

Americans with Disabilities Act (ADA) in the Public Rights-of-Way Transition Plan



FS

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Acknowledgements

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Background and Purpose

Executive Summary

The Americans with Disabilities Act (ADA) of 1990 was a civil rights statute to provide persons with disabilities protections against discrimination in all areas of public life. The Orange County Public Works ADA Transition Plan for the Public Rights-of-Way (ADA Transition Plan) documents Orange County's goals and objectives in order to ensure that existing and future pedestrian facilities within the public rights-of-way are accessible for all.

The ADA Transition Plan is one component of Orange County's efforts to further improve pedestrian mobility. An internal review of County codes, policies, processes, procedures, practices, and other contractual documents was performed to further how ADA is implemented. The 2006 ADA Standards for Transportation Facilities (49 CFR 37.9(a)) was referenced and is key guiding document related to the establishment of ADA standards in Orange County. This ADA Transition Plan also outlines the self-assessment of existing County infrastructure (sidewalks, curb ramps, etc.) in the public rights-of-way. The applications and technical specifications of ADA compliance in regards to the resurfacing or alteration of streets, roads, or highways provided by the Department of Justice/Department of Transportation Joint Technical Assistance on the Title II of the Americans with Disabilities Act and the Q&A Supplement to the DOJ/DOT Joint Technical Assistance on Resurfacing were considered in the development of the transition plan. These will be key documents that will help guide the implementation of ADA in the rights-of-way of Orange County.

Nearly 100 miles of sidewalks were inventoried, and all ADA features studied are evaluated and the results are reported in the ADA Transportation Network Inventory. Preliminary cost estimates to mitigate identified ADA barriers are developed along with a prioritization methodology to schedule the mitigation projects. It is estimated that approximately \$190 million in ADA barriers are present in the rights-of-ways that are the responsibility of Orange County Public Works.

An implementation plan to identify the procedures for completing the mitigation projects is presented, and a preliminary project schedule is developed. The plan to continually expand the ADA Transportation Network Inventory to encompass all of Orange County is described, along with the methods of continued communication with the public.

Background and Purpose

1.0 Background and Purpose

The Americans with Disabilities Act (ADA) of 1990 is a civil rights statute to provide persons with disabilities protections against discrimination in all areas of public life, including jobs, schools, transportation, and all public and private places that are open to the general public. The ADA is divided into five titles, or sections, in order to address each of the different areas of public life. Title II – State and Local Government, prohibits state and local governments from discriminating against persons with disabilities in programs, services, or activities operated by the agency.

The Orange County Public Works ADA Transition Plan for the Public Rights-of-Way (ADA Transition Plan) documents Orange County's goals and objectives in order to ensure that existing and future pedestrian facilities within the public rights-of-way are accessible for all. This document has been developed in accordance with the ADA Title II, which requires public agencies to develop a transition plan that provides for the mitigation of barriers to accessibility.

The ADA Transition Plan is one component of Orange County's efforts to further improve pedestrian mobility. Orange County's codes, policies, processes, procedures, practices, and other contractual documents form the framework that establishes how ADA is implemented. A review of these items as it relates to County public rightsof-way was completed and recommendations for revisions to these items were documented (Appendix items 1-11). The ADA Transition Plan itself outlines the self-assessment of existing infrastructure in the public rights-ofway, the implementation of identified projects, and methods of community involvement and outreach with the public. These three primary components of the ADA Transition Plan are detailed throughout the remainder of this document.

Any future updates to any of these sections will be published as addenda at the end of this document.

The Self-Assessment section documents the study of existing conditions to provide evaluation of the existing ADA features (curb ramps, sidewalks, etc.) in regards to current ADA standards. The study uses a sample of County sidewalks based on upcoming resurfacing projects. The locations are dispersed throughout the County and represent generalized County conditions. The sample is further used to extrapolate potential ADA compliance needs throughout the County. A process to prioritize locations for ADA improvements based on their likelihood of use is also developed as a part of the Self-Assessment.

Prioritizations and cost estimates provided in Section 2.0 Self-Assessment should be updated in the future as projects are completed and actual, current cost information related to ADA-specific projects becomes available.

2.1 ADA Sidewalk Sampling and Field Assessment Methodology

This section documents the process used to identify candidate projects for sampling, the initial data collection effort, and the barrier classification and associated mitigation strategies. This information is then used in the development of the ADA Transportation Network Inventory. The techniques used were specific to this project, but the processes such as corridor selection, the data collection needs, and the assessment approaches can be maintained throughout the ADA Transition Plan period.

2.1.1 Candidate Project Selection Process

The initial list of corridors considered for data collection (included in Appendix 12) was determined based on a review of upcoming resurfacing candidate projects. The candidate resurfacing projects was based on the next most likely projects to be completed. This ranking process took into account the type of resurfacing project and the initial fiscal year of the planned resurfacing. The ranking process was applied to the Orange County's 2015 Planned Milling and Resurfacing List. The top ranked resurfacing projects (based on likelihood of resurfacing) were then used for the initial data collection and serve as a representative sample for conditions throughout the County. Using these projects also helped determine specific ADA barrier mitigations for real upcoming resurfacing projects. The result is the identification of 59.23 centerline miles of roadways for the sample. The sample projects are dispersed throughout the County and include a combination of subdivision roadways and major thoroughfare roadways. A map of the selected roadway segments is shown in Figure 1. The specified roadways segments for the initial data collection are listed in the Appendix 13.

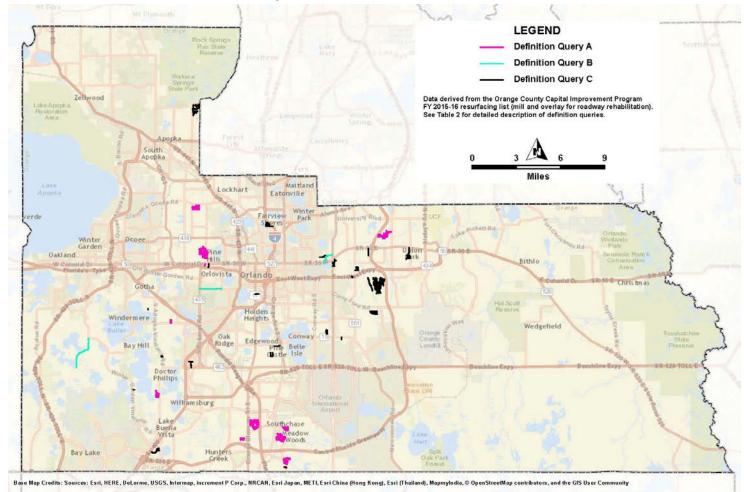


Figure 1: Selected Corridors for Initial Data Collection

ADA Transition Plan in the Public Rights-of-Way

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2.1.2 Data Collection and Inventory

To provide an encompassing inventory of ADA features throughout Orange County maintained roadways, information was collected through data imagery using a Mobile Mapping Vehicle (MMV) that incorporates high speed digital imaging with a global positioning system (GPS). The MMV data collection provides low altitude, street level imagery using six cameras that are mounted on the vehicle. The high quality panoramic imagery allows for the observation and assessment of ADA features within the public rights-of-way.

ADA features along the identified corridors in Figure 1 were recorded as part of the ADA Transportation Network Inventory. The ADA Transportation Network Inventory is a GIS-based inventory that includes ADA features in the public rights-of-way within Orange County. ADA features are identified with characteristics including the current location, condition, and attributes. A summary of the elements identified in the inventory is included below, and each of the items and specific data field indicators are explained in detail in the Orange County Transportation Network Inventory ADA Self-Assessment: Spherical Image Extraction Data Model. The Spherical Image Extraction Data Model also serves as a guide for future data collection efforts. It is noteworthy that pedestrian signals were not part of the original assessment and are described in the implementation section of this framework plan. Future data collection efforts can include pedestrian signals.

- General Information
 - Feature Location
 - Street Name
 - Crossroad Name
 - Direction
 - Quadrant
 - GPS Coordinates
 - Feature ID Number
 - Photo ID Number
 - Additional Notes
- Sidewalks
 - Status
 - Material
 - Width
 - Passing space
 - Segment Rating

- Curb Ramps
 - Status
 - Туре
 - Detectable Warning
 Surface Present
 - Sides
 - Landing
 - Marked Crossing
 - Curb Extensions
 - Midblock Crossing
 - Island
 - Pedestrian Signal
 - Cross Slope Compliance
 - Running Slope Compliance

- Handrails
 - Status
 - Hazard
 - Length
- Obstacles
 - Туре
 - Source
- Potential Hazards
 - Туре
 - Source
- Damaged Features
 - Туре
 - Source

ADA features included in the network inventory are evaluated and identified either as compliant (for future monitoring) or non-compliant (candidate for retrofit or replacement) based upon the data collection effort. As indicated in Section 3.2.4 ADA Compliance Monitoring Procedure (page 38), Orange County will update and expand the ADA Transportation Network Inventory annually.

2.1.3 Barrier Classification and Mitigation

Each identified ADA feature, as indicated in the previous subsection, is evaluated to determine if it meets current ADA standards. If a feature is determined to not be compliant with current standards, it was identified as an ADA barrier. Typical ADA barrier classification and mitigation strategies identify the types of solutions necessary to mitigate the identified ADA barriers. For example, an identified sidewalk gap barrier would be mitigated by installing a new five foot width (5' width) sidewalk along the entire gap. The inventory did not include additional analyses regarding the Safe Harbor Provision (28 C.F.R. 35.150(b)(2)(i). The Safe Harbor Provision allows for facilities that do not meet current standards remain provided they were compliant with the ADA standards in effect when they were installed.

Mitigation strategies are developed for each of the barrier types identified. With these strategies in mind, costs to mitigate each identified ADA barrier type are estimated, and are reported in Table 1. The estimated costs are based on a mid-range level of project complexity using 2015 dollars and typical costs. Table 1 identifies the ADA barrier and mitigation strategy, and reports the costs associated with implementing the mitigation strategy in *italics*. Continuing the sidewalk gap example from earlier, installing a new five foot wide sidewalk includes expenses for concrete, erosion control, clearing and grubbing, earthwork, and sod. Quantities for each of the expense categories represent typical conditions for mid-range project complexity, and these item costs total into one unit cost for the mitigation strategy. Estimated total costs are loaded costs, and include additional factors to account for Maintenance of Traffic (MOT), Mobilization, Contingency, Design, and Construction Engineering Inspection (CEI) which are added on a percentage basis to the subtotal of the estimated mitigation costs. The loaded costs do not include additions for right-of-way acquisition. Estimated unit costs are reported as unloaded costs, and do not include the additional percentage factors.

ADA Barrier	Mitigation Strategy	Units	Quantity	Item Cost	Unit Cost	Total Cost (unloaded)	Total Cost (loaded)	Notes
Sidewalks								
Gap in Sidewalk	New 5' Sidewalk	LF	1		\$28.91	\$28.91	\$53.13	
	Concrete	SY	1	\$35.00	\$19.44			
	Erosion Control	LF	1	\$2.00	\$2.00			
	Clear/Grub	AC	0.0002	\$20,000.00	\$4.59			
	Earthwork	СҮ	0.2	\$5.00	\$0.93			
	Sod	SY	1	\$3.50	\$1.94			
Insufficient Passing Distance	Remove sidewalk panel & Add 5' Wide Panel for passing/turn around	Each Sidewalk Panel	1		\$289.06	\$289.06	\$531.29	Based on 4" thick, 5' W x 10' L at \$35/SY
	Concrete	SY	6	\$35.00	\$194.44			
	Erosion Control	LF	10	\$2.00	\$20.00			
	Clear/Grub	AC	0.002	\$20,000.00	\$45.91			
	Earthwork	СҮ	2	\$5.00	\$9.26			
	Sod	SY	6	\$3.50	\$19.44			
Curb Ramps								
Missing Curb Ramp	New Curb Ramp	Each	1		\$2,107.54	\$2,107.54	\$3,873.59	Based on Curb Ramp Type CR-B, 6" thick.
	Concrete	SY	23	\$42.00	\$966.00			
	Erosion Control	LF	22	\$2.00	\$44.00			
	Clear/Grub	AC	0.006	\$20,000.00	\$115.70			
	Earthwork	СҮ	5	\$5.00	\$23.33			
	Sod	SY	7	\$3.50	\$24.50			
	Detectable Warning	SF	10	\$45.00	\$450.00			
	Curb & Gutter	LF	22	\$22.00	\$484.00			

Table 1: Preliminary Cost Estimate Methodology to Mitigate ADA Barriers

ADA Barrier	Mitigation Strategy	Units	Quantity	Item Cost	Unit Cost	Total Cost (unloaded)	Total Cost (loaded)	Notes
Structurally Deficient Curb Ramp	Remove and Replace Curb Ramp	Each	1		\$2,107.54	\$2,107.54	\$3,873.59	Based on Curb Ramp Type CR-B, 6" thick.
	Concrete	SY	23	\$42.00	\$966.00			
	Erosion Control	LF	22	\$2.00	\$44.00			
	Clear/Grub	AC	0.006	\$20,000.00	\$115.70			
	Earthwork	СҮ	5	\$5.00	\$23.33			
	Sod	SY	7	\$3.50	\$24.50			
	Detectable Warning	SF	10	\$45.00	\$450.00			
	Curb & Gutter	LF	22	\$22.00	\$484.00			
Curb Ramp Missing Detectable Warning (not structurally deficient)	Add Detectable Warning (assumes 10 SF each)	Each	1		\$450.00	\$450.00	\$827.09	Based on 10 SF.
	Detectable Warning	SF	10	\$45.00	\$450.00			
Obstacles						\$100.00	\$183.80	
Tree, Bush, and Shrub Branches Blocking Path	Trim Obstacle	Each	1		\$100.00	\$100.00	\$183.80	
Vegetation Blocking Path	Trim Obstacle	Each	1		\$100.00	\$100.00	\$183.80	
Utility Pole Blocking Path	Relocate Pole	Each	1		\$3,000.00	\$3,000.00	\$5,513.92	
Excessive Water Collecting on Pathway During Rain Events (ponding)	Regrade & Remove/Replace 20 LF	Each	1		\$578.12	\$578.12	\$1,062.58	Based on 4" thick, 5' W x 20' L at \$35/SY
	Concrete	SY	11	\$35.00	\$388.89			

ADA Barrier	Mitigation Strategy	Units	Quantity	Item Cost	Unit Cost	Total Cost	Total Cost	Notes
						(unloaded)	(loaded)	
	Erosion Control	LF	20	\$2.00	\$40.00			
	Clear/Grub	AC	0.005	\$20,000.00	\$91.83			
	Earthwork	СҮ	4	\$5.00	\$18.52			
	Sod	SY	11	\$3.50	\$38.89			
Hazards								
Excessive Cross Slope on Sidewalk	Remove & Replace 10 LF of Sidewalk for Each	Each	1		\$289.06	\$289.06	\$531.29	Based on 4" thick, 5' W x 10' L at \$35/SY
	Concrete	SY	6	\$35.00	\$194.44			
	Erosion Control	LF	10	\$2.00	\$20.00			
	Clear/Grub	AC	0.002	\$20,000.00	\$45.91			
	Earthwork	СҮ	2	\$5.00	\$9.26			
	Sod	SY	6	\$3.50	\$19.44			
Excessive Running Slope on Sidewalk	Remove & Replace 20 LF of Sidewalk for Each	Each	1		\$578.12	\$578.12	\$1,062.58	Based on 4" thick, 5' W x 20' L at \$35/SY
	Concrete	SY	11	\$35.00	\$388.89			
	Erosion Control	LF	20	\$2.00	\$40.00			
	Clear/Grub	AC	0.005	\$20,000.00	\$91.83			
	Earthwork	СҮ	4	\$5.00	\$18.52			
	Sod	SY	11	\$3.50	\$38.89			
Drop Off	Install Handrail	Each	1		\$840.00	\$840.00	\$1,543.90	Based on Index 880 Steel Pipe Guiderail
	Handrail	LF	10	\$84.00	\$840.00			
Damages								
Heaving or Settlement of Sidewalk	Remove & Replace 10 LF of Sidewalk for Each	Each	1		\$289.06	\$289.06	\$531.29	Based on 4" thick, 5' W x 10' L at \$35/SY
	Concrete	SY	6	\$35.00	\$194.44			
	Erosion Control	LF	10	\$2.00	\$20.00			

ADA Barrier	Mitigation Strategy	Units	Quantity	Item Cost	Unit Cost	Total Cost (unloaded)	Total Cost (loaded)	Notes
	Clear/Grub	AC	0.002	\$20,000.00	\$45.91			
	Earthwork	CY	2	\$5.00	\$9.26			
	Sod	SY	6	\$3.50	\$19.44			
Shattering of Sidewalk	Remove & Replace 10 LF of Sidewalk for Each	Each	1		\$289.06	\$289.06	\$531.29	Based on 4" thick, 5' W x 10' L at \$35/SY
	Concrete	SY	6	\$35.00	\$194.44			
	Erosion Control	LF	10	\$2.00	\$20.00			
	Clear/Grub	AC	0.002	\$20,000.00	\$45.91			
	Earthwork	CY	2	\$5.00	\$9.26			
	Sod	SY	6	\$3.50	\$19.44			
Trip Edge	Grind Each Occurrence	Each	1		\$50.00	\$50.00	\$91.90	

Notes:

The cost of each unit cost includes erosion & sediment control, clearing and grubbing, grading, any required curb and gutter replacement, and performance turf.

Costs are estimated using 2015 dollars and pricing.

Quantities are rounded to the nearest whole number (ex. 0.55 rounds up to 1)

Loaded costs include a percentage increase in cost for MOT (10%), Mobilization (10%), Contingency (20%), Engineering (15%), and CEI (10%). Unloaded costs do not include these additions.

Unloaded costs are developed based on FDOT historical costs.

Costs do not include the data collection effort related to ADA Barrier Identification.

2.1.4 ADA Barrier Mitigation at Traffic Signals

As documented in Table 9 in Section 2.3, there are 345 traffic signals maintained and owned by Orange County (FDOT corridors are not included). The installation of pedestrian signal improvements at an intersection where none currently exists is estimated to cost approximately \$40,000 per intersection with four approaches (not including curb ramp related items). No detailed assessment has been completed for signalized intersections to determine traffic signal related ADA barriers. However, if all intersections needed to be reconstructed it would represent \$13.8 million in traffic signal improvements. This number is relatively small compared to the sidewalk and curb ramp related ADA barrier estimate. For the purposes of estimating improvements, until a more detailed estimate can be completed, it is assumed that 25% of all signalized intersections will need to be completely rebuilt, resulting in \$3.45 million in traffic signal related ADA barriers at County owned intersections.

2.2 Candidate Project Assessment & Countywide Assessment Results

For each Candidate Project used to establish the countywide sample, the ADA barriers were studied in detail. The resulting number of barriers and anticipated costs to mitigate them is summarized in this section, and does not include additional analyses in regards to the Safe Harbor Provision (28 C.F.R. 35.150(b)(2)(i). As discussed in Section 2.1.3, the Safe Harbor Provision would allow for the possibility of some facilities not meeting current standards to legally remain. It is often difficult to determine when a facility was installed and compare it to the standard in effect at the time. The County's goal is to upgrade all facilities to current standards and all deficient areas should be considered for upgrade. However, the Safe Harbor Provision would allow some barriers areas to be completed at a later time.

2.2.1 ADA Barrier Types and Countywide Estimates

Field review of the candidate resurfacing corridors identified a variety of ADA deficiencies. These barriers are quantified in Table 2 into five classifications of fifteen deficiency types. The most predominant identified barriers were "trip edges" with more than 1,350 incidences identified on the nearly 60 miles of inventoried roadway corridors, and insufficient passing distances on sidewalks.

In selecting the candidate projects, efforts were made to make it a representative sample of the countywide transportation system. The 34 candidate projects represent approximately 3.2% of the County's sidewalk system, creating an extrapolation factor of 31.5. This relationship of sample to whole was used to estimate the number and type of barriers that would be found countywide, as shown in Table 2 below. Each of the ADA barriers identified in Table 2 is also reported in the Orange County ADA Transportation Network Inventory.

ADA Barrier Type	Number of ADA Barriers Identified on Candidate Projects	Estimated Number of ADA Barriers Countywide
Sidewalk		
Gaps In Sidewalk	6,230 LF	196,100 LF
Insufficient Passing Distance on Sidewalks	40,500 LF	1,275,000 LF
Curb Ramps		
Missing Curb Ramps	301	9,476
Structurally Deficient Curb Ramps	403	12,688
Curb Ramps Missing Detectable Warning Surface (not structurally deficient)	300	9,445

Table 2: Number of Barriers Identified on Candidate Projects and Countywide Extrapolation

ADA Barrier Type	Number of ADA Barriers Identified on Candidate Projects	Estimated Number of ADA Barriers Countywide
Obstacles		
Tree, Bush, or Shrub Branches Blocking Path	38	1,196
Vegetation Blocking Path	47	1,480
Utility Pole Blocking Path	10	315
Excessive Water Collecting on Pathway During Rain Events (ponding)	60	1,889
Hazards		
Excessive Cross Slope on Sidewalk	99	3,117
Excessive Running Slope on Sidewalk	15	472
Drop Offs	42	1,322
Damages		
Heaving or Settlement of Sidewalk	198	6,234
Shattering of Sidewalk	78	2,456
Trip Edges	1,367	43,038

2.2.2 ADA Barrier Mitigation Cost Estimate

For each observed barrier type, a mitigation strategy was developed with an associated cost, as detailed in Section 2.1.3 on page 7.

Overall Project Costs

An overall ADA retrofit cost estimate to mitigate all of the identified barriers along inventoried candidate projects was developed along with an estimate of the countywide costs. The countywide costs are based on applying the same unit prices for the mitigation of barriers to the estimated number of countywide barriers. The estimated total loaded costs by barrier type for both the inventoried corridors and countywide are shown in Table 3.

Table 3: Estimated Loaded Cost of Barriers Identified on Candidate Projects and Countywide Extrapolation

ADA Barrier Type	Estimated Mitigation Cost for Inventoried Corridors	Estimated Mitigation Cost for Countywide
Sidewalk		
Gaps In Sidewalk	\$ 331,000	\$ 10,420,000
Insufficient Passing Distance on Sidewalks	\$ 2,151,900	\$ 67,750,000
Curb Ramps		
Missing Curb Ramps	\$ 1,166,000	\$ 36,700,000
Structurally Deficient Curb Ramps	\$ 1,561,200	\$ 49,150,000

ADA Barrier Type	Estimated Mitigation Cost for Inventoried Corridors	Estimated Mitigation Cost for Countywide		
Curb Ramps Missing Detectable Warning Surface (not structurally deficient)	\$ 248,100	\$ 7,810,000		
Obstacles				
Tree, Bush, or Shrub Branches Blocking Path	\$ 7,000	\$ 220,000.		
Vegetation Blocking Path	\$ 8,600	\$ 280,000		
Utility Pole Blocking Path	\$ 55,100	\$ 1,730,000		
Excessive Water Collecting on Pathway During Rain Events (ponding)	\$ 63,800	\$ 2,000,000		
Hazards				
Excessive Cross Slope on Sidewalk	\$ 52,700	\$ 1,650,000		
Excessive Running Slope on Sidewalk	\$ 16,000	\$ 500,000		
Drop Offs	\$ 64,900	\$ 2,040,000		
Damages				
Heaving or Settlement of Sidewalk	\$ 105,300	\$ 3,310,000		
Shattering of Sidewalk	\$ 41,500	\$ 1,300,000		
Trip Edges	\$ 125,700	\$ 3,950,000		
Total	\$ 5,998,800	\$ 188,810,000		

As shown in the table above, the total cost of mitigating ADA barriers along the inventoried corridors is estimated to be nearly \$6,000,000, while the countywide mitigation costs for sidewalk and curb related barriers are anticipated to be nearly \$190 million. The detailed cost estimate for the inventoried corridors is located in the following series of figures/tables, along with a map of the inventoried corridors and a table of the loaded cost estimates per location.

ADA Barrier	Mitigation Strategy	Units	Quantity	Unit Cost	Total Cost (unloaded)	Total Cost (loaded)	Notes
Sidewalks							
Gap in Sidewalk	New 5' Sidewalk	LF	6,230	\$28.91	\$180,100	\$331,000	
Insufficient Passing Distance	Remove sidewalk panel & Add 5' Wide Panel for passing/turn around	Each Sidewalk Panel	4,050	\$289.06	\$1,170,800	\$2,151,900	Based on 4" thick, 5' W x 10' L at \$35/SY
Curb Ramps							
Missing Curb Ramp	New Curb Ramp	Each	301	\$2,107.54	\$634,400	\$1,166,000	Based on Curb Ramp Type CR-B, 6" thick.
Structurally Deficient Curb Ramp	Remove and Replace Curb Ramp	Each	403	\$2,107.54	\$849,400	\$1,561,200	Based on Curb Ramp Type CR-B, 6" thick.
Curb Ramp Missing Detectable Warning (not structurally deficient)	Add Detectable Warning (assumes 10 SF each)	Each	300	\$450.00	\$135,000	\$248,100	Based on 10 SF.
Obstacles							
Tree, Bush, and Shrub Branches Blocking Path	Trim Obstacle	Each	38	\$100.00	\$3,800	\$7,000	
Vegetation Blocking Path	Trim Obstacle	Each	47	\$100.00	\$4,700	\$8,600	
Utility Pole Blocking Path	Relocate Pole	Each	10	\$3,000.00	\$30,000	\$55,100	
Excessive Water Collecting on Pathway During Rain Events (ponding)	Regrade & Remove/Replace 20 LF	Each	60	\$578.12	\$34,700	\$63,800	Based on 4" thick, 5' W x 20' L at \$35/SY
Hazards							
Excessive Cross Slope on Sidewalk	Remove & Replace 10 LF of Sidewalk for Each	Each	99	\$289.06	\$28,700	\$52,700	Based on 4" thick, 5' W x 10' L at \$35/SY

Table 4: Detailed Cost Estimate for Inventoried Candidate Projects (Loaded)

ADA Barrier	Mitigation Strategy	Units	Quantity	Unit Cost	Total Cost (unloaded)	Total Cost (loaded)	Notes
Excessive Running Slope on Sidewalk	Remove & Replace 20 LF of Sidewalk for Each	Each	15	\$578.12	\$8,700	\$16,000	Based on 4" thick, 5' W x 20' L at \$35/SY
Drop Off	Install Handrail	Each	42	\$840.00	\$35,300	\$64,900	Based on Index 880 Steel Pipe Guiderail
Damages							
Heaving or Settlement of Sidewalk	Remove & Replace 10 LF of Sidewalk for Each	Each	198	\$289.06	\$57,300	\$105,300	Based on 4" thick, 5' W x 10' L at \$35/SY
Shattering of Sidewalk	Remove & Replace 10 LF of Sidewalk for Each	Each	78	\$289.06	\$22,600	\$41,500	Based on 4" thick, 5' W x 10' L at \$35/SY
Trip Edge	Grind Each Occurrence	Each	1,367	\$50.00	\$68,400	\$125,700	
	Total				\$3,263,900	\$5,998,800	
	Number of Miles of Sidewalk	MI	99				
	Total Cost per Mile of Sidewalk				\$33,000	\$60,600	

Notes:

The cost of each unit cost includes erosion & sediment control, clearing and grubbing, grading, any required curb and gutter replacement, and performance turf.

Costs are estimated using 2015 dollars and pricing.

Quantities are rounded to the nearest whole number (ex. 0.55 rounds up to 1)

Total Cost, loaded and unloaded, is rounded up to the nearest \$100.

Loaded costs include a percentage increase in cost for MOT (10%), Mobilization (10%), Contingency (20%), Engineering (15%), and CEI (10%). Unloaded costs do not include these additions. Unloaded costs are developed based on FDOT historical costs.

Costs do not include self-assessment data collection.

Candidate Project Assessment Type

A detailed review of the cost estimates for each of the corridor types showed that distinctions exist between projects on functionally classified corridors referred to as 'Corridors' and non-functionally classified areas referred to as 'Subdivision'. Table 5 shows that Subdivision ADA retrofit projects have a much wider range of cost. In both Corridor and Subdivision project planning it is important to understand that based on field conditions, project per mile cost can vary significantly. This variation in cost could be due to the increased number of sidewalks, intersections with curb ramps, and other pedestrian features contained in some corridors and subdivisions. Since the sample subdivision projects also range by more in length, intense areas of work may be offset in some cases, but not in others. The costs in Table 5 include loading factors (mobilization, MOT, etc.).

Project Type	Average Mitigation Cost Per Sidewalk Mile	Median Mitigation Cost Per Sidewalk Mile	High Mitigation Cost Per Sidewalk Mile	Low Mitigation Cost Per Sidewalk Mile	Range of Mitigation Cost
Corridor	\$47,500	\$53,500	\$95,100	\$4,500	\$90,600
Subdivision	\$61,900	\$58,900	\$174,100	\$9,800	\$164,300
Candidate Project Totals	\$60,500	\$58,600	\$174,100	\$4,500	\$169,600

Table 5: Typical ADA Retrofit Cost Estimates per Project Type (Loaded Costs)

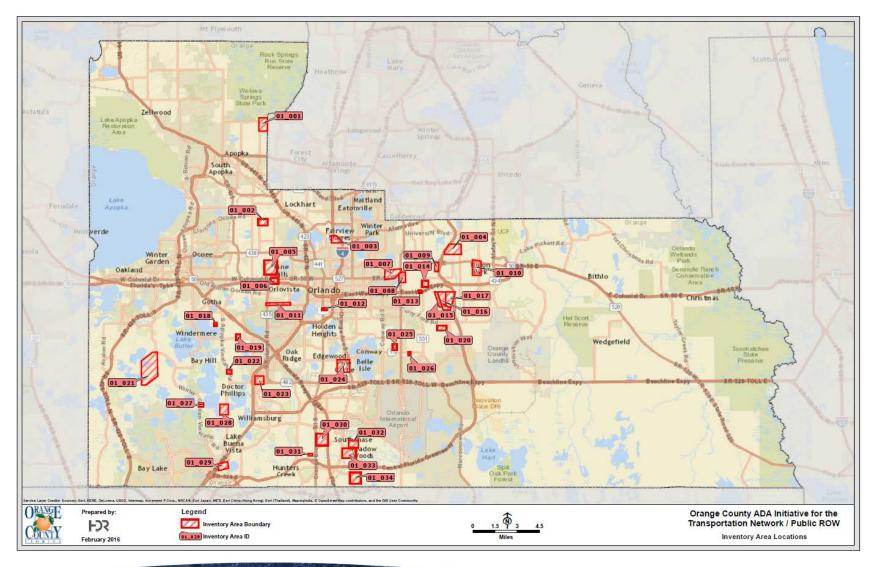
A map of the inventoried roadways is provided with estimated costs for each area in Table 6 and Figure 2.

Table 6: Preliminary ADA Retrofit Cost Estimates per Area Inventoried (Loaded)

Project ID	Project Type	Sidewalk Miles	Total Mitigation Cost		Mitigation Cost per Sidewalk Mile	
01_007	Corridor	1.902	\$	18,200	\$	9,600
01_009	Corridor	0.520	\$	27,800	\$	53,500
01_011	Corridor	2.922	\$	277,800	\$	95,100
01_021	Corridor	2.663	\$	12,000	\$	4,500
01_023	Corridor	1.569	\$	119,400	\$	76,100
	Corridor Total	9.576	\$	455,200	\$	47,500
01_001	Subdivision	4.405	\$	254,200	\$	57,700
01_002	Subdivision	5.751	\$	438,800	\$	76,300
01_003	Subdivision	1.575	\$	51,700	\$	32,800
01_004	Subdivision	6.812	\$	457,000	\$	67,100

Project ID	Project Type	Sidewalk Miles	Total			ation Cost per	
						walk Mile	
01_005	Subdivision	5.356	\$	241,700	\$	45,100	
01_006	Subdivision	0.557	\$	32,500	\$	58,400	
01_008	Subdivision	0.988	\$	47,400	\$	48,000	
01_010	Subdivision	2.691	\$	71,900	\$	26,700	
01_012	Subdivision	0.045	\$	7,200	\$	158,700	
01_013	Subdivision	0.175	\$	14,500	\$	82,800	
01_014	Subdivision	1.374	\$	79,100	\$	57,500	
01_015	Subdivision	0.958	\$	9,400	\$	9,800	
01_016	Subdivision	6.727	\$	341,000	\$	50,700	
01_017	Subdivision	10.573	\$	605,900	\$	57,300	
01_018	Subdivision	0.122	\$	21,300	\$	174,100	
01_019	Subdivision	0.997	\$	58,700	\$	58,900	
01_020	Subdivision	3.881	\$	441,400	\$	113,700	
01_022	Subdivision	0.397	\$	23,600	\$	59,500	
01_024	Subdivision	1.684	\$	131,700	\$	78,200	
01_025	Subdivision	1.637	\$	104,900	\$	64,000	
01_026	Subdivision	0.373	\$	19,700	\$	52,900	
01_027	Subdivision	0.263	\$	29,700	\$	112,800	
01_028	Subdivision	2.723	\$	119,400	\$	43,800	
01_029	Subdivision	0.945	\$	41,500	\$	43,900	
01_030	Subdivision	9.941	\$	592,100	\$	59,600	
01_031	Subdivision	1.826	\$	119,300	\$	65,400	
01_032	Subdivision	3.779	\$	243,900	\$	64,500	
01_033	Subdivision	8.011	\$	727,600	\$	90,800	
01_034	Subdivision	5.082	\$	223,300	\$	43,900	
	Subdivision Total	89.649	\$	5,550,400	\$	61,900	
	Generic Project Total	99.224	\$	6,005,600	\$	60,500	





2.3 Countywide ADA Project Prioritization

For the County as a whole, the project team identified system-wide characteristics for the prioritization of ADA improvements based on locations where they will see the greatest amount of anticipated use and therefore benefit to the public.

2.3.1 ADA Barrier Mitigation Prioritization

The ADA barrier mitigation prioritization methodology, as detailed in Table 7, facilitates the determination of priority areas for ADA barrier mitigation. The methodology accounts for types of land use and the proximity of these land uses to pedestrian facilities. The land uses identified and their associated weightings in parentheses include: schools (20%), parks and community centers (10%), shopping (5%), hospitals and retirement homes (5%), transit (15%), paratransit (15%), as well as the general residential population density (10%). For each land use, the proximity of the use to the mitigation site determines the points awarded from 0 to 100. The highest point areas are identified as having the greatest positive impact generated for the community by implementing ADA retrofit projects.

Category	Weighted % of Category	
Schools & Colleges		
1/8 mi of a school = 100 points		
1/4 mi of a school = 80 points		
1/2 mi of a school = 60 points	20%	
3/4 mi of a school = 40 points		
1 mi of a school = 20 points		
Parks/Cultural & Community Centers		
1/8 mi of a park/cultural center = 100 points		
1/4 mi of a park/cultural center = 80 points		
1/2 mi of a park/cultural center = 60 points	10%	
3/4 mi of a park/cultural center = 40 points		
1 mi of a park/cultural center = 20 points		
Shopping		
1/8 mi of Shopping = 100 points		
1/4 mi of Shopping = 70 points	5%	
1/2 mi of Shopping = 50 points	570	
3/4 mi of Shopping = 20 points		

Table 7: ADA Barrier Mitigation Prioritization Methodology Based on Segment Location

Category	Weighted % of Category				
Hospitals & Retirement Homes					
1/8 mi of Hospital/Retirement Home= 100 points					
1/4 mi of Hospital/Retirement Home = 70 points	5%				
1/2 mi of Hospital/Retirement Home = 50 points	5%				
3/4 mi of Hospital/Retirement Home = 20 points					
Transit					
1/4 mi of a Bus Stop with ridership > 100 = 100 points					
1/4 mi of a Bus Stop with ridership 50 -100 = 80 points					
1/4 mi of a Bus Stop with ridership 10-50 = 60 points	15%				
1/4 mi of a Bus Stop with ridership 5-10 = 40 points					
1/4 mi of a Bus Stop with ridership < 5 = 20 points					
ParaTransit					
Paratransit Density of Calls Very High = 100 points					
Paratransit Density of Calls High = 80 points					
Paratransit Density of Calls Medium = 60 points	15%				
Paratransit Density of Calls Low = 40 points					
Paratransit Density of Calls Very Low = 20 points					
Functionally Classified Streets					
Arterial = 100 points					
Collector = 80 points	20%				
Residential Collector = 60 points					
Residential Population Density (Pop. per Acre)					
Density > 30 = 100 points					
Density > 15-30 = 80 points					
Density > 5-15 = 60 points	10%				
Density 1-5 = 40 points					
Density < 1 = 20 points					
TOTAL	100%				

2.3.2 Prioritization Application on Candidate Projects

The land use and transportation context prioritization tool is demonstrated in Table 8 using the 34 candidate projects. Projects which received more points were ranked highest, regardless of price or length. These priority scores were derived from the ADA Transportation Network Inventory.

Rank	Inventory Area	Sidewalk Miles	Total Mitigation Cost Estimate	Mitigation Cost Estimate Per Sidewalk Mile	Prioritization Score
1	01_011	2.922	\$277,800	\$95,100	60.66
2	01_012	0.045	\$7,200	\$158,700	59.91
3	01_005	5.356	\$241,700	\$45,100	55.19
4	01_008	0.988	\$47,400	\$48,000	50.92
5	01_003	1.575	\$51,700	\$32,800	49.76
6	01_006	0.557	\$32,500	\$58,400	48.27
7	01_010	2.691	\$71,900	\$26,700	43.88
8	01_024	1.684	\$131,700	\$78,200	43.54
9	01_025	1.637	\$104,900	\$64,000	43.06
10	01_013	0.175	\$14,500	\$82,800	41.27
11	01_014	1.374	\$79,100	\$57,500	41.02
12	01_020	3.881	\$441,400	\$113,700	40.76
13	01_002	5.751	\$438,800	\$76,300	40.38
14	01_007	1.902	\$18,200	\$9,600	39.43
15	01_031	1.826	\$119,300	\$65,400	38.02
16	01_009	0.520	\$27,800	\$53,500	36.54
17	01_023	1.569	\$119,400	\$76,100	36.18
18	01_026	0.373	\$19,700	\$52,900	34.96
19	01_034	5.082	\$223,300	\$43,900	30.14
20	01_004	6.812	\$457,000	\$67,100	29.94
21	01_033	8.011	\$727,600	\$90,800	29.75
22	01_019	0.997	\$58,700	\$58,900	29.27
23	01_022	0.397	\$23,600	\$59,500	26.96
24	01_032	3.779	\$243,900	\$64,500	26.88
25	01_029	0.945	\$41,500	\$43,900	26.18
26	01_015	0.958	\$9,400	\$9,800	25.40
27	01_016	6.727	\$341,000	\$50,700	24.16
28	01_017	10.573	\$605,900	\$57,300	24.07
29	01_030	9.941	\$592,100	\$59,600	22.27
30	01_001	4.405	\$254,200	\$57,700	19.48
31	01_018	0.122	\$21,300	\$174,100	17.06
32	01_028	2.723	\$119,400	\$43,800	16.27
33	01_027	0.263	\$29,700	\$112,800	16.11
34	01_021	2.663	\$12,000	\$4,500	10.84

Table 8: Prioritization List Using Candidate Projects

2.3.3 Prioritization Areas

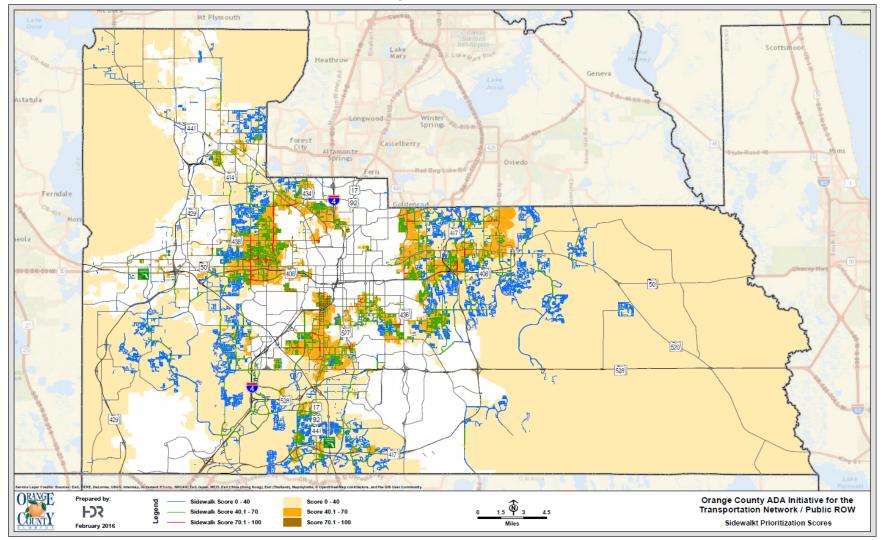
The prioritization methodology was applied to all areas in unincorporated Orange County to identify areas that would obtain the greatest positive impacts from ADA retrofit projects. As shown in Figure 3: ADA Prioritization Areas, the priority areas are identified in the darker colors. Sidewalk segments with higher prioritization areas are also shown in different colors as indicated in the figure's legend. Table 9, below, summarizes the prioritization of sidewalks and intersections with traffic signals throughout unincorporated Orange County. The traffic signal locations represent signals that are owned and operated by Orange County Public Works. Therefore signals on state roadways are not included.

Score	Sidewalks (mi)	Signals (count)
70-100	49.4	33
40-69	1,007.3	242
0-39	1,896.5	70
Grand Total	2,953.2	345

Table 9: Sidewalk and Signal Prioritization Summary

ADA barriers identified in high scoring priority areas, when not included in other projects/programs, are candidates to be mitigated using stand-alone ADA retrofit projects, as further discussed in Section 3.0 Implementation.

Figure 3: ADA Prioritization Areas



3.0 Implementation Schedule and Funding for ADA Barriers

The ADA Infrastructure Retrofit Implementation Plan is described in this section, and details the process of implementing ADA improvements throughout the County efficiently, in regards to time and fiscal resources. The Orange County ADA Coordinator is responsible for the implementation of the ADA Transition Plan, and their contact information is included as an addendum to this report. The annual process of implementing ADA retrofit projects is described in the info-graphic on page 58. As the Orange County Capital Improvement Program (CIP) is updated each year, updates to the ADA infrastructure needs, cost estimates, funding, completed projects, and proposed projects to be completed will also be updated and reported. This will be coordinated with the monitoring efforts of the ADA Transition Plan.

3.1 Schedule and Incorporation into Capital Improvement Program

As the County develops candidate projects for the CIP, such as resurfacing, new sidewalks, and sidewalk repairs, traffic signal maintenance, and corridor improvements, the ADA infrastructure needs of individual projects will need to be assessed following the ADA self assessment procedures developed as a part of this plan. Candidate resurfacing projects along with identified ADA retrofit project areas will be reviewed to identify the specific ADA infrastructure needs of each individual project. The individual results will be incorporated into an updated countywide ADA needs estimate, which will include the further refinement of countywide needs forecasts and estimates. As a part of the assessment, improvements that are deemed technically infeasible or lacking the required right-of-way will be documented and tracked.

3.1.1 Orange County Capital Improvement Program

The CIP provides the County with a systematic and transparent process of planning, budgeting, and programming projects to meet the infrastructure needs of the County. The CIP is developed as a five-year program that enables the County to allocate fiscal resources to address capital needs.

Orange County Public Development Capital Projects

Project descriptions in the CIP published in the FY15/16 Adopted Budget include information related to the primary purpose of the project. For example, the project title "Street Lights-County Rds" reports the primary purpose of the CIP project, but it does not explicitly detail the project that will be performed. Orange County will publish short project descriptions for each project in the CIP, and for applicable projects, include a statement that includes a component focusing on providing ADA compliance. For example, a roadway milling and resurfacing project description could read:

"Mississippi Woods Lane microsurfacing from off of Landstar Blvd. to Iowa Woods Circle. The project will also bring current ADA curb ramps up to federal and FDOT standards in accordance with Orange County's ADA Transition Plan."

Additional examples of ADA commitment statements are included in the sub-section on page 32. The presence of these statements in project descriptions will assist the County's efforts to ensure that ADA features are reviewed and implemented during initial construction in the public rights-of-way.

As a temporary alternative until the CIP format is updated to include these project descriptions, Orange County will identify projects with ADA components in the CIP using footnotes. Projects containing ADA components can be identified using an asterisk (*), or another identifying character, with the following text in the page footer:

Project contains ADA components, as identified in the ADA Transition Plan for the Public Rights-of-Way.

This footnote identification of projects with ADA components will assist the County with reiterating the commitment to provide accessible infrastructure to all until the project descriptions, as previously described, are added to the CIP.

Orange County Private Development Capital Projects

Private development projects may include improvements in existing public rights-of-way, such as sidewalks around the building or may include the main entrance to the facility. These areas are typically either dedicated rights-of-way or private areas that the public will access. Developers also often develop new roadway corridors that will be accepted by the County into the public rights-of-way system and they must meet Title II Public Services requirements, while privately owned/operated/maintained areas must meet Title III Public Accommodations requirements.

