in the Building Inspection Worksheets on the CD attached to this report.

Bridges

The latest bridge inspection reports for the bridges along SR 414 are available for review upon request to the Authority. No significant deficiencies were reported. Minor deficiencies reported are being addressed by the Authority.

No load limits or weight restrictions have been imposed that would constrain the use of any bridge on SR 414.



LEGEND

- OOCEA Mainline Toll Plaza
- Non-System Mainline Toll Plaza
- Existing OOCEA System (SR 414)
- Future OOCEA System
- Mile Post



SR 414 (JOHN LAND APOPKA EXPRESSWAY) MILE POST
ORLANDO-ORANGE COUNTY EXPRESSWAY AUTHORITY



FIGURE
3-2

2012 Annual Inspection Report

Central Florida GreeneWay



3.1.3 SR 417 (Central Florida GreeneWay)

Roadway

The inspection of the roadway and its appurtenances for SR 417 starts before MP 7 and extends north to the Orange/Seminole County Line. Exhibits 3-3 and 3-4 show SR 417 and its mile posts. It should be noted that at the time the 2012 inspection was performed, a portion of the SR 408/SR 417 Interchange was under construction. The portions under construction (from approximately MP 32 to 34 and associated ramps) were not inspected and are shown on the Inspection Worksheets with a rating of 0.

Specific deficiencies and locations of all roadway features along SR 417 are shown in the Building Inspection Worksheets included on the CD attached to the back of this report.



**Picture 4 – NB SR 417
near MP 15**

Roadway/Pavement

Roadway/Pavement features are in good condition. Pavement cracking deficiencies were the most commonly noted. In addition to a few isolated locations (as shown in Picture 4), most of the Class III cracking was observed on SR 417 between Curry Ford Road and Lake Underhill Road. A widening project for this section (which will include milling and resurfacing of existing lanes) is currently under design, and, based on the Five Year Work Plan, is scheduled to start construction in late 2013.

Other deficiencies were related to paved shoulders, pavement voids and shoving.

Out of the 1,332 inspected Roadway/Pavement features on SR 417, 20 received a rating of 4.

One rating of 5 was reported as follows:

- Guardrail pavement erosion adjacent to paved shoulder at one of the ramps at the SR 417/SR 528 interchange

Roadside

Roadside features are in generally good condition. The most common deficiencies were related to soil shoulder and front slope. While soil shoulder erosion occurred at some isolated locations (as shown on Picture 5), most of the soil shoulder erosion deficiencies were concentrated on or near the Lake Nona Boulevard and University Boulevard interchanges. Front slope erosion occurred



**Picture 5 – SB SR 417
near MP 17**

at various locations throughout SR 417, with the area near University Boulevard needing special attention.

Other deficiencies were related to fences, sidewalks and slope protection.

Out of the 598 inspected Roadside features on SR 417, 43 received a rating of 4.

Only two ratings of 5 were reported as follows:

- Front slope erosion up to 24 inches at the Lake Nona Boulevard northbound off ramp
- Soil shoulder erosion up to 18 inches at the Lake Nona Boulevard northbound off ramp

Traffic Services

Traffic services features are in generally good condition. Information sign deficiencies were the most commonly noted. Most of the information sign deficiencies were related to missing milepost signs. Other traffic services deficiencies were related to barrier walls, highway lights, object markers, regulatory signs, sign lights, striping, and warning signs.

37 of the 1,305 inspected Traffic Services features on SR 417 received a rating of 4. No Traffic Services features received a rating of 5.

Drainage

Drainage features are in good condition with storm drain deficiencies being reported at some locations. These storm drain deficiencies were mostly related to the shoulder gutter being cracked. Median ditch, miscellaneous inlet and roadside ditch deficiencies were also reported at various locations.

Only 12 of the 1,196 Drainage features inspected on SR 417 received a rating of 4. No Drainage features received a rating of 5.

Vegetation/Aesthetics

Vegetation/Aesthetics features are in good condition with tree trimming required in some areas where the tree limbs are encroaching to the edge of the travel lanes. Other noted deficiencies were related to landscape, litter removal, roadway and slope mowing, roadway sweep, and turf condition.

Of the total 913 inspected Vegetation/Aesthetics features on SR 417, 31 received a rating of 4. No Vegetation/Aesthetics features received a rating of 5.

Buildings

Buildings are generally in good condition.

The SR 417 mainline toll plazas experienced deficiencies mostly with receptacles and wiring. The receptacle deficiencies were related to GFCI's, and the wiring deficiencies were mostly related to missing junction box covers. The most common deficiencies at ramp toll plazas were related to breakers not being correctly labeled or identified, and to air conditioners not working properly.