Developers must go through a Development Review process with Orange County's Development Engineering Division of Public Works for review of:

- Comprehensive Planning and Review
- Zoning
- Site Plan Review
- ADA Compliance Review
- Permitting
- Environmental Planning
- Special Area Planning
- Project Concurrency

Chapter 3

The current Development Review Committee (DRC) members include, but are not limited to:

- John Smogor (DRC Chair)
- Joe Kunkel (Public Works Department)
- Diana Almodovar (Public Works Department)
- Alberto Vargas (Planning Division)
- Lindy Wolfe (Utilities Division)
- Andres Salcedo (Utilities Division)
- Carol Hossfield (Zoning Division)
- Art Interiano (Zoning Division)

The DRC is also regularly assisted by legal advisors from the County Attorney's Office, and representatives from the Commissioner's Office. Additional Orange County staff may be present at DRC meetings upon request by the DRC members.

DRC members and requested Orange County staff review each project application submitted in regards to ADA. Most of the detailed ADA reviews take place at the site permit phase where plans examiners will review for ADA details. During the construction phase, engineering and building inspectors will also review to ensure that the installations meet the ADA details in the established standards. The County utilizes Florida Department of Transportation design standards related to curb ramps and sidewalks. The Orange County Code also includes language to guide applicants in the design process to comply with ADA standards.

Review of Other Florida County CIP Practices

Table 10 is a visual summary of the CIP guidelines and practices in Orange and other Florida Counties in order to identify future potential enhancements to the adopted guidelines and practices.

Table 10: Summary of Identified Practices for Orange and Other Florida Counties

	Orange County	Lake County	Seminole County	Sarasota County
CIP Guidelines and Processes				
Detailed CIP project descriptions which reiterate a focus on providing ADA compliance		х	Х	Х
Dedicated ADA retrofit projects	Х	Х		х
ADA Transition Plan Developed	IP	Х	IP	х
Inspection and Maintenance Program developed for ADA features	IP	х	х	х
Private Development Capital Projects				
Development Review Commission (DRC) or similar review committee	х	х	Х	х
Explicitly defined ADA compliance review phase				

IP – In Progress X – Identified and in-use by the County

Sample CIP Language

Language in the Other Florida County CIP's includes references to ADA compliance for relevant projects. The language incorporated into project descriptions in the CIP includes:

Park Renovations

"The playground equipment will be designed and installed by a professional company to include age specific units, creative and challenging heights, slides, colors, and will provide ADA accessibility including the installation of safety surfacing below components in accordance with Consumer Product Safety Guidelines."

"Sidewalks are necessary for ADA access."

"...ADA access for this type of equipment is desirable."

Trail Improvements

"Introduction of new ADA sidewalks for accessibility."

Curb Ramp Retrofit(s)

"...bring current ADA curb ramps up to federal and FDOT standards in accordance with Seminole County's ADA Transition Plan."

Chapter 3

Sidewalk Reconstruction

"...reconstruct sidewalks...which will include upgrades to ADA features such as ramps, handrail and sidewalk cross slopes."

Facilities Renovations, Upgrades, and Replacements

"This program provides for the systematic repair, renovation, and replacement of key operating systems, equipment, and components of County operated facilities. Individual projects will include items such as...ADA upgrades and remodels..."

Mobility Infrastructure Rehabilitation and Renovations

"...renovate or upgrade infrastructure to meet ADA standards and provide guard rail upgrades/renovations to meet new DOT code standards."

"...enhance ADA access to the facility."

Minor Bus Stop Program

"...evaluate which bus stops require improvement based on the following criteria...degree of noncompliance with ADA standards..."

3.1.2 Relationship to Resurfacing Projects

As documented in Table 3 in Section 2.1.4, it is estimated that there are approximately \$188 million in ADA barriers on a countywide basis using 2015 costs and no adjustments for the time value of money. Orange County currently spends approximately \$21 million per year on roadway resurfacing projects. This typically results in the resurfacing of approximately 200 centerline miles of roadways per year out of the 2,800 miles of centerline miles that are maintained by Orange County. This schedule provides that on average roadways will be resurfaced on a 15 year cycle (some roadways have multiple lanes, resulting in it taking slightly longer to complete than the anticipated 14 years). Based on a goal of completing all of the ADA barriers (sidewalk related) in the same schedule as the resurfacing projects, approximately \$12.5 million per year for 15 years would be needed. As discussed previously, the plan will continue to be refined as additional inventories are completed along with an assessment of the Safe Harbor Provision in addition to updated cost information.

3.1.3 ADA Retrofit Project Distribution

The County will be completing ADA improvements through the completion of projects that can be categorized into six project types. The six categories and brief descriptions of how they will include ADA improvements to rights-of-way infrastructure are as follows:

- Resurfacing Program Corridors that are candidates for resurfacing projects in the CIP will be reviewed with an ADA assessment completed for the existing pedestrian infrastructure in the right-of-way of each individual project. The result of the assessment will be a documented list of ADA deficiencies along the candidate resurfacing corridors. The deficiencies will then be addressed as either a part of the resurfacing project or through a companion project or program that will complete or implement the identified improvements.
- New Sidewalk Program As new sidewalk locations are identified and specific sidewalk projects are developed, existing sidewalks and ramps immediately adjacent to the new sidewalk locations should be assessed by the staff managing the completion of the new sidewalks. Staff should identify ADA deficiencies in these locations and improvements to address the ADA deficiencies should be included as a part of the new sidewalk projects. The deficiencies addressed should be reported to the ADA core team.
- Sidewalk Maintenance Program As the County identifies locations of damaged sidewalks and develops projects to address them, County staff should also identify ADA deficiencies within the limits of the areas of sidewalk maintenance projects and incorporate improvements to address the deficiencies as well. The completed improvements should also be reported to the ADA core team.
- Traffic Signal Maintenance Program The County should standardize the timeframe of inspecting County maintained traffic signals. The inspections should identify signal components that do not meet current ADA standards. Individual traffic signal improvement projects to address the traffic signal ADA deficiencies could be completed on a regular basis and reported to the ADA core team.
- Corridor Improvement Projects A primary purpose of the CIP process is to assist in the coordination of corridor reconstruction or widening projects with maintenance improvement projects to avoid rework and ensure efficient use of resources. This is also true for ADA improvements as specific ADA improvements would not be planned or implemented on a corridor that is scheduled for reconstruction.
- ADA Retrofit Projects The prioritization process has resulted in the identified areas where ADA improvements will be most beneficial based on land use and other roadway characteristics. Since ADA improvements will make the greatest impact in these areas, specific ADA retrofit projects should be developed in areas with the highest prioritization scores rather than waiting for other improvement programs to occur in these areas.

Distributing the ADA improvements as described in the previous section allows for individual ADA barriers to be mitigated in a timely and fiscally responsible manner, while still providing flexibility to Orange County to address high priority areas and specific retrofit projects as needed.

Once each ADA retrofit project has been distributed amongst the programs/projects, each program/project is then responsible for identifying the project timeframe to completion and developing a self-assessment process/schedule to ensure that the retrofit project will comply with current ADA standards. Each program/project will then document the funding source(s) for the retrofit improvements. Upon completion of these items, the project can be formally adopted into the Orange County CIP.

3.2 Ongoing Monitoring and Update of the ADA Transition Plan

The organizational and administrative structure developed for the ongoing monitoring and update of the ADA Transition Plan is outlined below in four steps:

- 1. Establish an ADA Core Team for the implementation, coordination, and continuous monitoring of the ADA Transition Plan for the Public Rights-of-Way.
- 2. Establish a formal review procedure for existing County documents, including the County Code, contract documents, and checklists.
- 3. Establish organizational strategies to ensure that ADA processes are expedient and streamlined.
- 4. Establish an ADA Compliance Monitoring Procedure for the continued review of existing infrastructure, update of the ADA Transportation Network Inventory, review of public and private capital development projects, and update of the ADA Transition Plan according to annual progress.

The primary goals of each process, including responsibilities, timelines for implementation, and deliverables, are described in detail in the remainder of this section.

3.2.1 Establish ADA Core Team

The goal of the ADA Core Team, hereafter referred to as the Team, is to implement, coordinate, and monitor the Orange County ADA Transition Plan for the Public Rights-of-Way. The responsibilities of the team include:

- Scheduling ADA improvements
- Monitoring ADA improvements
- Engaging public involvement

- Addressing requests from the community
- Developing quarterly Project Status Memos
- Securing funding sources for stand-alone ADA retrofit projects
- Reviewing, revising, and approving suggested language updates in the County Code, contract documents, and checklists
- Reviewing, revising, and approving suggested updates to the Standard Operating Procedure for ADA improvements
- Ensuring accessibility compliance of projects during planning, construction, and closeout

Composition of the ADA Core Team

The ADA Core Team will be comprised of at least one person to represent each of the different Public Works Divisions, Transportation Planning (which is a Division under the Community, Environmental, and Development Services Department, or CEDS), and the Public Works ADA Coordinator, as shown in Figure 4.

Public Works ADA Coordinator (ADA Core Team Chair) Public Works Development **Engineering Division** Public Works Fiscal & Operational Public Works Highway Construction Division **ADA Core** Public Works Engineering Division Team Public Works Roads & Drainage Division Public Works Stormwater **Management Division** Public Works Traffic Engineering Division **CEDS Transportation Planning**

Figure 4: ADA Core Team Department/Division Representation

Project Status Meetings

The ADA Core Team, chaired by the Public Works ADA Coordinator, shall meet on a quarterly basis to discuss the primary responsibility items listed in the previous subsection. Each Team member shall be responsible for presenting suggested revisions to the Orange County Code, contract documents, checklists, other documents, and/or procedures deemed necessary for that member's respective Division/Department. The Team member presenting will also develop the final (approved) changes for submission to the ADA Coordinator for adoption into the appropriate documents/procedure.

The following action items shall be completed one week from each meeting date:

- A project status memorandum (memo) that summarizes the details of the projects discussed as of the date of the memo's development (additional details are located in the next subsection)
- A technical memo detailing the approved revisions to the County Code, contract documents, checklists, other documents, and/or procedures
- ADA Core Team meeting minutes to be published on the Orange County website

The Chair will organize and coordinate the Team meetings, and serve as the primary developer for the ADA Project Status Memos and meeting minutes. A standard meeting agenda is shown in Table 11, and can be modified as necessary by the Team.

Table 11: Standard ADA Core Team Meeting Agenda

Proposed Meeting Action Items

- Address grievance procedure requests
- Discuss upcoming, current/on-going, and completed ADA projects
- Discuss public involvement events (planned or the results)
- Review Transportation Network Inventory and Data Collection Procedures
- Review suggested code, contract document, checklist, or procedure updates
- Review results of ADA audits of Development Engineering
- Reports from the Divisions
 - Public Works Development Engineering Division
 - o Public Works Engineering Division
 - o Public Works Fiscal & Operational Support Division
 - o Public Works Stormwater Management Division
 - Public Works Highway Construction Division
 - Public Works Roads & Drainage Division
 - Public Works Traffic Engineering Division
 - o CEDS Transportation Planning
 - Other (as needed)

Project Status Memoranda

The Project Status Memoranda (memos) shall summarize the status of ADA Transition Plan projects at the time of the memo's development. Each memo will be used by the Orange County Public Works ADA Coordinator to document the progress made within the past quarter to fulfill the ADA Transition Plan. The memos will also be used to update the ADA Transportation Network Inventory in Geographic Information Systems (GIS) (process described in detail in the ADA Compliance Monitoring Procedure section on page 38). Each project described in the Project Status Memo should include, at a minimum, the following information:

- Project title
- Description of ADA features constructed/retrofit

- Location of ADA features constructed/retrofit
- Status (current, upcoming, or completed)
- Special notes or remarks about the project development
 - Project funding status (anticipated or procured) and funding source
 - Anticipated dates of project start and completion
 - Project initiated by (future development application, ADA Transition Plan retrofit, grievance procedure request, etc.)

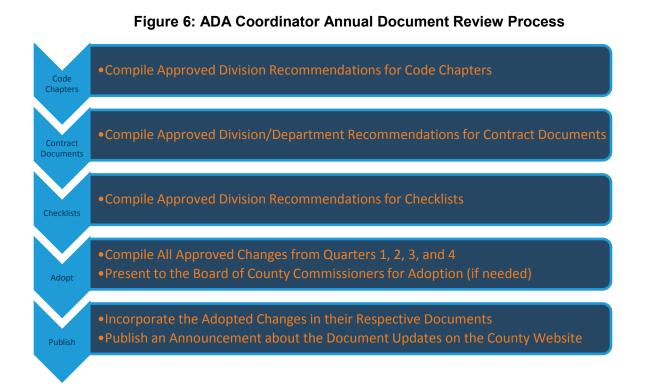
3.2.2 Code Chapters, Contract Documents, and Checklists

Each ADA Core Team representative shall coordinate with their respective department/division to review the Orange County Code Chapters, contract documents, specifications and details pertaining to their department/division on an annual basis. The proposed changes will be presented by the Team member representative at the specified Team meeting for final review and/or revisions (process shown in Figure 5).

Figure 5: ADA Core Team Member Document Review Process

Coordinate with Department/Division to eview County documents Compile suggested changes for all documents. Propose suggested language to update each document. Present proposed updates to the ADA Core Team

Once the final recommendations are approved by the ADA Core Team, the Public Works ADA Coordinator will compile all of the recommended changes presented throughout the year, and work with the Public Works Director to annually present the compilation to the Board of County Commissioners for adoption. Upon approval of the final documents, the changes will be incorporated into their respective documents and an announcement about the changes will be posted on the County's website (process shown in Figure 6).



3.2.3 Organizational Strategies

With the implementation of the ADA Transition Plan, the Orange County Public Works Director, Orange County Public Works Managers, and Public Works ADA Coordinator are responsible for ensuring that the County is making on-going efforts towards ADA Compliance. The ADA Coordinator shall establish responsibilities for Orange County Public Works staff in order to coordinate and align the efforts of the Public Works Divisions to implement and maintain the ADA Transition Plan.

The organizational strategies for consideration are the following:

Capital Improvement Program

The ADA Coordinator will coordinate with all Public Works Division Mangers to incorporate ADA improvements into the Orange County Capital Improvement Program, ideally incorporating the improvements into planned maintenance, remediation projects and future projects to provide for efficiency and to reduce the need for additional funding. The ADA Coordinator will also coordinate with the CIP to implement the ADA project prioritization established within Section 2.3 Countywide ADA Project Prioritization on page 21 and complete specific ADA retrofit projects.

Project Monitoring

Monitoring of an ADA project throughout the conceptual planning and construction document review shall be coordinated with the Public Works Divisions in charge of conducting the project scope review, project plan review and construction engineering inspections (CEI), and final construction compliance review, respectively. The results of the reviews/inspections shall be communicated in writing to the ADA Core Team.

Department/Division Coordination

The ADA Coordinator and ADA Core Team will maintain open communications with other Orange County Departments/Divisions to ensure the maintenance of ADA features in the public rights-of-way and to assist in efforts to update and monitor the ADA Transition Plan.

Disseminate Public Information

The ADA Coordinator will monitor the ADA Transition Plan on a quarterly basis, and update the ADA Transition Plan on an annual basis. The ADA Transition Plan shall be published on the Orange County website, along with ADA Core Team Project Status Memorandums (previously described in Section 3.2.1 Establish ADA Core Team on page 32) which serve as quarterly monitoring reports.

Grievance Procedure

The ADA Coordinator will monitor the established grievance procedure (described in Section 4.4 Grievance Procedure on page 69) to resolve requests/complaints from the public, in addition to monitoring the procedure to address large-scale projects. If a requested project has a greater scope and cost, and planning is necessary, the request could be incorporated into future capital improvement projects.

3.2.4 ADA Compliance Monitoring Procedure

The ADA Core Team, introduced in Section 3.2.1 Establish ADA Core Team, is responsible for assisting the Public Works ADA Coordinator in monitoring and scheduling ADA projects and ensuring that progress is made towards completing the ADA Transition Plan. This will be accomplished through the use of the following procedures for reviewing the:

- Orange County Public Works ADA Transition Plan for the Public Rights-of-Way
- Orange County ADA Transportation Network Inventory
- Accessibility Compliance Planning Review
- Certified Engineering Inspections

ADA Transition Plan Monitoring

The Orange County ADA Transition Plan for the Public Rights-of-Way shall be reviewed annually and updated, as necessary, by the ADA Core Team. The purpose of the annual update is to:

- Identify ADA projects for budgeting and alignment with identified capital improvement projects
- Document progress towards mitigating ADA barriers for on-going projects
- Document the completion of ADA barrier mitigation as projects are closed-out

ADA Project Status Memos developed by the ADA Core Team throughout the year and the annual data collection efforts to expand the ADA Transportation Network Inventory (described in the next subsection) will assist with the updates needed to maintain the ADA Transition Plan.

After the ADA Transition Plan has been updated by the ADA Core Team, it must be published electronically on the Orange County Website, with additional formats (hard-copies, large fonts, different languages, etc.) made available upon request. Electronic versions of the ADA Transition Plan shall comply with ADA Section 508 standards (http://www.section508.gov/content/learn/standards).

ADA Transportation Network Inventory

The Orange County ADA Transportation Network Inventory is updated annually by the ADA Core Team to reflect:

- Completed mitigation of ADA barriers
- On-going efforts to mitigate identified ADA barriers
- ADA projects identified in the ADA Project Status Memos within the past year
- New ADA features constructed as part of public and private development within the past year

Data Collection Procedures

The ADA Transportation Network Inventory will be expanded on an annual basis until all roadways within the County are included in the network inventory. Data collection will be performed on roadways with planned milling and resurfacing improvements in order to align the mitigation of ADA barriers, if present, with the planned improvement projects on the corridor, and in areas identified as ADA priority areas.

The information to be collected for future inventory expansions is detailed in Section 2.1 ADA Sidewalk Sampling and Field Assessment Methodology to maintain a consistent method of data collection.

Accessibility Compliance Design Review and Construction Inspection

Design documents and construction improvements to the public rights-of-way shall undergo reviews and inspections that include a focus on addressing ADA. There are two main types of improvements being completed to the public rights-of-way.

- Private Development Plans/Construction These are plans completed by engineers working for the private development community. The construction is typically completed by a private contractor who is working for a developer. The improvements address either existing public rights-of-way or areas that will be future public rights-of-way.
- Public Infrastructure Plans/Construction These are plans designed and constructed by Orange County or another government agency such as the Florida Department of Transportation, the Central Florida Expressway Authority, or a local municipality. The design can be completed by engineering consultants and the construction can be completed by a private contractor, but the client is the public agency.

For both Private Development Plans/Construction and Public Infrastructure Plans/Construction, a design exception process should be utilized if/when accessibility is technically or structurally infeasible. The Private and Public developments must coordinate closely with the Orange County Public Works ADA Coordinator to determine appropriate methods and strategies for the development in these scenarios.

Content of ADA Compliance Design Reviews and Inspections

All accessibility compliance reviews and inspections should follow the ADA Compliance Checklists, and include the following elements in the review:

- Primary function alteration project requirement
- Scope of work review
- Sidewalks
- Curb ramps
- Crosswalks
- Accessible pedestrian signals
- Signage
- Public transportation bus stops
- Streetscape features (benches, vending machines, third party vendors)
- Railroad crossings
- Other elements as needed

Private Development Plan Reviews and Construction Inspections

The Development Engineering Division takes the lead on the design review and construction inspection for projects completed by private development. The plan reviewers and inspectors within Development Engineering should include an Accessibility Inspector/Plans Examiner Certified by International Code Council. The ADA Coordinator shall provide technical assistance to the reviewers and inspectors and complete quarterly audits of reviews and inspections to ensure that reviewers and inspectors are using ADA checklists and properly commenting on ADA features.

Each reviewer/inspector in Development Engineering shall have three projects audited on a quarterly basis by the ADA Coordinator or a member of the ADA Core Team. The results of the audits shall be shared with the employee and their supervisor and used as a basis for improvement and learning. Records of the audits shall be maintained by the ADA Coordinator and cumulative results of the audits shall be shared at the quarterly ADA Core Team meetings.

Public Infrastructure Plan Reviews and Construction Engineering Inspections

The Transportation Planning Division and the Engineering Division are responsible for the programming and tracking of public infrastructure projects completed by the County and other agencies within the County's jurisdiction. Transportation Planning serves an important role in intergovernmental coordination of programs and projects. The Engineering Division serves an important role in the overall management of infrastructure improvements in the County Public-Rights-of-Way.

Plan Reviews of Infrastructure Projects Completed by Other Agencies

Orange County shall designate one staff member to serve as the lead coordinator to other agencies completing public infrastructure projects. This staff member will distribute the plans to each member (or designee) of the ADA Core Team. The reviewers shall complete reviews for their technical discipline areas including a review of ADA features. Written comments and/or marked up plans shall be provided back to the lead review coordinator who shall provide the comments to the responsible agency. The lead review coordinator for other agency reviews shall also provide a copy to the ADA Coordinator and the summary results of the reviews shall be discussed at the quarterly ADA Core Team meetings. The typical comment/resolution process should be followed for the review of these projects with issues being escalated to Public Works leadership as necessary.

Since Orange County's role in these projects is related to coordination and not implementation, the County does not have a formal inspection role, with the exception of items to be maintained by Orange County. An example of this category is the traffic signal systems which are maintained by Orange County even on state roadways. In this

situation, County signal staff shall complete inspections of this equipment and ensure that the installation meets ADA standards.

Plan Reviews of Infrastructure Projects Completed by Orange County Public Works

The Engineering Division is primarily responsible for the production of plans for Orange County design projects. The ADA Coordinator shall receive plans for each phase review of these projects (i.e., 30%, 60%, 90% and 100%). The ADA Coordinator or their designee shall complete a review of the ADA features following FDOT Design Standards, the compliance checklists, and the sample curb ramp survey form and procedures. The ADA Coordinator shall work with each individual project manager to make sure their comments are addressed and incorporated. An overview of which projects were reviewed and the outcomes will be discussed at the quarterly ADA Team Meeting.

Construction Engineering Inspection (CEI) of Infrastructure Projects Completed by Orange County Public Works

The Highway Construction Division is primarily responsible for the management and oversight of most public rights-of-way projects completed by the County. The County establishes a team of staff that complete inspections and oversight of the work completed by the selected contractors. The Highway Construction Division staff managing the projects shall be responsible for ensuring compliance of the installed improvements with established ADA Standards and Specifications (as called for in the project plans and specifications). The inspections and elements being reviewed shall be based on the established County compliance checklists.

The ADA Coordinator shall provide technical assistance and support to the Highway Construction Division staff as it relates to ADA. The ADA Coordinator or ADA Core Team Designee shall also complete two audits of each major project (projects valued at over \$500,000) at approximately 60% and 90% of the project's completion and closeout. The ADA Coordinator shall work with each individual construction manager to make sure their comments are addressed and incorporated. An overview of which projects were reviewed and the outcomes shall be discussed at the quarterly ADA Team Meeting.

3.3 Funding Scenarios

Based on the estimates determined on a countywide basis and discussed in Section 2.2.2, approximately \$188 million in 2015 dollars will be needed to mitigate ADA barriers on County Roadways. This also assumes that all new roadways being built after the completion of this plan will meet ADA requirements and will not need to be addressed prior to the current infrastructure being developed. As the ADA transition plan is monitored and updated annually, infrastructure assessments and estimates will need to be refined to take into account the maintenance needs of the infrastructure and any revisions to adopted ADA standards. An ADA transition plan is

not expected to predict all aspects of future changes. Rather it is expected to establish a process for ongoing monitoring, outreach and improvement of ADA infrastructure.

Based on the large estimated cost of ADA barrier mitigation, a funding assessment was performed to identify potential funding sources to assist with mitigating ADA barriers.

3.3.1 Orange County Funding Processes and Funding Sources

Orange County Public Works has multiple sources of funding for capital improvement projects. A few of the funding sources for the Orange County 2015 CIP are listed below:

- Gas Tax Revenues
 - Local Option Gas Tax
 - Constitutional Gas Tax
- Property Taxes
- Impact Fees
- Ad Valorem Taxes dedicated to infrastructure needs (for stormwater management projects and some roadway projects)
- Transportation Trust Fund
- Sales Tax Trust Fund
- Red Light Camera program
- General Fund

Funding dedicated to ADA projects in the public rights-of-way comes from the Transportation Trust Fund and partial funding is derived from the Red Light Camera Program. Table 12 summarizes a comparison of Orange County CIP funds, the percentage of funds dedicated to transportation projects, and the percent of funds dedicated to ADA projects, as adopted in 2014-2015 (FY14/15). During FY14/15, Orange County budgeted \$1,200,000 to retrofit existing infrastructure to meet current ADA requirements.

Table 12: Orange County CIP Funding in FY 14/15

CIP Funds	Fund	C	CIP Funding (USD)	Percent CIP Funding	Transportation Project Funding (USD)		Percent Transportation Project Funding	ADA Project Funding	Percent CIP Funding for ADA Projects
Gas Tax Revenues									
Local Option Gas Tax	1004	\$	30,785,354	8.78%	\$	30,785,354	8.78%		
Constitutional Gas Tax	1003	\$	11,669,746	3.33%	\$	11,669,746	3.33%		
Impact Fees									
Transportation Impact Fee Area 1	1031	\$	1,326,800	0.38%	\$	1,326,800	0.38%		
Transportation Impact Fee Area 2	1032	\$	1,850,100	0.53%	\$	1,850,100	0.53%		
Transportation Impact Fee Area 3	1033	\$	2,060,000	0.59%	\$	2,060,000	0.59%		
Transportation Impact Fee Area 4	1034	\$	10,130,000	2.89%	\$	10,130,000	2.89%		
Parks & Recreation Impact Fees	1265	\$	5,010,000	1.43%					
Transportation Trust Fund	1002	\$	2,600,000	0.74%	\$	2,600,000	0.74%	\$ 1,200,000	0.34%
Red Light Camera Program	*	*			*			*	
Miscellaneous Construction Projects	1023	\$	31,927,407	9.11%					
Parks Fund	1050	\$	4,190,000	1.20%					
International Drive CRA	1246	\$	34,850,100	9.94%					
OC Fire Protection & EMS/MSTU	1009	\$	1,265,000	0.36%					
Law Enforce Educ-Corrections	1015	\$	155,000	0.04%					
Conservation Trust Fund	1026	\$	870,000	0.25%					
Law Enforcement Impact Fees	1035	\$	250,000	0.07%					
Fire Impact Fees	1046	\$	3,200,000	0.91%					
911 Fee	1054	\$	12,184,000	3.48%					
Retention Ponds-Grp 232	1142	\$	1,800,000	0.51%					
Court Facilities	1248	\$	650,000	0.19%					
Conservation Trust-CC Mitigation	1263	\$	28,490	0.01%					
Econ River Drainage Basin	1274	\$	14,932	0.00%					
Reams Road	1304	\$	149,383	0.04%	\$	149,383	0.04%		

CIP Funds	Fund	CIP Funding (USD)	Percent CIP Funding	Project Funding		Percent Transportation Project Funding	ADA Project Funding	Percent CIP Funding for ADA Projects
Ficquette Road	1307	\$ 3,644	0.00%	\$	3,644	0.00%		
Boggy Creek Road	1321	\$ 494,341	0.14%	\$	494,341	0.14%		
Lakeside Village Adequate Public Facilities	1450	\$ 400,000	0.11%					
Solid Waste System	4410	\$ 13,162,186	3.76%					
Water Utilities System	4420	\$ 100,205,571	28.59%					
Convention Center	4430	\$ 50,214,368	14.33%					
Fleet Management Department	5530	\$ 559,604	0.16%					
East Water Rec SRF	5848	\$ 28,469,000	8.12%					
OBT CRA Trust Fund	1025	\$ 0	0.00%	\$	0	0.00%		
Avalon-Alafaya Trail Road Network Agr	1036	\$ 0	0.00%					
LAP FT Christmas Road	7505	\$ 0	0.00%	\$	0	0.00%		
LAP Shingle Creek Trail	7506	\$ 0	0.00%	\$	0	0.00%		
LAP Pine Hill Multi Use Trail	7507	\$ 0	0.00%	\$	0	0.00%		
OC Advance Traffic Management System	7513	\$ 0	0.00%	\$	0	0.00%		
OC Advance Traffic Management System	7514	\$ 0	0.00%	\$	0	0.00%		
Community Development Block Grant	7702	\$ 0	0.00%	\$	0	0.00%		
I-Drive Forcemain SRF	8199	\$ 0	0.00%	\$	0	0.00%		
Cigp Transportation Improvements	8752	\$ 0	0.00%	\$	0	0.00%		
Trip-Innovation Way	8756	\$ 0	0.00%	\$	0	0.00%		
Next Generation 911 Phone System	8809	\$ 0	0.00%					
E911 Phone System	8810	\$ 0	0.00%					
Total	-	\$ 350,475,026	100.00%	\$	61,069,368	17.42%	\$ 1,200,000	0.34%

*Funding from the Red Light Camera Program is allocated appropriately as it is received.

3.3.2 Comparable Florida County Funding Processes & Funding Sources

A comparison of ADA project funding practices was performed with three other Florida counties to identify funding practices for capital improvement projects in 2015, each County's development/completion of an ADA Transition Plan in 2015, and the levels of ADA project funding. Summaries of these practices are shown in Table 13 and Table 14. The counties selected were ones that had recently worked on their respective ADA transition plans.

	Orange County	Lake County	Seminole County	Sarasota County
Funding Sources for Capital Improv	ement Projects			
Gas Tax Revenues	Х			
Property Taxes	Х			
Impact Fees	Х	Х		
Ad Valorem Taxes	Х			
Transportation Trust Fund	х	Х	Х	Х
Red Light Camera Program	Х			
General Fund	Х	Х	Х	Х
Federal/State Grants		Х	Х	
MSTU – Road Services		Х		
Infrastructure Sales Tax		Х	Х	
Tourist Development Fund/ 3%			х	
Тах			^	
Special Revenue Fund				Х
Capital Project Funds				Х
Funding Sources for ADA Projects				
Transportation Trust Fund	Х			
Red Light Camera Program	Х			
Infrastructure Sales Tax		Х	Х	
MSTU - Parks Services		Х		
General Fund		Х		Х
ADA Transition Plan Development				
County-Wide	IP		IP	IP
Bus Stop and Shelter Placement Sites		Х		
Recreational Public Parks		Х		

Table 13: Summary of County Practices - 2015

Key:

• *X* represents that the funding source is in use or that the ADA Transition Plan is complete.

• *IP represents that the ADA Transition Plan is under development or in progress.*

	Budgeted CIP Funding	ADA Project Funding	Percent of CIP Funding for ADA Projects
Orange County			
Fiscal Year 14/15	\$350,475,026.00	\$1,200,000.00	0.34%
Lake County			
Fiscal Year 11/12	\$62,329,111.00	\$93,045.00	0.1%
Fiscal Year 12/13	\$51,248,318.00	\$681,000.00	1.3%
Fiscal Year 13/14	\$45,959,189.00	\$186,795.00	0.4%
Fiscal Year 14/15	\$39,584,117.00	\$1,100,000.00	2.8%
Seminole County			
Fiscal Year 12/13	\$68,805,637.00	\$900,000.00	1.3%
Fiscal Year 13/14	\$60,771,806.00	\$625,000.00	1.0%
Fiscal Year 14/15	\$68,881,531.00	\$0.00	0.0%
Sarasota County			
Fiscal Year 14/15	\$137,105,780.00	\$2,150,000.00	1.6%
	<i>, _ 0, 100, 100, 00, 00</i>	<i>+1</i> ,100,000,000	2.070

Table 14: Comparison of County CIP Funding to ADA Project Funding

3.3.3 Potential Funding Sources

The most immediate funding available to address ADA Transition Plan items is to incorporate the ADA improvements into planned maintenance and remediation projects, such as road resurfacing projects. However, this would result in the ability to complete fewer resurfacing projects. The positive aspect would be that the resurfacing projects completed would address ADA features.

Additional language in CIP project descriptions related to mitigating ADA barriers, if present, could also be incorporated into future projects, ensuring a focus on ADA occurs as the project is completed. Section 1.1, on page 32, includes examples of similar Florida County practices for descriptions of ADA improvements into many of their future projects and remediation efforts.

Similar to other Florida counties, Orange County could consider the following sources of funding for the ADA Transition Plan:

- Infrastructure Sales Tax
- General Fund
- Parks Fund*

*The parks fund is recommended to mitigate ADA barriers, if present, at public recreational parks, similar to the practices of Lake County.

Other potential sources of funding could include those in the list below. Detailed descriptions of each of these programs, descriptions of competitive projects to receive the grants, and funding applications/uses are presented in the following series of tables (Table 15, Table 16, and Table 17).

- Transportation Investment Generating Economic Recovery Discretionary Grant program
- Federal Transit Administration Capital Funds
- Associated Transit Improvement
- Highway Safety Improvement Program
- National Highway Performance Program/National Highway System
- Recreational Trails Program
- Surface Transportation Program
- Transportation Alternatives Program/Transportation Enhancement Activities
- Statewide or Metropolitan Planning
- Safe Routes to School Program

The receipt of any of the additional funding sources mentioned above would increase Orange County's fiscal strength and allow the County to allocate more funding to ADA retrofit projects.

Table 15 provides descriptions of the potential funding sources, the agency providing the funding opportunity, and a link to the program's webpage for current application requirements. Table 16, provides descriptions of projects including ADA retrofits or ADA accessibility initiatives that were awarded funding from the grant programs. No program specifically funded a dedicated ADA retrofit project. Table 17 is a summary of the applications/uses of the funding sources, as defined by the Federal Highway Administration (FHWA). A few additional funding sources are included in Table 15, Table 16, and Table 17, as these programs can be used to fund bicycle and pedestrian projects, rather than specifically ADA related projects.

Funding Source	Description	Funding Agency	Current Application Requirements Webpage
Transportation Investment Generating Economic Recovery Discretionary Grant program (TIGER Grant program)	Funds capital investments in surface transportation infrastructure with a focus on capital projects that generate economic development and improve access to reliable, safe and affordable transportation for disconnected communities both urban and rural, while emphasizing improved connection to employment, education, services and other opportunities, workforce development or community revitalization.	U.S. DOT	<u>http://www.transportation.go</u> <u>v/tiger</u>
Federal Transit Administration Capital Funds	Finances the construction, operation and maintenance of public transportation systems.	FTA	<u>http://www.fta.dot.gov/1230</u> <u>9.html</u>
Associated Transit Improvement	Appropriation of Federal Transit Administration Capital Funds.	FTA	<u>http://www.fta.dot.gov/1374</u> <u>7_14400.html</u>
Congestion Mitigation and Air Quality Improvement Program	Supports surface transportation projects and other related efforts that contribute air quality improvements and provide congestion relief.	FHWA	http://www.fhwa.dot.gov/env ironment/air_quality/cmaq/
Highway Safety Improvement Program	Funding to support projects that achieve a significant reduction in traffic fatalities and serious injuries on all public roads.	FHWA	http://safety.fhwa.dot.gov/hsi p/resources/fhwasa15011/
National Highway Performance Program/National Highway System	Provide support for the condition and performance of the National Highway System	FHWA	http://www.fhwa.dot.gov/ma p21/guidance/guidenhpp.cfm

Table 15: Funding Source Descriptions

Funding Source	Description	Funding Agency	Current Application Requirements Webpage
Surface Transportation Program	Provide support to preserve or improve conditions and performance on any Federal-aid highway, bridge projects on any public road, facilities for non-motorized transportation, transit capital projects and public bus terminals and facilities.	FHWA	http://www.fhwa.dot.gov/ma p21/guidance/guidestprev.cf m
Transportation Alternatives Program/Transportation	Provides support for programs and projects defined as transportation alternatives. Provides funding opportunities to help expand transportation	FHWA	http://www.fhwa.dot.gov/env ironment/transportation_alte rnatives/
Enhancement Activities	choices and enhance the transportation experience related to surface transportation.		http://www.fhwa.dot.gov/env ironment/transportation_enh ancements/
Recreational Trails Program	Provides funds to develop and maintain recreational trails and trail- related facilities for both non-motorized and motorized recreational trail users.	FHWA	http://www.fhwa.dot.gov/env ironment/recreational_trails/
Safe Routes to School Program	Provides funds to support communities to make walking and bicycling to school a safe and routine activity (funding awarded after 2012 is offered through the TAP program through MAP-21)	FHWA	<u>http://www.fhwa.dot.gov/env</u> <u>ironment/safe_routes_to_sch</u> <u>ool/</u>
Statewide or Metropolitan Planning	Provide support for the development of planning maps, safety brochures/books, bicycle and pedestrian system planning training, etc.	FHWA	<u>http://www.fhwa.dot.gov/pla</u> nning/
State and Community Highway Safety Grant Program	Provides grants to states to improve driver behavior and reduce deaths and injuries from motor vehicle-related crashes.	GHSA	<u>http://www.ghsa.org/html/st</u> ateinfo/programs/402.html
Federal Lands and Tribal Transportation Programs (Federal Lands Access Program, Federal Lands Transportation Program, Tribal Transportation Program)	Provides support to improve the transportation infrastructure owned and maintained by the National Park Service (NPS), US Fish and Wildlife Service (FWS), USDA Forest Service (Forest Service), Bureau of Land Management (BLM), and US Army Corps of Engineers (USACE).	FHWA	<u>http://flh.fhwa.dot.gov/progr</u> ams/fltp/

Table 16: Competitive Projects for Funding

5 11 0	Competitive		E	Example Projec	t(s)		
Funding Source	Project Types	Project Title	Description	Location	Total Project Cost	Funding Awarded	Year Awarded
Transportation Investment Generating Economic Recovery Discretionary Grant program (TIGER Grant program)	 Complete Street Transit 	New Orleans Canal Street Ferry Terminal	"These improvements will reduce exposure of passengers transferring between bus, streetcar, or ferry to automobile traffic, eliminate trip hazards at the existing terminal, substantially enhance ADA accessibility and safety, and address the perception of unsafe conditions for passengers at the existing terminal"	New Orleans, LA	\$18,617,278	\$10,038,678	2015
Federal Transit Administration Capital Funds	 Transit 	Orlando SunRail Phase II	In Progress	Orlando, FL	In Progress	In Progress	2015
Associated Transit Improvement	 Enhancing Mobility 		oplicants may receive at least 80% of s based upon each program applicati		as a funding grant (pe	ercentage of	2015
Congestion Mitigation and Air Quality Improvement Program	Bicycle and pedestrian- related projects	Funds are dist	tributed to the State of Florida annua	ally.		\$1,076,385	2016
Highway Safety Improvement Program		Funds are dist	tributed to the State of Florida annua	ally.		\$9,285,448	2016
National Highway Performance Program/National Highway System		Funds are dist	tributed to the State of Florida annu	ally.		\$90,600,312	2016

F . F . C	Competitive			Example Project	(s)		
Funding Source	Project Types	Project Title	Description	Location	Total Project Cost	Funding Awarded	Year Awarded
Surface Transportation Program		Funds are distributed and the second s	uted to the State of Florida an	nually.		\$41,673,299	2016
Transportation Alternatives Program/Transportation Enhancement Activities		Funds are distribu	uted to the State of Florida an	nually.		\$49,901,473	2014
Recreational Trails Program		Funds are distribu	uted to the State of Florida an	nually.		Florida opted out of the program	2014
Safe Routes to School Program			outes to School Program initiation for the second sec		ough the Transporta	tion Alternatives	2014
Statewide or Metropolitan Planning		Funds are distributed and the second s	uted to the State of Florida an	nually.		\$1,590,048	2016
State and Community Highway Safety Grant Program		Funds are distribu	uted to the State of Florida an	nually.		\$11,179,101	2014
Federal Lands and Tribal Transportation Programs (Federal Lands Access Program, Federal Lands Transportation Program, Tribal Transportation Program)		If selected, applic	ants may receive 100% of the	project cost as a fund	ding grant.		2014

Activity	TIGER	FTA	ATI	CMAQ	HSIP	NHPP/ NHS	STP	TAP/TE	RTP	SRTS	PLAN	402	FLTTP
Access enhancements to public transportation (includes benches, bus pads)	х	х	х	х			х	Х					х
ADA/504 Self Evaluation / Transition Plan	х						х	Х	х		Х		х
Bicycle and/or pedestrian plans	Х	Х					Х	Х			Х		Х
Bicycle lanes on road	Х	Х	Х	Х	Х	Х	Х	Х		Х			Х
Bicycle parking	Х	Х	Х	Х		Х	Х	Х	Х	Х			Х
Bike racks on transit	Х	Х	Х	Х			Х	Х					Х
Bicycle share (capital and equipment; not operations)	Х	Х	х	Х		х	х	Х					х
Bicycle storage or service centers	х	Х	Х	х			х	Х					х
Bridges / overcrossings for bicyclists and/or pedestrians	Х	х	Х	х	х	Х	Х	Х	Х	Х			Х
Bus shelters and benches	Х	Х	Х	Х			Х	Х					Х
Coordinator positions (State or local)				х			х	Х		х			
Crosswalks (new or retrofit)	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х			Х
Curb cuts and ramps	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х			Х
Counting equipment	Х	х	х		Х	Х	Х	Х	х	Х	Х		Х
Data collection and monitoring for bicyclists and/or pedestrians	Х	х	х		х	Х	Х	Х	Х	х	х		х
Helmet promotion (for bicyclists)							Х	х		х		х	
Historic preservation (bicycle and pedestrian and transit facilities)	х	х	х				х	Х					х

Table 17: Program Funding Applications/Uses

ADA Transition Plan in the Public Rights-of-Way

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Activity	TIGER	FTA	ATI	CMAQ	HSIP	NHPP/ NHS	STP	TAP/TE	RTP	SRTS	PLAN	402	FLTTP
Landscaping, streetscaping (bicycle and/or pedestrian route; transit access): related amenities (benches, water fountains)	х	х	х				Х	Х					х
Lighting (pedestrian and bicyclist scale associated with pedestrian/bicyclist project)	х	х	х		х	Х	Х	Х	Х	х			Х
Maps (for bicyclists and/or pedestrians)		х	Х	Х			х	Х		х	Х		
Paved shoulders for bicyclist and/or pedestrian use	х			х	х	х	Х	х		х			х
Police patrols							Х	Х		Х		Х	
Recreational trails	Х						Х	Х	Х				Х
Safety brochures, books							Х	Х		Х	Х	Х	
Safety education positions							Х	Х		Х		Х	
Separated bicycle lanes*	Х	Х	Х	Х	Х	Х	Х	Х		Х			Х
Shared use paths / transportation trails	Х	х	Х	Х	Х	Х	х	Х	х	Х			Х
Sidewalks (new or retrofit)	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х			Х
Signs / signals / signal improvements	х	х	Х	Х	Х	Х	х	Х		Х			Х
Signed bicycle or pedestrian routes	х	х	Х	х		х	Х	Х		х			х
Spot improvement programs	Х	Х			Х		Х	Х	Х	Х			Х
Stormwater impacts related to pedestrian and bicycle projects	х	х	х		х	х	х	х	Х	х			х
Traffic calming	Х	Х			Х	Х	Х	Х		Х			Х
Trail bridges	Х			Х	Х	Х	Х	Х	Х	Х			Х
Trail/highway intersections	Х			Х	Х	Х	Х	Х	Х	Х			Х

Activity	TIGER	FTA	ATI	CMAQ	HSIP	NHPP/ NHS	STP	TAP/TE	RTP	SRTS	PLAN	402	FLTTP
Training				Х			Х	Х	Х	Х	Х	Х	
Tunnels / undercrossings for bicyclists and/or pedestrians	Х	х	х	х	х	х	Х	х	х	х			х

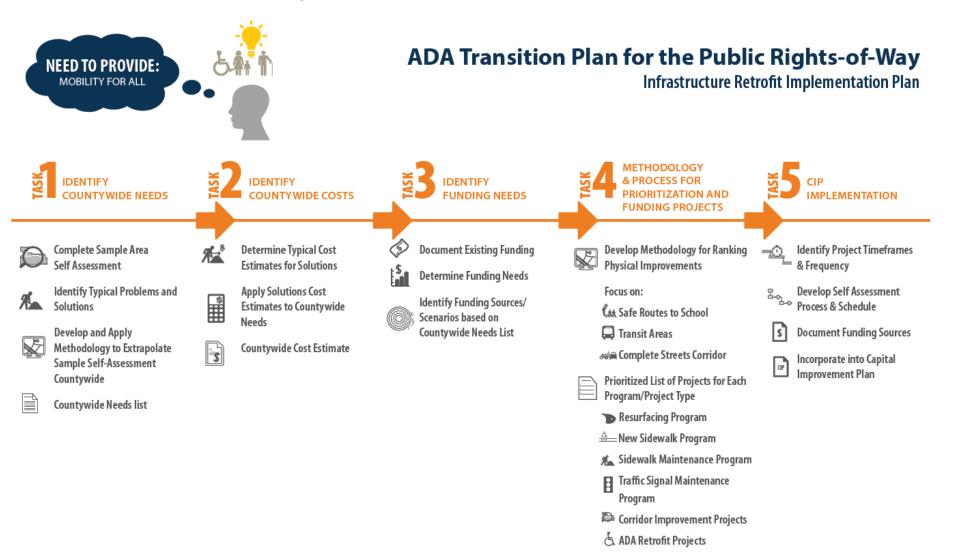
Table 17 Key:

TIGER	Transportation Investment Generating Economic Recovery Discretionary Grant program
FTA	Federal Transit Administration Capital Funds
ATI	Associated Transit Improvement
CMAQ	Congestion Mitigation and Air Quality Improvement Program
HSIP	Highway Safety Improvement Program
NHPP/NHS	National Highway Performance Program/National Highway System
STP	Surface Transportation Program
TAP/TE	Transportation Alternatives Program/Transportation Enhancement Activities
RTP	Recreational Trails Program
SRTS	Safe Routes to School Program
PLAN	Statewide or Metropolitan Planning
402	State and Community Highway Safety Grant Program
FLTTP	Federal Lands and Tribal Transportation Programs (Federal Lands Access Program, Federal Lands Transportation Program, Tribal
FLIIF	Transportation Program)

3.4 Implementation and Mitigation Schedule

The mitigation schedule to implement this ADA Transition Plan throughout Orange County will span multiple fiscal years, and shall include the installation, repair, and replacement of identified ADA barriers on an annual basis. Detailed descriptions of the strategies for mitigating the identified ADA barriers are located in Table 1. Figure 7 provides a graphical summary of the infrastructure assessment and implementation process for ADA. In Table 18, a preliminary 30-year schedule to strategically mitigate identified ADA barriers has been outlined, while Table 19 documents the estimated costs per fiscal year (unloaded costs). It should be noted that this preliminary 30-year schedule will be amended and potentially extended to account for the completion of projects, additional projects, new cost information and additional financial resources/funding. The exact locations and detailed schedule of work will be determined based on the precise mitigation projects being implemented, and are subject to review and recommendations by the County and the public. This schedule may also be adjusted in the future after a more detailed review by project and program managers, which will include additional analyses with the Safe Harbor Provision (28 C.F.R. 35.150(b)(2)(i). It should also be noted that the preliminary schedules shown in Figure 7, as well as in Tables 18 and 19, do not account for projects, or portions of projects, which may be incorporated into other County programs for mitigation. An ongoing assessment of funding vs. implementation and needs will be completed in the updates to the ADA Transition Plan and during upcoming Capital Improvement Plan (CIP) Budgeting by the County. The CIP process is completed by October 1st of each year. The mitigation schedule, as currently illustrated, is representative of the current estimated fiscal allocations and does not represent the complete estimated \$188 million of ADA infrastructure needs within the 30 year timeframe. This schedule is subject to change following results of the CIP budgeting.