Individual summaries of building conditions along SR 417 are indicated in the Building Inspection Worksheets on the CD included attached to the back of this report.

Bridges

The latest bridge inspection reports for the bridges along SR 417 are available for review upon request to the Authority. No significant deficiencies were reported. Minor deficiencies reported are being addressed by the Authority.

No load limits or weight restrictions have been imposed that would constrain the use of any bridge on SR 417.

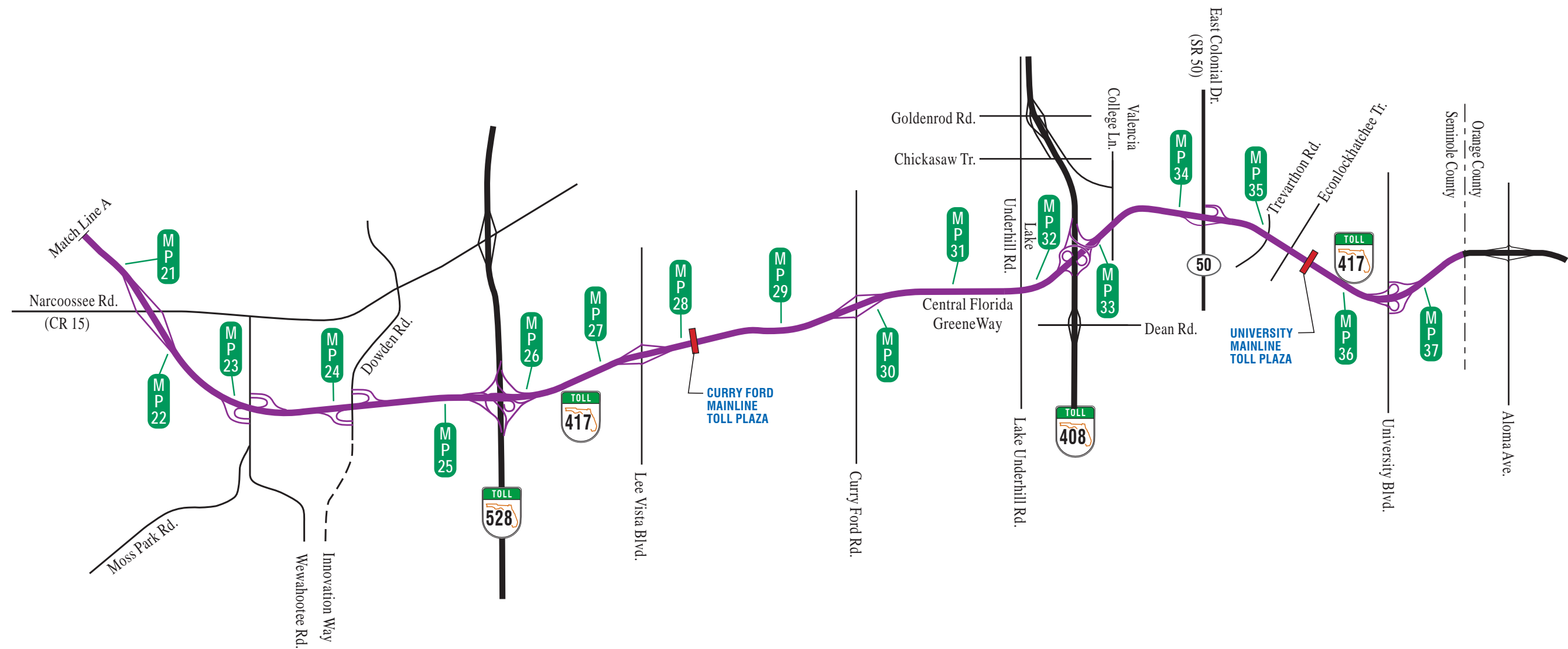


SR 417 (CENTRAL FLORIDA GREENEWAY) MILE POST
ORLANDO-ORANGE COUNTY EXPRESSWAY AUTHORITY



FIGURE
3-3

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LEGEND

OOCEA Mainline Toll Plaza

Non-System Mainline Toll Plaza

Existing OOCEA System (SR 417)

Future OOCEA System

Mile Post

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SR 417 (CENTRAL FLORIDA GREENEWAY) MILE POST

ORLANDO-ORANGE COUNTY EXPRESSWAY AUTHORITY



2012 Annual Inspection Report

Daniel Webster Western Beltway



3.1.4 SR 429 (Daniel Webster Western Beltway)

Roadway

The inspection of the roadway and its appurtenances for SR 429 starts at US 441 at the northern terminus of SR 429 and extends south to Seidel Road (near MP 11). A map showing SR 429 and its mile posts can be found in Exhibit 3-5. At the time the 2012 inspection was performed, construction was underway for the new system interchange with SR 429 and the extension of SR 414. Due to the construction, a portion of the roadway between MP 29 and MP 31 was not inspected and is shown on the Inspection Worksheets with a rating of 0.