Figure 7: ADA Infrastructure Retrofit Implementation Plan



Chapter 3

Fiscal Year	New Sidewalk CIP		R&D Programs				
	Gaps in Sidewalk (LF)	Insufficient Passing Distance (LF)	Curb Ramps	Detectable Warnings	Obstacles	Hazards	Damages
16/17	20,000	1,000	120	120	20	100	55
17/18	20,000	1,000	120	120	20	100	55
18/19	20,000	1,000	120	120	20	100	55
19/20	20,000	1,000	120	120	20	100	55
20/21	20,000	1,000	120	120	20	100	55
21/22	20,000	1,000	120	120	20	100	55
22/23	20,000	1,000	120	120	20	100	55
23/24	20,000	1,000	120	120	20	100	55
24/25	20,000	1,000	120	120	20	100	55
25/26	20,000	1,000	120	120	20	100	55
26/27	20,000	1,000	120	120	20	100	55
27/28	20,000	1,000	120	120	20	100	55
28/29	20,000	1,000	120	120	20	100	55
29/30	20,000	1,000	120	120	20	100	55
30/31	20,000	1,000	120	120	20	100	55
31/32	20,000	1,000	120	120	20	100	55
32/33	20,000	1,000	120	120	20	100	55

Table 18: Preliminary Mitigation Schedule for Inventoried Corridors – Estimated Number of Barriers Mitigated

Fiscal Year	New Sidewalk CIP		R&D Programs				
	Gaps in Sidewalk (LF)	Insufficient Passing Distance (LF)	Curb Ramps	Detectable Warnings	Obstacles	Hazards	Damages
33/34	20,000	1,000	120	120	20	100	55
34/35	20,000	1,000	120	120	20	100	55
35/36	20,000	1,000	120	120	20	100	55
36/37	20,000	1,000	120	120	20	100	55
37/38	20,000	1,000	120	120	20	100	55
38/39	20,000	1,000	120	120	20	100	55
39/40	20,000	1,000	120	120	20	100	55
40/41	20,000	1,000	120	120	20	100	55
41/42	20,000	1,000	120	120	20	100	55
42/43	20,000	1,000	120	120	20	100	55
43/44	20,000	1,000	120	120	20	100	55
44/45	20,000	1,000	120	120	20	100	55
45/46	20,000	1,000	120	120	20	100	55
Totals	600,000	30,000	3,600	3,600	600	3,000	1,650

Note:

Schedule subject to change and will be updated following results of CIP budgeting

Implementation Schedule

and Funding for ADA Barriers

Fiscal Year	New Sidewalk CIP		AD	A Compliance C	R&D Programs	Inventory	Estimated Total Capital		
	Gaps in Sidewalk (LF)	Insufficient Passing Distance (LF)	Curb Ramps	Detectable Warnings	Obstacles	Hazards	Damages	Assessment	Improvement Cost
16/17	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750	\$200,000	\$1,688,750
17/18	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750	\$200,000	\$1,688,750
18/19	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750	\$200,000	\$1,688,750
19/20	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750	\$200,000	\$1,688,750
20/21	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750	\$200,000	\$1,688,750
21/22	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750	\$200,000	\$1,688,750
22/23	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750	\$200,000	\$1,688,750
23/24	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750	\$200,000	\$1,688,750
24/25	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750	\$200,000	\$1,688,750
25/26	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750	\$200,000	\$1,688,750
26/27	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750
27/28	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750
28/29	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750
29/30	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750
30/31	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750
31/32	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750
32/33	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750
33/34	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750

Table 19: Preliminary Mitigation Schedule for Inventoried Corridors - Estimated Costs of Mitigation (Unloaded Costs)

Fiscal Year	New Sidewalk CIP		AD	A Compliance C	R&D Programs	Inventory	Estimated Total Capital		
	Gaps in Sidewalk (LF)	Insufficient Passing Distance (LF)	Curb Ramps	Detectable Warnings	Obstacles	Hazards	Damages	Assessment	Improvement Cost
34/35	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750
35/36	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750
36/37	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750
37/38	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750
38/39	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750
39/40	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750
40/41	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750
41/42	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750
42/43	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750
43/44	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750
44/45	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750
45/46	\$600,000	\$290,00	\$252,000	\$54,000	\$80,000	\$54,000	\$35,750		\$1,488,750
Totals	\$18,000,000	\$8,700,000	\$7,560,000	\$1,620,000	\$2,400,000	\$5,250,000	\$1,132,500	\$2,000,000	\$46,622,500

Note:

Schedule subject to change and will be updated following results of CIP budgeting

4.0 Public Involvement and Outreach

The Americans with Disabilities Act (ADA) states that a public entity is required to make available to applicants, participants, residents, and other interested parties and stakeholders information regarding the transition plan and its applicability to the services, programs, and activities of the public entity, and to apprise the public of the protections against discrimination afforded to them by the ADA. The community is also included in the development of the transition plan through involvement in public meetings, submitting comments, and making recommendations.

Orange County Public Works has published a Public Involvement Plan (PIP) outlining the methods of public outreach planned and enacted throughout the development of this ADA Transition Plan and the methods for continued communication about ADA initiatives. The primary objectives of which are:

- Identify and notify stakeholders of the ADA Transition Plan
- Establish a two-way communication process for effectively informing and obtaining feedback from the community about the ADA Transition Plan
- Refine the formal grievance procedure for continued communication about future ADA initiatives

The PIP established the framework for informing and engaging disabled citizens, social service agencies, service providers to the disabled community, businesses, residents, interested parties, and other stakeholders in the development of the ADA Transition Plan. The stakeholder's contributions to the planning, development, and decision-making phases of the transition plan ensured that this ADA Transition Plan for the Public Rights-of Way was developed to meet the needs of all of Orange County.

The full PIP contains detailed records of stakeholder information, engagement opportunities, records of comments received, and responses to public comments among other items, while Section 4.3.2 Public Engagement Recommendations – Continued Communication (page 66) identifies the procedures followed for each method of public outreach. This section provides reference information for the types of public involvement utilized and the information disseminated to the community.

4.1 Agency and Public Coordination

Notification and dissemination of information to project stakeholders is an extremely important component of the PIP. An initial contact list was created for contacting the public, including: officials representing Orange County, local public officials and offices, disability service organizations, and disability advisory groups. The complete list is managed and updated by the Public Works ADA Coordinator, and includes the contact information for individuals/organizations that have requested to receive information regarding the Orange County Public Works ADA Transition Plan for the Public Rights-of-Way.

4.1.1 Meetings

A series of meetings and public outreach events were held to obtain participation from persons throughout the County about the development of the Orange County ADA Transition Plan in the Public Rights-of-Way, and ensure a comprehensive public involvement process. Procedures for conducting the meetings and the provisions for auxiliary aids are described in Section 4.3.2 Public Engagement Recommendations – Continued Communication on page 67. Meetings were coordinated the following organizations, and feedback elicited from all of the attendees:

- Orange County Departments and Divisions
 - Public Works Development Engineering
 - Public Works Highway Construction Division
 - Public Works Engineering Division
 - Public Works Roads and Drainage Division
 - Public Works Traffic Engineering Division
 - CEDS Transportation Planning Division
- Orange County Advisory Boards
 - Disability Advisory Board
 - Public Works Advisory Board
 - Public Works Professional Resources Group
- Public Meetings

The notes and comment forms from each meeting are included in Appendix items 16-19.

4.2 Public Notice Procedures

While public disability service/rights organizations and disability advocacy groups were contacted with information regarding the ADA Transition Plan development to disseminate to their members, additional efforts were made in order to encourage the participation of additional members of the community. Records of the brochure and newsletters published are included in the Appendix items 14-15.

4.2.1 Press Releases and Newsletters

Press releases for local newspapers were prepared three weeks in advance of the public meetings by Orange County officials, and published at least two weeks prior to the meeting dates.

4.2.2 Electronic Communication

The Orange County website (ocfl.net) also published up-to-date information about the ADA Transition Plan for the Public Rights-of-Way, including information about public involvement events, the grievance procedure, and document publications, among other items as identified in Section 4.3.2 Public Engagement Recommendations – Continued Communication on page 66.

E-mail and social media were also used to maintain communication with stakeholders throughout the enacting of the ADA Transition Plan for the Public Rights-of-Way. E-mail address lists were developed to include social service agencies, service providers to the disabled community, residents, property owners, businesses, local officials, and agencies that elected to be informed of ADA Transition Plan activities and events electronically.

4.2.3 Environmental Justice

Environmental Justice is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, disability, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies. Fair treatment means that no group of people should bear a disproportionate share of the negative environmental consequences resulting from industrial, governmental and commercial operations or policies. The purpose of Environmental Justice is to allow everyone the same degree of protection from environmental and health hazards and equal access to the decision-making process to have a healthy environment in which to live, learn, and work. Environmental Justice ensures that:

- All people have an opportunity to participate in decisions about activities that may affect their environment and/or health
- The public's contribution can influence the regulatory agency's decision

- Concerns of the local stakeholders will be considered in the decision making process
- The decision makers seek out and facilitate the involvement of those who are potentially affected

Due to the significant Spanish and Creole speaking populations in Orange County, provisions were made to provide a source where persons who only speak Spanish or Creole can obtain information about the ADA Transition Plan or voice their concerns. Requests for these provisions were requested to be made at least one week prior to any meetings or events. Printed materials in other languages were provided upon request.

4.3 Public Engagement and Response Procedure

Orange County is dedicated to helping provide persons with disabilities the opportunity to fulfill their greatest potential for independence and achievement. The primary method of ensuring that programs and initiatives do meet these needs is by opening a dynamic dialogue with the community and engaging them in the development and continued monitoring of the ADA Transition Plan. Both of the stages of involvement and recommended procedures are described in the following subsections.

The records of public involvement throughout the development of this ADA Transition Plan are documented in Section 4.0 Public Involvement and Outreach.

4.3.1 Public Engagement – Development of the ADA Transition Plan

Public engagement during the development of the ADA Transition Plan is integral in meeting the needs of the community served by Orange County Public Works. Detailed recommendations for multiple forms of communication with the public are located in the Public Involvement Plan (Section 4.0), but a few of the methods of communication are summarized below for reference.

- Public Involvement Meetings
- Advisory Board Meetings (also open to the public)
- Website
- Newsletters
- Press Releases
- Partnerships with local advocacy groups

Orange County Public Works shall also foster and strengthen partnerships with local advocacy groups, such as the Center of Independent Living or Lighthouse for the Blind, in order to help with the dissemination of information to community stakeholders. These organizations can also provide insight into the needs of their respective communities, which will also aid in the development of the ADA Transition Plan.

This subsection documents the methods of continued communication with the community that will be utilized after the ADA Transition Plan has been adopted by the Orange County Board of County Commissioners.

Publish the ADA Transition Plan

The approved and adopted ADA Transition Plan shall be made available on the Orange County website throughout the duration of its enactment, though federal regulations require a period of at least three years, with additional formats (hard-copies, large fonts, different languages, etc.) available upon request.

Website Development

The Orange County Public Works website, where the ADA Transition Plan for the Public Rights-of-Way is published, may also provide links to information about the County resources available to citizens with disabilities. The website developed shall follow the accessibility criteria outlined under ADA Section 508, and include the following information:

- ADA Transition Plan
- Title II requirements
- Accessibility Policy for Public Rights-of-Way
- Web Accessibility Policy
- ADA Core Team Information
 - Contact Information
 - Meeting Minutes
 - County Code Chapters Revised for ADA Accessibility
 - ADA Project Status Memos
- Grievance Procedure
 - ADA Coordinator Contact Information
 - ADA Compliance Improvement Request Form
 - Accommodation Request Form
 - Grievance Form
- Public Meeting Dates/Times/Locations
- Resources for Residents
 - Orange County Disability Resource Directory
 - Contact Information for:

- ADA Coordinator
- ADA Core Team
- Orange County Customer Service 3-1-1
- Resources for Developers
 - ADA Feature Design Standards
 - Standard Details
 - Revised Checklist for Compliance
 - MOT, FDOT and FHWA Memos (Maintenance of Traffic, Florida Department of Transportation, and Federal Highway Administration Memos)

Public Involvement Meetings

The ADA Core Team is responsible for ensuring that information about the continued monitoring and on-going progress of the ADA Transition Plan is disseminated and the public has the opportunity to provide feedback about the document. One avenue to facilitate the conversation is through public involvement meetings, similar in format to those described in the Public Involvement Plan (Section 4.0).

The ADA Core Team will host an annual public meeting to discuss the progress to date for the ADA Transition Plan. The persons encouraged to attend the meetings are stakeholders, County personnel, advocacy groups, development community representatives, and local, county, state, and federal organizations. Please refer to the contact information prepared for the Public Involvement Plan (Section 4.0) for additional information.

Presentation

The agenda of the public meeting presentation should address the progress made within the past year, including, but not limited to:

- Projects completed, in-progress, and/or identified
- Updates to County Code Chapters, if applicable
- Identification of County resources (ex. contact information, other public meetings)
- Explanation of grievance procedure
- A period for open discussion

The content of the presentation should be brief and in plain language as the audience might not be familiar with technical terms. The presenter must always include descriptions of images included in the presentation. During the period of public participation during a meeting, the County's policy to limit the participation from members of the public in meetings to 3 minutes should be flexible to accommodate persons with disabilities, especially those with speech and/or hearing impairments.

Meeting Time/Location

The availability of the target audience needs to be considered when selecting the date, time and location for the public meeting. Meetings held after business hours typically encourage attendance. The facility selected shall be inspected before the meeting using the ADA checklist to ensure the facility is accessible to persons with disabilities. If ADA barriers are identified, they must be mitigated before the scheduled meeting begins.

In accordance with the Public Involvement Plan (Section 4.0), the public be shall be notified at least two weeks in advance of public meetings. The notification shall include a standard note or newsletter utilized by the County offering auxiliary aids and services. Auxiliary aids are described in the next section.

Auxiliary Needs at Public Meetings

It is also necessary to ensure that effective communication is achieved by verifying that the chosen facility provides assistive listening devices and that third party vendors are available to provide auxiliary aids and services, if requested in advance.

Notifications of public meetings shall include a section offering auxiliary aids and services to attendees upon request. Sample language is included below for reference.

"Persons requiring special accommodations under the Americans with Disabilities Act of 1990 (ADA) may request assistance by phone at 407-836-7900 or by e-mail to <u>ADACoordinator@ocfl.net</u> at least seven (7) days prior to the meeting. Public participation is solicited without regard to race, color, national origin, age, sex, religion, disability or family status. If you are hearing or speed impaired, please contact the agency using the Orange County 3-1-1 Customer Service, 407-836-3111 or 407-836-4250 (TTY)."

A statement in Spanish should also be included to aid the dissemination of information.

"Para información en Español, llamar al 407-836-3111 y pedir hablar con un representante en Español."

Other translations will be made available based on local population characteristics or by request.

Requests for auxiliary aids may include, but are not limited to:

- Sign language interpreters
- Communication Access Realtime Translation (CART)
- Video relay interpreting services
- Information in alternative formats

- Braille
- Additional Languages

Any handout materials provided for the presentation or meeting minutes provided after the meeting must also be offered in alternative formats such as larger fonts or additional languages.

The County will continue its positive relationships with local business and vendors to obtain requested resources quickly and efficiently, as it may take extended periods of time to arrange these services for public meetings.

4.4 Grievance Procedure

The ADA Grievance Procedure is a formal channel of communication empowering the community to identify requests or complaints. The following information is presented in order to ensure that each request received is handled consistently and the resolution documented in a timely manner.

The following language shown in Figure 8 is the Orange County Grievance Procedure, which refers requests to the Public Works ADA Coordinator. This will be posted online at the Orange County Public Works website to describe the grievance procedure process to prospective complainants. Figure 9 visually showcases the grievance procedure.

Figure 8: Orange County Public Works ADA Grievance Procedure

Grievance Procedure under the Americans with Disabilities Act

This Grievance Procedure is established to meet the requirements of the Americans with Disabilities Act of 1990 (ADA). It may be used by anyone who wishes to file a concern alleging discrimination on the basis of disability in the provision of services, activities, or programs. The County's personnel policy governs employment related concerns of discrimination.

The concern should be made in writing and contain information about the alleged discrimination including:

- Name, address, and phone number of complainant
- Location and date of the problem
- Description of the problem

Alternative means of filing the concern, such as personal interviews or a tape recording of the concern will be made available for persons with disabilities upon request.

The concern should be submitted by the grievant and/or his/her designee as soon as possible, but no later than sixty (60) calendar days after the alleged violation.

Grievance Notice under the Americans with Disabilities Act

In accordance with the requirements of Title II of the Americans with Disabilities Act of 1990 (ADA), unincorporated Orange County Government will not discriminate against qualified individuals with disabilities on the basis of disability in its services, programs, or activities.

Employment: Unincorporated Orange County Government does not discriminate on the basis of disability in its hiring or employment practices and complies with all regulations promulgated by the U.S. Equal Employment Opportunity Commission under Title I of the ADA.

Effective Communication: Unincorporated Orange County Government will generally, upon request, provide appropriate aids and services leading to effective communication for qualified persons with disabilities so they can participate equally in programs, services and activities, including qualified sign language interpreters, documents in Braille, and other ways of making information and communications accessible to people who have speech, hearing, or vision impairments.

Modifications to Policies and Procedures: Unincorporated Orange County Government will make all reasonable modifications to policies and programs to ensure that people with disabilities have an equal opportunity to enjoy all of its programs, services and activities. For example, individuals with service animals are welcomed in county offices, even where pets are generally prohibited.

Anyone who requires an auxiliary aid or services for effective communication, or a modification of policies or procedures to participate in a program, service, or activity should contact the department office or the Public Works ADA Coordinator (contact information below) as soon as possible but no later than 48 hours before the scheduled event.

The ADA does not require unincorporated Orange County Government to take any action that would fundamentally alter the nature of its programs or services, or impose an undue financial or administrative burden.

Concerns that a program, service, or activity is not accessible to persons with disabilities should be directed to the respective program activity office or to the Public Works ADA Coordinator (contact information below) or designee.

Within fifteen (15) days after receipt of the concern, the designated program office or designee will either meet with the complainant to discuss the concern and the possible resolution or send a letter with a proposed resolution to the complainant. Within 15 days of the meeting, a letter shall be written and where appropriate, in a format accessible to the complainant, such as large print, Braille or audio tape. The response will explain the position of the public entity and offer options for substantive resolution.

If the response does not satisfactorily resolve the issue, the complainant and/or his/her designee may appeal the decision within 15 calendar days after receipt of the response to an appropriate high level official.

Within 15 days after receipt of the appeal, the appropriate high level official or designee will meet with the complainant to discuss the concern and possible resolution. Within 15 days calendar days after the meeting, the appropriate high-level official will respond in writing and where appropriate, in a format accessible to the complainant, with a final resolution of the complaint.

All written complaints received by the Public Works ADA Coordinator or designee, appeals to the appropriate high level official or designee, and responses from these two office will be retained by unincorporated Orange County records for at least three years.

Public Works ADA Coordinator

Natrevia Gradney-Mitchell, PE Orange County Public Works Engineering Division 4200 South John Young Parkway Orlando, FL 32839 Ph: 407.836.8083 TTY: 407.836.4250 Email: ADACoordinator@ocfl.net

Count Legal Yes 12 days No 12 days ADA Coordinator Notifies Complainant that the Request has 15 days Receive 3 days 15 days Meeting with County Resolution of Solution Solution Request Legal Counsel Decision 15 days 15 days Solution Yes Yes Appealed No No

Resolution of

Figure 9: Public Works Internal ADA Grievance Procedure Flow Chart

ADA Transition Plan in the Public Rights-of-Way

Chapter 4

4.4.1 Grievance Procedure Forms

Orange County will utilize a written form to initiate a request or complaint through the grievance procedure, or another method as necessary (such as by phone or in person). The form should be completed by the complainant, but can be completed by County staff, if necessary, for grievances filed under the grievance procedures.

The form shall be available electronically on the County website and in hard-copy at Orange County Public Works. The electronic version of the form must be available to submit electronically or through the mail, at the respondent's discretion. Whether submitting the form electronically or standard mail, it shall always be delivered to the Orange County Public Works ADA Coordinator as soon as it is received.

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1. Orange County ADA Trainings and Staff Attendance

Public Works Division/Orange County Office	ADA Accessibility for Highway Design and Pedestrian Workshops August 2008		ADA Ti Januar	•	Staff that At Train	tended Both iings
	Number	Percent	Number	Percent	Number	Percent*
County Attorney's Office	0	0%	2	2%	0	0%
Development Engineering	26	44%	20	17%	17	65%
Engineering	8	14%	14	12%	4	50%
Fiscal & Operational Support	0	0%	3	3%	0	0%
Highway Construction	17	29%	22	19%	15	88%
Parks and Recreation Office	0	0%	3	3%	0	0%
Roads & Drainage	4	7%	27	23%	2	50%
Stormwater Management	1	2%	7	6%	0	0%
Traffic Engineering	3	5%	11	9%	3	100%
Transportation Planning	0	0%	4	3%	0	0%
Utilities Engineering	0	0%	3	3%	0	0%
Total	59	100%	116	100%	41	-

*Percent is the number of people to refresh their training in 2015 (having already attended the 2008 training) out of the total number of attendees at the 2008 training.

Note: Does not include information related to changes in Staff employment status between 2008 and 2015.

2. ADA Training Attended by Division (2015)

County Division	Total Number of Staff	Number of Staff to Complete 2015 ADA Training	Percent of Staff to Complete 2015 ADA Training
Traffic Engineering Division	61	11	18%
Engineering Division	36	14	39%
Development Engineering Division	33	20	61%
Fiscal & Operational Support Division	32	3	9%
Highway Construction Division	24	22	92%
Roads & Drainage Division	234	27	12%
Stormwater Management Division	104	7	7%
Transportation Planning - CEDS	15	4	27%
Total	539	108	20%

3. ADA Trainings and Recommended Attendees

Training Organization	Training Title	Course Offering Frequency by Training Organization	Recommended Attendees
<u>FDOT</u>	Statewide Transit Accessibility & Facility Design Course	To be determined by FDOT Transit Department	 Engineering Division Development Engineering Division Traffic Engineering Division Transportation Planning Division Highway Construction Division Roads and Drainage Division
<u>FDOT</u>	Designing Pedestrian Facilities – Module 1	Presentation Available Online	 Traffic Engineering Division Transportation Planning Division Engineering Division Development Engineering
<u>FDOT</u>	Designing Pedestrian Facilities – Module 2	Presentation Available Online	 Traffic Engineering Division Transportation Planning Division Engineering Division Development Engineering
<u>FHWA</u>	ADA/Section 504 of the Rehabilitation Act of 1973	Information Provided Online	 ADA Coordinator
<u>National Highway</u> <u>Institute</u>	Pedestrian Facility Design	By Request	 Traffic Engineering Division Transportation Planning Division Engineering Division Development Engineering
<u>National Highway</u> <u>Institute</u>	Planning and Designing for Pedestrian Safety	By Request	 Traffic Engineering Division Transportation Planning Division Engineering Division Development Engineering
<u>National Highway</u> <u>Institute</u>	Developing a Pedestrian Safety Action Plan	By Request	 Transportation Planning Division Engineering Division

Training Organization	Training Title	Course Offering Frequency by Training Organization	Recommended Attendees
<u>National Highway</u> Institute	Designing for Pedestrian Safety	By Request	 Traffic Engineering Division Transportation Planning Division Engineering Division
International Code Council (ICC)	Accessibility Inspector/Plans Examiner Certification Course	Course Materials available online, Training Seminars offered every 3 months (approx.)	 All Inspectors
ADA Coordinator Training Certification Program	ADA Coordinator Certification Course	Individual Self-Paced Online Program	 ADA Coordinator
<u>ADA National</u> <u>Network</u>	ADA Title II Tutorial	Individual Self-Paced Online Program	 All New Staff
FDOT	ADA 101 – Just the Basics	Presentation Available Online	 All New Staff
FDOT	ADA Design and Construction	Presentation Available Online	 Traffic Engineering Division Transportation Planning Division Engineering Division
Orange County Customer Service 3-1-1	TTY/TDD Relay Calls Training	To be determined by Orange County Customer Service 3-1-1	 Public Involvement Staff

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4. Orange County Identified Equipment Needs

Equipment		Description	2015 Price per Device/Unit (without taxes or fees in USD)
	<u>Elcometer 224</u>	Gauges and measures a surface profile digitally	Approx. \$1,000.00 Exact quotes available from Elcometer USA Office +1.248.650.0500
SUDATO	<u>SUUNTOO</u> <u>Clinometer</u> *	Measure heights, vertical angles, and slopes	Approx. \$145.00
	Smart-Tool <u>Smart Level</u>	Measure percent slopes and degree of slope	Approx. \$130.00
	<u>OIC Slim</u> <u>Clipboard</u> <u>Storage Box</u>	Support data collection efforts	Approx. \$14.00
	<u>Panasonic</u> Toughpad	Accurately locate and capture field data with tablet device	Approx. \$1,330.00 Exact quotes available from Mooringtech.com
SOURS CRYSTAL INCOME	Pressure Gauge	Measure the pressure required to activate accessible pedestrian push- buttons	**

Equipment		Description	2015 Price per Device/Unit (without taxes or fees in USD)
A REAL PROPERTY AND A REAL	Stop Watch	Measure the timing of pedestrian crossing cycles at intersections	**
	Safety Vest	Support data collection efforts and maintain visibility of County Staff in all conditions	**

Note: The County can choose either the clinometer or the Smart Level.

*If the clinometer is chosen, it is recommended having several clinometers available. Depending on the type, it is recommended purchasing modules 1', 2', and 4' clinometers to have equipment suitable for all terrains within the County. **Unit prices per device shall be determined after the County identifies and evaluates device brands based on the County's data collection needs and purposes.

5. Orange County Code Chapters

The Orange County Code chapters serve as a resource for the County to plan, design, construct, and maintain infrastructure that serves the needs of the community. The recommended changes implemented are summarized in the following table:

Code		Comment	Referenced Standard	Recommendation
Chapter 9 – Buil	ding and Construction	Regulations		
All Sections		All sections were reviewed, and no comments in regards to ADA compliance are needed at this time.	N/A	N/A
Chapter 21 – Hig	ghways, Bridges, and N	liscellaneous Public Places		
Sec. 21-236	Maintenance of Traffic	Does not accommodate ADA accessibility.	28 Code of Federal Regulations Part 35.133 Maintenance of Accessible Features, 2010 ADA sec. 206, 402, 403, 302	Add the phrasing "When an existing pedestrian way or bicycle way is located within a traffic control work zone, accommodation must be maintained and provision for the disabled must be provided."
Sec. 21-252 (b)	Placement	It is necessary for the County to establish criteria that the County will use to determine if existing connections provide an ADA compliant path. (i.e. define all the requirements to be compliant with ADA, such as that it must be at least 48" wide, have cross slopes not exceeding 2%, running slopes not exceeding 8.3%, no vertical changes in level).	2010 ADA sec. 206, 402, 403, 302, 502.3	Establish criteria to determine if existing connections provide an ADA compliant path. Revise policy to reflect ADA Standards updated in 2010, and the FBC Accessibility Code as updated in 2012 and PROWAG as published in 2011 (best practice).

Code		Comment	Referenced Standard	Recommendation
Sec. 21-253 (b)	Transit Bench Design	Does not establish 42"length minimum nor back support extending from a point 2" to 18" minimum above the seat	ADA 2010 - Section 903.3 FBC 2012 – Section 903	Revise policy to reflect ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
Sec. 21-253 (h)	Transit Bench Design	Policy currently states that benches shall comply with ADA, but does not clarify the technical requirement.	ADA 2010 - Section 903	Revise policy to reflect ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
All Other Sections		All other sections were reviewed, and no comments in regards to ADA compliance are needed at this time.	N/A	N/A
Chapter 30 – Plai	nning and Developme	nt		
Sec. 30-248	Access Driveways	Policy indicates that driveways are required to have 36" minimum path of travel to comply with ADA requirements for public rights-of-way. Under the Florida Building Code (FBC), the path of travel is required to be 48" minimum.	2012 FBC sec. 206, 402, 403, 302, 502.3	Revise policy to reflect ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012 and PROWAG as published in 2011 (best practice).
Sec. 30-250	Access Driveways	Policy states that sidewalks "constructed to county standards".	2012 FBC sec. 206, 402, 403, 302, 502.3	Revise policy to reflect constructed to County, local, state and federal standards (including ADA) as updated in 2010 and the FBC Accessibility Code as updated in 2012 and PROWAG as published in 2011 (best practice).

Code		Comment	Referenced Standard	Recommendation
All Other Sections		All other sections were reviewed, and no comments in regards to ADA compliance are needed at this time.	N/A	N/A
Chapter 34 – Sub	division Regulations			
Sec. 34-171 (7)	Roadway Design Standards	All subdivisions require "four foot concrete sidewalks on both sides of all streets" appears in conflict with Sec. 9-562(a).	2012 FBC sec. 206, 402, 403, 302, 502.3	Revise policy to establish consistent sidewalk widths.
Sec. 34-173	Construction of Existing Street Pattern	Does not define the responsibility for ADA retrofits if existing streets are not ADA compliant.	28 CFR 35 Subpart D, 35.150, 35.151(b)	Revise policy to address ADA standards and policy, FBC Accessibility Code, and County standards during construction.
Sec. 34-176	Subdivision Entrance Roads	Does not define the responsibility for ADA retrofits if existing streets are not ADA compliant.	28 CFR 35 Subpart D, 35.150, 35.151(b)	Revise policy to address County design standards, ADA standards and policy, and FBC Accessibility Code.
Sec 34-202	Inspection of Improvements	Does not include a statement for compliance with current ADA features.	28 CFR 35 Subpart D, 35.151(b), 35.150(d)	Revise policy to include a statement in the inspection regarding ADA accessibility compliance.
Sec 34-203	Irrevocable Letter of Credit	Does not include an assessment of ADA features for compliance with current standards.	28 CFR 35 Subpart D, 35.151(b), 35.150(d)	Revise policy to include a statement in the letter of credit regarding ADA accessibility compliance.
Sec. 34-204	Certificate of Completion / Approval for Maintenance	Does not include an assessment of ADA feature for compliance with current standards.	28 CFR 35 Subpart D, 35.151(b), 35.150(d)	Revise policy to include an additional document in the submittal that addresses ADA accessibility compliance.
All Other Sections Provided		All other sections were reiewed, and no comments in regards t ADA compliance are needed athis time.	N/A	N/A

Code		Comment	Referenced Standard	Recommendation
Chapter 38 – Zon	ing			
Sec. 38-79 (e)	Zoning Districts Established - Conditions for Permitted Uses and Special Exceptions	Policy indicates that outside seating must be consistent with ADA, but does not define the requirements.	2012 FBC 903	Revise policy to add specific requirements or provide examples of ADA compliant outdoor seating arrangements.
Sec. 38-808	Pedestrian Circulation	Policy currently does not address that pedestrian circulation system shall comply with ADA.	2012 FBC sec. 206, 402, 403, 302, 502.3	Revise policy to reflect that walkways shall comply with applicable County, state and federal requirements including ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
Sec. 38-833	Pedestrian Circulation	Policy currently does not address that pedestrian circulation system shall comply with ADA.	2012 FBC sec. 206, 402, 403, 302, 502.3	Revise policy to reflect that walkways shall comply with applicable County, state and federal requirements including ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
Sec. 38-858	Pedestrian Circulation	Policy currently does not address that pedestrian circulation system shall comply with ADA.	2012 FBC sec. 206, 402, 403, 302, 502.3	Revise policy to reflect that walkways shall comply with applicable County, state and federal requirements including ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
Sec. 38-883	Pedestrian Circulation	Policy currently does not address that pedestrian circulation system shall comply with ADA.	2012 FBC sec. 206, 402, 403, 302, 502.3	Revise policy to reflect that walkways shall comply with applicable County, state and federal requirements including ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.

Code		Comment	Referenced Standard	Recommendation
Sec. 38-1289	Tourist Commercial - Parking	Policy does not establish requirements to provide accessible parking spaces.	2012 FBC 208.2.5.2, 502	Revise policy to establish requirements for ADA parking spaces that are in compliance with ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
Sec. 38-1235(10)	Planned development guidelines	Policy currently does not address that vehicle parking shall comply with ADA.	28 CFR 35 Subpart D, 35.151, 2010 ADA, 2012 FBC 208, 501	Revise policy to reflect that vehicular parking shall comply with complying with applicable County, state and federal requirements including ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
Sec. 38-1235(12)	Planned development guidelines	Policy currently does not address that walkways shall comply with ADA.	2012 FBC sec. 206, 402, 403, 302, 502.3	Revise policy to reflect that walkways shall comply with applicable County, state and federal requirements including ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
Sec. 38-1259(a)	Student Housing	Policy currently does not address that student housing shall comply with applicable portions of ADA and/or Fair Housing Act (FHA).	2012 FBC sec. 35.151(f), 224, 806,233, 809, 24 Code of Federal Regulations (CFR) Chapter 1	Revise policy to reflect that student housing shall comply with applicable County, state and federal requirements including ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012 and 24 CRF Chapter 1 Fair Housing Act (FHA) accessibility requirements.

Code		Comment	Referenced Standard	Recommendation
Sec. 38-1259(b)	Student Housing	Policy currently does not address that student housing shall comply with applicable ADA and Fair Housing Act (FHA).	2012 FBC sec. 35.151(f), 224, 806,233, 809, 24 Code of Federal Regulations (CFR) Chapter 1	Revise policy to reflect that student housing shall comply with applicable County, state and federal requirements including ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012 and 24 CRF Chapter 1 Fair Housing Act (FHA) accessibility requirements.
Sec. 38-1298	Tourist Commercial – Sidewalks	Policy currently states: "All sidewalk facilities shall be designed to provide access by the handicapped."	28 CFR 35 Subpart D, 35.151, 2012 FBC 206, 402, 403, 302	Revise the policy phrasing: (suggested) "All sidewalk facilities shall be designed to provide access for persons with disabilities in compliance with ADA requirements."
Sec. 38-1350(a)	Parking Facilities	Policy currently does not address that vehicle parking shall comply with ADA.	28 CFR 35 Subpart D, 35.151, 2010 ADA, 2012 FBC 208, 501	Revise policy to reflect that vehicular parking shall comply with applicable County, state and federal requirements including ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.

Code		Comment	Referenced Standard	Recommendation
Sec. 38-1350(7)	Parking Facilities	Policy currently does not address that vehicle parking shall comply with ADA.	28 CFR 35 Subpart D, 35.151, 2010 ADA, 2012 FBC 208, 501	Revise policy to reflect that vehicular parking shall comply with applicable County, state and federal requirements including ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
Sec. 38-1382	General Development guidelines and standards	Policy currently does not address that sidewalks shall comply with ADA.	2012 FBC sec. 206, 402, 403, 302, 502.3	Revise policy to reflect that sidewalks shall comply with applicable County, state and federal requirements including ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
Sec. 38-1387.3	Condominiums	Policy currently does not address that sidewalks shall comply with ADA and Fair Housing Act as applicable.	24 Code of Federal Regulations (CFR) Chapter 1 Fair Housing Act	Revise policy to reflect that condominiums shall comply with applicable County, state and federal requirements including ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012 and 24 CRF Chapter 1 Fair Housing Act (FHA) accessibility requirements.
Sec. 38-1390.35	Planned Development/Unified Neighborhood Plan Review (PD/UNP)	Policy currently does not address ADA compliance.	28 CFR 35 Subpart D, 35.150, 2012 FBC 206, 402, 403, 302	Revise policy to reflect ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
Sec. 38-1390.37	General requirements	Policy currently does not address ADA compliance.	28 CFR 35 Subpart D, 35.150, 2012 FBC 206, 402, 403, 302	Revise policy to reflect ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.

Code		Comment	Referenced Standard	Recommendation
Sec. 38-1390.43	Planned Development District - Pedestrian and Bicycle Facility Design Standards	Policy currently does not address ADA compliance.	28 CFR 35 Subpart D, 35.151, 2010 ADA, 2012 FBC 206, 402, 403, 302	Revise policy to reflect ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
Sec. 38-1390.52	Planned Development District - Parking	Policy currently does not address ADA compliance.	28 CFR 35 Subpart D, 35.151, 2010 ADA, 2012 FBC 208.2.5.2, 502	Revise policy to reflect ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
Sec. 38-1479	Off-street parking lot requirements	Policy currently does not address that vehicle parking shall comply with ADA.	28 CFR 35 Subpart D, 35.151, 2010 ADA, 2012 FBC 208, 501	Revise policy to reflect that vehicular parking shall comply with applicable County, state and federal requirements including ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
Sec. 38-1704(b)	Circulation, access and parking	Policy currently does not address that sidewalk and vehicular parking shall comply with ADA.	28 CFR 35 Subpart D, 35.151, 2010 ADA, 2012 FBC 206, 402, 403, 302, 208, 501	Revise policy to reflect that sidewalks and vehicular parking shall comply with applicable County, state and federal requirements including ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
Sec. 38-1734(a)	Site and development standards	Policy currently does not address that sidewalk shall comply with ADA.	28 CFR 35 Subpart D, 35.151, 2010 ADA, 2012 FBC 206, 402, 403, 302	Revise policy to reflect that sidewalks shall comply with applicable County, state and federal requirements including ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
Sec. 38-1734(c)	Site and development standards	Policy currently does not address that sidewalk and vehicular parking shall comply with ADA.	28 CFR 35 Subpart D, 35.151, 2010 ADA, 2012 FBC 208, 501	Revise policy to reflect that vehicular parking shall comply with applicable County, state and federal requirements including ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.

Code		Comment	Referenced Standard	Recommendation
Sec. 38-1741(a)	Site and development standards	Policy currently does not address that sidewalk shall comply with ADA.	28 CFR 35 Subpart D, 35.151, 2010 ADA, 2012 FBC 206, 402, 403, 302	Revise policy to reflect that sidewalks shall comply with applicable County, state and federal requirements including ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012. Also, consider including that existing sidewalks adjacent to the subject parcel shall be brought into ADA compliances at the time of redevelopment.
Sec. 38-1741(a)	Site and development standards	Policy currently does not address that sidewalk and vehicular parking shall comply with ADA.	28 CFR 35 Subpart D, 35.151, 2010 ADA, 2012 FBC 208, 501	Revise policy to reflect that vehicular parking shall comply with applicable County, state and federal requirements including ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
All Other Sections		All other sections were reviewed, and no comments in regards to ADA compliance are needed at this time.	N/A	N/A

6. Orange County Continuing Services Contract Documents

Orange County Continuing Service Contract Documents serve as a resource for Orange County to communicate project expectations and descriptions to consultants and contractors. Contracts for Construction Engineering, Right-of-Way Acquisition, Surveying and Mapping, and Stormwater services were evaluated. The recommended changes implemented are summarized in the following table:

Original Document Text	Comment	Referenced Standard	Recommendation	
Consultant shall comply with all Federal, State and local laws and ordinances applicable to the work or	Location: Section Standards of Conduct, Item B	28 CFR 35, Subpart B, 35.130		
payment for work thereof, and shall not discriminate on the grounds of race, color, religion, sex, or national origin in the performance of work under this Contract.	The paragraph does not include references to not discriminate on the grounds of disability, as mandated in the ADA of 1990. A Disability Nondiscrimination Affidavit, similar to the sample in the Appendix, could be added, as well.	General Prohibitions Against Discrimination	Revise section to reflect ADA Standards as updated in 2010.	
Proposers must not discriminate against any employee or applicant for	Location: Section Instructions to Proposers within subsection Terms and Conditions, Item 7	28 CFR 35, Subpart B, 35.130 General Prohibitions Against Discrimination	Revise section to reflect ADA Standards	
employment because of race, religion, color, sex, age or national origin.	The statement does not include reference to not discriminate on the grounds of disability, as mandated in the ADA of 1990.		as updated in 2010.	
The Bidder's attention is directed to the fact that all applicable Federal and State and local lows, municipal and	Location: Section C. Instructions to Bidders 13.Laws and Regulations		Revise section Section C. Instructions to	
State and local laws, municipal and county ordinances, and the rules and regulations of all authorities having jurisdiction over any part of the project shall apply to the Contract throughout, and they will be deemed to be included in the Contract the same as though herein written.	The Federal laws include Title II of the ADA as 28 Code of Federal Regulations (CFR) Part 35.151, that incorporates the 2004 ADAAG at 36 CFR part 1191, and appendices B and D. This is commonly referred to as the 2010 ADA standard and all of its requirements implied by the ADA.	28 CFR 35, part B, 35.151	Bidders 13. laws and regulations stating: "The Bidder's attention is directed to the fact that all applicable "Federal (including ADA) and State and local laws, municipal and county ordinances,"	

7. Orange County Roadway Conceptual Analysis, Design, and Construction Contract Documents

Orange County Roadway Conceptual Analysis, Design, and Construction Contract Documents serve as a resource for Orange County to communicate project expectations and descriptions to consultants and contractors during the planning, design, and construction of roadways. The recommended changes implemented are summarized in the following table:

Original Document Text	Comment	Referenced Standard	Recommendation
Consultant shall comply with all Federal, State and local laws and ordinances applicable to the work or payment for work thereof, and shall not discriminate on the grounds of race, color, religion, sex, or national origin in the performance of work under this Contract.	Location: Section Standards of Conduct, Item B The paragraph does not include references to not discriminate on the grounds of disability, as mandated in the ADA of 1990. A Disability Nondiscrimination Affidavit, similar to the sample in the Appendix, could be added, as well.	28 CFR 35, Subpart B, 35.130 General Prohibitions Against Discrimination	Revise section to reflect ADA Standards and policy as updated in 2010.
Proposers must not discriminate against any employee or applicant for employment because of race, religion, color, sex, age or national origin.	Location: Section Instructions to Proposers within subsection Terms and Conditions, Item 7 The statement does not include reference to not discriminate on the grounds of disability, as mandated in the ADA of 1990.	28 CFR 35, Subpart B, 35.130 General Prohibitions Against Discrimination	Revise section to reflect ADA Standards as updated in 2010.

Original Document Text	Comment	Referenced Standard	Recommendation
The Bidder's attention is directed to the fact that all applicable Federal and State and local laws, municipal and county ordinances, and the rules and regulations of all authorities having jurisdiction over any part of the project shall apply to the Contract throughout, and they will be deemed to be included in the Contract the same as though herein written.	Location: Section C. Instructions to Bidders 13.Laws and Regulations The Federal laws include Title II of the ADA as 28 Code of Federal Regulations (CFR) Part 35.151, that incorporates the 2004 ADAAG at 36 CFR part 1191, and appendices B and D. This is commonly referred to as the 2010 ADA standard and all of its requirements implied by the ADA.	28 CFR 35, part B, 35.151	Revise section Section C. Instructions to Bidders 13. laws and regulations stating "The Bidder's attention is directed to the fact that all applicable "Federal (including ADA) and State and local laws, municipal and county ordinances,"
	The contract does not have language specifically stating that the ADA requires that alterations affecting the primary use of the road such as milling and resurfacing shall be made so alterations, to the maximum extent feasible, the path of travel to the altered area is accessible unless it is disproportionate to the cost of the overall alteration	28 CFR 35, Subpart B, 35.1519(b) Alterations	Revise Section C, Instructions to Bidders, Laws and Regulations and policy Section H – Technical Specifications to reflect ADA Standards (supplemental information provided in the next section for reference).

8. Roadway and Drainage Asphalt Milling and Resurfacing Contract Documents

Specific information about ADA compliance and its related responsibilities for milling and resurfacing could also be included under the Roads and Drainage Milling and Resurfacing Contract, Section H - Technical Specifications. Sample language for inclusion is represented below, which identifies the key points that are recommended for inclusion in the contract documents.

County Contract Section 2.5: Milling

Section 35.151 of 28 Code of Federal Regulations (CFR) Part (b) Alterations (1) requires that each facility or part of a facility altered by, or on behalf of, or for the use of a public entity in a manner that affects or could affect the usability of the facility or part of the facility shall, to the maximum extent feasible, be altered in such a manner that the altered portion of the facility is readily accessible to and usable by individuals with disabilities, unless the cost and scope of such alteration is disproportionate to the cost of the overall alteration.

Based on the path of travel requirement contained in 28 CFR part 35.151, resurfacing is an alteration that triggers the requirement to add curb ramps if it involves work on a street or roadway spanning from one intersection to another, and includes overlays of additional material to the road surface, with or without milling. Examples include, but are not limited to the following treatments or their equivalents: addition of a new layer of asphalt, reconstruction, concrete pavement rehabilitation and reconstruction, open-graded surface course, micro-surfacing and thin lift overlays, cape seals, and in-place asphalt recycling. Crosswalks constitute distinct elements of the right-of-way intended to facilitate pedestrian traffic. Regardless of whether there is curb-to-curb resurfacing of the street or roadway in general, resurfacing of a crosswalk also requires the provision of curb ramps at that crosswalk.

In addition, curb ramps are needed wherever a sidewalk or other pedestrian walkway crosses a curb. Curb ramps must be located to ensure a person with a mobility disability can travel from a sidewalk on one side of the street, over or through any curbs or traffic islands, to the sidewalk on the other side of the street. However, the ADA does not require installation of ramps or curb ramps in the absence of a pedestrian walkway with a prepared surface for pedestrian use. Nor are curb ramps required in the absence of a curb, elevation, or other barrier between the street and the walkway. Based on these requirements, ADA improvements are required to be completed as a part of this project type, or a companion curb ramp improvement project can be completed along with the subject resurfacing project.

8.1 Treatments Considered as Alterations of the Road Surface

- Reconstruction Reconstruction refers to removing all or a significant portion of the pavement material and replacing it with new or recycled materials. This may include full-depth reclamation, where the pavement surface is demolished in place and new pavement surface is applied. In addition, reconstruction may also include grinding up a portion of the pavement surface, recycling it and placing it back, and then adding a wearing surface, such as in cold in-place asphalt recycling. Reconstruction often includes widening or geometrical changes to the roadway profile.
- Rehabilitation Rehabilitation refers to significant repairs made to a road or highway surface, including activities such as full slab replacement, filling voids under slabs (slabjacking), widening, and adding additional structural capacity.
- Open-graded surface course Open-graded surface course, also known as "open-graded friction course," involves a pavement surface course that consists of a high-void, asphalt concrete mix that permits rapid drainage of rainwater through the course and off the shoulder of the road. The mixture consists of either Polymer-modified or rubber-modified asphalt binder, a large percentage of one-sized coarse aggregate, and a small amount of fibers. This treatment prevents tires from hydroplaning and provides a skid-resistant pavement surface with significant noise reduction.
- Microsurfacing Microsurfacing involves spreading a properly proportioned mixture of polymer modified asphalt emulsion, mineral aggregate, mineral filler, water, and other additives, on a paved surface. Microsurfacing differs from slurry seal in that it can be used on high volume roadways to correct wheel path rutting and provide a skid resistant pavement surface.
- Thin lift overlays Thin lift overlays are thin applications of mixtures of hot mix asphalt.
 Thin lift overlays may also require some milling along curbs, manholes, existing curb cuts, or other road structures to assure proper drainage and cross slopes.
- Cape seal A cape seal is a thin surface treatment constructed by applying a slurry seal or microsurfacing to a newly constructed chip seal. It is designed to be an integrated system where the primary purpose of the slurry is to fill voids in the chip seal.
- In-place asphalt recycling In-place asphalt recycling is a process of heating and removing around 1-2 inches of existing asphalt and remixing the asphalt with the addition of a binder additive and possible aggregate to restore the wearing surface for placement and compaction. All of this is performed in a train of equipment.

8.2 Treatments Considered as Maintenance of the Road Surface

Treatments that serve solely to seal and protect the road surface, improve friction, and control splash and spray are considered to be maintenance because they do not significantly affect the public's access to or usability of the road. Some examples of the types of treatments that would normally be considered maintenance are: painting or striping lanes, crack filling and sealing, surface sealing, chip seals, slurry seals, fog seals, scrub sealing, joint crack seals, joint repairs, dowel bar retrofit, spot high-friction treatments, diamond grinding, and pavement patching. In some cases, the combination of several maintenance treatments occurring at or near the same time may qualify as an alteration and would trigger the obligation to provide curb ramps.

- Crack filling and sealing Crack filling and sealing involves placing elastomeric material directly into cracks in pavement.
- Surface sealing Surface sealing involves applying liquid sealant to pavement surface in order to stop water penetration and/or reduce oxidation of asphalt products. Sand is sometimes spread over liquid to absorb excess material.
- Chip seals Chip Seals involve placing graded stones (chips) on liquid emulsified asphalt sprayed on pavement surface. The surface is rolled to enable seating of chips.
- Slurry seal Slurry seals involve spraying a mixture of slow setting emulsified asphalt, well graded fine aggregate, mineral filler, and water on the pavement surface. It is used to fill cracks and seal areas of old pavements, to restore a uniform surface texture, to seal the surface to prevent moisture and air intrusion into the pavement, and to improve skid resistance.
- Fog seals Fog seals are a type of surface sealing.
- Scrub sealing Scrub sealing is a type of surface sealing
- Joint crack seals Joint crack seals are usually associated with concrete pavement. This
 work consists of routing and cleaning existing cracks and joints and resealing to prevent
 water and non-compressible materials from entering into the pavement joints and
 subgrade materials.
- Joint repairs Joint repairs are usually associated with concrete pavement. This work consists of selectively repairing portions of the pavement where the slabs are generally in good condition, but corners or joints are broken. The depth of the patch could be full depth or partial depth.
- Dowel retrofit Dowel retrofits are usually associated with concrete pavement. This work involves the installation of dowel bars connecting slabs in existing pavements.

Pavement with dowel bar retrofits can have life extensions of as much as 20 years. Its application is almost exclusively on high-speed Interstate highways.

- Spot high-friction treatments Spot high-friction treatments involve using epoxy based resin liquids as a binder for an aggregate with high-friction properties. These are used in locations where drivers are frequently braking and the pavement surface has less resistance to slipping.
- Diamond grinding Diamond grinding involves using a gang saw to cut grooves in the pavement surface to restore smoothness and eliminate any joint faulting.
- Pavement patching Pavement patching involves selectively repairing portions of the pavement where the slabs are generally in good condition, but corners or joints are broken. The depth of the patch could be full depth or partial depth.

8.3 Additional Technical Information

Additional information about the applications and technical specifications of ADA compliance in regards to the resurfacing or alteration of streets, roads, or highways is provided by the <u>Department of Justice/Department of</u> <u>Transportation Joint Technical Assistance on the Title II of the Americans with Disabilities Act</u> and the <u>Q&A</u> <u>Supplement to the DOJ/DOT Joint Technical Assistance on Resurfacing</u>. Additional information regarding sidewalks is provided in the <u>2006 ADA Standards for Transportation Facilities (49 CFR 37.9(a))</u>.

9. Sidewalk Construction Contract Documents

Sidewalk Construction Contract documents serve as a resource for Orange County to communicate project expectations and descriptions to contractors during the construction of sidewalks within the County. The recommended changes implemented are summarized in the following table:

Original Document Text	Comment	Referenced Standard	Recommendation
Consultant shall comply with FDOT's standards.	The paragraph does not include references to ADA, FHWA and MUTCD.	28 CFR 35, Subpart B, 35.130 General Prohibitions Against Discrimination	Revise section to reflect ADA Standards as updated in 2010, and PROWAG issued 2011 (best practice).
The Bidder's attention is directed to the fact that all applicable Federal and State and local laws, municipal and county ordinances, and the rules and regulations of all authorities having jurisdiction over any part of the project shall apply to the Contract throughout, and they will be deemed to be included in the Contract the same as though herein written.	Location: Section C. Instructions to Bidders 13.Laws and Regulations The Federal laws include Title II of the ADA as 28 Code of Federal Regulations (CFR) Part 35.151, that incorporates the 2004 ADAAG at 36 CFR part 1191, and appendices B and D. This is commonly referred to as the 2010 ADA standard and all of its requirements implied by the ADA.	28 CFR 35, part B, 35.151	Revise Section C. Instructions to Bidders 13. laws and regulations stating: "The Bidder's attention is directed to the fact that all applicable "Federal (including ADA) and State and local laws, municipal and county ordinances,"
	The documents do not reference addressing scenarios regarding the retrofit of ADA features to current standards, if located within the project boundaries.	Orange County ADA Transition Plan	Revise contract language to include a section regarding Orange County's procedure for addressing ADA retrofit projects and expectations for the outcome of the retrofit.

10. Community Services Program Accessibility and Facility Checklist

The Community Services Program Accessibility and Facility Checklist serves as a resource for Orange County to evaluate ADA features in regards to current ADA standards. The original checklist is located in the appendix for reference. It is recommended that this document be adopted by Public Works and updated for future Department use by implementing the recommendations in the following table:

Original Document Text	Comment	Referenced Standard	Recommendation
Are an adequate number of accessible parking spaces available (8 feet wide for car plus 5 foot striped access aisle)?	The current FBC/FDOT standard is a 12' parking space.	2012 FBC sec. 208, 502.2	Revise text to reflect ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
At least one of every 8 accessible spaces must be van accessible.	The current FBC/FDOT standard is that one of every 6 accessible spaces must be van accessible.	28 CFR 35 Subpart D, 35.151, 2010 ADA, 2012 FBC sec. 208.2.4, 502.3.1	Revise text to reflect ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
	Fines for illegally parking in an accessible space must be posted, per FBC standards.	2012 FBC sec. 208, 502.6	Revise text to reflect ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
Overall document	The checklist is based on the original 1990 ADA standards and should be updated to reflect current standards.	28 CFR 35 Subpart D, 35.151, 2010 ADA, 2012 FBC	Revise text to reflect ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012. (An alternative is to use the ADA Checklist for Existing Facilities issued by the New England ADA Center found at http://www.adachecklist.org/). It must be noted that it is still necessary to incorporate FBC Accessibility Code specific requirements to this checklist.

11. ADA Sidewalk Curb Ramp Inspection Checklist

The ADA Sidewalk Curb Ramp Inspection Checklist serves as a resource for Orange County to evaluate ADA features in regards to current ADA standards. The original checklist is located in the appendix for reference. It is recommended that this document be adopted by Public Works and updated for future Department use by implementing the recommendations in the following table:

Original Document Text	Comment	Referenced Standard	Recommendation
Diagonal ramps meet the following criteria: Have at minimum a level of 5' x 5' landing at the top and at minimum a 48" clear space at the bottom of the ramp If a crosswalk is present, the clear space is contained within the crosswalk. If the flared sides are within the pedestrian pathway, the slopes of the flares are 10% or less.	Diagonal ramps are no longer allowed under current ADA standards.	2012 FBC sec. 206, 406.4, 406.6	Revise text to reflect ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
The ramp is not less than 36" wide at the bottom.	FBC requires curb ramps that are part of the path of travel from accessible parking spaces should be at least 44" wide at the base. FDOT Design Standards require a 48" wide curb ramp at the bottom.	2012 FBC sec. 206, 406, 502.3	Revise text to reflect ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.
Overall document	The checklist is based on the original 1990 ADA standards and should be updated to reflect current standards.	28 CFR 35 Subpart D, 35.151, 2010 ADA, 2012 FBC	Revise text to reflect ADA Standards as updated in 2010 and the FBC Accessibility Code as updated in 2012.

12. All Potential Corridors Ranked for Initial Data Collection (2015) as Identified by the Orange County Capital Improvement Program

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 12/13	12th Avenue	N. 5th Street	CR-13	0.162	Level 2
FY 12/13	13th Avenue	N. 5th Street	CR-13	0.176	Level 2
FY 12/13	14th Avenue	N. 5th Street	CR-13	0.190	Level 2
FY 12/13	15th Avenue	N. 5th Street	CR-13	0.205	Level 2
FY 12/13	18th Street	Westmoreland Dr	Hwy 441	0.252	Level 2
FY 12/13	1st Street	Downs Cove Road	Alley Street	0.028	Level 2
FY 12/13	20th Street	Westmoreland Dr	Hwy 441	0.253	Level 2
FY 14/15	Abbott Court	Off of University Blvd.	(Watermill North Ave.)	0.043	Level 2
FY 12/13	Abercorn Drive			0.076	Level 2
FY 14/15	Abernant Court	Off of Isle of Wright Drive	(Blackheath Circle)	0.026	Level 1
FY 12/13	Abigail Street	Selected roads		0.056	Level 2
FY 12/13	Acacia Road			0.099	Level 2
FY 15/16	Academic Drive	Sea Harbor Dr	Westwood Blvd.	0.197	Level 3
FY 12/13	Acoma Drive			0.339	Level 2
FY 13/14	Addie Avenue	Off of Balboa Drive	(Rangewood Blvd.)	0.059	Level 2
FY 14/15	Agate Lane	Off of N. Forsyth Road	(Partridge Lane / Dorris Drive)	0.063	Level 2
FY 14/15	Alabama Woods Lane	Off of E. Wetherbee Road	(Club Woods Drive)	0.371	Level 1
FY 15/16	Aladdin Drive	Off of Clarcona Ocoee Road	(Chet Drive / Aladdin Drive)	0.322	Level 3
FY 14/15	Alafaya Woods Court	N. Alafaya Trail	Dead End	0.222	Level 2
FY 13/14	Alamosa Court	Off of Greenacre Road	(Mink Drive, North & South	0.066	Level 2
FY 14/15	Alaska Woods Lane	Off of E. Wetherbee Road	(Club Woods Drive)	0.180	Level 1
FY 13/14	Allamanda Court	Off of Whisper Lakes Blvd.	(Whispering Tree Ave.)	0.050	Level 2
FY 12/13	Allamanda Street			0.110	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Alley 5	Off of N. Forsyth Road	(Partridge Lane / Dorris Drive)	0.219	Level 2
FY 14/15	Allison Drive	Off of Bonneville Drive	(Allison / Hertha / Spraque)	0.390	Level 2
FY 12/13	Allwood Place			0.141	Level 2
FY 14/15	Alton Avenue	Adanson Street	Eli Street	0.252	Level 2
FY 13/14	Ambergate Road	Both sides of Aloma Ave.	(Balfour Drive)	0.510	Level 2
FY 13/14	Ambrosia Court	Off of Greenacre Road	(Mink Drive, North & South	0.060	Level 2
FY 14/15	Amethyst Lane	Off of N. Forsyth Road	(Partridge Lane / Dorris Drive)	0.125	Level 2
FY 12/13	Amidon Lane	Sheryl Ann Dr	Calypso Dr	0.135	Level 2
FY 14/15	Amity Court	Off of University Blvd.	(Watermill North Ave.)	0.039	Level 2
FY 13/14	Amsden Road	Both sides of Aloma Ave.	(Balfour Drive)	0.327	Level 2
FY 14/15	Andrea Jane Lane	N. Forsyth Road	Dead End	0.096	Level 2
FY 14/15	Andreozzi Lane	Off of Fiquette Road	(Fossick Road)	0.185	Level 2
FY 14/15	Appleby Court	Off of University Blvd.	(Watermill North Ave.)	0.036	Level 2
FY 14/15	Arbor Court	Off of N. Econlockhatchee	(Montello Drive)	0.161	Level 1
FY 14/15	Arc Drive	Off of Bonneville Drive	(Allison / Hertha / Spraque)	0.146	Level 2
FY 14/15	Arcadia Street	S. Fern Creek Ave.	Dead End	0.120	Level 2
FY 13/14	Ardenwood Court	Powers Drive	Cul-De-Sac	0.100	Level 2
FY 14/15	Arizona Woods Lane	Off of E. Wetherbee Road	(Club Woods Drive)	0.136	Level 1
FY 14/15	Arkansas Woods Court	Off of E. Wetherbee Road	(Club Woods Drive)	0.054	Level 1
FY 14/15	Arndt Street	Off of E. Colonial Drive	(Melanie Drive / Selma Ave.)	0.151	Level 2
FY 13/14	Arrowsmith Avenue	Off of O.B.T & Sand Lake	(Jordan Ave. / Skyview Drive)	0.266	Level 2
FY 14/15	Arundel Drive	Off of Vernon Street / Powers	(Hart Blvd. / Moore Street)	0.248	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Ascot Circle	Off of Valencia College Lane	Fenwick Drive / Chickasaw Trail	0.257	Level 2
FY 13/14	Ashington Pointe Drive	Off of Rhode Island Woods	(Carey Glen Circle)	0.158	Level 2
FY 14/15	Ashley Court	Off of Valencia College Lane	Fenwick Drive / Chickasaw Trail	0.018	Level 2
FY 14/15	Ashley Lane	Off of Valencia College Lane	Fenwick Drive / Chickasaw Trail	0.141	Level 2
FY 14/15	Ashmount Drive	Off of Avalon Park Blvd.	(Red Mangrove Drive)	0.116	Level 2
FY 14/15	Astronaut Boulevard	Central Florida Parkway	Gemini Blvd.	0.288	Level 2
FY 15/16	Atherton Drive	Off of Wyndham Lakes Blvd.	(Atherton Drive)	0.353	Level 3
FY 14/15	Attica Lane	Off of Redditt Road	(Gibraltar Road / Pompeii Road)	0.086	Level 2
FY 14/15	Auburn Cove Lane	Off of Avalon Park Blvd.		0.056	Level 2
FY 13/14	August Lane	S. Orange Blossom Trail	Florida Mall Ave.	0.108	Level 2
FY 14/15	Avalon Lake Drive	Off of Avalon Park Blvd.		0.201	Level 2
FY 14/15	Avalon Park East Boulevard	Off of Avalon Park Blvd.	(Lake Live Oak Drive)	0.145	Level 2
FY 14/15	Avalon Park East Boulevard	Off of Avalon Park Blvd.		0.576	Level 2
FY 14/15	Avalon Park West Boulevard	Off of Avalon Park Blvd.	(Lake Live Oak Drive)	0.044	Level 2
FY 14/15	Avalon Park West Boulevard	Off of Avalon Park Blvd.		0.636	Level 2
FY 13/14	Avleigh Circle	Off of Landstar Blvd.	(Misley Drive)	0.561	Level 2
FY 13/14	Avonlea Court	Off of Rhode Island Woods	(Whooping Crane Lane)	0.045	Level 1
FY 14/15	Ayres Drive	Off of E. Wetherbee Road	(Ayres Drive / Pathrick Drive)	0.240	Level 2
FY 13/14	Azalea Drive	Off of Corrine Drive	(Woodlawn Drive)	0.093	Level 2
FY 12/13	Baffie Avenue	Minnesota Ave.	Dead End	0.223	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Balboa Drive	Good Homes Road	Hiawassee Road	1.862	Level 2
FY 14/15	Balcombe Road	Town Center Blvd.	W. Wetherbee Road	1.555	Level 2
FY 13/14	Balfour Drive	Both sides of Aloma Ave.	(Balfour Drive)	0.430	Level 2
FY 15/16	Bancroft Boulevard	Macon Parkway, Dead End	Starry Street	4.524	Level 1
FY 12/13	Barbados Avenue	Selected roads		0.330	Level 2
FY 12/13	Barbados Avenue	Selected roads		0.191	Level 2
FY 15/16	Barberry Road	Magnolia Homes / Forest City	Doctor Love Rd. / Kelvington Dr.	0.124	Level 3
FY 13/14	Barclay Drive	Both sides of Aloma Ave.	(Balfour Drive)	0.084	Level 2
FY 12/13	Bardston Avenue	Off of S. Orange Blossom Trail	Bardston Ave.	0.053	Level 2
FY 14/15	Bardwell Court	Off of Kelly Park Road	(Katilynn Drive)	0.083	Level 2
FY 15/16	Barnett Place	Santa Anita Street	Emeralda Road	0.201	Level 1
FY 15/16	Bart Street	Magnolia Homes / Forest City	Doctor Love Rd. / Kelvington Dr.	0.030	Level 3
FY 15/16	Barwick Street	Off of Wyndham Lakes Blvd.	(Barwick Street / Callaway Drive)	0.135	Level 3
FY 13/14	Bastings Avenue	Meredith Parkway	Majestic Street	0.504	Level 2
FY 12/13	Bay Springs Drive	Apopka Vineland Rd	Cul-de-sac	0.120	Level 2
FY 15/16	Bay Tree Drive	Off of Lake Margaret Drive	(Brandywine / Bay Tree Drive)	0.251	Level 3
FY 12/13	Bay Valley Court	Bay Springs Dr	Cul-de-sac	0.052	Level 2
FY 15/16	Bayamon Lane	Off of Clarcona Ocoee Road	(Chet Drive / Aladdin Drive	0.170	Level 3
FY 14/15	Bayfront Parkway	Off of Pershing Rd	(Bayfront Pkwy/Harbour Dr)	0.305	Level 1
FY 14/15	Bayhead Court	Off of El Prado	(Casa Rio Drive / Doral Road)	0.044	Level 2
FY 14/15	Beach Avenue	Ocoee Apopka Road	Fernandez Lane	0.356	Level 2
FY 12/13	Beach Boulevard	Zell Drive	City joint	0.459	Level 2
FY 15/16	Beagle Street	Off of N. Hiawassee Road	(Hiawassee Oak Drive)	0.156	Level 3

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 13/14	Beaming Court	Off of Beggs Road	(Sparkling Lane)	0.024	Level 2
FY 14/15	Beaumont Avenue	Off of North Lane	(Wendy Drive)	0.185	Level 2
FY 13/14	Beckingham Place	Off of S. Apopka Vineland Rd.	(Camberley Circle)	0.118	Level 1
FY 14/15	Beggs Road	Mott Ave.	Eden Park Road	0.188	Level 2
FY 13/14	Belco Drive	Silver Star Road	Pine Hills Road	0.325	Level 2
FY 15/16	Ben Hogan Circle	N. Hastings Street	Dead End	0.153	Level 1
FY 14/15	Ben Rogers Court	Off of Mark Twain Blvd.	(Lower River Blvd.)	0.036	Level 2
FY 13/14	Bending Branch Court	Off of Landstar Blvd.	(Twelve Oaks Drive)	0.161	Level 1
FY 14/15	Benito Juarez Circle	Off of N. Hermit Smith Road	(Benito Juarez Circle)	0.330	Level 2
FY 14/15	Bentry Street	Off of E. Wetherbee Road	(Ayres Drive / Pathrick Drive)	0.761	Level 2
FY 15/16	Beulah Road	SR 50	Reaves Rd	1.370	Level 3
FY 14/15	Big Oaks Lane	Gatlin Ave.	Round-A-Bout	0.166	Level 2
FY 14/15	Binfield Court	Off of Isle of Wright Drive	(Tiptree Circle)	0.137	Level 1
FY 12/13	Bird Lane	Windy Ridge Road	Cul-De-Sac	0.080	Level 2
FY 14/15	Biscayne Drive	Off of W. Fairbanks Ave.	Formosa Ave. / Ohio St. / Clay St.	0.347	Level 2
FY 13/14	Bison Circle	Off of N. Thompson Road	(Yvonne Street)	0.489	Level 2
FY 14/15	Blackheath Circle	Off of Isle of Wright Drive	(Blackheath Circle)	0.566	Level 1
FY 14/15	Blackmoor Drive	Off of Isle of Wright Drive	(Blackmoor Dr / Monktun Rd)	0.441	Level 1
FY 14/15	Blazing Star Drive	Off of Avalon Park Blvd.	(Lake Live Oak Drive)	0.171	Level 2
FY 15/16	Bloodhound Street	Off of N. Hiawassee Road	(Hiawassee Oak Drive)	0.185	Level 3
FY 13/14	Blue Earth Court	N. Hiawassee Road	Cul-De-Sac	0.222	Level 2
FY 14/15	Blue Heron Drive	Off of W. Fairbanks Ave.	Formosa Ave. / Ohio St. / Clay St.	0.131	Level 2
FY 14/15	Blue Lagoon Way	Off of Lake Underhill Road	(Blue Water Circle)	0.317	Level 2
FY 14/15	Bluemoon Court	Off of Lake Underhill Road	(Blue Water Circle)	0.018	Level 2
FY 14/15	Bluewater Circle	Off of Lake Underhill Road	(Blue Water Circle)	0.773	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 13/14	Bob Cat Court	Off of N. Thompson Road	(Yvonne Street)	0.066	Level 2
FY 15/16	Bobby Jones Road	Sarazen Drive	Dead End	0.027	Level 1
FY 15/16	Boca Woods Drive	Off of Lake Price Drive	(Boca Woods Drive)	0.667	Level 3
FY 14/15	Boggy Oak Lane	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.)	0.157	Level 2
FY 14/15	Boggy Pointe Drive	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.	0.616	Level 2
FY 14/15	Boggy View Drive	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.	0.096	Level 2
FY 13/14	Boice Street	Off of O.B.T & Sand Lake	(Jordan Ave. / Skyview Drive)	0.284	Level 2
FY 15/16	Bon Air Drive	Off of Silver Star Road	(Summer Glen Drive)	0.136	Level 3
FY 13/14	Bongart Road	Both sides of Aloma Ave.	(Balfour Drive)	0.481	Level 2
FY 12/13	Bonifay Avenue			0.319	Level 2
FY 15/16	Bordwine Drive	Off of Silver Star Road	(Silver Ridge Drive)	0.479	Level 3
FY 15/16	Boxelder Drive	Off of Silver Star Road	(Summer Glen Drive)	0.023	Level 3
FY 14/15	Boxeney Court	Off of Isle of Wright Drive	(Goodwyck Drive / Ipsden Drive)	0.013	Level 1
FY 14/15	Boxeney Drive	Off of Isle of Wright Drive	(Goodwyck Drive / Ipsden Drive)	0.110	Level 1
FY 13/14	Boyd Avenue	Off of Corrine Drive	(Woodlawn Drive)	0.093	Level 2
FY 14/15	Bradwater Court	Off of Lake Underhill Road	(Lexingdale Drive)	0.040	Level 2
FY 13/14	Bramble Way Lane	Off of Lake Underhill Road	(Pine Arbor Drive)	0.042	Level 2
FY 14/15	Brampton Court	Off of N. Econlockhatchee	(Montello Drive)	0.136	Level 1
FY 14/15	Brandon Coates Drive	Off of Avalon Park Blvd.		0.065	Level 2
FY 15/16	Brandywine Drive	Off of Lake Margaret Drive	(Brandywine / Bay Tree Drive)	0.250	Level 3
FY 14/15	Bransford Court	Off of Kelly Park Road	(Katilynn Drive)	0.083	Level 2
FY 15/16	Braywood Trail	Off of Wyndham Lakes Blvd.	(Mountleigh Trail)	0.421	Level 3
FY 14/15	Breeze Way	Cosmos Drive	Yellow Speed Bump / End	0.164	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 13/14	Brenham Court	Off of Whisper Lakes Blvd.	(Fairmont Circle)	0.082	Level 2
FY 14/15	Brenna Place	E. Colonial Drive	Dead End	0.136	Level 2
FY 15/16	Brewerton Lane	Off of Wyndham Lakes Blvd.	(Brewerton Lane)	0.255	Level 3
FY 13/14	Briana Court	Off of Whisper Lakes Blvd.	(Ottawa Ave.)	0.029	Level 2
FY 14/15	Bridgewater Drive	Off of University Blvd.	(Watermill North Ave.)	0.376	Level 2
FY 13/14	Brightwell Court	Off of Landstar Blvd.	(Misley Drive)	0.107	Level 2
FY 14/15	Brimton Drive	Off of N. Econlockhatchee	(Montello Drive)	0.198	Level 1
FY 14/15	Brindle Street	Off of E. Wetherbee Road	(Ayres Drive / Pathrick Drive)	0.091	Level 2
FY 13/14	Bristol Park Drive	Off of S. Apopka Vineland Rd.	(Bristol Park Drive)	0.211	Level 2
FY 15/16	Britan Drive	Off of Lake Sparling Road	(England Ave.) Micro	0.351	Level 1
FY 14/15	Broad Oak Court	Off of Isle of Wright Drive	(Goodwyck Drive / Ipsden Drive)	0.085	Level 1
FY 13/14	Brockbank Drive	Off of O.B.T & Sand Lake	(Jordan Ave. / Skyview Drive)	0.257	Level 2
FY 14/15	Broderick Drive	Off of Kelly Park Road	(Katilynn Drive)	0.029	Level 2
FY 13/14	Brogden Court	Percival Road	Cul-De-Sac	0.035	Level 2
FY 14/15	Broken Cypress Lane	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.)	0.074	Level 2
FY 13/14	Brokerage Drive	Directors Row	Titan Row	0.354	Level 2
FY 13/14	Bromley Road	Both sides of Aloma Ave.	(Balfour Drive)	0.107	Level 2
FY 13/14	Brook Hollow Drive	Off of Rhode Island Woods	(Whooping Crane Lane)	0.547	Level 1
FY 15/16	Brookdale Court	Off of Lake Price Drive	(Boca Woods Drive)	0.083	Level 3
FY 15/16	Brookstone Court	Off of Lake Price Drive	(Boca Woods Drive)	0.121	Level 3
FY 15/16	Brookvale Drive	Off of Reams Road	(Newmarket Drive)	0.112	Level 3
FY 13/14	Browning Avenue	Off of O.B.T & Sand Lake	(Jordan Ave. / Skyview Drive)	0.208	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 15/16	Brunswood Way	Off of Wyndham Lakes Blvd.	(Barwick Street / Callaway Drive)	0.266	Level 3
FY 12/13	Bryan Road	Goldenrod Rd	Pine Crossing Cir	0.268	Level 2
FY 14/15	Buckwater Court	Off of Rouse Road	(Rivers End Road)	0.061	Level 2
FY 14/15	Buena Vista Court	Off of Vernon Street / Powers	(Hart Blvd. / Moore Street)	0.097	Level 2
FY 12/13	Bunting Avenue			0.278	Level 2
FY 12/13	Burris Court	Winter Garden / Vineland Road	Cul-De-Sac	0.127	Level 2
FY 14/15	Burryport Drive	Off of Isle of Wright Drive	(New Chapel Drive / Burryport)	0.072	Level 1
FY 15/16	Business Center Boulevard	N. John Young Parkway	Triumph Court	0.106	Level 3
FY 14/15	Butternut Boulevard	Off of University Blvd.	(Watermill North Ave.)	0.036	Level 2
FY 12/13	Buttonwood Street			0.299	Level 2
FY 14/15	Buxton Court	Off of N. Econlockhatchee	(Montello Drive)	0.122	Level 1
FY 13/14	Byron Street	Trevarthon Road	Dead End	0.248	Level 2
FY 14/15	Bywood Road	Orwood Road	Caywood Circle / Micro Joint	0.137	Level 2
FY 15/16	Cableshire Way	Off of Caneel Bay Blvd.	(Strandhill St. / Crosston Cir.)	0.231	Level 3
FY 15/16	Cableshire Way	Off of Wyndham Lakes Blvd.	(Barwick Street / Callaway Drive)	0.473	Level 3
FY 14/15	California Woods Circle	Off of E. Wetherbee Road	(Club Woods Drive)	0.589	Level 1
FY 14/15	California Woods Court	Off of E. Wetherbee Road	(Club Woods Drive)	0.033	Level 1
FY 15/16	Callaway Drive	Off of Wyndham Lakes Blvd.	(Barwick Street / Callaway Drive)	0.090	Level 3
FY 12/13	Calwood Court			0.043	Level 2
FY 12/13	Calypso Drive	Amidon Ln	Lancaster Rd	0.250	Level 2
FY 13/14	Camberley Circle	Off of S. Apopka Vineland Rd.	(Camberley Circle)	0.826	Level 1
FY 15/16	Camrose Court	Off of N.Powers Drive	(Fox Briar Trail) Micro	0.079	Level 1

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Camus Lane	Off of E. Wetherbee Road	(Ayres Drive / Pathrick Drive)	0.097	Level 2
FY 12/13	Canada Avenue	Sand Lake Road	Carrier Drive	0.421	Level 2
FY 14/15	Cane Pole Court	Off of Mark Twain Blvd.	(Lower River Blvd.)	0.047	Level 2
FY 14/15	Cannon Drive	Off of University Blvd.	(Watermill North Ave.)	0.214	Level 2
FY 14/15	Canovia Avenue	Harold Street	Adanson Street	0.126	Level 2
FY 14/15	Canovia Avenue	Adanson Street	Eli Street	0.252	Level 2
FY 13/14	Cantora Court	Off of Whisper Lakes Blvd.	(Ottawa Ave.)	0.015	Level 2
FY 14/15	Canyon De Chelley Court	Off of Lake Sparling Road	(Grand Coulee Road)	0.050	Level 2
FY 12/13	Caracas Avenue			0.387	Level 2
FY 13/14	Carcross Court	Off of Whisper Lakes Blvd.	(Ottawa Ave.)	0.048	Level 2
FY 14/15	Carew Avenue	Dead End	Dead End	0.145	Level 2
FY 14/15	Carew Avenue	Adanson Street	Lake Fair Lane	0.339	Level 2
FY 13/14	Carey Glen Circle	Off of Rhode Island Woods	(Carey Glen Circle)	0.795	Level 2
FY 14/15	Carlson Drive	Adanson Street	Dead End	0.252	Level 2
FY 14/15	Carlson Drive	Adanson Street	Eli Street	0.252	Level 2
FY 14/15	Carlton Drive	Bumby Ave.	Jessamine Ave.	0.063	Level 2
FY 14/15	Carolina Woods Lane	Off of E. Wetherbee Road	(Club Woods Drive)	0.222	Level 1
FY 14/15	Carriage Lake Drive	Off of Avalon Park Blvd.	(Red Mangrove Drive)	0.274	Level 2
FY 15/16	Carrickton Circle	Off of Wyndham Lakes Blvd.	(Salford Street)	0.562	Level 3
FY 13/14	Carrie Ann Court	Off of Vineland Road	(Cheryl Street)	0.098	Level 2
FY 12/13	Carrier Drive	I-Drive	City Limits	0.253	Level 2
FY 13/14	Carvell Court	Both sides of Aloma Ave.	(Balfour Drive)	0.029	Level 2
FY 13/14	Carvell Drive	Both sides of Aloma Ave.	(Balfour Drive)	0.657	Level 2
FY 14/15	Casa Rio Drive	Off of El Prado	(Casa Rio Drive / Doral Road)	0.306	Level 2
FY 14/15	Cassia Drive	Off of Avalon Park Blvd.	(Lake Live Oak Drive)	0.459	Level 2
FY 14/15	Cassia Drive	Off of Avalon Park Blvd.	(Red Mangrove Drive)	0.243	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 13/14	Cassiabark Court	Off of Whisper Lakes Blvd.	(Whispering Tree Ave.)	0.059	Level 2
FY 14/15	Castillo Court	Off of Redditt Road	(Gibraltar Road / Pompeii Road)	0.188	Level 2
FY 15/16	Castle Way Drive	Off of Windy Ridge Road	(Windsor Hill Drive)	0.264	Level 3
FY 13/14	Castleford Point	Off of S. Apopka Vineland Rd.	(Camberley Circle)	0.179	Level 1
FY 13/14	Castlewood Lane	Locke Ave.	Cul-De-Sac	0.199	Level 2
FY 14/15	Catfish Court	Off of Mark Twain Blvd.	(Lower River Blvd.)	0.013	Level 2
FY 14/15	Cats Claw Lane	Off of Avalon Park Blvd.		0.117	Level 2
FY 14/15	Caywood Circle	Ramir Road	Bywood Road	0.250	Level 2
FY 14/15	Centennial Drive	Off of North Lane	(Wendy Drive)	0.358	Level 2
FY 14/15	Center Square Drive	Off of Avalon Park Blvd.		0.115	Level 2
FY 14/15	Central Florida Parkway	S. Orange Blossom Trail	Rocket Blvd.	0.863	Level 2
FY 14/15	Central Florida Parkway	Rocket Blvd.	Dead End	0.956	Level 2
FY 12/13	Century Drive	Claude Ave	Delta St	0.186	Level 2
FY 13/14	Chadbourn Court	Off of Whisper Lakes Blvd.	(Fairmont Circle)	0.085	Level 2
FY 15/16	Chadderton Court	Off of Caneel Bay Blvd.	(Strandhill St. / Crosston Cir.)	0.057	Level 3
FY 15/16	Chadwick Court	Off of Silver Star Road	(Summer Glen Drive)	0.021	Level 3
FY 15/16	Cham Court	Off of Lake Sparling Road	(England Ave.) Micro	0.031	Level 1
FY 15/16	Chamonix Court	Off of Lake Sparling Road	(England Ave.) Micro	0.020	Level 1
FY 12/13	Charleswood Avenue			0.249	Level 2
FY 14/15	Charlin Parkway	Off of S. Goldenrod Road	(Charlin Parkway / East Side)	0.457	Level 2
FY 14/15	Chase Road	Main Street	Winter Garden Vineland Road	3.273	Level 2
FY 15/16	Chatham Woods Court	Clarcona Ocoee Road	Cul-De-Sac	0.094	Level 3
FY 13/14	Chaucer Lane	Off of O.B.T & Sand Lake	(Jordan Ave. / Skyview Drive)	0.286	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 13/14	Cheetah Trail	Off of N. Thompson Road	(Yvonne Street)	0.843	Level 2
FY 14/15	Cherry Oak Circle	Off of Suntree Blvd.	(Wyndcliff Cir. / Via Del Sol)	0.495	Level 2
FY 13/14	Cheryl Street	Off of Vineland Road	(Cheryl Street)	0.188	Level 2
FY 13/14	Chesterton Avenue	Off of O.B.T & Sand Lake	(Jordan Ave. / Skyview Drive)	0.166	Level 2
FY 14/15	Chestfield Court	Off of Isle of Wright Drive	(Ipsden Drive)	0.075	Level 1
FY 15/16	Chet Drive	Off of Clarcona Ocoee Road	(Chet Drive / Aladdin Drive)	0.119	Level 3
FY 13/14	Chevington Court	Off of Landstar Blvd.	(Misley Drive)	0.022	Level 2
FY 12/13	Chicadee Avenue			0.128	Level 2
FY 14/15	Chickasaw Farms Lane	Chickasaw Trail	Dead End	0.454	Level 2
FY 15/16	Chico Avenue	Off of Silver Star Road	(Silver Ridge Drive)	0.254	Level 3
FY 14/15	Chicora Crossing Boulevard	Off of Avalon Park Blvd.	(Red Mangrove Drive)	0.578	Level 2
FY 14/15	Chinaberry Drive	Off of North Lane	(Wendy Drive)	0.189	Level 2
FY 14/15	Chisbury Court	Off of Isle of Wright Drive	(Blackmoor Dr / Monktun Rd)	0.019	Level 1
FY 14/15	Chisbury Drive	Off of Isle of Wright Drive	(Blackmoor Dr / Monktun Rd)	0.115	Level 1
FY 14/15	Chort Alley	Off of Avalon Park Blvd.		0.055	Level 2
FY 14/15	Chris Lane	Off of Pershing Rd	(Bayfront Pkwy/Harbour Dr)	0.052	Level 1
FY 15/16	Christian Way	Off of N.Powers Drive	(Christian Way)	0.293	Level 3
FY 12/13	Cimarron Drive			0.512	Level 2
FY 15/16	Cinder Oak Way	Off of Great Commission Way	(Mossy Oak Drive)	0.086	Level 3
FY 13/14	Cinderlane Parkway	N. Orange Blossom Trail	Cul-De-Sac	0.243	Level 2
FY 14/15	Citation Drive	Off of S. Goldenrod Road	(Charlin Parkway / East Side)	0.053	Level 2
FY 14/15	Citrus Blossom Drive	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.	0.151	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 13/14	Citrus Hill Court	Off of Balboa Drive	(Woodman Way)	0.059	Level 2
FY 15/16	Citruswood Drive	Off of Great Commission Way	(Mossy Oak Drive)	0.417	Level 3
FY 14/15	Clacton Drive	Off of Isle of Wright Drive	(Blackheath Circle)	0.168	Level 1
FY 12/13	Claude Avenue	Semoran Blvd	Century Dr	0.119	Level 2
FY 14/15	Clay Street	Off of W. Fairbanks Ave.	Formosa Ave. / Ohio St. / Clay St.	0.160	Level 2
FY 13/14	Clinton Court	Off of Whisper Lakes Blvd.	(Fairmont Circle)	0.020	Level 2
FY 13/14	Cloudcroft Drive	Off of Greenacre Road	(Mink Drive, North & South	0.120	Level 2
FY 14/15	Club Woods Drive	Off of E. Wetherbee Road	(Club Woods Drive)	0.278	Level 1
FY 13/14	Cluster Drive	Off of Long Road	(Cluster Drive)	0.075	Level 2
FY 13/14	Cobalt Court	Off of Whisper Lakes Blvd.	(Ottawa Ave.)	0.081	Level 2
FY 12/13	Cobbleridge Court			0.031	Level 2
FY 14/15	Cochin Street	N. Alafaya Trail	Lancien Court	0.061	Level 2
FY 15/16	Cochita Drive	Emeralda Road	Dead End	0.093	Level 1
FY 14/15	Coconut Grove Lane	Culver Road	Dead End	0.158	Level 2
FY 15/16	Colbury Avenue	At end of Overstreet Road	(Londale Blvd.)	0.448	Level 3
FY 13/14	Coldwater Court	Off of Rhode Island Woods	(Whooping Crane Lane)	0.087	Level 1
FY 15/16	Colebrook Drive	Off of Silver Star Road	(Silver Ridge Drive)	0.269	Level 3
FY 15/16	Columbia Street	S. Ivey Lane	Bruton Blvd.	0.511	Level 3
FY 14/15	Cona Reef Court	Off of Clarcona Ocoee Road	(Cona Reef Court)	0.170	Level 2
FY 14/15	Connecticut Woods Court	Off of E. Wetherbee Road	(Club Woods Drive)	0.061	Level 1
FY 14/15	Consulate Drive	S. Orange Blossom Trail	Beachline Exit on Ramp	0.595	Level 2
FY 14/15	Conway Gardens Road	Gatlin Ave.	Curry Ford Road	2.004	Level 2
FY 14/15	Copperfield Court	Off of Valencia College Lane	Fenwick Drive / Chickasaw Trail	0.076	Level 2
FY 15/16	Coral Cove Drive	Off of Silver Star Road	(Silver Ridge Drive)	0.613	Level 3

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 15/16	Coralbrooke Grove	Off of Lake Price Drive	(Boca Woods Drive)	0.210	Level 3
FY 14/15	Cord Court	Off of Kelly Park Road	(Katilynn Drive)	0.078	Level 2
FY 14/15	Cornish Court	Off of University Blvd.	(Watermill North Ave.)	0.039	Level 2
FY 14/15	Corsica Court	Off of Redditt Road	(Gibraltar Road / Pompeii Road)	0.020	Level 2
FY 15/16	Cortez Drive	N. Hastings Street	N. Pine Hills Road	0.615	Level 1
FY 13/14	Cottoneaster Court	Off of Whisper Lakes Blvd.	(Whispering Tree Ave.)	0.042	Level 2
FY 13/14	Counselor Row	Orange Blossom Trail	Monetary Drive	0.117	Level 2
FY 14/15	Country Rose Lane	McCormick Road	Hill Drive	0.389	Level 2
FY 14/15	Courtland Street	Adanson Street	Pavement Joint	0.434	Level 2
FY 15/16	Courtney Street	Magnolia Homes / Forest City	Doctor Love Rd. / Kelvington Dr.	0.057	Level 3
FY 15/16	Courtown Court	Off of Caneel Bay Blvd.	(Strandhill St. / Crosston Cir.)	0.051	Level 3
FY 15/16	Covedale Court	Off of Silver Star Road	(Summer Glen Drive)	0.025	Level 3
FY 15/16	Covedale Drive	Off of Silver Star Road	(Summer Glen Drive)	0.404	Level 3
FY 15/16	Coyote Trail	Off of N.Powers Drive	(Fox Briar Trail) Micro	0.193	Level 1
FY 15/16	Coyote Trail	Off of N.Powers Drive	(Christian Way)	0.057	Level 3
FY 14/15	Crabtree Avenue	Westmont Drive	Dead End	0.224	Level 2
FY 14/15	Cranbourne Drive	Off of Isle of Wright Drive	(Goodwyck Drive / Ipsden Drive)	0.166	Level 1
FY 12/13	Crandon Avenue	Julian Street	Dead End	0.120	Level 2
FY 14/15	Crestline Street	S. Fern Creek Ave.	Dead End	0.122	Level 2
FY 14/15	Cresto Delsol Circle	Off of Suntree Blvd.	(Wyndcliff Cir. / Via Del Sol)	0.329	Level 2
FY 13/14	Crichton Lane	Gatlin Ave.	Cul-De-Sac	0.098	Level 2
FY 12/13	Crossbryn Court	Bryan Rd	Cul de sac	0.027	Level 2
FY 14/15	Crossen Drive	Off of S. Goldenrod Road	(Charlin Parkway / East Side)	0.237	Level 2
FY 13/14	Crosshair Circle	Off of Deerfield Blvd.	(Crosshair Circle)	0.397	Level 1