Specific deficiencies and locations of all roadway features along SR 429 are shown in the Roadway Inspection Worksheets included on the CD attached to the back of this report.

Roadway/Pavement

Roadway/Pavement features are in good condition with pavement cracking deficiencies noted at isolated locations. Class III cracking occurred at some of the SR 429 / Florida's Turnpike interchange ramps, at the CR 537 southbound off ramp and at the CR 437A southbound on ramp.

Joint material deterioration was noted at the Independence mainline plaza and stripping was noted on southbound SR 429 near MP 12.

Only 6 of the total 763 inspected Roadway/Pavement features on SR 429 received a rating of 4. No Roadway/Pavement features received a rating of 5.

Roadside

Roadside features are in good condition. Some isolated locations exhibit front slope and soil shoulder deficiencies. There was also a slope protection deficiency on the CR 438 bridge.

Out of a total of 331 inspected Roadside features on SR 429, 14 received a rating of 4.

Only one rating of 5 was reported as follows:

- The soil shoulder at the New Independence Parkway northbound on ramp exhibits erosion in excess of 24 inches

Traffic Services

Traffic service features are in good condition. Deficiencies in object markers and information signs were the most commonly observed and were mostly related to missing object markers and sign height requirements. Other observed deficiencies were related to attenuators, barrier walls and highway lights.

Sign lighting was inspected at night and is in good condition.

27 of the total 784 inspected Traffic Services features on SR 429 received a rating of 4.

One rating of 5 was reported as follows:

- The attenuator for northbound SR 429 near MP 12.5 is missing the absorption blocks

Drainage

Drainage features are in good condition with storm drain deficiencies at isolated locations related to cracked shoulder gutters. There was also one reported deficiency related to median erosion.

Only 5 of the 657 inspected Drainage features on SR 429 received a rating of 4. No Drainage features received a rating of 5.

Vegetation/Aesthetics

Vegetation/Aesthetics features are in good condition. A couple of locations exhibit deficiencies related to slope and roadway mowing where vegetation is in excess of 36 inches in height. A litter removal deficiency was noted on northbound SR 429 near MP 14.5, and turf condition deficiencies were noted between MP 15 and 16.

Out of the total 526 inspected Vegetation/Aesthetic features on SR 429, 9 received a rating of 4. No Vegetation/Aesthetics received a rating of 5.