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 15/16	Crosston Bay Court	Off of Caneel Bay Blvd.	(Strandhill St. / Crosston Cir.)	0.235	Level 3
FY 15/16	Crosston Circle	Off of Caneel Bay Blvd.	(Strandhill St. / Crosston Cir.)	0.656	Level 3
FY 14/15	Crosswell Court	Off of Isle of Wright Drive	(Blackmoor Dr / Monktun Rd)	0.077	Level 1
FY 15/16	Crown Prince Lane	Off of Windy Ridge Road	(Windsor Hill Drive)	0.220	Level 3
FY 15/16	Cruxbury Drive	Off of Reams Road	(Newmarket Drive)	0.263	Level 3
FY 13/14	Crystal Bay Lane	Off of Avalon Park Blvd.	(Waterford Chase Parkway)	0.534	Level 2
FY 13/14	Crystal Clear Lane	August Lane	Summer Day Lane	0.269	Level 2
FY 13/14	Crystal Creek Boulevard	S. John Young Parkway	End, Green Emerald & Red Ruby	0.687	Level 2
FY 13/14	Crystal Oak Court	S. Crystal Lake Drive	Cul-De-Sac	0.087	Level 2
FY 14/15	Cullowhee Court	Off of N. Econlockhatchee	(Lake Douglas Place)	0.111	Level 2
FY 12/13	Curlew Drive			0.073	Level 2
FY 14/15	Cuxham Court	Off of Isle of Wright Drive	(Blackheath Circle)	0.020	Level 1
FY 14/15	Cuxham Drive	Off of Isle of Wright Drive	(Blackheath Circle)	0.124	Level 1
FY 15/16	Cypress Isle Court	Off of CR-535	(Sunset Blvd.)	0.194	Level 3
FY 14/15	Cypress Swamp Drive	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.)	0.139	Level 2
FY 14/15	Dacre Lane	Off of E. Wetherbee Road	(Ayres Drive / Pathrick Drive)	0.110	Level 2
FY 14/15	Daimler Drive	Off of Kelly Park Road	(Katilynn Drive)	0.193	Level 2
FY 15/16	Danforth Drive	Off of Reams Road	(Newmarket Drive)	0.235	Level 3
FY 15/16	Danforth Drive	Off of Silver Star Road	(Silver Ridge Drive)	0.439	Level 3
FY 15/16	Darchance Road	At end of Overstreet Road	(Londale Blvd.)	0.725	Level 3
FY 12/13	Darnell Place			0.056	Level 2
FY 13/14	Davy Street	Long Road	Miracle Road	0.161	Level 2
FY 12/13	Dawnwood Lane	Off of S. Orange Blossom Trail	Bardston Ave.	0.124	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Deacon Winn Court	Off of Mark Twain Blvd.	(Lower River Blvd.)	0.120	Level 2
FY 14/15	Deede Lane	Gatlin Ave.	Cul-De-Sac	0.034	Level 2
FY 15/16	Deer Path Way	Off of Great Commission Way	(Mossy Oak Drive)	0.406	Level 3
FY 13/14	Deerfield Boulevard	S. Orange Blossom Trail	Balcombe Road	0.242	Level 2
FY 12/13	Delta Street	Cul de sac	End	0.158	Level 2
FY 13/14	Densmore Drive	Both sides of Aloma Ave.	(Balfour Drive)	0.344	Level 2
FY 13/14	Denton Road	Both sides of Aloma Ave.	(Balfour Drive)	0.383	Level 2
FY 14/15	Diamond Drive	Off of N. Forsyth Road	(Partridge Lane / Dorris Drive)	0.454	Level 2
FY 13/14	Dickens Avenue	Off of O.B.T & Sand Lake	(Jordan Ave. / Skyview Drive)	0.187	Level 2
FY 12/13	Dillon Circle	Lake Underhill Road	Bamboo Dr	0.140	Level 2
FY 13/14	Diplomacy Row	Monetary Drive	Lake Ellenor Drive	0.179	Level 2
FY 12/13	Distribution Court	Hoffner Ave.	Dead End	0.175	Level 2
FY 14/15	Dobbin Drive	Off of N. Econlockhatchee	(Montello Drive)	0.107	Level 1
FY 14/15	Dobbin Drive	Off of N. Dean Road	(Winder Trail)	0.227	Level 1
FY 15/16	Doberman Street	Off of N. Hiawassee Road	(Hiawassee Oak Drive)	0.129	Level 3
FY 15/16	Doctor Love Road	Magnolia Homes / Forest City	Doctor Love Rd. / Kelvington Dr.	0.371	Level 3
FY 12/13	Dominico Street	Selected roads		0.186	Level 2
FY 14/15	Dominion Avenue	Off of N. Forsyth Road	(Partridge Lane / Dorris Drive)	0.124	Level 2
FY 14/15	Don Jean Lane	Valencia College Lane	Dead End	0.289	Level 2
FY 13/14	Doolan Court	N. Pine Hills Road	Cul-De-Sac	0.037	Level 2
FY 14/15	Doral Road	Off of El Prado	(Casa Rio Drive / Doral Road)	0.109	Level 2
FY 14/15	Dorris Drive	Off of N. Forsyth Road	(Partridge Lane / Dorris Drive)	0.282	Level 2
FY 14/15	Dorset Drive	Off of University Blvd.	(Watermill North Ave.)	0.081	Level 2
FY 13/14	Dorwood Drive	Starr Drive	Dead End	0.065	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 12/13	Dot Lane	Off of S. Orange Blossom Trail	Bardston Ave.	0.026	Level 2
FY 12/13	Downs Cove Road	Windy Ridge Road	1st Street	0.248	Level 2
FY 14/15	Downstream Circle	Off of Mark Twain Blvd.	(Lower River Blvd.)	0.331	Level 2
FY 14/15	Drexel Avenue	Off of North Lane	(Meadowbrook Ave.)	0.486	Level 2
FY 12/13	Driver Avenue	Minnesota Ave.	Fairbanks Ave.	0.253	Level 2
FY 14/15	Dunbarton Court	Off of University Blvd.	(Watermill North Ave.)	0.021	Level 2
FY 14/15	Dunbarton Drive	Off of University Blvd.	(Watermill North Ave.)	0.483	Level 2
FY 15/16	Dundas Drive	Off of Silver Star Road	(Silver Ridge Drive)	0.142	Level 3
FY 14/15	E 10th Street	S. Apopka Blvd.	McGee Ave.	0.097	Level 2
FY 14/15	E 10th Street	S. Christiana Ave.	Haas Ave.	0.056	Level 2
FY 14/15	E 11th Street	S. Apopka Blvd.	McGee Ave.	0.229	Level 2
FY 14/15	E 12th Street	Clarcona Road	Highland Ave.	0.251	Level 2
FY 13/14	E Compton Street	Peel Ave.	Cul-De-Sac	0.222	Level 2
FY 13/14	E Crystal Lake Avenue	Peel Ave.	S. Crystal Lake Drive	0.251	Level 2
FY 13/14	E Crystal Lake Avenue	S. Crystal Lake Drive	Cul-De-Sac	0.110	Level 2
FY 13/14	E Cypress Street	Ninth Street	Summer Street	0.250	Level 2
FY 15/16	E Grant Avenue	S. Bumby Ave.	Mae Street	0.302	Level 3
FY 13/14	E Jersey Avenue	Peel Ave.	Dawley Ave.	0.133	Level 2
FY 15/16	Eagleridge Court	Off of Lake Price Drive	(Boca Woods Drive)	0.048	Level 3
FY 14/15	Eaglewood Drive	Off of Suntree Blvd.	(Wyndcliff Cir. / Via Del Sol	0.225	Level 2
FY 13/14	Eastham Road	Both sides of Aloma Ave.	(Balfour Drive)	0.167	Level 2
FY 14/15	Eastport Terrace	Off of University Blvd.	(Watermill North Ave.)	0.034	Level 2
FY 14/15	Echo Run	Off of N. Econlockhatchee	(Larette Drive)	0.066	Level 1
FY 14/15	Eden Park Road	Beggs Road	W. Maitland Ave.	1.000	Level 2
FY 14/15	Edgefield Lane	Off of Redditt Road	(Edgefield Lane)	0.260	Level 2
FY 13/14	Edgewater Shores Court	Edgewater Drive	Cul-De-Sac	0.179	Level 2
FY 15/16	Ednitas Way	Off of N. Hiawassee Road	(Hiawassee Oak Drive)	0.057	Level 3

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 12/13	El Portal Court			0.044	Level 2
FY 12/13	El Prado			0.278	Level 2
FY 15/16	Eldorado Place	Off of Silver Star Road	(Silver Ridge Drive)	0.166	Level 3
FY 14/15	Eli Street	W. Fairbanks Ave.	Neuse Ave.	0.457	Level 2
FY 15/16	Elinore Drive	Cochita Drive	N. Pine Hills Road	0.366	Level 1
FY 14/15	Elite Drive	Off of S. Goldenrod Road	(Charlin Parkway / East Side)	0.076	Level 2
FY 13/14	Elk Court	Off of N. Thompson Road	(Yvonne Street)	0.038	Level 2
FY 13/14	Ellendale Drive	Both sides of Aloma Ave.	(Balfour Drive)	0.520	Level 2
FY 13/14	Elmstead Court	Off of Landstar Blvd.	(Misley Drive)	0.156	Level 2
FY 14/15	Elon Drive	Off of North Lane	(Wendy Drive)	0.222	Level 2
FY 14/15	Elon Drive	Off of North Lane	(Meadowbrook Ave.)	0.221	Level 2
FY 15/16	Emeralda Court	Emeralda Road	Cul-De-Sac	0.028	Level 1
FY 15/16	Emeralda Road	Balboa Drive	Ferdinand Drive	0.911	Level 1
FY 14/15	Emeraldview Drive	Off of Lake Underhill Road	(Kelly Green Drive)	0.263	Level 2
FY 13/14	Emperor Drive	S. Texas Ave.	Chancellor Drive	0.346	Level 2
FY 15/16	England Avenue	Off of Lake Sparling Road	(England Ave.) Micro	0.215	Level 1
FY 14/15	Enka Avenue	Westmont Drive	Dead End	0.208	Level 2
FY 12/13	Ensenada Drive			0.824	Level 2
FY 12/13	Ensenada Drive			0.444	Level 2
FY 14/15	Equestrian Lane	Lake Butler Blvd.	Dead End	0.244	Level 2
FY 14/15	Euston Road	Eli Street	Dead End	0.183	Level 2
FY 13/14	Evangeline Avenue	Off of O.B.T & Sand Lake	(Jordan Ave. / Skyview Drive)	0.553	Level 2
FY 12/13	Everwood Street			0.206	Level 2
FY 13/14	Exchange Drive	Premier Row	Titan Row	0.508	Level 2
FY 12/13	Exuma Street	Selected roads		0.102	Level 2
FY 12/13	Fairlane Avenue	Orange Ave	Jason St	0.433	Level 2
FY 13/14	Fairmont Circle	Off of Whisper Lakes Blvd.	(Fairmont Circle)	0.364	Level 2
FY 13/14	Fairview Avenue	W. Fairbanks Ave.	Dead End	0.260	Level 2

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FY 14/15	Fairview Avenue	Neuse Ave.	Dead End	0.186	Level 2
FY 14/15	Fairway Woods Boulevard	S. Orange Ave.	Landstar Blvd.	0.229	Level 2
FY 14/15	Falkner Road	Off of Forest City Road	(Falkner Road / Dianjo Drive)	0.121	Level 2
FY 14/15	Fambridge Road	Off of Isle of Wright Drive	(New Chapel Drive / Burryport)	0.185	Level 1
FY 14/15	Farnsworth Court	Off of Valencia College Lane	Fenwick Drive / Chickasaw Trail	0.029	Level 2
FY 14/15	Faust Court	Off of University Blvd.	(Watermill North Ave.)	0.068	Level 2
FY 14/15	Feldspar Trail	Off of N. Tanner Road	(Stonebriar Way)	0.257	Level 2
FY 14/15	Fenwick Drive	Off of Valencia College Lane	Fenwick Drive / Chickasaw Trail	0.263	Level 2
FY 15/16	Ferdinand Drive	Sarazen Drive	N. Pine Hills Road	0.230	Level 1
FY 14/15	Fern Bay Court	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.)	0.043	Level 2
FY 12/13	Fernando Street	Selected roads		0.071	Level 2
FY 12/13	Fernando Street	Selected roads		0.158	Level 2
FY 15/16	Ferndell Road	Balboa Drive	Santa Anita Street	0.380	Level 1
FY 14/15	Ferry Landing Lane	Off of Mark Twain Blvd.	(Lower River Blvd.)	0.180	Level 2
FY 12/13	Ficquette Road	SR 535	Reams Road	2.449	Level 2
FY 14/15	Filly Court	Equestrian Lane	Cul-De-Sac	0.044	Level 2
FY 15/16	Fire Moss Lane	Off of Great Commission Way	(Mossy Oak Drive)	0.042	Level 3
FY 14/15	Fishermans Paradise Road	Meece Ave.	End	0.227	Level 2
FY 14/15	Fitzsimmons Drive	Off of University Blvd.	(Watermill North Ave.)	0.137	Level 2
FY 14/15	Flintlock Drive	Off of North Lane	(Wendy Drive)	0.096	Level 2
FY 14/15	Flori Lane	Off of North Lane	(Meadowbrook Ave.)	0.099	Level 2
FY 13/14	Florian Drive	Both sides of Aloma Ave.	(Balfour Drive)	0.027	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Florida Bay Drive	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.)	0.065	Level 2
FY 13/14	Florida Mall Avenue	Sun Life Path	Access Point	0.816	Level 2
FY 14/15	Fordwell Drive	Off of Lake Underhill Road	(Lexingdale Drive)	0.081	Level 2
FY 14/15	Fordwell Drive	Off of Lake Underhill Road	(Kelly Green Drive)	0.273	Level 2
FY 15/16	Forest Island Drive	Off of Lake Price Drive	(Boca Woods Drive)	0.614	Level 3
FY 13/14	Forester Avenue	Off of O.B.T & Sand Lake	(Jordan Ave. / Skyview Drive)	0.620	Level 2
FY 15/16	Forestside Court	Off of Lake Price Drive	(Boca Woods Drive)	0.019	Level 3
FY 14/15	Formosa Avenue	Off of W. Fairbanks Ave.	Formosa Ave. / Ohio St. / Clay St.	0.212	Level 2
FY 14/15	Fort Christmas Road	SR-50	Lake Picket Road	6.405	Level 2
FY 14/15	Fossick Road	Off of Fiquette Road	(Fossick Road)	0.260	Level 2
FY 14/15	Founders Square Drive	Off of Avalon Park Blvd.	(Lake Live Oak Drive)	0.041	Level 2
FY 15/16	Fox Briar Trail	Off of N.Powers Drive	(Fox Briar Trail) Micro	0.232	Level 1
FY 15/16	Fox Hunt Trail	Off of N.Powers Drive	(Fox Briar Trail)Micro	0.448	Level 1
FY 15/16	Fox Hunt Trail	Off of Lake Sparling Road	(England Ave.) Micro	0.030	Level 1
FY 12/13	Fox Squirrel Court			0.117	Level 2
FY 13/14	Foxden Road	Off of N. Thompson Road	(Foxfire Drive)	0.457	Level 2
FY 13/14	Foxfire Drive	Off of N. Thompson Road	(Foxfire Drive)	0.496	Level 2
FY 13/14	Foxtree Trail	Off of N. Thompson Road	(Foxfire Drive)	0.218	Level 2
FY 13/14	Foxwind Road	Off of N. Thompson Road	(Foxfire Drive)	0.070	Level 2
FY 15/16	Foxwood Court	Off of Silver Star Road	(Silver Ridge Drive)	0.060	Level 3
FY 14/15	Frieth Drive	Off of Isle of Wright Drive	(Tiptree Circle)	0.139	Level 1
FY 13/14	Frubisher Court	Off of Whisper Lakes Blvd.	(Ottawa Ave.)	0.138	Level 2
FY 15/16	Galle Court	Off of N. Hiawassee Road	(Rembrandt Drive)	0.110	Level 3
FY 13/14	Galsworthy Avenue	Off of O.B.T & Sand Lake	(Jordan Ave. / Skyview Drive)	0.624	Level 2
FY 15/16	Gatebury Drive	Off of Great Commission Way	(Mossy Oak Drive)	0.117	Level 3
FY 14/15	Gateway Avenue	Central Florida Parkway	Dead End	1.353	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Gatlin Avenue	S. Bumby Ave.	Orange Ave.	1.423	Level 2
FY 14/15	Gatlin Avenue	Conway Road	Conway Gardens Road	0.497	Level 2
FY 14/15	Gatlin Oaks Lane	Gatlin Ave.	Gatlin Ave.	0.229	Level 2
FY 14/15	Gattis Drive	Off of E. Colonial Drive	(Melanie Drive / Selma Ave.)	0.369	Level 2
FY 14/15	Gemini Boulevard	Astronaut Blvd.	Dead End	0.141	Level 2
FY 12/13	Genevieve Street	Selected roads		0.133	Level 2
FY 14/15	Geoffrey Drive	Off of Bonneville Drive	(Allison / Hertha / Spraque)	0.218	Level 2
FY 15/16	George Martin Road	Off of Mohawk Drive	(Holly Creek Road)	0.311	Level 3
FY 14/15	Gibraltar Road	Off of Redditt Road	(Gibraltar Road / Pompeii Road)	0.614	Level 2
FY 14/15	Gillingham Court	Off of Valencia College Lane	Fenwick Drive / Chickasaw Trail	0.043	Level 2
FY 13/14	Glenbarrow Court	Off of Rhode Island Woods	(Carey Glen Circle)	0.063	Level 2
FY 15/16	Glendale Road	Lawndale Road	Sarazen Drive	0.257	Level 1
FY 15/16	Gleneagle Road	Ben Hogan Circle	Sarazen Drive	0.087	Level 1
FY 14/15	Glenmere Way	Off of Avalon Park Blvd.	(Red Mangrove Drive)	0.095	Level 2
FY 14/15	Glenmoor Boulevard	Off of Goldenrod Road	(Glenmoor Blvd.)	0.043	Level 2
FY 14/15	Glenmoor Court	Off of Goldenrod Road	(Glenmoor Blvd.)	0.122	Level 2
FY 14/15	Glenmoor Lane	Off of Goldenrod Road	(Glenmoor Blvd.)	0.445	Level 2
FY 14/15	Glenview Lane	Off of Goldenrod Road	(Glenmoor Blvd.)	0.136	Level 2
FY 14/15	Glover Lane	Woodland Drive	Section Drive	0.127	Level 2
FY 14/15	Golden Pond Court	Off of Lake Underhill Road	(Blue Water Circle)	0.081	Level 2
FY 15/16	Golden Rock Drive	Off of Silver Star Road	(Silver Ridge Drive)	0.458	Level 3
FY 14/15	Goldenglow Drive	Off of Avalon Park Blvd.	(Lake Live Oak Drive)	0.108	Level 2
FY 15/16	Golf Vista Court	Sarazen Drive	Cul-De-Sac	0.021	Level 1
FY 12/13	Golfridge Lane			0.095	Level 2
FY 14/15	Goodwyck Drive	Off of Isle of Wright Drive	(Goodwyck Drive / Ipsden Drive)	0.121	Level 1

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Gorham Avenue	Off of University Blvd.	(Watermill North Ave.)	0.273	Level 2
FY 14/15	Graduate Court	Graduate Drive	Cul-De-Sac	0.103	Level 2
FY 14/15	Graduate Drive	N. Alafaya Trail	Dead End	0.137	Level 2
FY 15/16	Gramercy Court	Off of Silver Star Road	(Summer Glen Drive)	0.037	Level 3
FY 15/16	Gramercy Drive	Off of Silver Star Road	(Summer Glen Drive)	0.233	Level 3
FY 12/13	Gran Paseo Drive			0.741	Level 2
FY 12/13	Gran Via			0.149	Level 2
FY 14/15	Grand Canyon Drive	Off of Lake Sparling Road	(Grand Coulee Road)	0.666	Level 2
FY 14/15	Grand Coulee Road	Off of Lake Sparling Road	(Grand Coulee Road)	0.261	Level 2
FY 14/15	Grand River Drive	Off of Lake Sparling Road	(Grand Coulee Road)	0.057	Level 2
FY 14/15	Grand Teton Road	Off of Lake Sparling Road	(Grand Coulee Road)	0.061	Level 2
FY 13/14	Grassy Cove Circle	Off of Landstar Blvd.	(Twelve Oaks Drive)	0.496	Level 1
FY 13/14	Gray Squirrel Court	Off of N. Thompson Road	(Yvonne Street)	0.031	Level 2
FY 14/15	Graystoke Lane	Off of University Blvd.	(Watermill North Ave.)	0.153	Level 2
FY 14/15	Grazeley Court	Off of Isle of Wright Drive	(Blackmoor Dr / Monktun Rd)	0.071	Level 1
FY 15/16	Great Commission Way	Off of Great Commission Way	(Mossy Oak Drive)	0.981	Level 3
FY 13/14	Green Gable Court	Off of Rhode Island Woods	(Whooping Crane Lane)	0.026	Level 1
FY 15/16	Green Velvet Court	Off of N.Powers Drive	(Fox Briar Trail) Micro	0.083	Level 1
FY 12/13	Greens Avenue	Oglesby Ave.	Minnesota Ave.	0.042	Level 2
FY 14/15	Grenoble Drive	Off of S. Goldenrod Road	(Charlin Parkway / East Side)	0.093	Level 2
FY 15/16	Grey Moss Drive	Off of Great Commission Way	(Mossy Oak Drive)	0.084	Level 3
FY 13/14	Grizzly Court	Off of N. Thompson Road	(Yvonne Street)	0.148	Level 2
FY 13/14	Grove Street	Old Winter Garden Road	Lake Drive	0.228	Level 2
FY 15/16	Grubbs Street	Off of Mohawk Drive	(Holly Creek Road)	0.154	Level 3
FY 13/14	Gusty Lane	All American Blvd.	Dead End	0.037	Level 2
FY 14/15	Gypsum Lane	Off of N. Tanner Road	(Stonebriar Way)	0.076	Level 2

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FY 14/15	Hafer Lane	Off of North Lane	(Meadowbrook Ave.)	0.099	Level 2
FY 15/16	Halton Court	At end of Overstreet Road	(Londale Blvd.)	0.047	Level 3
FY 14/15	Harbour Drive	Off of Pershing Rd	(Bayfront Pkwy/Harbour Dr)	0.114	Level 1
FY 14/15	Harold Street	Naples Drive	Canovia Ave.	0.123	Level 2
FY 12/13	Havasu Drive			0.577	Level 2
FY 15/16	Havenford Court	Off of Silver Star Road	(Silver Ridge Drive)	0.131	Level 3
FY 13/14	Hawkes Avenue	Off of O.B.T & Sand Lake	(Jordan Ave. / Skyview Drive)	0.367	Level 2
FY 12/13	Haywood Court			0.068	Level 2
FY 13/14	Healy Drive	Silver Star Road	Sandy Lane	0.372	Level 2
FY 13/14	Heirloom Drive	Off of Balboa Drive	(Rangewood Blvd.)	0.160	Level 2
FY 14/15	Hendy Court	Off of N. Dean Road	(Winder Trail)	0.042	Level 1
FY 12/13	Hermit Smith Road	Hwy 441	Hogshead Rd	0.220	Level 2
FY 14/15	Hertha Avenue	Off of Bonneville Drive	(Allison / Hertha / Spraque)	0.425	Level 2
FY 12/13	Hewett Drive	Semoran Blvd	Semoran Blvd	0.331	Level 2
FY 15/16	Hiawassee Bent Circle	Off of N. Hiawassee Road	(Hiawassee Oak Drive)	0.130	Level 3
FY 15/16	Hiawassee Oak Drive	Off of N. Hiawassee Road	(Hiawassee Oak Drive)	0.525	Level 3
FY 15/16	Hickory Creek Drive	Off of Silver Star Road	(Silver Ridge Drive)	0.272	Level 3
FY 15/16	Higgins Way	Off of Lake Sparling Road	(England Ave.) Micro	0.172	Level 1
FY 13/14	High Grove Way	Off of Balboa Drive	(Rangewood Blvd.)	0.150	Level 2
FY 13/14	High Grove Way	Off of Balboa Drive	(Woodman Way)	0.118	Level 2
FY 15/16	High Lake Drive	Off of N. Hiawassee Road	(Hiawassee Oak Drive)	1.066	Level 3
FY 13/14	Highway Place	S. Orange Ave.	Rosalind Ave.	0.115	Level 2
FY 14/15	Hill Drive	Country Rose Lane	Rachel Street	0.103	Level 2
FY 14/15	Hockley Court	Off of Isle of Wright Drive	(Ipsden Drive)	0.064	Level 1
FY 14/15	Holbrook Drive	Off of University Blvd.	(Watermill North Ave.)	0.385	Level 2
FY 13/14	Holiday Hill Lane	Powers Drive	Cul-De-Sac	0.100	Level 2
FY 12/13	Hollow Branch Court			0.046	Level 2
FY 15/16	Hollow Court	Off of N.Powers Drive	(Fox Briar Trail) Micro	0.042	Level 1

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 15/16	Hollow Trail	Off of N.Powers Drive	(Fox Briar Trail) Micro	0.052	Level 1
FY 15/16	Holly Court	Holly Street	Dead End	0.244	Level 3
FY 15/16	Holly Creek Road	Off of Mohawk Drive	(Holly Creek Road)	0.623	Level 3
FY 15/16	Holly Street	Dead End	Dead End	1.500	Level 3
FY 14/15	Hollybrook Court	Off of Lake Underhill Road	(Blue Water Circle)	0.026	Level 2
FY 14/15	Holtland Drive	Off of Kelly Park Road	(Katilynn Drive)	0.193	Level 2
FY 14/15	Honey Blossom Drive	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.	0.449	Level 2
FY 14/15	Honey Locust Drive	Off of Avalon Park Blvd.		0.248	Level 2
FY 14/15	Hop Tree Lane	Off of Avalon Park Blvd.		0.102	Level 2
FY 14/15	Hullbridge Court	Off of Isle of Wright Drive	(Blackheath Circle)	0.136	Level 1
FY 15/16	Hunters Mill Drive	Off of Great Commission Way	(Mossy Oak Drive)	0.080	Level 3
FY 14/15	Hunters Trail Court	Off of Suntree Blvd.	(Wyndcliff Cir. / Via Del Sol)	0.048	Level 2
FY 13/14	Huntingfield Court	Off of Landstar Blvd.	(Twelve Oaks Drive)	0.111	Level 1
FY 13/14	Huntingfield Drive	Off of Landstar Blvd.	(Twelve Oaks Drive)	0.209	Level 1
FY 14/15	Hupp Way	Off of Kelly Park Road	(Katilynn Drive)	0.057	Level 2
FY 14/15	Hutton Drive	Off of North Lane	(Wendy Drive)	0.223	Level 2
FY 15/16	Hyde Park Avenue	Off of Lake Sparling Road	(England Ave.) Micro	0.272	Level 1
FY 13/14	Ibsen Avenue	Off of O.B.T & Sand Lake	(Jordan Ave. / Skyview Drive)	0.539	Level 2
FY 13/14	Idaho Woods Lane	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.377	Level 1
FY 13/14	Illinois Woods Lane	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.481	Level 1
FY 12/13	Indiana Street	Hwy 441	Dirt Rd	0.122	Level 2
FY 13/14	Indiana Woods Lane	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.222	Level 1
FY 13/14	Ingleton Court	Off of S. Apopka Vineland Rd.	(Bristol Park Drive)	0.080	Level 2
FY 12/13	Intermodal Way	Zell Drive	Cul-De-Sac	0.304	Level 2
FY 14/15	International Drive	World Center Drive	Westwood Blvd.	5.389	Level 2
FY 13/14	Iowa Woods Circle E	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.456	Level 1

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 13/14	Iowa Woods Circle W	Off of Landstar Blvd.	(Iowa Woods Circle)	0.487	Level 1
FY 13/14	Iowa Woods Circle W	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.039	Level 1
FY 14/15	Ipsden Drive	Off of Isle of Wright Drive	(Blackheath Circle)	0.191	Level 1
FY 14/15	Ipsden Drive	Off of Isle of Wright Drive	(Ipsden Drive)	0.251	Level 1
FY 14/15	Iris Lake Drive	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.)	0.167	Level 2
FY 13/14	Irmastone Way	Off of Trevarthon Road	(Lakewood Pointe Drive)	0.171	Level 2
FY 14/15	Isle Of Wright Drive	W. Wetherbee Road	W. Wetherbee Road	1.505	Level 2
FY 15/16	J T Smith Lane	Off of Mohawk Drive	(Holly Creek Road)	0.072	Level 3
FY 12/13	Jadewood Avenue			0.196	Level 2
FY 13/14	Jaguar Circle	Off of N. Thompson Road	(Yvonne Street)	0.351	Level 2
FY 14/15	Jarvi Court	Off of University Blvd.	(Watermill North Ave.)	0.029	Level 2
FY 15/16	Jarvis Court	Off of Silver Star Road	(Silver Ridge Drive)	0.055	Level 3
FY 14/15	Jasper Drive	Off of N. Forsyth Road	(Partridge Lane / Dorris Drive)	0.214	Level 2
FY 13/14	Jennie Jewel Drive	S. Orange Ave.	Cul-De-Sac	0.322	Level 2
FY 14/15	Jessamine Avenue	Curry Ford Road	Kaley Ave.	0.251	Level 2
FY 13/14	Jetport Drive	Orange Ave.	3000' to the East	3.325	Level 2
FY 14/15	Jetstream Drive	Wetherbee Road	Dead End	0.827	Level 2
FY 14/15	Jones Avenue	SR-441	Round Lake Road	0.799	Level 2
FY 13/14	Jordan Avenue	Off of O.B.T & Sand Lake	(Jordan Ave. / Skyview Drive)	0.863	Level 2
FY 14/15	Josair Drive	Off of N. Tanner Road	(Josair Court)	0.294	Level 2
FY 12/13	Julian Street	Minnesota Ave.	Dead End	0.173	Level 2
FY 13/14	Justy Way	Trevarthon Road	Cul-De-Sac	0.208	Level 2
FY 13/14	Kangaroo Court	Off of N. Thompson Road	(Yvonne Street)	0.091	Level 2
FY 13/14	Kansas Woods Court	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.032	Level 1
FY 14/15	Karolina Avenue	Off of W. Fairbanks Ave.	Formosa Ave. / Ohio St. / Clay St.	0.364	Level 2
FY 15/16	Kathleen Drive	Magnolia Homes / Forest City	Doctor Love Rd. / Kelvington Dr.	0.174	Level 3

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FY 14/15	Kati Lynn Drive	Off of Kelly Park Road	(Katilynn Drive)	0.285	Level 2
FY 14/15	Kati Lynn Drive	Off of Kelly Park Road	(Katilynn Drive)	0.339	Level 2
FY 14/15	Katie Lane	Gatlin Ave.	Cul-De-Sac	0.034	Level 2
FY 15/16	Katy Noll Court	Off of N. Hiawassee Road	(Hiawassee Oak Drive)	0.030	Level 3
FY 12/13	Kayenta Court			0.126	Level 2
FY 12/13	Kaywood Drive			0.141	Level 2
FY 13/14	Keeley Court	Off of Whisper Lakes Blvd.	(Ottawa Ave.)	0.052	Level 2
FY 15/16	Keelford Way	Off of Wyndham Lakes Blvd.	(Brewerton Lane)	0.224	Level 3
FY 14/15	Kellygreen Drive	Off of Lake Underhill Road	(Kelly Green Drive)	0.096	Level 2
FY 12/13	Kelso Boulevard	West Lake Butler Road	Dead End	0.598	Level 2
FY 15/16	Kelvington Drive	Magnolia Homes / Forest City	Doctor Love Rd. / Kelvington Dr.	0.370	Level 3
FY 13/14	Kempston Drive	Hoffner Ave.	Dead End	0.255	Level 2
FY 15/16	Kenlyn Court	Off of N.Powers Drive	(Christian Way)	0.210	Level 3
FY 13/14	Kenmure Cove	Off of S. Apopka Vineland Rd.	(Camberley Circle)	0.115	Level 1
FY 13/14	Kenora Court	Off of Whisper Lakes Blvd.	(Ottawa Ave.)	0.064	Level 2
FY 13/14	Kentucky Woods Lane E	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.272	Level 1
FY 13/14	Kentucky Woods Lane W	Off of Landstar Blvd.	(lowa Woods Circle)	0.234	Level 1
FY 13/14	Kentucky Woods Lane W	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.038	Level 1
FY 14/15	Kenworth Drive	Off of Kelly Park Road	(Katilynn Drive)	0.317	Level 2
FY 14/15	Killarney Drive	Off of W. Fairbanks Ave.	Formosa Ave. / Ohio St. / Clay St.	0.454	Level 2
FY 13/14	Kinder Court	Off of Whisper Lakes Blvd.	(Fairmont Circle)	0.047	Level 2
FY 14/15	King Avenue	Robinson Street	Round Lake Road	0.684	Level 2
FY 15/16	King Edward Drive	Off of Lake Price Drive	(Boca Woods Drive)	0.605	Level 3
FY 15/16	Kingbird Court	Off of Lake Price Drive	(Boca Woods Drive)	0.080	Level 3

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FY 15/16	Kingsbury Court	Off of Windy Ridge Road	(Windsor Hill Drive)	0.072	Level 3
FY 14/15	Kirsten Drive	Off of Bonneville Drive	(Allison / Hertha / Spraque)	0.024	Level 2
FY 13/14	Kitimat Court	Off of Whisper Lakes Blvd.	(Ottawa Ave.)	0.026	Level 2
FY 14/15	La Grange Avenue	Home Folks Dr	Dead End	0.108	Level 2
FY 12/13	La Lista Court			0.037	Level 2
FY 14/15	La Mojadita Court	Off of N. Hermit Smith Road	(Benito Juarez Circle)	0.030	Level 2
FY 14/15	La Palma Court	Off of Redditt Road	(Gibraltar Road / Pompeii Road)	0.018	Level 2
FY 15/16	Labrador Lane	Off of N. Hiawassee Road	(Hiawassee Oak Drive)	0.357	Level 3
FY 15/16	Lake Avenue	E. Kennedy Blvd.	Railroad Crossing/S. Orlando Ave	0.636	Level 3
FY 14/15	Lake Burkett Drive	Off of University Blvd.	(Watermill North Ave.)	0.274	Level 2
FY 13/14	Lake Cane Drive	Vineland Road	Turkey Lake Road	0.180	Level 2
FY 12/13	Lake Christie Drive	Off of S. Orange Blossom Trail	Bardston Ave.	0.236	Level 2
FY 14/15	Lake Dawn Drive	Off of Goldenrod Road	(Glenmoor Blvd.)	0.312	Level 2
FY 14/15	Lake Douglas Place	Off of N. Econlockhatchee	(Montello Drive)	0.234	Level 1
FY 14/15	Lake Douglas Place	Off of N. Econlockhatchee	(Lake Douglas Place)	0.608	Level 2
FY 12/13	Lake Down Cove Alley	Dead End	Dead End	0.055	Level 2
FY 13/14	Lake Drive	Old Winter Garden Road	Grove Street	0.249	Level 2
FY 14/15	Lake Fair Lane	Euston Road	Dead End	0.144	Level 2
FY 14/15	Lake Florence Boulevard	Good Homes Road	Florence Vista Blvd	0.664	Level 2
FY 13/14	Lake Grove Lane	Off of Gatlin Ave.	(Old Lakeshore Drive)	0.163	Level 2
FY 14/15	Lake Live Oak Drive	Off of Avalon Park Blvd.	(Lake Live Oak Drive)	0.745	Level 2
FY 15/16	Lake Lorine Drive	Lawndale Road	Sarazen Drive	0.234	Level 1
FY 15/16	Lake Meadow Road	Clarcona Ocoee Road	Clarcona Ocoee Rd	0.929	Level 3
FY 14/15	Lake Picket Road	SR-50	Chuluota Road	4.716	Level 2
FY 14/15	Lake Pickett Court	Chuluota Road	Dead End	0.194	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Lake Sharp Court	Off of University Blvd.	(Watermill North Ave.)	0.118	Level 2
FY 14/15	Lake Sharp Drive	Off of University Blvd.	(Watermill North Ave.)	0.388	Level 2
FY 13/14	Lake Stanley Road	Silver Star Road	N. Apopka Vineland Road	0.588	Level 2
FY 13/14	Lake Street	Jennie Jewel Drive	Dead End	0.129	Level 2
FY 13/14	Lake Sue Drive	Off of Corrine Drive	(Woodlawn Drive)	0.391	Level 2
FY 12/13	Lake Trail Drive	Landstar Blvd	Lake Biscayne Way	0.184	Level 2
FY 15/16	Lake Underhill Road	Waterford Chase Parkway	Dead End	0.916	Level 3
FY 14/15	Lake View Drive	W. Orange Blossom Trail	W. Orange Ave.	0.257	Level 2
FY 13/14	Lakewood Pointe Drive	Off of Trevarthon Road	(Lakewood Pointe Drive)	0.661	Level 2
FY 13/14	Lambing Lane	S. Apopka Blvd.	E. 13th Street	0.092	Level 2
FY 13/14	Lamplighter Way	Off of Balboa Drive	(Woodman Way)	0.356	Level 2
FY 14/15	Lancien Court	Cochin Street	Cul-De-Sac	0.027	Level 2
FY 14/15	Lando Lane	Off of Pershing Rd	(Bayfront Pkwy/Harbour Dr)	0.356	Level 1
FY 14/15	Landstar Boulevard	E. Wetherbee Road	Jetstream Drive	0.471	Level 2
FY 15/16	Langstaff Drive	Off of Reams Road	(Newmarket Drive)	0.675	Level 3
FY 14/15	Larette Drive	Off of N. Econlockhatchee	(Larette Drive)	0.283	Level 1
FY 13/14	Larks Nest Court	Off of Rhode Island Woods	(Whooping Crane Lane)	0.072	Level 1
FY 14/15	Laser Court	Graduate Drive	Cul-De-Sac	0.081	Level 2
FY 13/14	Lassek Drive	Michigan Ave.	Crystal Lake Drive	0.126	Level 2
FY 13/14	Laurelwood Court	Locke Ave.	Cul-De-Sac	0.198	Level 2
FY 13/14	Lavill Court	Off of Hempel Ave.	(Lavill Lane)	0.062	Level 2
FY 13/14	Lavill Lane	Off of Hempel Ave.	(Lavill Lane)	0.128	Level 2
FY 15/16	Lavon Way	Ferndell Road	Glendale Road	0.072	Level 1
FY 15/16	Lawndale Road	N. Hastings Street	Glendale Road	0.158	Level 1
FY 14/15	Laxton Street	Off of E. Wetherbee Road	(Ayres Drive / Pathrick Drive)	1.065	Level 2
FY 14/15	Leacock Court	Off of University Blvd.	(Watermill North Ave.)	0.093	Level 2
FY 14/15	Lejeune Drive	Off of North Lane	(Meadowbrook Ave.)	0.224	Level 2
FY 15/16	Lemos Court	Off of Lake Sparling Road	(England Ave.) Micro	0.022	Level 1

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FY 13/14	Leopard Court	Off of N. Thompson Road	(Yvonne Street)	0.091	Level 2
FY 13/14	Leslie Drive	S. Crystal Lake Drive	Dead End	0.122	Level 2
FY 14/15	Leston Court	Off of N. Econlockhatchee	(Larette Drive)	0.115	Level 1
FY 12/13	Leswood Street			0.252	Level 2
FY 14/15	Lexingdale Drive	Off of Lake Underhill Road	(Lexingdale Drive)	0.629	Level 2
FY 14/15	Leyland Court	Off of Kelly Park Road	(Katilynn Drive)	0.104	Level 2
FY 14/15	Liberty Square Drive	Off of Avalon Park Blvd.		0.116	Level 2
FY 13/14	Lingo Lane	Pershing Ave.	Dead End	0.239	Level 2
FY 14/15	Lipton Court	Off of University Blvd.	(Watermill North Ave.)	0.116	Level 2
FY 14/15	Little Lake Sawyer Drive	Off of Fiquette Road	(Fossick Road)	0.359	Level 2
FY 13/14	Little Oakley Court	Off of Landstar Blvd.	(Misley Drive)	0.012	Level 2
FY 14/15	Littleton Court	Off of University Blvd.	(Watermill North Ave.)	0.036	Level 2
FY 13/14	Llama Court	Off of N. Thompson Road	(Yvonne Street)	0.107	Level 2
FY 13/14	Locke Avenue	Laurelwood Court	Dead End	0.225	Level 2
FY 14/15	Lois Avenue	Off of Forest City Road	(Falkner Road / Dianjo Drive)	0.031	Level 2
FY 13/14	Lois Mae Court	N. Apopka Vineland Road	Cul-De-Sac	0.026	Level 2
FY 15/16	Londale Boulevard	At end of Overstreet Road	(Londale Blvd.)	0.210	Level 3
FY 15/16	Long Breeze Road	Off of Clarcona Ocoee Road	(Long Lake Hill's Blvd.)	0.247	Level 3
FY 15/16	Long Grove Court	Off of Clarcona Ocoee Road	(Long Lake Hill's Blvd.)	0.054	Level 3
FY 15/16	Long Lake Hills Boulevard	Off of Clarcona Ocoee Road	(Long Lake Hill's Blvd.)	0.149	Level 3
FY 14/15	Longmeade Lane	Off of Redditt Road	(Edgefield Lane)	0.274	Level 2
FY 14/15	Lonsdale Circle	Off of University Blvd.	(Watermill North Ave.)	0.335	Level 2
FY 13/14	Lost Tree Court	Locke Ave.	Cul-De-Sac	0.200	Level 2
FY 13/14	Louisiana Woods Court	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.066	Level 1
FY 14/15	Lower River Boulevard	Off of Mark Twain Blvd.	(Lower River Blvd.)	0.213	Level 2
FY 14/15	Lower River Boulevard	Off of Mark Twain Blvd.	(Lower River Blvd.)	0.569	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Luan Drive	Off of North Lane	(Wendy Drive)	0.261	Level 2
FY 14/15	Lucile Way	Westmont Drive	Dead End	0.222	Level 2
FY 15/16	Lundeen Way	Off of Clarcona Ocoee Road	(Chet Drive / Aladdin Drive)	0.073	Level 3
FY 12/13	Lyle Street	Century Dr	End	0.132	Level 2
FY 12/13	Madeira Avenue			0.094	Level 2
FY 14/15	Madrigal Court	Off of Valencia College Lane	Fenwick Drive / Chickasaw Trail	0.077	Level 2
FY 15/16	Mae Street	Kaley Ave.	E. Grant Ave.	0.201	Level 3
FY 14/15	Maidencane Lane	Off of Avalon Park Blvd.	(Lake Live Oak Drive)	0.055	Level 2
FY 13/14	Maine Woods Court	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.049	Level 1
FY 12/13	Majestic Oak Court			0.027	Level 2
FY 12/13	Majestic Oak Drive			1.065	Level 2
FY 14/15	Malverns Loop	Off of Kirby Smith Road	(Stratford Pointe Ave.)	0.431	Level 2
FY 13/14	Maplestead Court	Off of Landstar Blvd.	(Misley Drive)	0.121	Level 2
FY 14/15	Marcia Drive	Off of N. Forsyth Road	(Partridge Lane / Dorris Drive)	0.433	Level 2
FY 13/14	Mardi Gras Street	Dallas Blvd.	Bancroft Blvd.	0.997	Level 2
FY 12/13	Margavera Drive			0.158	Level 2
FY 15/16	Marie Court	Off of Clarcona Ocoee Road	(Chet Drive / Aladdin Drive)	0.102	Level 3
FY 15/16	Marigot Court	Off of Lake Sparling Road	(England Ave.) Micro	0.024	Level 1
FY 14/15	Marsh Fern Drive	Off of Avalon Park Blvd.	(Lake Live Oak Drive)	0.436	Level 2
FY 14/15	Marsh Lilly Drive	Off of Avalon Park Blvd.	(Lake Live Oak Drive)	0.151	Level 2
FY 15/16	Martin Street	Off of Lake Margaret Drive	(Brandywine / Bay Tree Drive)	0.250	Level 3
FY 14/15	Martz Court	Off of N. Dean Road	(Winder Trail)	0.039	Level 1
FY 13/14	Maryland Woods Court	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.083	Level 1
FY 13/14	Massachusetts Woods Lane	Off of Landstar Blvd.	(lowa Woods Circle)	0.108	Level 1

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Mavis Street	Off of E. Colonial Drive	(Melanie Drive / Selma Ave.)	0.088	Level 2
FY 12/13	Meadow Creek Drive	State Road - 535	Dead End	0.691	Level 2
FY 14/15	Meadowbrook Avenue	Off of North Lane	(Meadowbrook Ave.)	0.733	Level 2
FY 14/15	Meadowglen Drive	Off of Forest City Road	(Falkner Road / Dianjo Drive)	0.371	Level 2
FY 13/14	Meadowmouse Street	Off of Deerfield Blvd.	(Crosshair Circle)	0.211	Level 1
FY 15/16	Meadowpark Avenue	Off of Lake Price Drive	(Boca Woods Drive)	0.281	Level 3
FY 14/15	Mediterranean Road	Off of Redditt Road	(Gibraltar Road / Pompeii Road)	0.601	Level 2
FY 14/15	Meece Avenue	Beach Ave.	Section Drive	0.155	Level 2
FY 14/15	Melanie Drive	Off of E. Colonial Drive	(Melanie Drive / Selma Ave.)	0.369	Level 2
FY 13/14	Melbourne Avenue	Off of Powers Drive	Harwood, Livingston, Melbourne	0.252	Level 2
FY 12/13	Mellowood Avenue			0.305	Level 2
FY 12/13	Mendoza Drive			0.110	Level 2
FY 12/13	Mendoza Drive			0.402	Level 2
FY 14/15	Merak Alley	Off of Avalon Park Blvd.		0.043	Level 2
FY 13/14	Mercy Drive	W. Colonial Drive	Old Winter Garden Road	0.368	Level 2
FY 14/15	Meridian Way	Off of North Lane	(Meadowbrook Ave.)	0.159	Level 2
FY 12/13	Mesa Court			0.019	Level 2
FY 12/13	Mescalero Street			0.172	Level 2
FY 13/14	Michigan Woods Court	Off of Landstar Blvd.	(Iowa Woods Circle)	0.047	Level 1
FY 14/15	Millbridge Court	Off of Isle of Wright Drive	(Blackmoor Dr / Monktun Rd)	0.082	Level 1
FY 15/16	Millbury Drive	Off of Great Commission Way	(Mossy Oak Drive)	0.117	Level 3
FY 14/15	Millican Drive	Off of N. Econlockhatchee	(Lake Douglas Place)	0.042	Level 2
FY 14/15	Millpool Court	Off of Redditt Road	(Tidewave Street)	0.037	Level 2
FY 14/15	Millrace Court	Off of Redditt Road	(Tidewave Street)	0.037	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 15/16	Minippi Drive	Off of Silver Star Road	(Silver Ridge Drive)	0.579	Level 3
FY 13/14	Mink Drive	Off of Greenacre Road	(Mink Drive, North & South	0.211	Level 2
FY 12/13	Minnesota Avenue	Greens Ave.	Formosa Ave.	0.502	Level 2
FY 13/14	Minnesota Woods Lane	Off of Landstar Blvd.	(Iowa Woods Circle)	0.139	Level 1
FY 13/14	Miracle Road	Worth Street	Dead End	0.201	Level 2
FY 13/14	Misley Drive	Off of Landstar Blvd.	(Misley Drive)	0.087	Level 2
FY 13/14	Mississippi Woods Lane	Off of Landstar Blvd.	(Iowa Woods Circle)	0.175	Level 1
FY 13/14	Missouri Woods Court	Off of Landstar Blvd.	(Iowa Woods Circle)	0.032	Level 1
FY 13/14	Misty Creek Court	Off of Landstar Blvd.	(Twelve Oaks Drive)	0.027	Level 1
FY 14/15	Mobilaire Drive	Off of S. Goldenrod Road	(Charlin Parkway / East Side)	0.247	Level 2
FY 15/16	Mohawk Drive	Willow St	Holly St	0.377	Level 3
FY 15/16	Mohawk Drive	Off of Mohawk Drive	(Holly Creek Road)	0.377	Level 3
FY 13/14	Monetary Drive	Counselor Row	Diplomacy Row	0.316	Level 2
FY 13/14	Monitor Avenue	Off of Powers Drive	(W. Livingston Ave.)	0.208	Level 2
FY 14/15	Monkton Road	Off of Isle of Wright Drive	(Blackmoor Dr / Monktun Rd)	0.171	Level 1
FY 13/14	Montana Woods Lane	Off of Landstar Blvd.	(Iowa Woods Circle)	0.437	Level 1
FY 14/15	Monteagle Circle	Off of Kelly Park Road	(Katilynn Drive)	0.459	Level 2
FY 14/15	Montello Drive	Off of N. Econlockhatchee	(Montello Drive)	0.398	Level 1
FY 14/15	Montford Place	Off of Kelly Park Road	(Katilynn Drive)	0.197	Level 2
FY 14/15	Moore Street	Off of Vernon Street / Powers	(Hart Blvd. / Moore Street)	0.249	Level 2
FY 13/14	Moorgate Street	Dallas Blvd.	Bastings Ave.	0.903	Level 2
FY 14/15	Morelyn Crest Circle	Off of Avalon Park Blvd.	(Red Mangrove Drive)	0.448	Level 2
FY 12/13	Morning Glory Drive	Off of S. Orange Blossom Trail	Bardston Ave.	0.128	Level 2
FY 12/13	Morosgo Court			0.017	Level 2
FY 13/14	Morrilton Court	Off of Whisper Lakes Blvd.	(Fairmont Circle)	0.089	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 13/14	Morristown Avenue	Curry Ford Road	Dead End	0.125	Level 2
FY 14/15	Moss Park Road	Railroad Track Joint	Fire Station # 77 Joint	2.784	Level 2
FY 15/16	Mossy Oak Drive	Off of Great Commission Way	(Mossy Oak Drive)	0.383	Level 3
FY 14/15	Mott Avenue	N. Orange Blossom Trail	Beggs Road	0.565	Level 2
FY 14/15	Mount Riga Road	Off of S. Goldenrod Road	(Charlin Parkway / East Side)	0.183	Level 2
FY 15/16	Mountleigh Trail	Off of Wyndham Lakes Blvd.	(Mountleigh Trail)	0.322	Level 3
FY 12/13	N 5th Street	SR-50	17th Ave.	0.472	Level 2
FY 13/14	N Apopka Vineland Road	Clarcona Ocoee Road	Starr Drive(Pavement Joint)	1.450	Level 2
FY 13/14	N Buena Vista Avenue	Off of Powers Drive	(W. Livingston Ave.)	0.265	Level 2
FY 14/15	N Buena Vista Avenue	Off of Vernon Street / Powers	(Hart Blvd. / Moore Street)	0.252	Level 2
FY 14/15	N Econlockhatchee Trail	Off of University Blvd.	(Watermill North Ave.)	0.269	Level 2
FY 13/14	N Hart Boulevard	Off of Powers Drive	(W. Livingston Ave.)	0.231	Level 2
FY 14/15	N Hart Boulevard	Off of Vernon Street / Powers	(Hart Blvd. / Moore Street)	0.253	Level 2
FY 15/16	N Hiawassee Road	Groveline Dr	Apopka Blvd	2.233	Level 3
FY 13/14	N Lancelot Avenue	Off of Powers Drive	(W. Livingston Ave.)	0.372	Level 2
FY 13/14	N Observatory Drive	Off of Powers Drive	(W. Livingston Ave.)	0.272	Level 2
FY 14/15	N Observatory Drive	Off of Vernon Street / Powers	(Hart Blvd. / Moore Street)	0.253	Level 2
FY 13/14	Nahanni Court	Off of Whisper Lakes Blvd.	(Ottawa Ave.)	0.030	Level 2
FY 13/14	Nakina Court	Off of Whisper Lakes Blvd.	(Ottawa Ave.)	0.075	Level 2
FY 14/15	Naples Drive	Adanson Street	Dead End	0.253	Level 2
FY 14/15	Naples Drive	Adanson Street	Lake Fair Lane	0.331	Level 2
FY 14/15	Napoli Court	Off of Redditt Road	(Gibraltar Road / Pompeii Road)	0.017	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 15/16	Narcoossee Road	Short Section Under the 417	Off Ramp to Off Ramp	0.119	Level 3
FY 13/14	Nebraska Woods Court	Off of Landstar Blvd.	(Iowa Woods Circle)	0.079	Level 1
FY 14/15	Neuse Avenue	Adanson Street	Fairview Ave.	0.255	Level 2
FY 13/14	Nevada Woods Court	Off of Landstar Blvd.	(Iowa Woods Circle)	0.038	Level 1
FY 14/15	New Road	Off of Avalon Park Blvd.		0.070	Level 2
FY 14/15	Newbolt Drive	Off of N. Econlockhatchee	(Larette Drive)	0.256	Level 1
FY 14/15	Newchapel Court	Off of Isle of Wright Drive	(New Chapel Drive / Burryport)	0.132	Level 1
FY 14/15	Newchapel Drive	Off of Isle of Wright Drive	(New Chapel Drive / Burryport)	0.090	Level 1
FY 13/14	Newfield Drive	Off of Deerfield Blvd.	(Crosshair Circle)	0.134	Level 1
FY 15/16	Newmarket Drive	Off of Reams Road	(Newmarket Drive)	0.216	Level 3
FY 13/14	Newt Street	Off of Deerfield Blvd.	(Crosshair Circle)	0.211	Level 1
FY 13/14	Nice Avenue	Off of Powers Drive	Harwood, Livingston, Melbourne	0.101	Level 2
FY 14/15	Nicklaus Drive	Off of El Prado	(Casa Rio Drive / Doral Road)	0.273	Level 2
FY 14/15	Nimbus Lane	Off of E. Wetherbee Road	(Ayres Drive / Pathrick Drive)	0.180	Level 2
FY 13/14	Nipawin Court	Off of Whisper Lakes Blvd.	(Ottawa Ave.)	0.036	Level 2
FY 15/16	Nipinicket Court	Off of Silver Star Road	(Silver Ridge Drive)	0.076	Level 3
FY 15/16	Nobleman Court	Off of Windy Ridge Road	(Windsor Hill Drive)	0.109	Level 3
FY 13/14	Norfield Court	Off of Whisper Lakes Blvd.	(Fairmont Circle)	0.060	Level 2
FY 12/13	Norma Drive	School Gate	End	0.262	Level 2
FY 15/16	Norvale Court	Off of Lake Sparling Road	(England Ave.) Micro	0.065	Level 1
FY 12/13	Notchwood Court			0.144	Level 2
FY 13/14	Oak Arbor Circle	Off of Long Road	(Cluster Drive)	0.304	Level 2
FY 15/16	Oak Commons Way	Off of Great Commission Way	(Mossy Oak Drive)	0.156	Level 3

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 15/16	Oak Fern Drive	Off of Great Commission Way	(Mossy Oak Drive)	0.080	Level 3
FY 15/16	Oak Moss Drive	Off of Great Commission Way	(Mossy Oak Drive)	0.080	Level 3
FY 12/13	Oak Tree Court			0.289	Level 2
FY 14/15	Oakberry Drive	Off of Suntree Blvd.	(Wyndcliff Cir. / Via Del Sol)	0.149	Level 2
FY 14/15	Observatory Court	Off of Vernon Street / Powers	(Hart Blvd. / Moore Street)	0.097	Level 2
FY 12/13	Ogelsby Avenue	Overspin Drive	Julian Street	0.126	Level 2
FY 12/13	Ogelsby Avenue	Julian Street	Dead End	0.039	Level 2
FY 12/13	Oglesby Avenue	Driver Ave.	Greens Ave.	0.179	Level 2
FY 14/15	Ohio Street	Off of W. Fairbanks Ave.	Formosa Ave. / Ohio St. / Clay St.	0.243	Level 2
FY 14/15	Old Cheney Hwy	Columbia School Road	Dead End / Dew Street	1.332	Level 2
FY 12/13	Old Cheney Hwy.	SR-436 / N. Semoran Blvd.	E. Colonial Dr	0.923	Level 2
FY 13/14	Old Dixie Highway	W. Highland Ave.	City Limits	0.528	Level 2
FY 13/14	Old Grove Drive	Off of Balboa Drive	(Rangewood Blvd.)	0.210	Level 2
FY 13/14	Old Grove Drive	Off of Balboa Drive	(Woodman Way)	0.061	Level 2
FY 13/14	Old Lakeshore Drive	Off of Gatlin Ave.	(Old Lakeshore Drive)	0.046	Level 2
FY 14/15	Old Plantation Lane	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.)	0.177	Level 2
FY 15/16	Olympic Court	Off of N.Powers Drive	(Fox Briar Trail) Micro	0.088	Level 1
FY 14/15	Omega Street	Palmetio Ave.	Dead End	0.071	Level 2
FY 14/15	Omega Street	Palmetio Ave.	Dead End	0.042	Level 2
FY 15/16	Orange Avenue	W. Colonial Drive	Dead End	0.183	Level 3
FY 14/15	Orange Terrace Drive	Off of W. Fairbanks Ave.	Formosa Ave. / Ohio St. / Clay St.	0.220	Level 2
FY 14/15	Orangebrook Drive	Off of Eden Park Road	(Orangebrook Drive)	0.174	Level 2
FY 14/15	Orangewood Boulevard	Central Florida Parkway	Williamsburg Entrance Joint	0.918	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 13/14	Orlando Central Parkway	Orange Blossom Trail	Lake Ellenor Drive	0.248	Level 2
FY 14/15	Orwood Road	Magnolia Homes Road	Ramir Road	0.111	Level 2
FY 13/14	Ottawa Avenue	Off of Whisper Lakes Blvd.	(Ottawa Ave.)	0.868	Level 2
FY 13/14	Ottawa Avenue	Off of Whisper Lakes Blvd.	(Ottawa Ave.)	0.145	Level 2
FY 14/15	Outlook Street	S. Fern Creek Ave.	Vaughn Ave.	0.124	Level 2
FY 12/13	Outwood Street			0.028	Level 2
FY 14/15	Overlake Avenue	Off of Pershing Rd	(Bayfront Pkwy/Harbour Dr)	0.354	Level 1
FY 14/15	Overlake Avenue	S. Fern Creek Ave.	Dead End	0.201	Level 2
FY 12/13	Overspin Drive	Fairbanks Ave.	Minnesota Ave.	0.247	Level 2
FY 15/16	Overstreet Road	CR 535	Londale Blvd	1.328	Level 3
FY 14/15	Paddle Court	Off of Mark Twain Blvd.	(Lower River Blvd.)	0.044	Level 2
FY 13/14	Page Avenue	Peel Ave.	S. Crystal Lake Drive	0.251	Level 2
FY 14/15	Paine Lane	Off of Bonneville Drive	(Allison / Hertha / Spraque)	0.274	Level 2
FY 13/14	Palm Lake Drive	S. Apopka Vineland Road	Joint @ 8707 Palm Lake Drive	0.517	Level 2
FY 12/13	Palos Verde Drive			0.622	Level 2
FY 12/13	Palos Verde Drive			0.429	Level 2
FY 13/14	Pam Drive	Teresa Road	Dead End	0.091	Level 2
FY 15/16	Park Hurst Drive	Off of Lake Sparling Road	(England Ave.) Micro	0.176	Level 1
FY 12/13	Park Manor Drive	Selected roads		0.551	Level 2
FY 12/13	Park Manor Drive	Selected roads		0.323	Level 2
FY 15/16	Park Royal Drive	Off of Windy Ridge Road	(Windsor Hill Drive)	0.476	Level 3
FY 14/15	Parsons Lane	Off of S. Goldenrod Road	(Charlin Parkway / East Side)	0.037	Level 2
FY 13/14	Pat Patterson Court	Off of N. Thompson Road	(Pat Patterson Court)	0.118	Level 2
FY 13/14	Patricia Drive	Off of Vineland Road	(Cheryl Street)	0.081	Level 2
FY 14/15	Peacham Court	Off of University Blvd.	(Watermill North Ave.)	0.031	Level 2
FY 13/14	Pebble Creek Circle	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.183	Level 1

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 15/16	Pebblestone Court	Off of Lake Price Drive	(Boca Woods Drive)	0.061	Level 3
FY 15/16	Pell Mell Drive	Off of Silver Star Road	(Silver Ridge Drive)	0.062	Level 3
FY 14/15	Pembrook Drive	Forest City Road	(Maitland City Limits)	0.399	Level 2
FY 14/15	Pepperdine Place	N. Alafaya Trail	Tift Circle	0.222	Level 2
FY 14/15	Peppervine Drive	Off of Avalon Park Blvd.	(Lake Live Oak Drive)	0.225	Level 2
FY 14/15	Peppervine Drive	Off of Avalon Park Blvd.		0.253	Level 2
FY 12/13	Perez			0.116	Level 2
FY 12/13	Perez			0.153	Level 2
FY 14/15	Perrine Drive	Off of North Lane	(Meadowbrook Ave.)	0.252	Level 2
FY 14/15	Pethrick Drive	Off of E. Wetherbee Road	(Ayres Drive / Pathrick Drive)	0.302	Level 2
FY 13/14	Pickfield Court	Pine Needle Drive	Cul-De-Sac	0.029	Level 2
FY 14/15	Pierce Arrow Drive	Off of Kelly Park Road	(Katilynn Drive)	0.286	Level 2
FY 14/15	Piermont Court	Off of University Blvd.	(Watermill North Ave.)	0.044	Level 2
FY 12/13	Pinar Drive			0.950	Level 2
FY 14/15	Pinckney Drive	Off of North Lane	(Wendy Drive)	0.066	Level 2
FY 13/14	Pine Arbor Drive	Off of Lake Underhill Road	(Pine Arbor Drive)	0.432	Level 2
FY 14/15	Pine Avenue	S. Orange Ave.	Dead End	0.363	Level 2
FY 13/14	Pine Needle Drive	Terry Lynn Drive	Swiss Lane	0.097	Level 2
FY 15/16	Pinnacle Cove Boulevard	Landstar Blvd.	Dead End	0.347	Level 3
FY 14/15	Plantation Drive	Off of Forest City Road	(Falkner Road / Dianjo Drive)	0.344	Level 2
FY 14/15	Plantation Oak Drive	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.	0.916	Level 2
FY 14/15	Plantation Pointe Drive	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.	0.383	Level 2
FY 14/15	Poe Avenue	S. Fern Creek Ave. (West	Dead End	0.121	Level 2
FY 14/15	Poe Avenue	S. Fern Creek Ave. (East	Dead End	0.113	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Poet Lane	Off of N. Econlockhatchee	(Larette Drive)	0.069	Level 1
FY 13/14	Point Cypress Drive	S. Apopka-Vineland Road	Kilgore Road	0.286	Level 2
FY 14/15	Pompeii Road	Off of Redditt Road	(Gibraltar Road / Pompeii Road)	0.892	Level 2
FY 14/15	Ponderosa Pine Court	Off of Valencia College Lane	(Ponderosa Pine Court)	0.186	Level 2
FY 13/14	Portbury Drive	Off of S. Apopka Vineland Rd.	(Camberley Circle)	0.065	Level 1
FY 14/15	Prairie Plantation Way	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.)	0.408	Level 2
FY 13/14	Precourt Drive	Off of O.B.T & Sand Lake	(Jordan Ave. / Skyview Drive)	0.144	Level 2
FY 14/15	Prestwick Court	Off of El Prado	(Casa Rio Drive / Doral Road)	0.032	Level 2
FY 14/15	Prima Court	Off of N. Dean Road	(Winder Trail)	0.044	Level 1
FY 14/15	Pyrite Drive	Off of N. Tanner Road	(Stonebriar Way)	0.162	Level 2
FY 14/15	Quartz Avenue	Off of N. Tanner Road	(Stonebriar Way)	0.076	Level 2
FY 15/16	Queensbury Court	Off of Windy Ridge Road	(Windsor Hill Drive)	0.077	Level 3
FY 14/15	Rachel Street	Woodland Drive	Hill Drive	0.254	Level 2
FY 13/14	Radiant Circle	Off of Beggs Road	(Sparkling Lane)	0.519	Level 2
FY 13/14	Raeford Court	Raeford Road	Cul-De-Sac	0.038	Level 2
FY 14/15	Raftsmen Court	Off of Mark Twain Blvd.	(Lower River Blvd.)	0.041	Level 2
FY 12/13	Raleigh Street	S. Kirkman Road	S. Ivey Lane (City)	1.780	Level 2
FY 14/15	Ramir Road	Orwood Road	Bywood Road	0.091	Level 2
FY 13/14	Rangewood Boulevard	Off of Balboa Drive	(Rangewood Blvd.)	0.193	Level 2
FY 13/14	Red Fox Court	Off of N. Thompson Road	(Yvonne Street)	0.056	Level 2
FY 13/14	Red Robin Court	Off of Rhode Island Woods	(Whooping Crane Lane)	0.046	Level 1
FY 14/15	Redditt Road	Hoffner Ave.	Pershing Ave.	1.257	Level 2
FY 15/16	Rembrandt Drive	Off of N. Hiawassee Road	(Rembrandt Drive)	0.187	Level 3
FY 12/13	Renee Avenue	Hwy 50	Millinockett Ln	0.503	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 15/16	Renoir Drive	Off of N. Hiawassee Road	(Rembrandt Drive)	0.210	Level 3
FY 12/13	Renova Court			0.051	Level 2
FY 12/13	Reparto			0.218	Level 2
FY 14/15	Reverend Hobson Court	Off of Mark Twain Blvd.	(Lower River Blvd.)	0.018	Level 2
FY 14/15	Richfield Street	Off of North Lane	(Wendy Drive)	0.096	Level 2
FY 13/14	Ridge Avenue	Off of Corrine Drive	(Woodlawn Drive)	0.094	Level 2
FY 13/14	Ridge Creek Court	Off of Rhode Island Woods	(Whooping Crane Lane)	0.159	Level 1
FY 13/14	Ridgewood Avenue	Off of Powers Drive	Harwood, Livingston, Melbourne	0.202	Level 2
FY 15/16	Riggs Way	At end of Overstreet Road	(Londale Blvd.)	0.300	Level 3
FY 12/13	Rio Cove Court			0.115	Level 2
FY 14/15	Riordan Way	Off of North Lane	(Meadowbrook Ave.)	0.166	Level 2
FY 12/13	River Chase Drive	Bryan Rd	Cul de sac	0.461	Level 2
FY 12/13	River Isle Drive	River Chase Dr	River Chase Dr	0.075	Level 2
FY 14/15	River Meadows Court	Off of Mark Twain Blvd.	(Lower River Blvd.)	0.023	Level 2
FY 15/16	Riverpath Grove Drive	Off of Lake Price Drive	(Boca Woods Drive)	0.267	Level 3
FY 14/15	Rivers Court	Off of Lake Underhill Road	(Blue Water Circle)	0.058	Level 2
FY 14/15	Rivers End Road	Off of Rouse Road	(Rivers End Road)	0.243	Level 2
FY 14/15	Riviera Drive	Off of North Lane	(Meadowbrook Ave.)	0.270	Level 2
FY 14/15	Rob Lane	Off of Pershing Rd	(Bayfront Pkwy/Harbour Dr)	0.060	Level 1
FY 14/15	Robbins Avenue	Off of North Lane	(Meadowbrook Ave.)	0.831	Level 2
FY 12/13	Roberta Avenue	Selected roads		0.234	Level 2
FY 14/15	Robinson Avenue	E. 13th Street	10th Street Joint	0.255	Level 2
FY 14/15	Robinson Street	SR-441	King Ave.	0.220	Level 2
FY 15/16	Rocky Trail	Off of N.Powers Drive	(Fox Briar Trail) Micro	0.210	Level 1
FY 14/15	Rollin O Lane	McCormick Road	Section Drive	0.253	Level 2
FY 13/14	Rome Court	Off of Whisper Lakes Blvd.	(Fairmont Circle)	0.014	Level 2
FY 13/14	Rose Groves Road	Off of Balboa Drive	(Rangewood Blvd.)	0.452	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Rose Queen Court	Off of N. Forsyth Road	(Southern Charm Dive)	0.048	Level 2
FY 14/15	Rosewalk Court	N. Econlockhatchee Trail	Round-A-Bout	0.111	Level 2
FY 15/16	Roskin Lane	At end of Overstreet Road	(Londale Blvd.)	0.045	Level 3
FY 15/16	Rouse Run Circle	Off of Rouse Road	(Rouse Run Circle)	0.589	Level 3
FY 14/15	Roxbury Road	Eli Street	Dead End	0.205	Level 2
FY 14/15	Royal Fern Drive	Off of Avalon Park Blvd.	(Lake Live Oak Drive)	0.299	Level 2
FY 15/16	Rubens Court	Off of N. Hiawassee Road	(Rembrandt Drive)	0.366	Level 3
FY 15/16	Ruche Court	Off of Rouse Road	(Rouse Run Circle)	0.043	Level 3
FY 15/16	S Apopka Vineland Road	Conroy Windermere Rd	Westover Roberts Rd	1.763	Level 3
FY 14/15	S Avalon Park Boulevard	Off of Avalon Park Blvd.	(Lake Live Oak Drive)	0.276	Level 2
FY 14/15	S Bumby Avenue	Curry Ford Road	Gatlin Ave.	2.008	Level 2
FY 14/15	S Candler Avenue	Westmont Drive	Dead End	0.224	Level 2
FY 13/14	S Crystal Lake Drive	Michigan Ave.	Dead End	0.053	Level 2
FY 12/13	S Deerwood Avenue			0.796	Level 2
FY 14/15	S Fern Creek Avenue	Gatlin Ave.	End (Boat Ramp)	0.359	Level 2
FY 14/15	S Highland Avenue	12th Street	13th Street	0.084	Level 2
FY 14/15	S Lancelot Avenue	Old Winter Garden Road	Dead End	0.333	Level 2
FY 13/14	S Magnolia Avenue	Highway Place	Dead End	0.125	Level 2
FY 14/15	S Mcgee Avenue	11th Street	10th Street	0.086	Level 2
FY 13/14	S Rosalind Avenue	Highway Place	Jennie Jewel Drive	0.092	Level 2
FY 12/13	S Tampa Avenue	37th St	40th St	0.206	Level 2
FY 13/14	S Teaxas Avenue	W. Oak Ridge Road	Chancellor Drive	0.405	Level 2
FY 14/15	Sabal Palmetto Place	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.)	0.423	Level 2
FY 15/16	Sabal Pine Way	Off of Great Commission Way	(Mossy Oak Drive)	0.079	Level 3
FY 14/15	Sadler Road	SR-441	Round Lake Road	1.692	Level 2
FY 15/16	Salford Street	Off of Wyndham Lakes Blvd.	(Salford Street)	0.037	Level 3

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Salinas Drive	Off of Redditt Road	(Gibraltar Road / Pompeii Road)	0.142	Level 2
FY 14/15	Salisbury Boulevard	Eli Street	Dead End	0.190	Level 2
FY 15/16	Salter Court	Off of Silver Star Road	(Silver Ridge Drive)	0.076	Level 3
FY 14/15	Sammys Way	Off of Avalon Park Blvd.		0.101	Level 2
FY 13/14	San Antonio Avenue	Honour Road	Americana Blvd.	0.371	Level 2
FY 15/16	San Domingo Road	Balboa Drive	Barnett Place	0.199	Level 1
FY 12/13	San Marlo Way			0.083	Level 2
FY 12/13	San Toccoa Drive			0.177	Level 2
FY 14/15	Sandhurst Drive	Off of Suntree Blvd.	(Wyndcliff Cir. / Via Del Sol)	0.407	Level 2
FY 14/15	Sandridge Court	Off of Suntree Blvd.	(Wyndcliff Cir. / Via Del Sol	0.065	Level 2
FY 15/16	Sandwood Way	Off of Great Commission Way	(Mossy Oak Drive)	0.146	Level 3
FY 13/14	Sandy Lane	Silver Star Road	Healy Drive	0.370	Level 2
FY 14/15	Sanka Drive	Off of Bonneville Drive	(Allison / Hertha / Spraque	0.188	Level 2
FY 15/16	Santa Anita Street	Balboa Drive	Glendale Road	0.642	Level 1
FY 15/16	Santa Barbara Road	Balboa Drive	Barnett Place	0.213	Level 1
FY 14/15	Santa Lucia Drive	Off of Redditt Road	(Gibraltar Road / Pompeii Road)	0.100	Level 2
FY 14/15	Santee Street	W. Fairbanks Ave.	Neuse Ave.	0.443	Level 2
FY 15/16	Saratoga Drive	Off of Lake Margaret Drive	(Brandywine / Bay Tree Drive)	0.216	Level 3
FY 15/16	Sarazen Court	Sarazen Drive	Cul-De-Sac	0.029	Level 1
FY 15/16	Sarazen Drive	N. Hastings Street	Golf Club Parkway	0.504	Level 1
FY 15/16	Sassanon Court	Off of Silver Star Road	(Silver Ridge Drive)	0.047	Level 3
FY 15/16	Sassaquin Court	Off of Silver Star Road	(Silver Ridge Drive)	0.081	Level 3
FY 14/15	Satellite Boulevard	Central Florida Parkway	Dead End	0.512	Level 2
FY 14/15	Saturn Boulevard	Satelite Blvd.	Dead End	0.064	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Sawgrass Oak Street	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.)	0.172	Level 2
FY 14/15	Sawgrass Pine Circle	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.)	0.523	Level 2
FY 14/15	Sawgrass Plantation Boulevard	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.	1.015	Level 2
FY 14/15	Sawgrass Pointe Drive	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.	0.525	Level 2
FY 14/15	Sawgrass Prairie Loop	Off of E. Wetherbee Road	(Sawgrass Plantation Blvd.	0.324	Level 2
FY 12/13	Scandia Lane	Selected roads		0.141	Level 2
FY 12/13	Scioto Court			0.066	Level 2
FY 14/15	Seaman Street	Off of E. Colonial Drive	(Melanie Drive / Selma Ave.)	0.180	Level 2
FY 12/13	Seasons Point Court			0.064	Level 2
FY 14/15	Section Drive	Ocoee Apopka Road	Glover Lane	0.228	Level 2
FY 14/15	Section Drive	Ocoee Apopka Road	Walker Road	0.295	Level 2
FY 14/15	Selma Avenue	Off of E. Colonial Drive	(Melanie Drive / Selma Ave.)	0.115	Level 2
FY 14/15	Seybold Avenue	Off of North Lane	(Meadowbrook Ave.)	0.399	Level 2
FY 13/14	Shadow Wood Court	Powers Drive	Cul-De-Sac	0.099	Level 2
FY 15/16	Shakar Circle	Off of N.Powers Drive	(Christian Way)	0.150	Level 3
FY 14/15	Sharswood Circle	Off of Avalon Park Blvd.	(Lake Live Oak Drive)	0.084	Level 2
FY 15/16	Shellbark Drive	Off of Silver Star Road	(Summer Glen Drive)	0.232	Level 3
FY 14/15	Sherburn Court	Off of Mark Twain Blvd.	(Lower River Blvd.)	0.210	Level 2
FY 15/16	Sherry Drive	Magnolia Homes / Forest City	Doctor Love Rd. / Kelvington Dr.	0.280	Level 3
FY 12/13	Sheryl Ann Drive	Lancaster Rd	Amidon Ln	0.252	Level 2
FY 14/15	Short Pine Circle	Off of Valencia College Lane	(Short Pine Circle)	0.455	Level 2
FY 15/16	Shortleaf Court	Off of Silver Star Road	(Summer Glen Drive)	0.050	Level 3

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Shotgate Court	Off of Isle of Wright Drive	(Blackheath Circle)	0.122	Level 1
FY 15/16	Silver Crown Court	Off of Silver Star Road	(Summer Glen Drive)	0.112	Level 3
FY 13/14	Silver Fox Circle	Off of N. Thompson Road	(Yvonne Street)	0.309	Level 2
FY 15/16	Silver Ridge Drive	Off of Silver Star Road	(Silver Ridge Drive)	0.759	Level 3
FY 12/13	Simmons Road			0.072	Level 2
FY 14/15	Sindlesham Court	Off of Isle of Wright Drive	(Goodwyck Drive / Ipsden Drive)	0.153	Level 1
FY 14/15	Sky Blue Court	Off of Lake Underhill Road	(Blue Water Circle)	0.029	Level 2
FY 13/14	Skyview Drive	Off of O.B.T & Sand Lake	(Jordan Ave. / Skyview Drive)	0.581	Level 2
FY 14/15	Slayden Court	Off of Kelly Park Road	(Katilynn Drive)	0.085	Level 2
FY 13/14	Snowfire Drive	Off of Balboa Drive	(Rangewood Blvd.)	0.466	Level 2
FY 12/13	Socorro Avenue			0.152	Level 2
FY 14/15	Soft Pine Circle	Off of Valencia College Lane	(Ponderosa Pine Court)	0.147	Level 2
FY 12/13	Sonata Lane	Selected roads		0.141	Level 2
FY 12/13	Sonia Street			0.319	Level 2
FY 14/15	Sour Orange Drive	Off of Avalon Park Blvd.		0.054	Level 2
FY 14/15	Southern Charm Drive	Off of N. Forsyth Road	(Southern Charm Dive)	0.330	Level 2
FY 13/14	Southland Boulevard	Orange Blossom Trail	W. Sand Lake Road	0.767	Level 2
FY 15/16	Southwick Street	Off of Silver Star Road	(Summer Glen Drive)	0.183	Level 3
FY 14/15	Space Boulevard	Central Florida Parkway	Dead End	0.302	Level 2
FY 15/16	Spaniel Street	Off of N. Hiawassee Road	(Hiawassee Oak Drive)	0.129	Level 3
FY 13/14	Sparkling Lane	Off of Beggs Road	(Sparkling Lane)	0.037	Level 2
FY 14/15	Spartan Drive	Off of S. Goldenrod Road	(Charlin Parkway / East Side)	0.207	Level 2
FY 14/15	Sprague Drive	Off of Bonneville Drive	(Allison / Hertha / Spraque)	0.284	Level 2
FY 14/15	Spreakley Court	Off of Isle of Wright Drive	(Goodwyck Drive / Ipsden Drive)	0.082	Level 1
FY 15/16	Springtide Court	Off of Lake Price Drive	(Boca Woods Drive)	0.072	Level 3

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Spruce Avenue	S. Orange Ave.	Dead End	0.362	Level 2
FY 15/16	St Clair Court	Off of Silver Star Road	(Silver Ridge Drive)	0.095	Level 3
FY 15/16	St James Road	Ferdinand Drive	Elinore Drive	0.318	Level 1
FY 15/16	St Thomas Place	Emeralda Road	Santa Anita Street	0.095	Level 1
FY 15/16	Stagbury Drive	Off of Great Commission Way	(Mossy Oak Drive)	0.162	Level 3
FY 14/15	Stahl Court	Off of University Blvd.	(Watermill North Ave.)	0.102	Level 2
FY 15/16	Staley Court	Off of Silver Star Road	(Silver Ridge Drive)	0.130	Level 3
FY 14/15	Starling Road	Off of W. Fairbanks Ave.	Formosa Ave. / Ohio St. / Clay St.	0.164	Level 2
FY 13/14	Starr Drive	N. Apopka Vineland Road	Dorwood Drive	0.187	Level 2
FY 14/15	Staunton Avenue	Off of W. Fairbanks Ave.	Formosa Ave. / Ohio St. / Clay St.	0.329	Level 2
FY 15/16	Stidham Drive	Off of Silver Star Road	(Silver Ridge Drive)	0.235	Level 3
FY 14/15	Stockton Court	Off of University Blvd.	(Watermill North Ave.)	0.122	Level 2
FY 14/15	Stonebriar Way	Off of N. Tanner Road	(Stonebriar Way)	0.796	Level 2
FY 15/16	Stonebury Way	Off of Great Commission Way	(Mossy Oak Drive)	0.144	Level 3
FY 15/16	Strandhill Street	Off of Caneel Bay Blvd.	(Strandhill St. / Crosston Cir.)	0.161	Level 3
FY 14/15	Stratford Pointe Avenue	Off of Kirby Smith Road	(Stratford Pointe Ave.)	0.486	Level 2
FY 14/15	Stuart Street	Woodland Drive	Section Drive	0.254	Level 2
FY 13/14	Sugargrove Way	Off of Avalon Park Blvd.	(Waterford Chase Parkway)	0.245	Level 2
FY 13/14	Summer Day Lane	Florida Mall Ave.	W. Sand Lake Road	0.126	Level 2
FY 15/16	Summer Glen Drive	Off of Silver Star Road	(Summer Glen Drive)	0.154	Level 3
FY 14/15	Summer Haven Lane	McCormick Road	Hill Drive	0.380	Level 2
FY 13/14	Summer Street	E. Cypress Street	W.J. Peters Lane	0.031	Level 2
FY 14/15	Sun Dew Drive	Off of Avalon Park Blvd.	(Lake Live Oak Drive)	0.078	Level 2
FY 13/14	Sun Life Path	S. Orange Blossom Trail	Florida Mall Ave.	0.137	Level 2
FY 15/16	Sun Valley Court	Off of N.Powers Drive	(Fox Briar Trail) Micro	0.083	Level 1

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Sundance Court	N. Econlockhatchee Trail	Cul-De-Sac	0.101	Level 2
FY 13/14	Sunray Drive	N. Pine Hills Road	Terry Lynn Drive	0.066	Level 2
FY 15/16	Sunset Boulevard	Off of CR-535	(Sunset Blvd.)	0.272	Level 3
FY 13/14	Sunsprite Court	Off of Balboa Drive	(Rangewood Blvd.)	0.191	Level 2
FY 14/15	Suntree Boulevard	Off of Suntree Blvd.	(Wyndcliff Cir. / Via Del Sol)	1.163	Level 2
FY 14/15	Suntree Court	Off of Suntree Blvd.	(Wyndcliff Cir. / Via Del Sol)	0.038	Level 2
FY 12/13	Sutter Court			0.087	Level 2
FY 14/15	Swansea Avenue	Off of Fiquette Road	(Fossick Road)	0.222	Level 2
FY 12/13	Sweetwater Country Club Drive			0.737	Level 2
FY 13/14	Swiss Lane	Pine Needle Drive	Dead End	0.073	Level 2
FY 13/14	Taber Court	Off of Whisper Lakes Blvd.	(Ottawa Ave.)	0.034	Level 2
FY 14/15	Talaria Drive	Off of Fiquette Road	(Fossick Road)	0.284	Level 2
FY 12/13	Tall Pine Drive			0.318	Level 2
FY 14/15	Tamarino Way	Off of Eden Park Road	(Orangebrook Drive)	0.133	Level 2
FY 15/16	Tammany Court	Off of Lake Sparling Road	(England Ave.) Micro	0.029	Level 1
FY 12/13	Tangora Street	Selected roads		0.162	Level 2
FY 14/15	Tanja King Boulevard	Off of Avalon Park Blvd.		0.649	Level 2
FY 12/13	Taos Court			0.019	Level 2
FY 15/16	Telford Court	Off of Silver Star Road	(Silver Ridge Drive)	0.118	Level 3
FY 13/14	Tennyson Street	Off of O.B.T & Sand Lake	(Jordan Ave. / Skyview Drive)	0.152	Level 2
FY 14/15	Teorolli Court	Off of N. Tanner Road	(Josair Court)	0.057	Level 2
FY 13/14	Teresa Road	Long Road	Dead End	0.344	Level 2
FY 14/15	Tern Hollow Drive	Off of Avalon Park Blvd.	(Red Mangrove Drive)	0.100	Level 2
FY 12/13	Ternstone Avenue			0.237	Level 2
FY 13/14	Terra Alta Court	Off of Greenacre Road	(Mink Drive, North & South	0.060	Level 2
FY 13/14	Terry Lynn Drive	Sunray Drive	Pine Needle Drive	0.070	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Tetley Court	Off of University Blvd.	(Watermill North Ave.)	0.097	Level 2
FY 13/14	Thornton Heath Drive	Off of Landstar Blvd.	(Misley Drive)	0.051	Level 2
FY 13/14	Thorpe Road	Bachman Road	Dead End	0.255	Level 2
FY 13/14	Thurber Court	Off of Whisper Lakes Blvd.	(Fairmont Circle)	0.036	Level 2
FY 14/15	Tiderace Court	Off of Redditt Road	(Tidewave Street)	0.037	Level 2
FY 14/15	Tidewave Street	Off of Redditt Road	(Tidewave Street)	0.181	Level 2
FY 14/15	Tiffany Drive	Off of N. Forsyth Road	(Partridge Lane / Dorris Drive)	0.200	Level 2
FY 14/15	Tift Circle	Pepperdine Place	Pepperdine Place	0.163	Level 2
FY 14/15	Tilden Avenue	S. Apopka Blvd.	Dead End	0.343	Level 2
FY 14/15	Tilden Avenue	S. Apopka Blvd.	E. 10th Street	0.012	Level 2
FY 14/15	Timber Springs Boulevard	Avalon Park Blvd.	Avalon Park Blvd.	1.428	Level 2
FY 13/14	Timberwolf Trail	Off of N. Thompson Road	(Yvonne Street)	0.377	Level 2
FY 14/15	Timor Avenue	Adanson Street	Dead End	0.251	Level 2
FY 14/15	Timor Avenue	Adanson Street	Eli Street	0.252	Level 2
FY 14/15	Tiptree Circle	Off of Isle of Wright Drive	(Tiptree Circle)	0.564	Level 1
FY 13/14	Titan Row	Directors Row	Currency Row	1.164	Level 2
FY 14/15	Todd Avenue	Off of S. Goldenrod Road	(Charlin Parkway / East Side)	0.142	Level 2
FY 13/14	Tony Street	Long Road	Miracle Road	0.155	Level 2
FY 14/15	Tower Street	Off of E. Colonial Drive	(Melanie Drive / Selma Ave.)	0.091	Level 2
FY 14/15	Town Loop Boulevard	S. John Young Parkway	W. Town Center Blvd.	1.311	Level 2
FY 14/15	Town Loop Boulevard	W. Town Center Blvd.	S. John Young Parkway	0.470	Level 2
FY 12/13	Travis Street			0.054	Level 2
FY 14/15	Tree Ridge Lane	Off of N. Econlockhatchee	(Montello Drive)	0.511	Level 1
FY 13/14	Treefern Court	Off of Whisper Lakes Blvd.	(Whispering Tree Ave.)	0.052	Level 2
FY 14/15	Trescott Drive	Off of University Blvd.	(Watermill North Ave.)	0.370	Level 2
FY 15/16	Triangle Avenue	Mae Street	Fern Creek Ave.	0.188	Level 3

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 15/16	Triumph Court	Business Center Blvd.	Dead End to Dead End	0.094	Level 3
FY 14/15	Trulock Court	Off of N. Econlockhatchee	(Lake Douglas Place)	0.130	Level 2
FY 14/15	Turkey Oak Bend	Off of N. Econlockhatchee	(Montello Drive)	0.326	Level 1
FY 14/15	Turquoise Lane	Off of N. Forsyth Road	(Partridge Lane / Dorris Drive)	0.126	Level 2
FY 13/14	Twelve Oaks Drive	Off of Landstar Blvd.	(Twelve Oaks Drive)	0.092	Level 1
FY 14/15	Uncle Jack Court	Off of Mark Twain Blvd.	(Lower River Blvd.)	0.121	Level 2
FY 13/14	Underhill Loop Drive	Off of Lake Underhill Road	(Pine Arbor Drive)	0.178	Level 2
FY 14/15	Union Street	Ponkan Road	Jones Ave.	0.254	Level 2
FY 14/15	Usher Avenue	Off of S. Goldenrod Road	(Charlin Parkway / East Side)	0.129	Level 2
FY 14/15	Valley Drive	Ocoee Apopka Road	Walker Road	0.242	Level 2
FY 15/16	Valley Forge Road	Off of Lake Margaret Drive	(Brandywine / Bay Tree Drive)	0.139	Level 3
FY 15/16	Valleybrooke Lane	Off of Lake Price Drive	(Boca Woods Drive)	0.196	Level 3
FY 14/15	Vaughn Avenue	Outlook Street	Waterwitch Drive	0.088	Level 2
FY 13/14	Vega Court	Off of Whisper Lakes Blvd.	(Ottawa Ave.)	0.020	Level 2
FY 14/15	Venice Drive	Off of Pershing Rd	(Bayfront Pkwy/Harbour Dr)	0.112	Level 1
FY 12/13	Vesta Terrace			0.191	Level 2
FY 14/15	Via Del Sol	Off of Suntree Blvd.	(Wyndcliff Cir. / Via Del Sol)	0.496	Level 2
FY 12/13	Via Pilar			0.146	Level 2
FY 13/14	Victor Drive	Busbee Ave.	O.B.T. / 441	0.238	Level 2
FY 13/14	Villa Drive	Forest City Road	Edgewater Drive	0.275	Level 2
FY 13/14	Villas Oak Court	Dorscher Road	Cul-De-Sac	0.032	Level 2
FY 13/14	Vineland Avenue	International Drive	Pavement Joint (Marriott Village)	0.495	Level 2
FY 14/15	Virginia Pine Court	Off of Valencia College Lane	(Ponderosa Pine Court)	0.039	Level 2
FY 13/14	Viscount Row	Presidents Drive	Chancellor Drive	0.258	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 12/13	Vista Oaks Court	Winter Garden / Vineland Road	Cul-De-Sac	0.255	Level 2
FY 12/13	Vistana Centre Drive	State Road - 535	Meadow Creek Drive	0.437	Level 2
FY 13/14	Voltaire Drive	Off of O.B.T & Sand Lake	(Jordan Ave. / Skyview Drive)	0.290	Level 2
FY 13/14	Von Bampus Drive	Off of O.B.T & Sand Lake	(Jordan Ave. / Skyview Drive)	0.099	Level 2
FY 12/13	W Amelia Street	N. Pine Hills Rd	Wilmer Ave	0.119	Level 2
FY 13/14	W Harwood Avenue	Off of Powers Drive	Harwood, Livingston, Melbourne	0.252	Level 2
FY 13/14	W Highland Avenue	Plymouth Sorrento Road	River Rock Blvd	0.280	Level 2
FY 13/14	W J PETERS Lane	Summer Street	E. Cypress Street	0.131	Level 2
FY 13/14	W Lancaster Road	Orange Blossom Trail	Lake Ellenor Drive	0.236	Level 2
FY 13/14	W Livingston Avenue	Off of Powers Drive	(W. Livingston Ave.)	0.050	Level 2
FY 13/14	W Livingston Street	Off of Powers Drive	Harwood, Livingston, Melbourne	0.252	Level 2
FY 13/14	W Livingston Street	Off of Powers Drive	(W. Livingston Ave.)	0.147	Level 2
FY 14/15	W Mccormick Road	Ocoee Apopka Road	N. Apopka Vineland Road	2.777	Level 2
FY 13/14	W Town Center Boulevard	S. John Young Parkway	O.B.T. (Pending OUC Project)	1.236	Level 2
FY 12/13	Waconda Lane	Off of S. Orange Blossom Trail	Bardston Ave.	0.056	Level 2
FY 14/15	Wadsworth Road	SR-441	Terrell Road	0.241	Level 2
FY 14/15	Walker Road	Section Drive	Dead End	0.468	Level 2
FY 15/16	Wallington Drive	Magnolia Homes / Forest City	Doctor Love Rd. / Kelvington Dr.	0.254	Level 3
FY 15/16	Warden Drive	Off of Silver Star Road	(Silver Ridge Drive)	0.110	Level 3
FY 14/15	Washington Street	Jones Ave.	School Pavement Joint	0.319	Level 2
FY 13/14	Washington Woods Lane	Off of Landstar Blvd.	(Washington Woods Lane)	0.076	Level 2
FY 14/15	Waterfront Parkway	Off of Pershing Rd	(Bayfront Pkwy/Harbour Dr)	0.365	Level 1