Buildings

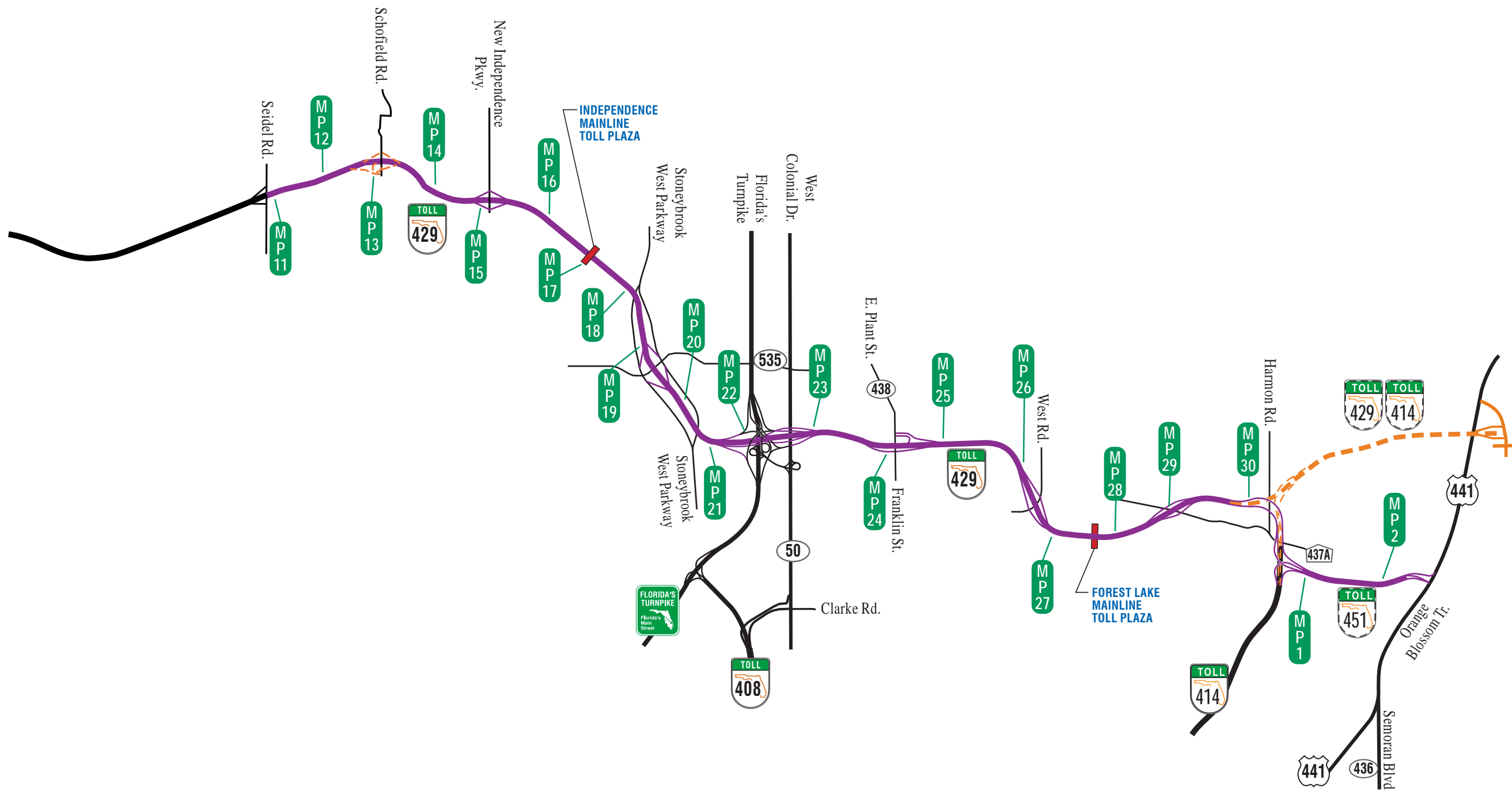
Buildings are generally in good condition. The most common deficiency for both the mainline and ramp toll plazas was related to GFCI receptacles not working properly.

Individual summaries of building conditions along SR 429 are indicated in the Building Inspection Worksheets on the CD attached to this document.

Bridges

The latest bridge inspection reports for the bridges along SR 429 are available for review upon request to the Authority. No significant deficiencies were reported. Minor deficiencies reported are being addressed by the Authority.

No load limits or weight restrictions have been imposed that would constrain the use of any bridge on SR 429.



LEGEND

- OOCEA Mainline Toll Plaza
- Non-System Mainline Toll Plaza
- Existing OOCEA System (SR 429)
- Future OOCEA System
- Mile Post



SR 429 (DANIEL WEBSTER WESTERN BELTWAY) MILE POST
ORLANDO-ORANGE COUNTY EXPRESSWAY AUTHORITY



2012 Annual Inspection Report

Beachline Expressway



3.1.5 SR 528 (Beachline Expressway)

Roadway

The inspection of the roadway and its appurtenances for SR 528 starts before MP 9 (near McCoy Road / Boggy Creek Road) and extends east to SR 520. A map showing SR 528 and its mile posts can be found in Exhibit 3-6.

For SR 528, specific deficiencies and locations of all roadway features are shown in the Roadway Inspection Worksheets included on the CD attached to the back of this report.

Roadway/Pavement

Roadway/Pavement features are in generally good condition. The most common deficiencies were related to cracking. Class III cracking was noted mainly in the area near the Goldenrod Road interchange. The locations identified as having pavement cracking deficiencies were also identified in the Authority's Pavement Management System Needs Analysis and have been included in the Current Five Year Work Plan for repair.

Shoving deficiencies were noted at the ICP Boulevard eastbound off ramp and the Goldenrod Road westbound off ramp. Stripping deficiencies were noted at the ICP Boulevard eastbound on ramp.

12 of a total of 798 Roadway/Pavement features inspected on SR 528 received a rating of 4.

Only one feature received a rating of 5 as follows:

- Two pavement voids are present on westbound SR 528 near MP 8.5

Roadside

Roadside features are in good condition. The most common deficiencies were related to soil shoulders. These soil shoulders are approximately 6" below the adjacent paved shoulders at various locations along SR 528 and at some of the ramps at the SR 528 / SR 436 interchange. A couple of fence deficiencies and one front slope deficiency were also noted.