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 13/14	Waterlily Court	Off of Whisper Lakes Blvd.	(Ottawa Ave.)	0.031	Level 2
FY 14/15	Watermill Avenue	Off of University Blvd.	(Watermill North Ave.)	0.417	Level 2
FY 14/15	Watermill North Avenue	Off of University Blvd.	(Watermill North Ave.)	0.172	Level 2
FY 14/15	Watermill South Avenue	Off of University Blvd.	(Watermill North Ave.)	0.181	Level 2
FY 14/15	Waterwitch Drive	S. Fern Creek Ave.	Dead End	0.421	Level 2
FY 12/13	Waywood Avenue			0.189	Level 2
FY 12/13	Waywood Court			0.039	Level 2
FY 15/16	Weetamoo Circle	Off of Silver Star Road	(Silver Ridge Drive)	0.297	Level 3
FY 14/15	Wendy Drive	Off of North Lane	(Wendy Drive)	0.170	Level 2
FY 13/14	Wentrop Lane	Edgewater Drive	Dead End	0.099	Level 2
FY 14/15	Weomi Court	Off of N. Tanner Road	(Josair Court)	0.073	Level 2
FY 14/15	Westmont Drive	Hiawassee Road	Enka Ave.	0.223	Level 2
FY 14/15	Westport Terrace	Off of University Blvd.	(Watermill North Ave.)	0.040	Level 2
FY 13/14	Whisper Lakes Club Circle	Off of Whisper Lakes Blvd.	(Ottawa Ave.)	0.562	Level 2
FY 13/14	Whispering Maple Drive	Off of Whisper Lakes Blvd.	(Whispering Tree Ave.)	0.574	Level 2
FY 13/14	Whispering Tree Avenue	Off of Whisper Lakes Blvd.	(Whispering Tree Ave.)	0.173	Level 2
FY 13/14	White Rose Drive	Off of Balboa Drive	(Rangewood Blvd.)	0.325	Level 2
FY 13/14	Whitehorse Court	Off of Whisper Lakes Blvd.	(Ottawa Ave.)	0.032	Level 2
FY 14/15	Whitestone Court	Off of Suntree Blvd.	(Wyndcliff Cir. / Via Del Sol	0.035	Level 2
FY 14/15	Whittingham Drive	Off of University Blvd.	(Watermill North Ave.)	0.130	Level 2
FY 13/14	Whooping Crane Lane	Off of Rhode Island Woods	(Whooping Crane Lane)	0.218	Level 1
FY 13/14	Wickham Way	Off of S. Apopka Vineland Rd.	(Bristol Park Drive)	1.070	Level 2
FY 14/15	Widow Bartley Drive	Off of Mark Twain Blvd.	(Lower River Blvd.)	0.120	Level 2
FY 13/14	Wildcat Court	Off of N. Thompson Road	(Yvonne Street)	0.070	Level 2
FY 12/13	Willow Springs Court			0.133	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 15/16	Willow Street	SR 441	Mohawk Dr	0.626	Level 3
FY 15/16	Willowcrest Court	Off of Lake Price Drive	(Boca Woods Drive)	0.053	Level 3
FY 12/13	Wilmer Avenue	W. Amelia St	Hwy 50	0.266	Level 2
FY 14/15	Winder Trail	Off of N. Dean Road	(Winder Trail)	0.361	Level 1
FY 13/14	Winderside Place	Off of Conroy Windermere Rd.	(Winderside Place)	0.041	Level 1
FY 13/14	Winderwood Circle	Off of Conroy Windermere Rd.	(Winderside Place)	0.467	Level 1
FY 13/14	Windsome Court	Off of Beggs Road	(Sparkling Lane)	0.103	Level 2
FY 15/16	Windsor Hill Drive	Off of Windy Ridge Road	(Windsor Hill Drive)	0.509	Level 3
FY 13/14	Windy Hill Way	Off of Balboa Drive	(Woodman Way)	0.247	Level 2
FY 14/15	Wingham Court	Off of Isle of Wright Drive	(Ipsden Drive)	0.062	Level 1
FY 14/15	Winifred Avenue	Ponkan Road	SR-441	0.286	Level 2
FY 13/14	Wisconsin Woods Lane	Off of Landstar Blvd.	(Washington Woods Lane)	0.108	Level 2
FY 13/14	Wittenwood Cove	Off of S. Apopka Vineland Rd.	(Bristol Park Drive)	0.188	Level 2
FY 13/14	Woodbury Road	Lake Underhill Road	South Bound 1,100' to Joint	0.891	Level 2
FY 14/15	Woodland Drive	Ocoee Apopka Road	Rollin O Lane	0.306	Level 2
FY 13/14	Woodlawn Drive	Off of Corrine Drive	(Woodlawn Drive)	0.337	Level 2
FY 13/14	Woodman Way	Off of Balboa Drive	(Woodman Way)	0.097	Level 2
FY 12/13	Woods Street	20th St	Kaley Ave	0.063	Level 2
FY 13/14	Woodside Avenue	Off of Corrine Drive	(Woodlawn Drive)	0.093	Level 2
FY 15/16	Woodworth Way	Off of N. Hiawassee Road	(Hiawassee Oak Drive)	0.129	Level 3
FY 13/14	Worth Street	Long Road	Dead End	0.192	Level 2
FY 14/15	Wortham Court	Off of Valencia College Lane	Fenwick Drive / Chickasaw Trail	0.032	Level 2
FY 14/15	Wyndcliff Circle	Off of Suntree Blvd.	(Wyndcliff Cir. / Via Del Sol)	0.471	Level 2
FY 14/15	Wyndcliff Court	Off of Suntree Blvd.	(Wyndcliff Cir. / Via Del Sol)	0.019	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGTH (MI)	RESURFACING RANKING
FY 14/15	Wyndcliff Drive	Off of Suntree Blvd.	(Wyndcliff Cir. / Via Del Sol)	0.209	Level 2
FY 14/15	Yamala Court	Off of N. Tanner Road	(Josair Court)	0.092	Level 2
FY 12/13	Yuma Court			0.020	Level 2
FY 13/14	Yvonne Street	Off of N. Thompson Road	(Yvonne Street)	0.384	Level 2
FY 14/15	Zonna Avenue	Off of North Lane	(Wendy Drive)	0.070	Level 2
FY 14/15	Zori Lane	Off of Fiquette Road	(Fossick Road)	0.705	Level 2

13. Selected Corridors for Initial Data Collection (2015) as Identified by the Orange County Capital Improvement Program

FISCAL YEAR	STREET NAME	FROM	то	LENGT H (MI)	RESURFACING RANKING
FY 12/13	18th Street	Westmoreland Dr	Hwy 441	0.252	Level 2
FY 12/13	Abercorn Drive			0.097	Level 2
FY 14/15	Abernant Court	Off of Isle of Wright Drive	(Blackheath Circle)	0.026	Level 1
FY 12/13	Acoma Drive			0.339	Level 2
FY 14/15	Alabama Woods Lane	Off of E. Wetherbee Road	(Club Woods Drive)	0.371	Level 1
FY 14/15	Alaska Woods Lane	Off of E. Wetherbee Road	(Club Woods Drive)	0.180	Level 1
FY 12/13	Allwood Place			0.141	Level 2
FY 12/13	Amidon Lane	Sheryl Ann Dr	Calypso Dr	0.135	Level 2
FY 14/15	Arbor Court	Off of N. Econlockhatchee	(Montello Drive)	0.161	Level 1
FY 14/15	Arizona Woods Lane	Off of E. Wetherbee Road	(Club Woods Drive)	0.136	Level 1
FY 14/15	Arkansas Woods Court	Off of E. Wetherbee Road	(Club Woods Drive)	0.054	Level 1
FY 13/14	Avonlea Court	Off of Rhode Island Woods	(Whooping Crane Lane)	0.045	Level 1
FY 12/13	Baffie Avenue	Minnesota Ave.	Dead End	0.223	Level 2
FY 12/13	Barbados Avenue	Selected roads		0.191	Level 2
FY 15/16	Barnett Place	Santa Anita Street	Emeralda Road	0.201	Level 1
FY 12/13	Bay Springs Drive	Apopka Vineland Rd	Cul-de-sac	0.120	Level 2
FY 12/13	Bay Valley Court	Bay Springs Dr	Cul-de-sac	0.052	Level 2
FY 12/13	Beach Boulevard	Zell Drive	City joint	0.490	Level 2
FY 13/14	Beckingham Place	Off of S. Apopka Vineland Rd.	(Camberley Circle)	0.118	Level 1
FY 15/16	Ben Hogan Circle	N. Hastings Street	Dead End	0.153	Level 1
FY 13/14	Bending Branch Court	Off of Landstar Blvd.	(Twelve Oaks Drive)	0.161	Level 1
FY 14/15	Binfield Court	Off of Isle of Wright Drive	(Tiptree Circle)	0.137	Level 1
FY 12/13	Bird Lane	Windy Ridge Road	Cul-De-Sac	0.080	Level 2
FY 14/15	Blackheath Circle	Off of Isle of Wright Drive	(Blackheath Circle)	0.566	Level 1

FISCAL YEAR	STREET NAME	FROM	то	LENGT H (MI)	RESURFACING RANKING
FY 14/15	Blackmoor Drive	Off of Isle of Wright Drive	(Blackmoor Dr / Monktun Rd)	0.441	Level 1
FY 12/13	Bonifay Avenue			0.319	Level 2
FY 14/15	Boxeney Court	Off of Isle of Wright Drive	(Goodwyck Drive / Ipsden Drive)	0.013	Level 1
FY 14/15	Boxeney Drive	Off of Isle of Wright Drive	(Goodwyck Drive / Ipsden Drive)	0.110	Level 1
FY 14/15	Brampton Court	Off of N. Econlockhatchee	(Montello Drive)	0.136	Level 1
FY 14/15	Brimton Drive	Off of N. Econlockhatchee	(Montello Drive)	0.198	Level 1
FY 15/16	Britan Drive	Off of Lake Sparling Road	(England Ave.) Micro	0.351	Level 1
FY 14/15	Broad Oak Court	Off of Isle of Wright Drive	(Goodwyck Drive / Ipsden Drive)	0.085	Level 1
FY 13/14	Brook Hollow Drive	Off of Rhode Island Woods	(Whooping Crane Lane)	0.547	Level 1
FY 12/13	Bryan Road	Goldenrod Rd	Pine Crossing Cir	0.268	Level 2
FY 12/13	Bunting Avenue			0.269	Level 2
FY 12/13	Burris Court	Winter Garden / Vineland Road	Cul-De-Sac	0.127	Level 2
FY 14/15	Burryport Drive	Off of Isle of Wright Drive	(New Chapel Drive / Burryport)	0.072	Level 1
FY 12/13	Buttonwood Street			0.299	Level 2
FY 14/15	Buxton Court	Off of N. Econlockhatchee	(Montello Drive)	0.122	Level 1
FY 14/15	California Woods Circle	Off of E. Wetherbee Road	(Club Woods Drive)	0.589	Level 1
FY 14/15	California Woods Court	Off of E. Wetherbee Road	(Club Woods Drive)	0.033	Level 1
FY 12/13	Calwood Court			0.043	Level 2
FY 12/13	Calypso Drive	Amidon Ln	Lancaster Rd	0.250	Level 2
FY 13/14	Camberley Circle	Off of S. Apopka Vineland Rd.	(Camberley Circle)	0.826	Level 1
FY 15/16	Camrose Court	Off of N.Powers Drive	(Fox Briar Trail) Micro	0.079	Level 1
FY 12/13	Canada Avenue	Sand Lake Road	Carrier Drive	0.421	Level 2
FY 14/15	Carolina Woods Lane	Off of E. Wetherbee Road	(Club Woods Drive)	0.222	Level 1
FY 12/13	Carrier Drive	I-Drive	City Limits	0.253	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGT H (MI)	RESURFACING RANKING
FY 13/14	Castleford Point	Off of S. Apopka Vineland Rd.	(Camberley Circle)	0.179	Level 1
FY 12/13	Century Drive	Claude Ave	Delta St	0.186	Level 2
FY 15/16	Cham Court	Off of Lake Sparling Road	(England Ave.) Micro	0.031	Level 1
FY 15/16	Chamonix Court	Off of Lake Sparling Road	(England Ave.) Micro	0.020	Level 1
FY 12/13	Charleswood Avenue			0.249	Level 2
FY 14/15	Chestfield Court	Off of Isle of Wright Drive	(Ipsden Drive)	0.075	Level 1
FY 12/13	Chicadee Avenue			0.128	Level 2
FY 14/15	Chisbury Court	Off of Isle of Wright Drive	(Blackmoor Dr / Monktun Rd)	0.019	Level 1
FY 14/15	Chisbury Drive	Off of Isle of Wright Drive	(Blackmoor Dr / Monktun Rd)	0.115	Level 1
FY 12/13	Cimarron Drive			0.512	Level 2
FY 14/15	Clacton Drive	Off of Isle of Wright Drive	(Blackheath Circle)	0.168	Level 1
FY 12/13	Claude Avenue	Semoran Blvd	Century Dr	0.119	Level 2
FY 14/15	Club Woods Drive	Off of E. Wetherbee Road	(Club Woods Drive)	0.278	Level 1
FY 12/13	Cobbleridge Court			0.031	Level 2
FY 15/16	Cochita Drive	Emeralda Road	Dead End	0.093	Level 1
FY 13/14	Coldwater Court	Off of Rhode Island Woods	(Whooping Crane Lane)	0.087	Level 1
FY 14/15	Connecticut Woods Court	Off of E. Wetherbee Road	(Club Woods Drive)	0.061	Level 1
FY 15/16	Cortez Drive	N. Hastings Street	N. Pine Hills Road	0.615	Level 1
FY 15/16	Coyote Trail	Off of N.Powers Drive	(Fox Briar Trail) Micro	0.193	Level 1
FY 14/15	Cranbourne Drive	Off of Isle of Wright Drive	(Goodwyck Drive / Ipsden Drive)	0.166	Level 1
FY 12/13	Crossbryn Court	Bryan Rd	Cul de sac	0.027	Level 2
FY 13/14	Crosshair Circle	Off of Deerfield Blvd.	(Crosshair Circle)	0.397	Level 1
FY 14/15	Crosswell Court	Off of Isle of Wright Drive	(Blackmoor Dr / Monktun Rd)	0.077	Level 1
FY 12/13	Curlew Drive			0.073	Level 2
FY 14/15	Cuxham Court	Off of Isle of Wright Drive	(Blackheath Circle)	0.020	Level 1

FISCAL YEAR	STREET NAME	FROM	то	LENGT H (MI)	RESURFACING RANKING
FY 14/15	Cuxham Drive	Off of Isle of Wright Drive	(Blackheath Circle)	0.124	Level 1
FY 12/13	Darnell Place			0.056	Level 2
FY 12/13	Darwood Drive			0.024	Level 2
FY 12/13	Dillon Circle	Lake Underhill Road	Bamboo Dr	0.116	Level 2
FY 12/13	Distribution Court	Hoffner Ave.	Dead End	0.175	Level 2
FY 14/15	Dobbin Drive	Off of N. Econlockhatchee	(Montello Drive)	0.107	Level 1
FY 14/15	Dobbin Drive	Off of N. Dean Road	(Winder Trail)	0.227	Level 1
FY 12/13	Driver Avenue	Minnesota Ave.	Fairbanks Ave.	0.253	Level 2
FY 14/15	Echo Run	Off of N. Econlockhatchee	(Larette Drive)	0.066	Level 1
FY 12/13	El Portal Court			0.044	Level 2
FY 12/13	El Prado			0.278	Level 2
FY 15/16	Elinore Drive	Cochita Drive	N. Pine Hills Road	0.366	Level 1
FY 15/16	Emeralda Road	Balboa Drive	Ferdinand Drive	0.911	Level 1
FY 15/16	England Avenue	Off of Lake Sparling Road	(England Ave.) Micro	0.215	Level 1
FY 12/13	Ensenada Drive			0.824	Level 2
FY 12/13	Ensenada Drive			0.444	Level 2
FY 12/13	Everwood Street			0.206	Level 2
FY 12/13	Fairlane Avenue	Orange Ave	Jason St	0.433	Level 2
FY 14/15	Fambridge Road	Off of Isle of Wright Drive	(New Chapel Drive / Burryport)	0.185	Level 1
FY 12/13	Fernando Street	Selected roads		0.071	Level 2
FY 12/13	Fernando Street	Selected roads		0.158	Level 2
FY 15/16	Ferndell Road	Balboa Drive	Santa Anita Street	0.380	Level 1
FY 12/13	Ficquette Road	SR 535	Reams Road	2.449	Level 2
FY 15/16	Fox Briar Trail	Off of N.Powers Drive	(Fox Briar Trail) Micro	0.232	Level 1
FY 15/16	Fox Hunt Trail	Off of N.Powers Drive	(Fox Briar Trail) Micro	0.448	Level 1
FY 15/16	Fox Hunt Trail	Off of Lake Sparling Road	(England Ave.) Micro	0.030	Level 1
FY 12/13	Fox Squirrel Court			0.117	Level 2
FY 14/15	Frieth Drive	Off of Isle of Wright Drive	(Tiptree Circle)	0.139	Level 1
FY 15/16	Glendale Road	Lawndale Road	Sarazen Drive	0.257	Level 1

FISCAL YEAR	STREET NAME	FROM	то	LENGT H (MI)	RESURFACING RANKING
FY 15/16	Gleneagle Road	Ben Hogan Circle	Sarazen Drive	0.087	Level 1
FY 14/15	Goodwyck Drive	Off of Isle of Wright Drive	(Goodwyck Drive / Ipsden Drive)	0.121	Level 1
FY 12/13	Gran Paseo Drive			0.741	Level 2
FY 12/13	Gran Via			0.149	Level 2
FY 13/14	Grassy Cove Circle	Off of Landstar Blvd.	(Twelve Oaks Drive)	0.496	Level 1
FY 14/15	Grazeley Court	Off of Isle of Wright Drive	(Blackmoor Dr / Monktun Rd)	0.071	Level 1
FY 13/14	Green Gable Court	Off of Rhode Island Woods	(Whooping Crane Lane)	0.026	Level 1
FY 15/16	Green Velvet Court	Off of N.Powers Drive	(Fox Briar Trail) Micro	0.083	Level 1
FY 12/13	Greens Avenue	Oglesby Ave.	Minnesota Ave.	0.117	Level 2
FY 12/13	Havasu Drive			0.577	Level 2
FY 12/13	Haywood Court			0.068	Level 2
FY 14/15	Hendy Court	Off of N. Dean Road	(Winder Trail)	0.042	Level 1
FY 12/13	Hewett Drive	Semoran Blvd	Semoran Blvd	0.331	Level 2
FY 15/16	Higgins Way	Off of Lake Sparling Road	(England Ave.) Micro	0.172	Level 1
FY 14/15	Hockley Court	Off of Isle of Wright Drive	(Ipsden Drive)	0.064	Level 1
FY 12/13	Hollow Branch Court			0.046	Level 2
FY 15/16	Hollow Court	Off of N.Powers Drive	(Fox Briar Trail) Micro	0.042	Level 1
FY 15/16	Hollow Trail	Off of N.Powers Drive	(Fox Briar Trail) Micro	0.052	Level 1
FY 14/15	Hullbridge Court	Off of Isle of Wright Drive	(Blackheath Circle)	0.136	Level 1
FY 13/14	Huntingfield Court	Off of Landstar Blvd.	(Twelve Oaks Drive)	0.111	Level 1
FY 13/14	Huntingfield Drive	Off of Landstar Blvd.	(Twelve Oaks Drive)	0.209	Level 1
FY 15/16	Hyde Park Avenue	Off of Lake Sparling Road	(England Ave.) Micro	0.272	Level 1
FY 13/14	Idaho Woods Lane	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.377	Level 1
FY 13/14	Illinois Woods Lane	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.481	Level 1
FY 13/14	Indiana Woods Lane	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.222	Level 1
FY 13/14	Iowa Woods Circle E	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.456	Level 1
FY 13/14	Iowa Woods Circle W	Off of Landstar Blvd.	(Iowa Woods Circle)	0.487	Level 1
FY 13/14	Iowa Woods Circle W	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.039	Level 1

FISCAL YEAR	STREET NAME	FROM	то	LENGT H (MI)	RESURFACING RANKING
FY 14/15	Ipsden Drive	Off of Isle of Wright Drive	(Blackheath Circle)	0.191	Level 1
FY 14/15	Ipsden Drive	Off of Isle of Wright Drive	(Ipsden Drive)	0.251	Level 1
FY 12/13	Jadewood Avenue			0.196	Level 2
FY 12/13	Julian Street	Minnesota Ave.	Dead End	0.173	Level 2
FY 13/14	Kansas Woods Court	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.032	Level 1
FY 12/13	Kayenta Court			0.126	Level 2
FY 12/13	Kaywood Drive			0.141	Level 2
FY 13/14	Kenmure Cove	Off of S. Apopka Vineland Rd.	(Camberley Circle)	0.115	Level 1
FY 13/14	Kentucky Woods Lane E	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.297	Level 1
FY 13/14	Kentucky Woods Lane W	Off of Landstar Blvd.	(Iowa Woods Circle)	0.234	Level 1
FY 13/14	Kentucky Woods Lane W	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.038	Level 1
FY 12/13	La Lista Court			0.037	Level 2
FY 14/15	Lake Douglas Place	Off of N. Econlockhatchee	(Montello Drive)	0.205	Level 1
FY 15/16	Lake Lorine Drive	Lawndale Road	Sarazen Drive	0.234	Level 1
FY 12/13	Lake Trail Drive	Landstar Blvd	Lake Biscayne Way	0.184	Level 2
FY 14/15	Larette Drive	Off of N. Econlockhatchee	(Larette Drive)	0.283	Level 1
FY 13/14	Larks Nest Court	Off of Rhode Island Woods	(Whooping Crane Lane)	0.072	Level 1
FY 15/16	Lavon Way	Ferndell Road	Glendale Road	0.072	Level 1
FY 15/16	Lawndale Road	N. Hastings Street	Glendale Road	0.158	Level 1
FY 15/16	Lemos Court	Off of Lake Sparling Road	(England Ave.) Micro	0.022	Level 1
FY 14/15	Leston Court	Off of N. Econlockhatchee	(Larette Drive)	0.115	Level 1
FY 12/13	Leswood Street			0.252	Level 2
FY 13/14	Louisiana Woods Court	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.066	Level 1
FY 12/13	Lyle Street	Century Dr	End	0.132	Level 2
FY 13/14	Lyndhurst Place	Off of S. Apopka Vineland Rd.	(Camberley Circle)	0.044	Level 1
FY 12/13	Madeira Avenue			0.094	Level 2
FY 13/14	Maine Woods Court	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.049	Level 1

FISCAL YEAR	STREET NAME	FROM	то	LENGT H (MI)	RESURFACING RANKING
FY 12/13	Majestic Oak Court			0.027	Level 2
FY 12/13	Majestic Oak Drive			1.177	Level 2
FY 12/13	Margavera Drive			0.158	Level 2
FY 15/16	Marigot Court	Off of Lake Sparling Road	(England Ave.) Micro	0.024	Level 1
FY 14/15	Martz Court	Off of N. Dean Road	(Winder Trail)	0.039	Level 1
FY 13/14	Maryland Woods Court	Off of Landstar Blvd.	(Kentucky Woods Lane)	0.083	Level 1
FY 13/14	Massachusetts Woods Lane	Off of Landstar Blvd.	(Iowa Woods Circle)	0.108	Level 1
FY 12/13	Meadow Creek Drive	State Road - 535	Dead End	0.691	Level 2
FY 13/14	Meadowmouse Street	Off of Deerfield Blvd.	(Crosshair Circle)	0.211	Level 1
FY 12/13	Mellowood Avenue			0.305	Level 2
FY 12/13	Mendoza Drive			0.057	Level 2
FY 12/13	Mendoza Drive			0.402	Level 2
FY 12/13	Mesa Court			0.019	Level 2
FY 12/13	Mescalero Street			0.172	Level 2
FY 13/14	Michigan Woods Court	Off of Landstar Blvd.	(Iowa Woods Circle)	0.047	Level 1
FY 14/15	Millbridge Court	Off of Isle of Wright Drive	(Blackmoor Dr / Monktun Rd)	0.082	Level 1
FY 12/13	Minnesota Avenue	Greens Ave.	Formosa Ave.	0.502	Level 2
FY 13/14	Minnesota Woods Lane	Off of Landstar Blvd.	(Iowa Woods Circle)	0.139	Level 1
FY 13/14	Mississippi Woods Lane	Off of Landstar Blvd.	(Iowa Woods Circle)	0.175	Level 1
FY 13/14	Missouri Woods Court	Off of Landstar Blvd.	(Iowa Woods Circle)	0.032	Level 1
FY 13/14	Misty Creek Court	Off of Landstar Blvd.	(Twelve Oaks Drive)	0.027	Level 1
FY 14/15	Monkton Road	Off of Isle of Wright Drive	(Blackmoor Dr / Monktun Rd)	0.171	Level 1
FY 13/14	Montana Woods Lane	Off of Landstar Blvd.	(Iowa Woods Circle)	0.437	Level 1
FY 14/15	Montello Drive	Off of N. Econlockhatchee	(Montello Drive)	0.398	Level 1
FY 12/13	Morosgo Court			0.017	Level 2
FY 13/14	Nebraska Woods Court	Off of Landstar Blvd.	(Iowa Woods Circle)	0.079	Level 1
FY 13/14	Nevada Woods Court	Off of Landstar Blvd.	(Iowa Woods Circle)	0.038	Level 1
FY 14/15	Newbolt Drive	Off of N. Econlockhatchee	(Larette Drive)	0.256	Level 1

FISCAL YEAR	STREET NAME			LENGT H (MI)	RESURFACING RANKING
FY 14/15	Newchapel Court	Off of Isle of Wright Drive	(New Chapel Drive / Burryport)	0.132	Level 1
FY 14/15	Newchapel Drive	Off of Isle of Wright Drive	(New Chapel Drive / Burryport)	0.090	Level 1
FY 13/14	Newfield Drive	Off of Deerfield Blvd.	(Crosshair Circle)	0.134	Level 1
FY 13/14	Newt Street	Off of Deerfield Blvd.	(Crosshair Circle)	0.211	Level 1
FY 12/13	Norma Drive	School Gate	End	0.262	Level 2
FY 15/16	Norvale Court	Off of Lake Sparling Road	(England Ave.) Micro	0.065	Level 1
FY 12/13	Notchwood Court			0.144	Level 2
FY 12/13	Ogelsby Avenue	Overspin Drive	Julian Street	0.126	Level 2
FY 12/13	Oglesby Avenue	Driver Ave.	Greens Ave.	0.062	Level 2
FY 12/13	Old Cheney Hwy.	SR-436 / N. Semoran Blvd.	E. Colonial Dr	0.923	Level 2
FY 15/16	Olympic Court	Off of N.Powers Drive	(Fox Briar Trail) Micro	0.088	Level 1
FY 12/13	Outwood Street			0.028	Level 2
FY 12/13	Overspin Drive	Fairbanks Ave.	Minnesota Ave.	0.247	Level 2
FY 12/13	Palos Verde Drive			0.622	Level 2
FY 12/13	Palos Verde Drive			0.429	Level 2
FY 15/16	Park Hurst Drive	Off of Lake Sparling Road	(England Ave.) Micro	0.176	Level 1
FY 12/13	Park Manor Drive	Selected roads		0.551	Level 2
FY 12/13	Park Manor Drive	Selected roads		0.323	Level 2
FY 12/13	Perez			0.116	Level 2
FY 12/13	Perez			0.153	Level 2
FY 12/13	Pinar Drive			0.950	Level 2
FY 14/15	Poet Lane	Off of N. Econlockhatchee	(Larette Drive)	0.069	Level 1
FY 13/14	Portbury Drive	Off of S. Apopka Vineland Rd.	(Camberley Circle)	0.065	Level 1
FY 14/15	Prima Court	Off of N. Dean Road	(Winder Trail)	0.044	Level 1
FY 12/13	Raleigh Street	S. Kirkman Road	S. Ivey Lane (City)	1.520	Level 2
FY 13/14	Red Robin Court	Off of Rhode Island Woods	(Whooping Crane Lane)	0.046	Level 1
FY 12/13	Renee Avenue	Hwy 50	Millinockett Ln	0.503	Level 2
FY 12/13	Renova Court			0.051	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGT H (MI)	RESURFACING RANKING
FY 12/13	Reparto			0.218	Level 2
FY 13/14	Ridge Creek Court	Off of Rhode Island Woods	(Whooping Crane Lane)	0.159	Level 1
FY 12/13	Rio Cove Court			0.115	Level 2
FY 12/13	River Chase Drive	Bryan Rd	Cul de sac	0.461	Level 2
FY 12/13	River Isle Drive	River Chase Dr	River Chase Dr	0.075	Level 2
FY 15/16	Rocky Trail	Off of N.Powers Drive	(Fox Briar Trail) Micro	0.210	Level 1
FY 12/13	S Deerwood Avenue			0.796	Level 2
FY 15/16	San Domingo Road	Balboa Drive	Barnett Place	0.199	Level 1
FY 12/13	San Marlo Way			0.083	Level 2
FY 12/13	San Toccoa Drive			0.177	Level 2
FY 15/16	Santa Anita Street	Balboa Drive	Glendale Road	0.642	Level 1
FY 15/16	Santa Barbara Road	Balboa Drive	Barnett Place	0.213	Level 1
FY 15/16	Sarazen Drive	N. Hastings Street	Golf Club Parkway	0.504	Level 1
FY 12/13	Scandia Lane	Selected roads		0.141	Level 2
FY 12/13	Scioto Court			0.066	Level 2
FY 12/13	Seasons Point Court			0.064	Level 2
FY 12/13	Sheryl Ann Drive	Lancaster Rd	Amidon Ln	0.252	Level 2
FY 14/15	Shotgate Court	Off of Isle of Wright Drive	(Blackheath Circle)	0.122	Level 1
FY 14/15	Sindlesham Court	Off of Isle of Wright Drive	(Goodwyck Drive / Ipsden Drive)	0.153	Level 1
FY 12/13	Socorro Avenue			0.152	Level 2
FY 12/13	Sonata Lane	Selected roads		0.141	Level 2
FY 12/13	Sonia Street			0.319	Level 2
FY 14/15	Spreakley Court	Off of Isle of Wright Drive	(Goodwyck Drive / Ipsden Drive)	0.082	Level 1
FY 15/16	St James Road	Ferdinand Drive	Elinore Drive	0.318	Level 1
FY 15/16	Sun Valley Court	Off of N.Powers Drive	(Fox Briar Trail) Micro	0.083	Level 1
FY 12/13	Sutter Court		· · ·	0.087	Level 2
FY 12/13	Sweetwater Country Club Drive			0.737	Level 2
FY 12/13	Tall Pine Court			0.017	Level 2

FISCAL YEAR	STREET NAME	FROM	то	LENGT H (MI)	RESURFACING RANKING
FY 12/13	Tall Pine Drive			0.318	Level 2
FY 15/16	Tammany Court	Off of Lake Sparling Road	(England Ave.) Micro	0.029	Level 1
FY 12/13	Tangora Street	Selected roads		0.162	Level 2
FY 12/13	Taos Court			0.019	Level 2
FY 12/13	Ternstone Avenue			0.237	Level 2
FY 14/15	Tiptree Circle	Off of Isle of Wright Drive	(Tiptree Circle)	0.564	Level 1
FY 12/13	Travis Street			0.054	Level 2
FY 14/15	Tree Ridge Lane	Off of N. Econlockhatchee	(Montello Drive)	0.511	Level 1
FY 14/15	Turkey Oak Bend	Off of N. Econlockhatchee	(Montello Drive)	0.326	Level 1
FY 13/14	Twelve Oaks Drive	Off of Landstar Blvd.	(Twelve Oaks Drive)	0.092	Level 1
FY 12/13	Vesta Terrace			0.191	Level 2
FY 12/13	Via Pilar			0.146	Level 2
FY 12/13	Vistana Centre Drive	State Road - 535	Meadow Creek Drive	0.209	Level 2
FY 12/13	Waywood Avenue			0.189	Level 2
FY 12/13	Waywood Court			0.039	Level 2
FY 13/14	Whooping Crane Lane	Off of Rhode Island Woods	(Whooping Crane Lane)	0.218	Level 1
FY 12/13	Willow Springs Court			0.133	Level 2
FY 12/13	Wilmer Avenue	W. Amelia St	Hwy 50	0.266	Level 2
FY 14/15	Winder Trail	Off of N. Dean Road	(Winder Trail)	0.361	Level 1
FY 13/14	Winderside Place	Off of Conroy Windermere Rd.	(Winderside Place)	0.041	Level 1
FY 13/14	Winderwood Circle	Off of Conroy Windermere Rd.	(Winderside Place)	0.467	Level 1
FY 14/15	Wingham Court	Off of Isle of Wright Drive	(Ipsden Drive)	0.062	Level 1
FY 12/13	Yuma Court	-		0.020	Level 2

14. **Public Involvement Brochure**



developing an **ADA Infrastructure** Assessment and **Transition Plan**

Under Title II - Public Services of the ADA,

- driveway crossings
 pedestrian activated traffic signal system

For inquiries about the ADA Transition Plan contact:

ADA Coordinator Orange County Public Works Department 4200 South John Young Parkway Orlando, Florida 32839

> Phone 407-836-7900

TTY 407-836-4250

Customer Service 3-1-1 System 407-836-3111

ocfl.net/home/customerservice311.aspx





Providing Mobility for All



Infrastructure Assessment & Capital Budgeting

Capital Improvement Projects and ADA Capital Improvement Projects for changes in the public rights-of-way will retrofit existing pedestrian infrastructure to current ADA standards.

Inventory & Prioritization of ADA Projects Orange County has a process to inventory ADA accessibility features in the public rights-of-way. The County will assess each existing feature for compliance with current ADA standards.

Once complete, the County will continue to assess right-of-way features to ensure that they remain in compliance. If accessibility features are not in compliance with ADA standards, the County will prioritize and address them through the ADA Transition Plan.

The prioritization of projects considers a number of factors, including:

- needs of citizens with disabilities
- type/scope of projects
- the proximity to areas where public and social services are provided.



Dedicated ADA Projects to Address Inventory

Based upon the established prioritization system, the County will upgrade accessibility features that are not compliant with ADA standards, as identified in the inventory. The County will also plan individual ADA retrofit projects as a part of the Capital Improvement Program. These dedicated projects will solely focus on renovating existing accessibility features in the public rights-of-way in order to bring them into compliance with current ADA standards.

To be successful, the County needs you!

Public involvement is a vital component of the ADA Transition Plan, ensuring that the plan responds to and meets the needs of the community. There are multiple avenues for community involvement, incluiding: public meetings, Disability Advisory Board Meetings, e-mail and written comments (see back of brochure).

Design Standards

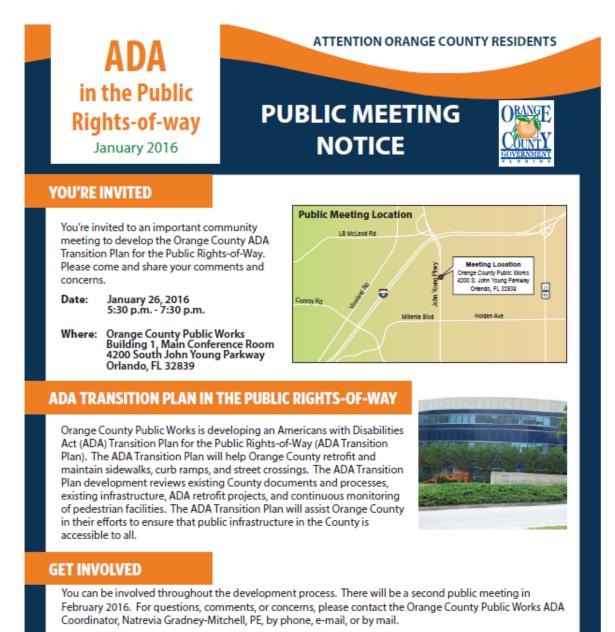
Orange County uses engineering design standards developed by the Florida Department of Transportation (FDOT) for the design of ADA accessibility features in the public rightsof-way. FDOT developed design standards using guidelines from the Public Rights-of-Way Accessibility Guidelines (PROWAG) and the Florida Accessibility Code for Building Construction. The United States Access Board publishes the PROWAG. The Florida Building Commission publishes the Florida Accessibility Code.



Orange County Public Works will further develop procedures to resolve grievances that may arise under Title II of the ADA. The procedures set out to achieve a systematic approach for resolving disability access complaints in a fair and prompt manner.

The Orange County Public Works ADA Coordinator will review comments made through the County's website or by phone using the Customer Service 3-1-1 system. Upon request, alternative means of filing complaints are available for persons with disabilities.

15. Public Involvement Newsletter 1



Natrevia L. Gradney-Mitchell, PE ADA Coordinator Orange County Public Works Engineering Division 4200 South John Young Parkway Orlando, FL 32839 ph: 407-836-8083 email: ADACoordinator@ocfl.net



TTY: 407-836-4250 Customer Service 3-1-1: 407-836-3111 http://www.orangecountyfl.net

ACTIVITY		2 8	20	15				2016	
ACTIVITY	L.	A	s	0	N	D	1		٨
CONDUCT ORANGE COUNTY ADA SELF ASSESSMENT									
PUBLIC INVOLVEMENT		•			0	•	•	*	
DEVELOP DRAFT ADA TRANSITION PLAN									
PRESENT TO BOARD FOR APPROVAL AND ADOPTION									

Persons requiring special accommodations under the Americans with Disabilities Act of 1990 (ADA) may request assistance by phone at 407-836-7900 or by e-mail to <u>ADACoordinator@ocfl.net</u> at least seven (7) days prior to the meeting. Public participation is solicited without regard to race, color, national origin, age, sex, religion, disability or family status.

If you are hearing or speech impaired, please contact the agency using the Orange County 3-1-1 Customer Service, 407-836-3111 or 407-836-4250 (TTY).





ADDITIONAL INFORMATION

Information is also available through the Orange County Website at

http://www.orangecountyfl.net

Para información en Español, llamar al 407-836-3111 y pedir hablar con un representante en Español.



Orange County Public Works 4200 South John Young Parkway Orlando, FL 32839

16. Public Involvement Newsletter 2



You're invited to an important community meeting on the development of the Orange County ADA Transition Plan for the Public Rights-of-Way. There will be a summary of the draft ADA Plan presented in this second public meeting. Please come and help the team preparing the plan. After the Public Meeting, the Plan will be presented to the Orange County Board of County Commissioners for their approval tentatively scheduled for April 2016.

Date: March 29, 2016 - 6:00 pm to 8:00 pm

Where: LYNX Central Station 455 N. Garland Avenue Orlando, FL 32801



ADA TRANSITION PLAN IN THE PUBLIC RIGHTS-OF-WAY

The draft ADA Transition Plan documents the review of documents and processes of Orange County to further improve their use towards increasing independent mobility. The Draft Plan (available on the Orange County ADA webpage) also outlines the proposed ongoing process for assessing the existing infrastructure in the public rights-of-way (ex. sidewalks, curb ramps, etc.) It also provides results of an initial assessment that was performed on 99 miles of sidewalks. An ADA Infrastructure Retrofit Implementation Plan was developed to schedule improvements to any locations that are not compliant with current standards. The methods of continuing public communication are also included in the ADA Transition Plan, as it is a responsibility of the entire community to ensure that the ADA Transition Plan works to provide mobility for all.

GET INVOLVED

You can be involved and have input into the ADA Transition Plan. For questions, comments, or concerns, please contact the Orange County Public Works ADA Coordinator, Natrevia Gradney-Mitchell, PE, by phone, e-mail, or by mail

Natrevia L. Gradney-Mitchell, PE ADA Coordinator

Orange County Public Works Engineering Division 4200 South John Young Parkway Orlando, FL 32839 ph: 407-836-8083 email: ADACoordinator@ocfl.net



TTY: 407-836-4250 Customer Service 3-1-1: 407-836-3111 http://www.orangecountyfl.net

TRANSITION PLAN PROCESS			20	15				2016	
ACTIVITY	J	A	S	0	N	D	J	F	М
CONDUCT ORANGE COUNTY ADA SELF ASSESSMENT									
PUBLIC INVOLVEMENT		•			•	•	●★	×	
DEVELOP DRAFT ADA TRANSITION PLAN									
PRESENT TO BOARD FOR APPROVAL AND ADOPTION									
LEGEND: Advisory Board Meetings Yublic Meetings	_								

Orange County ADA Transition Plan for the Public Rights-of-Way **PUBLIC MEETING**

When: March 29, 2016 - 6:00 pm to 8:00 pm

Where: LYNX Central Station 455 N. Garland Avenue Orlando, FL 32801

Why: Share the ADA Transition Plan process and provide the opportunity to identify issues, areas of concern, and comments

Persons requiring special accommodations under the Americans with Disabilities Act of 1990 (ADA) may request assistance by phone at 407-836-7900 or by e-mail to <u>ADACoordinator@ocfl.net</u> at least seven (7) days prior to the meeting. Public participation is solicited without regard to race, color, national origin, age, sex, religion, disability or family status.

If you are hearing or speech impaired, please contact the agency using the Orange County 3-1-1 Customer Service, 407-836-3111 or 407-836-4250 (TTY).

Orange County Public Works 4200 South John Young Parkway Orlando, FL 32839

Additional Information

Information is also available through the Orange County Website at <u>http://www.orangecountyfl.net</u>

Para información en Español, llamar al 407-836-3111 y pedir hablar con un representante en Español.

17. Professional Resources Group Meeting Summary

Project:	Orange County ADA Transition Plan for the Public Rights-of-Way
Subject:	Orange County Professional Resources Group (PRG)
Date:	Thursday, November 05, 2015
Time:	8:30am – 10:00am
Location:	Public Works Building 4200 South John Young Parkway, Orlando, Florida

The purpose of this meeting summary is to provide an overview of the briefing conducted for the Orange County Professional Resources Group.

The meeting was held on Thursday, November 05, 2015 at the Public Works Building from 8:30am – 10:00am to initiate discussion on the impacts that Americans with Disabilities Act (ADA) would have on private development community.

Format

The meeting was at the regularly scheduled Professional Resource Group meeting (the first Thursday of every month).

Presentation

Informational materials available at the public meeting included:

ADA in the Public Rights-of-Way presentation (provided in Attachment A)

The information provided included an overview of the project, explanations of each project component, methods of continued communication, and the next steps of the project.

Summary of Discussion

The following items provide an overview of the Professional Resources Group input received during the meeting:

- The concepts of over-design (min standard) and under-design (max standard)
- Leaves room for construction tolerance
- It may be helpful to consult with the County's legal team on ADA issues
- Orange County Utilities has a standard process for pipe design/construction

- Possibility for Public Works to implement a similar process for ADA and sidewalk design/construction
- During the plan review process, allowing variation in the development plans to include GPS coordinates
- Taking a proactive approach with the development of PROWAG by submitting comments or seeking response to the lawmakers addressing "tolerances" to the ADA slope design standards for better consistency with current County practices
- Creating an electronic Public Works questionnaire or survey to solicit feedback from developers, engineers, contractors, etc. in regards to ADA implementation
- The scale of plans submitted is an issue with identifying potential ADA concerns
- May need a plan detail or a larger scale
- When doing subdivisions, the fact that side walks are installed last to save money creates issues
- The County could consider a grass strip of ½" per foot and allow variation at 5:1 or 6:1 to provide flexibility when the sidewalk goes in
- Implement a letter or statement of compliance of some sort for the developers' Engineer of Record
- County policies/codes need to make clear that the Engineer of Record has the responsibility to redesign/correct any issues
- Diana notes it takes six (6) months to correct now due to process with stakeholders
- Mark Massaro stressed the need for eight (8) ramps at intersections to be required in any standards/codes
- Conversation related to drivers not yielding at trail crossings
- Should request enforcement of yielding at trail crossings when Best Foot Forward asks for locations

Attachment A



	n components	
ADA Transition Pl	in Components in Process	
Impact of ADA		







ADA DEFINITION

- Civil rights statute that prohibits discrimination against those with disabilities
 Title II – Public Services of the
- ADA • Transportation & Pedestrian
- Facilities in the Public Rights of Way must be accessible to persons with disabilities



TYPES OF INFRASTRUCTURE PROJECTS

- County Completed Infrastructure Projects
 New Roadway Improvements
- Maintenance/Rehab to Roadways
- Privately Completed Infrastructure Projects
 - Existing public rights-of-way improvements
 - Areas that will become dedicated public rights-of-way
 Private areas that the public will access

ALL Projects Must Meet ADA



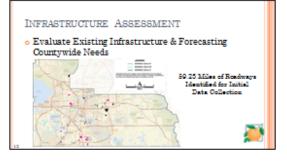




REVIEW EXISTING COUNTY DOCUMENTS

- o Updating language for:
 - County Code Chapters
 - Contract Documents
 Roadway Analysis, Design,
 - and Construction Documents
 - County ADA Checklists





ADA Transition Plan in the Public Rights-of-Way

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ADA Transition Plan in the Public Rights-of-Way

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C	ONCLUSION
0	ADA Transition Plan
	 Standardize Process for ADA Compliance Review
	• Site Flan Review • Post-Construction Inspection
	 Goal to ensure mobility for all
0	Additional Information
	 Draft of Transition Plan available early next year
	· · · · · · · · · · · · · · · · · · ·



ADA Transition Plan in the Public Rights-of-Way

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18. Disability Advisory Board Meeting Summary

Project:	Orange County ADA Transition Plan for the Public Rights-of-Way
Subject:	Disability Advisory Board Briefing
Date:	Monday, February 08, 2016
Time:	2:00pm – 4:00pm
Location:	Orange County Health Services Administration Building 2002A East Michigan Street, Orlando, FL

The purpose of this meeting summary is to provide an overview of the briefing conducted for the Orange County ADA (Americans with Disabilities Act) Transition Plan for the Public Rights-of-Way to the Orange County Disability Advisory Board.