For SR 528, only 10 of the total 335 inspected Roadside features received a rating of 4. No Roadside features received a rating of 5.

Traffic Services

Traffic service features are in good condition. The most common deficiencies involve highway lights not working near the Dallas Mainline Toll Plaza and on eastbound SR 528 between Goldenrod Road Extension and Narcoossee Road. Other deficiencies noted were related to information signs, object markers, and sign lights.

11 of the total 780 inspected Traffic Services features on SR 528 received a rating of 4. No Traffic Services features were rated at 5.

Drainage

Drainage features are in good condition. Deficiencies in roadside ditches were noted in some areas and were related to overgrown vegetation in the ditches. There was also a damaged skimmer on eastbound SR 528 near MP 15.5.

Out of a total of 655 inspected Drainage features on SR 528, 8 received a rating of 4. No Drainage features received a rating of 5.

Vegetation/Aesthetics

Vegetation/Aesthetics features are in good condition with some areas requiring roadway mowing and others requiring trimming of tree limbs that are encroaching the travel lane or clear zone.

For SR 528, 9 of a total of 543 inspected Vegetation/Aesthetics features received a rating of 4. No Vegetation/Aesthetics features received a rating of 5.

Buildings

Buildings are generally in good condition. The most common deficiencies for the mainline toll plazas were related to receptacles not working properly and to faded reflective material on signs. The ICP Boulevard ramp toll plazas experienced deficiencies mostly related to wiring and peeling paint.

Individual summaries of building conditions along SR 528 are indicated in the Building Inspection Worksheets on the CD included attached to this document.

Bridges

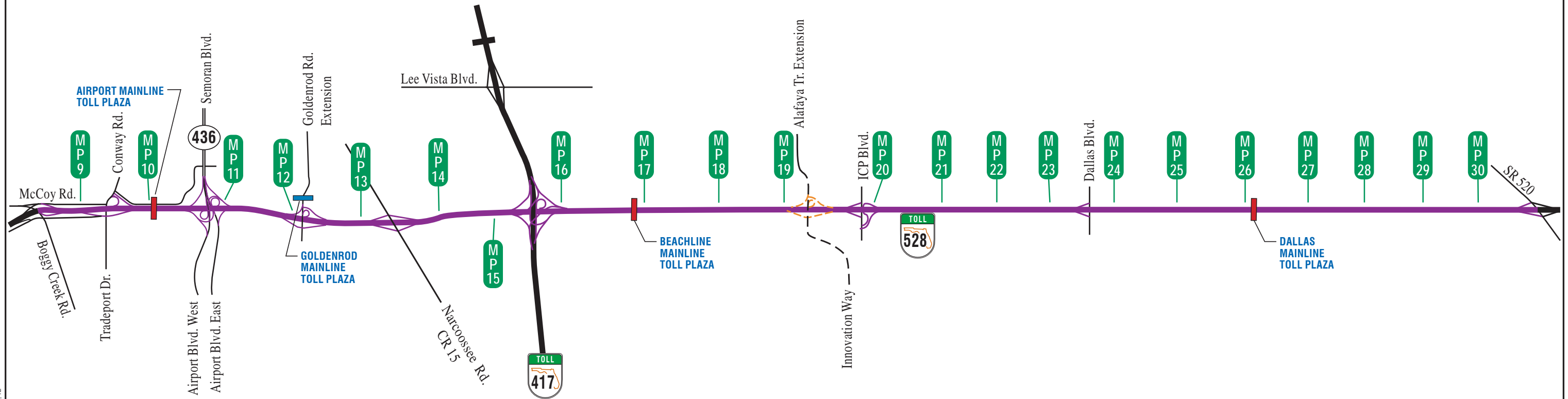
The latest bridge inspection reports for the bridges along SR 528 are available for review upon request to the Authority. The bridge inspection reports identified deficiencies and

included work order recommendations for the following bridges:

- SR 528 eastbound and westbound over Econ River
- SR 436 southbound over SR 528

These reported deficiencies are currently being addressed by the Authority.

No load limits or weight restrictions have been imposed that would constrain the use of any bridge on SR 528.



LEGEND

OOCEA Mainline Toll Plaza

Non-System Mainline Toll Plaza

Existing OOCEA System (SR 528)

Future OOCEA System

M P 2

Mile Post

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SR 528 (BEACHLINE EXPRESSWAY) MILE POST

ORLANDO-ORANGE COUNTY EXPRESSWAY AUTHORITY



FIGURE

3-6

ATKINS

GENERAL CONSULTANT

482 South Keller Road

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