The meeting was held on Monday, February 08, 2016 at Orange County Orange County Health Services Administration Building from 2:00pm – 4:00pm to seek input from the board and present information about the project.

Format

The meeting was at the regularly scheduled advisory board meeting.

Presentation

Informational materials available at the public meeting included:

ADA in the Public Rights-of-Way presentation (provided in Attachment A)

The information provided included an overview of the project, explanations of each project component, methods of continued communication, and the next steps of the project.

Summary of Discussion

The following items provide an overview of the board input received during the meeting:

- Technical Parameters of Design Features
- An overview of the design requirements for ramps slopes and sidewalk cross slopes along with width requirements was discussed.

- Replacement of sidewalk panels in the City of Orlando was discussed along with the clarification that cities are responsible for their own roadways and that the state is responsible for their roadways.
- The timing of public meetings was discussed and it was suggested to have the meetings start at 6:30 or 7:00 in the evening for a greater chance of attendance.
- The location of public meetings was discussed. It was recommended that a location with more transit service like Downtown Orlando would be preferred.
- Is transit being considered during our self-assessment of the County.

Attachment A



 Background ADA Transi 	l of ADA ition Plan Components	
	ition Plan Process	
• Impact of A	DA	







ADA Transition Plan in the Public Rights-of-Way

B 01

ADA DEFINITION

- Civil rights statute that prohibits discrimination against those with disabilities
- Title II Public Services of the ADA
- Transportation & Pedestrian Facilities in the Public Rights of Way must be accessible to persons with disabilities



TYPES OF INFRASTRUCTURE PROJECTS

- County Completed Infrastructure Projects
 New Roadway Improvements
- Maintenance/Rehab to Roadways
- Privately Completed Infrastructure Projects
 Existing public rights-of-way improvements
- Areas that will become dedicated public rights-of-way
- Private areas that the public will access

ALL Projects Must Meet ADA







- Review Existing County Documents & Procedures
 Administrative Reviews
 Standard Operating Procedure
- Capital Improvement Program
- Assess Existing Infrastructure
 Public Involvement
- Implementation



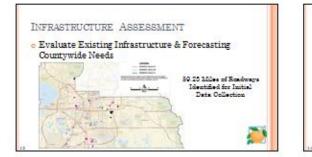
REVIEW EXISTING COUNTY DOCUMENTS

- Updating language for:
 County Code Chapters
 Contract Documents
 - Roadway Analysis, Design, and Construction Documents
 - County ADA Checklists



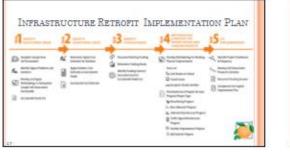


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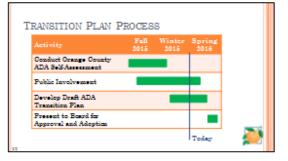
ADA Transition Plan in the Public Rights-of-Way

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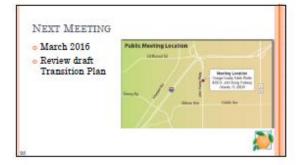






ADA Transition Plan in the Public Rights-of-Way

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ADA Transition Plan in the Public Rights-of-Way

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19. Public Works Advisory Board Meeting Summary

Project:	Orange County ADA Transition Plan for the Public Rights-of-Way
Subject:	Orange County Public Works Advisory Board
Date:	Monday, February 15, 2016
Time:	10:00am – 11:00am
Location:	Public Works Building 4200 South John Young Parkway, Orlando, Florida

The purpose of this meeting summary is to provide an overview of the briefing conducted for the Orange County Public Works Advisory Board.

The meeting was held on Monday, February 15, 2016 at the Public Works Building from 10:00am – 11:00am to initiate discussion on the impacts that Americans with Disabilities Act (ADA) would have in the community.

Format

The meeting was held during the regularly scheduled Public Works Advisory Board meeting (the first Thursday of every month).

Presentation

Informational materials available at the public meeting included:

- ADA in the Public Rights-of-Way presentation (provided in Attachment A)
- ADA in the Public Rights-of-Way Brochure
- ADA Infrastructure Retrofit Implementation Plan Infographic

The information provided included an overview of the project, explanations of each project component, methods of continued communication, and the next steps of the project.

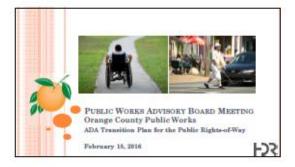
Summary of Discussion

The following items provide an overview of the Public Works Advisory Board meeting input received during the meeting:

Does the ADA retrofit cost estimate include right-of-way acquisition?

- The focus of the ADA Transition Plan is to retrofit existing ADA mobility barriers, and does not include cost estimates for right-of-way acquisition to build-out the sidewalk network. In this example, sidewalk gaps that present a barrier to mobility would be included in the ADA retrofit cost estimate.
- Locations such as Kaley Avenue would present challenges with availability of right-ofway.
- Funding and scheduling ADA retrofits will be a complex process.
- Retrofits will be incorporated in addition to maintaining and paving roadways.
- Scheduling will be based on availability of physical and fiscal resources.
- Implementing the ADA Transition Plan will likely take 15-20 years.
- ADA design standards are made available by FDOT (Florida Department of Transportation), FHWA (Federal Highway Association), DOJ (Department of Justice)
- PROWAG (Public Rights-of-Way Accessibility Guidelines) focus on the design of the rights-of-way, not the design of private areas.
- Discussions included requests to incorporate ranges for the design standards (ex. requiring a maximum 2% cross slope or a range from 1.5% 2% cross slope)
- Exceptions to design standards will be evaluated on an individual basis similarly to the FDOT exception process
- Orange County would perform inspections of ADA features to ensure compliance with ADA standards

Attachment A



sition Plan Components sition Plan Process ADA
ADA







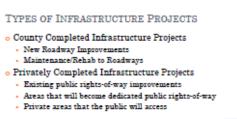
ADA Transition Plan in the Public Rights-of-Way

B 01

ADA DEFINITION

- Civil rights statute that prohibits discrimination against those with disabilities
- Title II Public Services of the ADA
 - Transportation & Pedestrian Facilities in the Public Rights of Way must be accessible to persons with disabilities





ALL Projects Must Meet ADA



ADA TRANSITION PLAN DOCUMENT COMPONENTS • Four Parts • Framework Development • Oranje Courty Operations and Processes • Infrastructure Assessment • Involvement • Public Involvement • Continuous coordination and outreach

ADA TRANSITION PLAN: PUBLIC RIGHTS-OF-WAY

- Review Existing County Documents & Procedures
 - Administrative Reviews
 Standard Operating Procedure
 - Capital Improvement Program
- Assess Existing Infrastructure
- Public Involvement
- Implementation



REVIEW EXISTING COUNTY DOCUMENTS

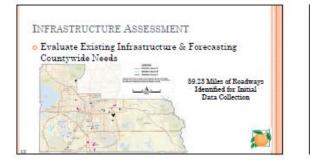
- o Updating language for:
- County Code Chapters
 Contract Documents
- Roadway Analysis, Design, and Construction Documents

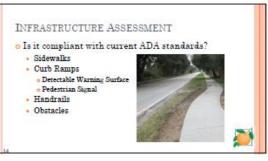
County ADA Checklists



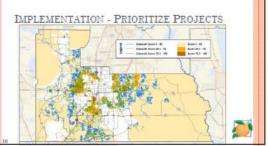


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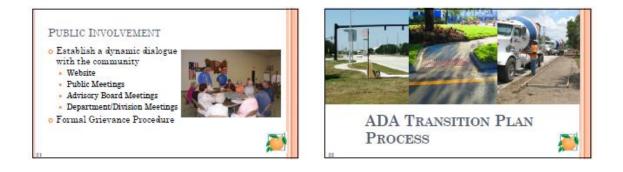






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Activity	Fall 2015	Winter 2015	Spring 2016
Conduct Orange County ADA Self-Assessment			
Public Involvement	8		
Develop Draft ADA Transition Plan			
Present to Board for Approval and Adoption			



CONCLUSION PUBLIC MEETING Public Meeting Location o ADA Transition Plan o March 2016 Life Marcard Mr. Standardize Process for ADA Compliance Review o Review draft • Site Plan Review • Post-Construction Inspection Transition Plan Meeting Lonation Orange Doorsy Public Notes 4011.5 Alter Music Public Orando Fr. 5003 • Goal to ensure mobility for all o Additional Information Draft of Transition Plan available soon o http://www.ocfl.net/TrafficTransportation/ADA.aspr 20



ADA Transition Plan in the Public Rights-of-Way

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20. Public Meeting #1 Summary

Project:	Orange County ADA Transition Plan for the Public Rights-of-Way
Subject:	Public Meeting #1
Date:	Tuesday, January 26, 2016
Time:	5:30pm – 7:30pm
Location:	Orange County Public Works 4200 S. John Young Parkway, Orlando, FL 32839

The purpose of this meeting summary is to provide an overview of the public meeting conducted for the Orange County ADA (Americans with Disabilities Act) Transition Plan for the Public Rights-of-Way.

The meeting was held on Tuesday, January 26, 2016 at Orange County Public Works from 5:30pm – 7:30pm to seek input from the public and present information about the project.

Format

	Торіс	Facilitator
	Individual Discussions	
5:30pm	Attendees were invited to discuss any preliminary questions or comments regarding the development of the ADA Transition Plan for the Public Rights-of-Way with project staff.	Project Staff
	Welcome and Introduction	Natrovia Gradnov Mitchell
6:00pm	Natrevia began the meeting by welcoming all of the attendees and introducing the project team.	Natrevia Gradney-Mitchell, Orange County Public Works
	ADA in the Public Rights-of-Way Presentation	
6:10pm	Jeff provided an overview of the importance of developing an ADA Transition Plan for the Public Rights-of-Way and the primary components of the ADA Transition Plan. The next steps for the project were also discussed. The presentation concluded with providing information about the website for additional information and additional methods of continued communication with the project team.	Jeffrey Arms, <i>HDR</i>
	Discussion and Comments	
6:30pm	Attendees were invited to discuss any questions or comments regarding the development of the ADA Transition Plan for the Public Rights-of-Way with project staff.	Project Staff

Photographs of the meeting are included in Attachment A.

Attendance

The sign-in sheet is provided in Attachment B as a record of participation.

Presentation/Materials

Informational materials available at the public meeting included:

- ADA in the Public Rights-of-Way presentation (provided in Attachment C)
- Comment forms (provided in Attachment D)
- Informational brochures (available online)

The information provided included an overview of the project, explanations of each project component, methods of continued communication, and the next steps of the project.

The brochure and additional methods of communication with the project team are included on the project website (<u>https://www.ocfl.net/TrafficTransportation/ADA.aspx</u>) in addition to other informational materials.

Summary of Discussion

A comment form was developed to record written comments and questions. A total of 1 comment form was received at the public meeting, with most questions and comments made during open discussion. The following items provide an overview of the public input received during the meeting:

- Locations for Additional Study
- Corrine Drive, between Leu Gardens and Winter Park Road, North side. This location needs pedestrian friendly sidewalks.
- Traffic signal at Palm Lake and Corrine Drive needs to be made ADA accessible at the intersection.
- Pedestrian crossing at Denning Drive at Winter Park Village should be studied. Drivers reportedly don't stop for pedestrians in the crosswalk.
- Transit corridors are seen as extremely important for the disabled community, as it is a method for traveling independently.
- It was suggested that LYNX add features to bus stops/routes/applications to increase accessibility for deaf/hard-of-hearing passengers.
- Flashing lights at a bus stop to indicate a bus is approaching

- More visual components on the bus and in the mobile application
- Converting documents to Braille
- Electronic documents saved as a PDF (ex. word file saved as a PDF) can be quickly converted to Braille.
- Documents scanned to a PDF format cannot be easily translated.
- Infographics do not easily convert to Braille.
- Center for Independent Living offers accessibility trainings.
- The importance of truncated domes aligning with crosswalks was discussed.
- Need a simple way to locate the project website from the overall County website homepage.

Attachment A





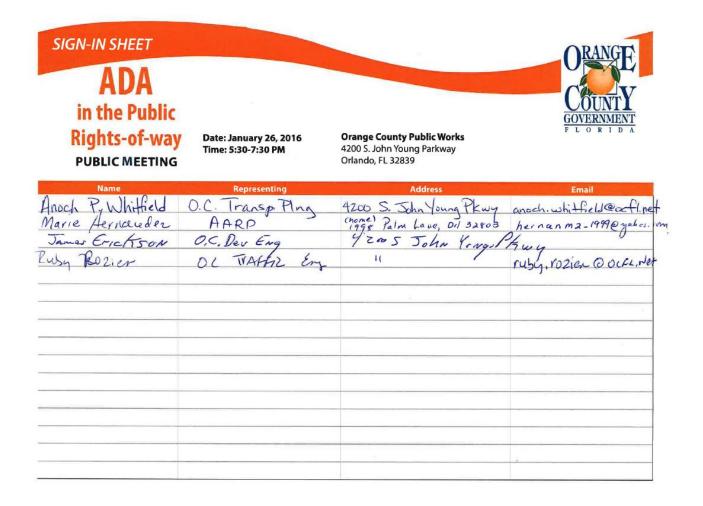








Attachment B



SIGN-IN SHEET ADA in the Public Rights-of-way PUBLIC MEETING	Date: January 26, 2016 Time: 5:30-7:30 PM	Orange County Public Works 4200 S. John Young Parkway Orlando, FL 32839	ORANGE COUNTY GOVERNMENT FLORIDA
Name	Representing	Address	Email
EPEK CONTRERS)	ADS64 CONGULTING	MISTIL PL	econtreves & Gdac 5-
Natrevia Gradney-Mitchell	AV Engineering	Orlando, FL	Notrevia Bradney-Mitchelloct
Kevin Walter	Center for Independent Livin	a Winter Park, FI	Kwalker @ ailart cilorlando. or
Taylor Couvert	HOR	Orlande, FL	taylor. Lawerto harine com
Jeff Arms	HDR	Orlands, FL	Jeff. arms@hdrinc.com
Gerame William	AARP	Orlando PL	ebbride 40@yahos.com
Christy Lofye	AARP PW Traffic Engineery	()	Christine, Lofye Qocting
IAN PAYARS	OC CEPS	ι.	ian.physseocf.net

ADA Transition Plan in the Public Rights-of-Way

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Attachment C



-	ound of ADA ransition Plan Components	
	ransition Plan Process	
o Impact	of ADA	







ADA Transition Plan in the Public Rights-of-Way

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ADA DEFINITION

- Civil rights statute that prohibits discrimination against those with disabilities
- Title II Public Services of the ADA
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TYPES OF INFRASTRUCTURE PROJECTS

- County Completed Infrastructure Projects
 New Roadway Improvements
 - Maintenance/Rehab to Roadways
- Privately Completed Infrastructure Projects
 Existing public rights-of-way improvements
 - Areas that will become dedicated public rights-of-way
 - Private areas that the public will access

ALL Projects Must Meet ADA





ADA TRANSITION PLAN: PUBLIC RIGHTS-OF-WAY

- Review Existing County Documents & Procedures
 Administrative Reviews
 Standard Operating Procedure
- Capital Improvement Program
 Assess Existing Infrastructure
- Public Involvement
- Implementation



REVIEW EXISTING COUNTY DOCUMENTS

- Updating language for:
 County Code Chapters
 Contract Documents
 Roadway Analysis, Design,
 - and Construction Documents
 - County ADA Checklists

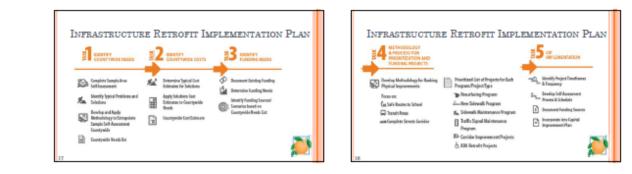


ADA Transition Plan in the Public Rights-of-Way

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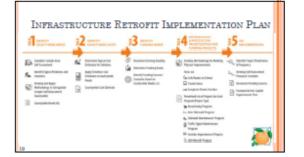






ADA Transition Plan in the Public Rights-of-Way

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PUBLIC INVOLVEMENT • Establish a dynamic dialogue with the community. • Website • Public Meetings • Department/Division Meetings • Formal Grievance Procedure



TRANSITION PLAN	PROCES	ss		
Activity		Winter 2015		
Conduct Orange County ADA Self-Accessment				
Public Involvement				
Develop Draft ADA Transition Plan				
Present to Board for Approval and Adoption				-
			Today	- 23



CONCLUSION ADA Transition Plan Standardize Process for ADA Compliance Review Site Plan Review Post-Construction Inspection Goal to ensure mobility for all Additional Information Draft of Transition Plan available soon <u>http://www.ocflust/TraffeTransportation/ADA sees</u>

ADA Transition Plan in the Public Rights-of-Way

10 01







ADA Transition Plan in the Public Rights-of-Way

1-1

20-

Attachment D

COMMENT FORM

ADA in the Public Rights-of-way PUBLIC MEETING



Date: January 26, 2016 Time: 5:30-7:30 PM

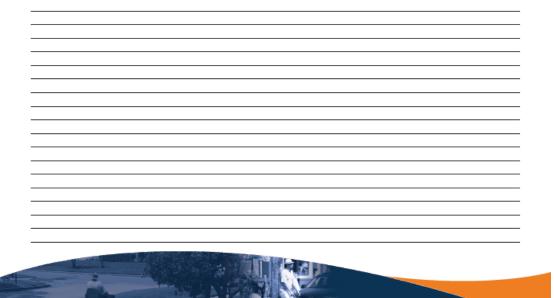
Orange County Public Works 4200 S. John Young Parkway Orlando, FL 32839

Mailing List Information		
Name:		
Organization:		
Address:		
City, State, Zip		
Email:		
Telephone		
(fyou desire to be contacted):		

Please send your comments by February 12th to: Natrevia Gradney-Mitchell - Public Works ADA Coordinator

Mail: Orange County Public Works Engineering Division 4200 S. John Young Parkway Orlando, FL 32839 Email: ADACoordinator@ocfl.net Telephone: 407-836-8083 TTY: 407-836-4250 http://www.orangecountyfl.net

General Comments



ADA Transition Plan in the Public Rights-of-Way

0

COMMENT FORM

Mailing List Information

Organization: AARP

City, State, Zip Orlanso

ADA in the Public Rights-of-way PUBLIC MEETING

Name: Jeropie Williamo

Email: ebbyide 40@jaharican

32803

Address: 1998 Blim LN

Telephone 407-894-5691



Date: January 26, 2016 Time: 5:30-7:30 PM

Orange County Public Works 4200 S. John Young Parkway Orlando, FL 32839

Please send your comments by February 12th to: Natrevia Gradney-Mitchell - Public Works ADA Coordinator

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TTY: 407-836-4250

http://www.orangecountyfl.net

General Comments RK Road North Side Prive between Gr Vers or W, NTER OFFINS Keeds pedestriak Friend y sidewalk a the istoreda Sighala accesille 1m INAS NEEDS TO Trappi

21. Public Meeting #2 Summary

Project:	Orange County ADA Transition Plan for the Public Rights-of-Way
Subject:	Public Meeting #2
Date:	Tuesday, March 29, 2016
Time:	6:00pm – 8:00pm
Location:	LYNX Central Station 455 N. Garland Avenue, Orlando, FL 32801

The purpose of this meeting summary is to provide an overview of the public meeting conducted for the Orange County ADA (Americans with Disabilities Act) Transition Plan for the Public Rights-of-Way.

The meeting was held on Tuesday, March 29, 2016 at Orange County Public Works from 6:00pm – 8:00pm to seek input from the public and present information about the ADA Transition Plan for the Public Rights-of-Way.

Format

	Торіс	Facilitator
6:00pm	Individual Discussions Attendees were invited to discuss any preliminary questions or comments regarding the development of the ADA Transition Plan for the Public Rights-of-Way with project staff.	Project Staff
6:30pm	Welcome and Introduction Natrevia began the meeting by welcoming all of the attendees and introducing the project team.	Natrevia Gradney-Mitchell, Orange County Public Works
6:40pm	 ADA in the Public Rights-of-Way Presentation Jeff provided an overview of the importance of developing an ADA Transition Plan for the Public Rights-of-Way and the primary components of the ADA Transition Plan. Each chapter of the ADA Transition Plan was discussed, including: Infrastructure Assessment and Prioritization Implementation Plan Continued Public Involvement & Outreach The presentation concluded with providing information about the website for additional information and additional methods of continued communication with the project team. 	Jeffrey Arms <i>, HDR</i>

	Tania	Essilitator		
	Торіс	Facilitator		
	Discussion and Comments			
7:00pm	Attendees were invited to discuss any questions or comments regarding the development of the ADA Transition Plan for the Public Rights-of-Way with project staff.	Project Staff		
Photographs of the meeting are included in Attachment A.				

Attendance

The sign-in sheet is provided in Attachment B as a record of participation.

Presentation/Materials

Informational materials available at the public meeting included:

- Informational brochures (available online)
- Orange County Public Works ADA Transition Plan (available online)
- Comment forms
- Infrastructure Retrofit Implementation Plan (provided in Attachment C)
- ADA in the Public Rights-of-Way presentation (provided in Attachment D)

The information provided included an overview of the project, detailed explanations of each component of the ADA Transition Plan, including: infrastructure assessment, implementation plan, and public involvement & outreach, methods of communication for comments on the ADA Transition Plan, and the next steps to have the ADA Transition Plan approved by the Board of County Commissioners.

The brochure and additional methods of communication with the project team are included on the project website (<u>https://www.ocfl.net/TrafficTransportation/ADA.aspx</u>) in addition to other informational materials.

Summary of Discussion

A comment form was developed to record written comments and questions. Although no comment forms were received at the public meeting, thoughtful and constructive questions and comments posed during open discussion. The following items provide an overview of the public input received during the meeting:

Does the County Code specify the width of sidewalks based on land use within the area, such as wider sidewalks near schools?

- The current practice is to construct 5 foot sidewalks at a minimum. Additional sidewalk width is determined during the design of the facility.
- Specifically near schools, a Safe Route to School study is performed in addition to an ADA Compliance study to ensure that sidewalks are built to support the school.
- Discussion of the Safe Harbor Clause of the Joint Technical Memo for the ADA and its applications regarding the ADA Transition Plan for Orange County.
 - The discussion continued from explaining the clause itself to detailing the applications of it when scheduling and budgeting for projects.
- A detailed discussion of the Priority Areas Map from the presentation and the development of the methodology for defining priority areas.
 - Access LYNX boarding numbers were one component of data utilized in the analysis.
 - LYNX representatives discussed a potential partnership with Orange County Public
 Works to continue to share this data in the future.
- Discussion of how audible pedestrian signals will be incorporated into traffic signal maintenance.
 - Though pedestrian signals were not included in the initial inventory, they will be evaluated and replaced as needed or during regular maintenance.
 - Discussion about the current standards for pedestrian signals also occurred.
- LYNX representatives requested the ADA Compliance Improvement Request form to utilize as a template for their ADA request form.
- The contents of the website were discussed, including the separate functions of the Orange County Disability Services Office and the Department of Public Works ADA Transition Plan for the Public Rights-of-Way.
- Orange County Public Works will lead the coordination of ADA projects within all of the division of the department in order to schedule projects and use fiscal resources efficiently.

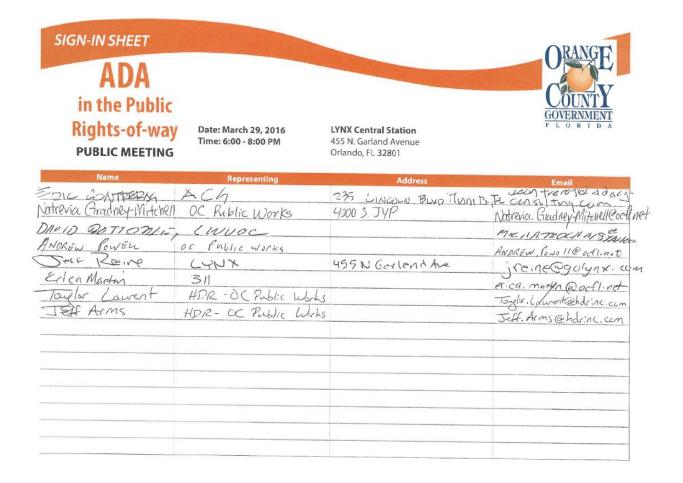
Attachment A



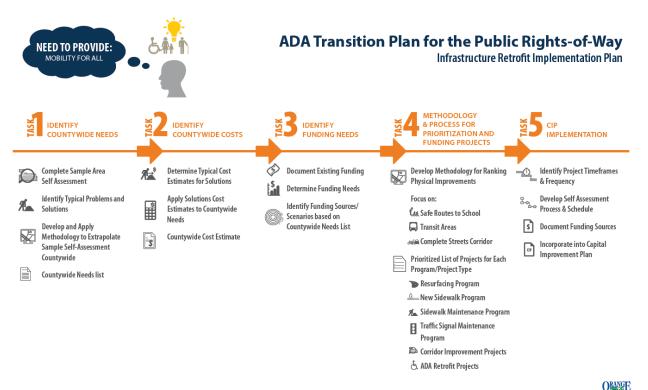




Attachment B



Attachment C



FX

Attachment D



 Background of ADA 	
 ADA Transition Plan 	
 Infrastructure Assessment 	
 Implementation Plan 	
- Public Involvement & Outreach	
 Future of the Transition Plan 	
o Discussion	







ADA DEFINITION • Civil rights statute that prohibits discrimination against those with disabilities • Title II – Public Services of the ADA • Transportation & Pedestrian Facilities in the Public Rights of Way must be accessible to persons with disabilities

ADA Transition Plan in the Public Rights-of-Way

B 01





INFRASTRUCTURE ASSESSMENT

- o Is it compliant with current ADA standards?
 - Sidewalks
 Ourb Ramps
 - o Detectable Warning Surface

o Pedestrian Signal

Handrails
 Obstacles



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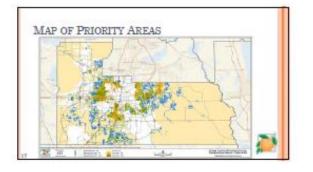


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IMPLEMENTATION PLAN

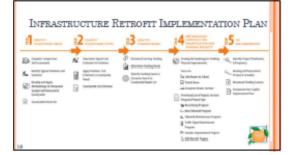


- o Develop preliminary
 - mitigation project schedule • Incorporate mitigation projects into CIP
 - Monitor progress

1

ADA Transition Plan in the Public Rights-of-Way

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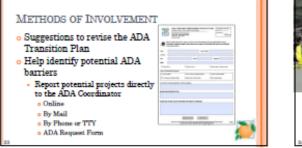


IMPLEMENTATION - MONITOR PROGRESS

- Annual Data Collection
 Expand self-assessment inventory
- Continued Inspections









3 - OF

Lativity	Fail 2010	Winter 2010	Spring 2034
Conduct Orange County ADA Self-Assessment	1		
Public Involvement			
Develop Draft ADA Transition Flam			
Present to Board for Approval			

April 2016
 Present the ADA

Transition Plan for Approval



201 S. Rosalind Ave Orlando, FL 32801







ADA Transition Plan in the Public Rights-of-Way

D or

COMMENT FORM

Mailing List Information

Organization: AARP

City, State, Zip Orlanso

ADA in the Public Rights-of-way PUBLIC MEETING

Name: Jeropie Williamo

Email: ebbyide 40@jaharican

32803

Address: 1998 Blim LN

Telephone 407-894-5691



Date: January 26, 2016 Time: 5:30-7:30 PM

Orange County Public Works 4200 S. John Young Parkway Orlando, FL 32839

Please send your comments by February 12th to: Natrevia Gradney-Mitchell - Public Works ADA Coordinator

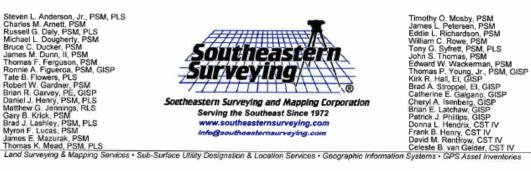
Mail:	Orange County Public Works Engineering Division 4200 S. John Young Parkway Orlando, FL 32839
Email:	ADACoordinator@ocfl.net
Teleph	one: 407-836-8083

TTY: 407-836-4250

http://www.orangecountyfl.net

General Comments RK Road North Side Prive between Gr Vers or W, NTER OFFINS Keeds pedestriak Friend y sidewalk a the istoreda Sighala accesille 1m INAS NEEDS TO Trappi

22. Surveyor's Report



SURVEYOR'S REPORT OF TOPOGRAPHIC SURVEY

PREPARED FOR:	Orange County
PROJECT:	Orange County ADA Self-Assessment - Phase 1, SSMC JOB No. 59658/95331
LOCATION:	Project lies within Orange County, Florida.
INTENDED USE:	Creation of GIS data models for Sidewalks, ADA Facilities, Obstructions, and
	Hazards.
MAPPING UNITS:	U.S. Survey Foot
VERTICAL ACCURACY:	No vertical data was collected by this survey.
HORIZONTAL ACCURACY:	+/- 2 feet for feature location.
HORIZONTAL DATUM:	North American Datum of 1983, 2011 Adjustment.
HORIZONTAL CONTROL:	Orange County Survey Control Monuments "GIS-474 RESET GEORGE" and "GIS 0472 CAS 1".
SURVEY METHODS:	Primary data collection by Real Time Differential GPS. This was supplemented by triangulation survey methods where visibility, reception or satellite configurations precluded acceptable results from RTD GPS methods.
LAST DATE OF FIELD SURVEY:	August 31, 2015
DATE OF SURVEY REPORT:	March 2, 2016
SURVEYOR'S NOTES:	

Measurement methods used for this survey meet the requirements of the "Minimum Technical Standards for Land 1) Surveying", Chapter 5J-17.050-052, Florida Administrative Code.

- This Survey Report is not valid without the signature and raised seal of a Florida licensed Surveyor and Mapper. 2)
- The purpose of this Surveyor's Report is to define the positional accuracy of the captured GIS features located by 3) this Topographic Survey product as defined in Chapter 5J-17.050, Florida Administrative Code, as authorized by Chapter 472, Florida Statutes.
- 4) Additions or deletions to this survey report by other than the signing party is prohibited without the signature of the signing party.

SURVEYOR OF RECORD:

James. L. Petersen

65

Florida Professional Surveyor and Mapper No. 4791

Southeastern Surveying and Mapping Corporation

Florida Licensed Business Certificate of Authorization No. 2108

6500 All American Blvd Orlando, FL 32810 407.292.8580 407.292.0141 Fax	1130 Highway 90 Chipley, FL 32428 850.638.0790 850.638.8069 Fax	Cypress Business Center 8301 Cypress Plaza Drive, Suite 104 Jacksonville, FL 32256 904.737.5990 904.737.5995 Fax	119 West Main Street Tavares, FL 32778 352.343.4880 352.343.4914 Fax	10 East Lake Street Kissimmee, FL 34744 407.944.4880 407.944.0424 Fax	University Corporate Park 10770 North 46th Street Suite C-300 Tampa, FL 33617 813.898.2711 813.898.2712 Fax

da Professional Surveyor & Mapper - PLS: Alabama Professional Land Surveyor - RLS: Georgia Registered Land Surveyor - PE: Professional Engineer Certifications: El: Engineering Intern - GISP: Geographic Information Systems Professional - CST: Certified Survey Technician

Access to civic life by people with disabilities is a fundamental goal of the Americans with Disabilities Act (ADA). To ensure that this goal is met, Title II of the ADA requires State and local governments to make their programs and services accessible to persons with disabilities.

2015

Orange County Transportation Network Inventory ADA Self-Assessment Spherical Image Extraction Data Model











Prepared By: Southeastern Surveying & Mapping Corp. 8/1/2015



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	Source	
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1.11 0.1.10		





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8.11 & 8.12	Functional Classification	
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Resources used for Documentation Development

1: United States Access Board for ADA Accessibility Guidelines (ADAAG) www.access-board.gov/guidelines-and-standards

2: U.S Department of Transportation Federal Highway Administration (FHWA) Bicycle & Pedestrian Best Management Practices (BMP) Design Guide for Sidewalks www.fhwa.dot.gov/enviroment/bicycle-pedestrian/publication/sidewalk2/sidewlaks204

> 3: ADA Tool Kit for State & Local Governments Curb Ramps and Pedestrian Crossings under Title II of the ADA www.ada.gov





Introduction & Overview

Orange County ADA Self-Assessment Project Scope of Services Provided by Southeastern Surveying and Mapping Corporation

Southeastern Surveying and Mapping Corporation (SSMC) GIS team members will conduct office preparations and research of the County's transportation network data provided by the County and extract applicable inventory roadways for the Orange County ADA compliant Self-Assessment project data acquisition. Work modules will be prepared for field crews that reflect the ADA facilities inventory areas to be collected and assessed along the County roadways within the project limits. The following document describes the facilities, hazards and obstructions which will be inventoried and entered into a Geographic Information System (GIS) data model.

SSMC will collect data imagery using a Mobile Mapping Vehicle (MMV) that incorporates high speed digital imaging with a Global Positioning System (GPS) to provide low altitude street level imagery using six cameras that are mounted on the vehicle. The high quality 360° panorama imagery enables the GIS analyst to observe and assess the facilities properties in a 360° view from a vehicle's perspective. Image data along with GPS data is acquired approximately every 15 feet. After the field data is collected using the MMV the data is post processed. Implementing differential corrections, SSMC can improve the GPS location to decimeter precision. This will provide a higher accuracy for all asset's locations digitized in the GIS geodatabase. A geodatabase will be prepared by SSMC in coordination with the data model that reflects the ADA facilities assets inventoried along the County roadways that will be compatible with the County's GIS system.

SSMC will visually identify ADA Compliant and Non-Compliant facilities for Orange County within the Public Rights-of-Ways. Examples of these facilities are pedestrian curb ramps and sidewalks that comply with ADA standards for accessible design. Movement barriers will be visually identified within the sidewalk corridors that may obstruct pedestrian's path. These include obstacles or hazards like trip edges, gaps, and protrusions along the sidewalk alignment. Handrails will be identified where potential Hazards apply. The current status of all ADA compliant facilities will be identified along with overall completion rating of all ADA compliant infrastructures for individual sidewalk segments. Missing sidewalks, curb ramps & handrails will be identified in the public rights-of-way and digitized as "Missing" in the GIS geodatabase.





1.0 - Sidewalk Feature Names & Values

- Feature Class
 - o Sidewalk

Description of "Sidewalk" Feature Class (figure 1.0)



Sidewalk Sidewalks are corridors or pedestrian access routes (PAR) that constitute the portion of the pedestrian system typically located within the right-of-way between the edge of the roadway and the edge of the right-of-way (i.e., property line), and generally along the sides of streets, between street corners. PARs within must be continuous interconnected walkways, sidewalks, ramps & curb ramps. Unobstructed clear width shall be 4 feet minimum (exclusive of the curb). A PAR with less than 5 feet clear width (exclusive of the curb) must provide passing spaces no farther apart than 200 feet. Passing spaces shall be 5 feet x 5 feet minimum. Cross slope of a PAR shall be 2% maximum.





Summary of GIS Field Data Model for "Sidewalk" (Line Feature)

Field Name	Feature Attribute	Description
Status	Present, Missing, Under Construction, Obscured, Unknown	The current standing position or condition of the Sidewalk feature that has been field identified.
Material	Concrete, Asphalt, Brick/Pavers, Stone, Tile, Other See Notes, None, Unknown, NA	Material is the physical element that the sidewalk is constructed of.
Total_Width_In	Text (20)	Total Width of walkway corridor in inches.
Segment_Rating	Complete, Complete w/Barriers, Partial Infrastructure, No Infrastructure	Overall completion rating of all ADA compliant infrastructures that pertains to an individual segment of sidewalk.
Notes	Text (255)	Any additional information pertaining to the Sidewalk feature.
Source	Orthorectified Aerial Photo, Street Level Imagery, Field Location	Identifies the source or the primary reference that the GIS data was obtained from.
Feature_ID	Text (100)	Incrementing unique feature ID's aid in classifying and organizing Sidewalk assets.
Street_Name	Text (50)	Name of road that runs parallel along the sidewalk segment.
Photo_ID	Text (50)	A unique ID number of the Sidewalk image that corresponds with the image frame number from the field imaging camera.
Functional_Classification	Yes / No	Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.
Inventory_Area	Text (20)	A unique ID number that identifies the assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.
Inspec_Date	Date	Image Date of the assessed feature.
Photo_Folder	Text (100)	The directory folder the images are being stored.
Photo_Hotlink	Text (255)	Defines the path and file name of the photo file linked to the Sidewalk.
Northing	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Easting	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Latitude	Text (20)	The angular distance of a location North or South of the earth's equator, measured in degrees, minutes & seconds.
Longitude	Text (20)	The angular distance of a location East or West of the meridian at Greenwich, England measured in degrees, minutes & seconds.
Shape_Length	Double	Numeric values with decimal values within specific range representing the total length of Sidewalk.





Spherical Image Extraction Data Model

Sidewalk "Status" Field & Field Values

• Field Name

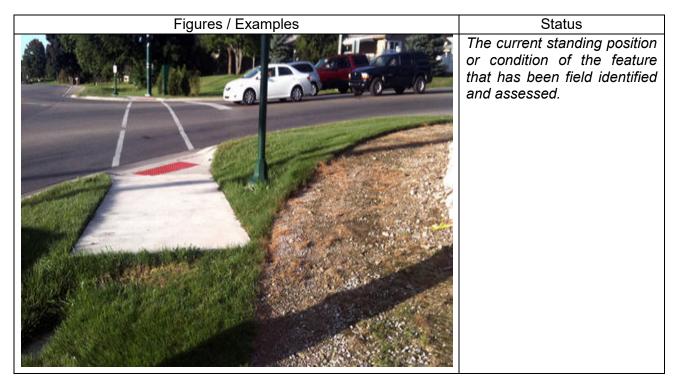
(see figure 1.1)

- List of Values
- (see figure 1.2)
- Present

o Status

- $\circ \quad \text{Missing} \quad$
- Under Construction
- o Obscured
- o **Unknown**

Description of Sidewalk "Status" Field (figure 1.1)







Spherical Image Extraction Data Model

Description of Sidewalk "Status" Field Values (figure 1.2)

Figures / Examples	Status Values
	Present: If a sidewalk exists currently at the time of inspection.
	Missing: <i>If the sidewalk has a gap or does not exist at the time of inspection.</i>
	Under Construction: Areas that are currently under construction at the time of inspection. Pre-ADA streets or sidewalks are altered; there may be space limitations that restrict how much they can be altered to install accessible curb ramps. In these cases, the curb ramps installed must meet the accessibility requirements of the ADA to the maximum extent feasible.
	Obscured: Any feature that is being concealed or shrouded by an obstacle at the time of inspection. The perspective of the image is not clear and may need addition field efforts to resolve the obscured areas.
	Unknown: The sidewalk status could not be determined due to surrounding environment or a paucity of data.







Sidewalk "Material" Field & Field Values

• Field Name

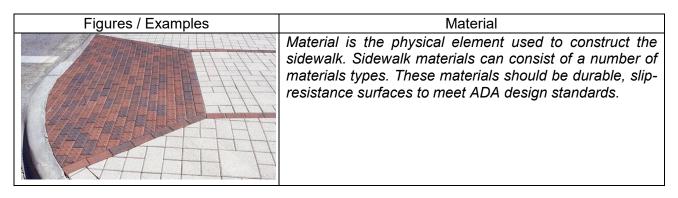
(see figure 1.3)

Material

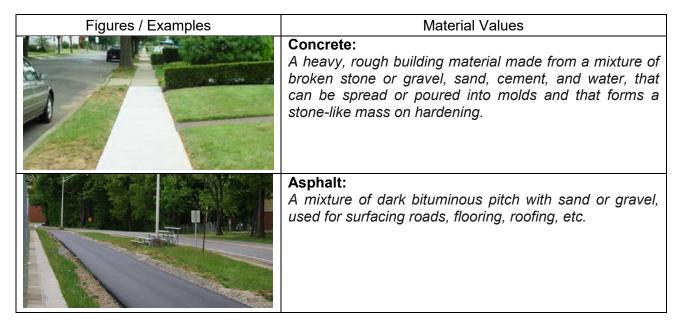
(see figure 1.4)

- List of Values • Concrete
 - o Asphalt
 - Brick / Pavers
 - o Stone
 - o Tile
 - o Other See Notes
 - o None
 - o Unknown
 - NA (Not Applicable)

Description of Sidewalk "Material" Field (figure 1.3)



Description of Sidewalk "Material" Field Values (figure 1.4)









Spherical Image Extraction Data Model

Description of Sidewalk "Material" Field Values (figure 1.4 continued)

Figures / Examples	Material Values
	Brick / Pavers: A vitrified clay brick slightly larger than building brick and used in the construction of pavement surfaces.
	Stone: The hard, solid, nonmetallic mineral matter of which rock is made, especially as a building material and sidewalk surfaces.
	Tile: A thin, flat or convex slab of hard material such as baked clay or plastic, laid in rows to cover walls, floors, and roofs.
	Other See Notes: Any material that can be used as a surface for sidewalks that is not listed as a material in the values list. Examples are flexible surface materials like rubber and recycled materials or gravel. The actual material must be described in the "Notes" field.
	None: When no surface is present at the time of assessment.







Description of Sidewalk "Material" Field Values (figure 1.4 continued)

Figures / Examples	Material Values
	Unknown: Any surface material that is unidentifiable. An area where vegetation, soil or any other obstructions may have obscured the pedestrian route or the area cannot be visually recognized from the field of view of the imaging vehicle.
	NA: (Not Applicable) Default value.





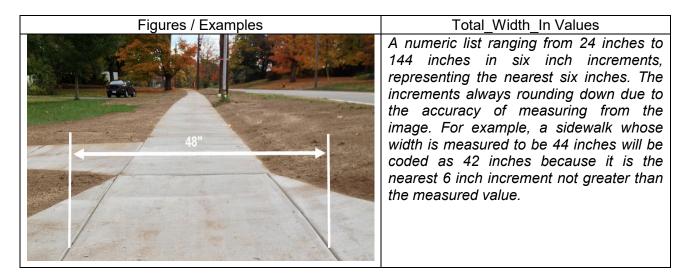
Sidewalk "Total_Width_In" Field & Field Values

•	Field ○	Nam Tota	e al_Widt	h_ln		(see figu	re 1.5))					
٠	List o	of Val	ues	_		(see figu	ire 1.6))					
0	24	0	42	0	60	0	78	0	96	0	114	0	132
0	30	0	48	0	66	0	84	0	102	0	120	0	138
0	36	0	54	0	72	0	90	0	108	0	126	0	144
												0	Unknown

Description of Sidewalk "Total_Width_In" Field (figure 1.5)

Figures / Examples	Total_Width_In
	Total Width of walkway corridor in inches. This is a typical average width of the sidewalk measured from edge to edge.

Description of Sidewalk "Total_Width_In" Field Values (figure 1.6)







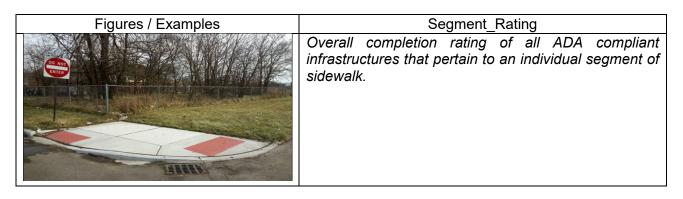
Sidewalk "Segment_Rating" Field & Field Values

- Field Name (see figure 1.7)
 - Segment_Rating
- List of Values

(see figure 1.8)

- - o Complete
 - Complete w/Barriers
 - Partial Infrastructure 0
 - No Infrastructure 0

Description of Sidewalk "Segment_Rating" Field (figure 1.7)



Description of Sidewalk "Segment_Rating" Field Values (figure 1.8)

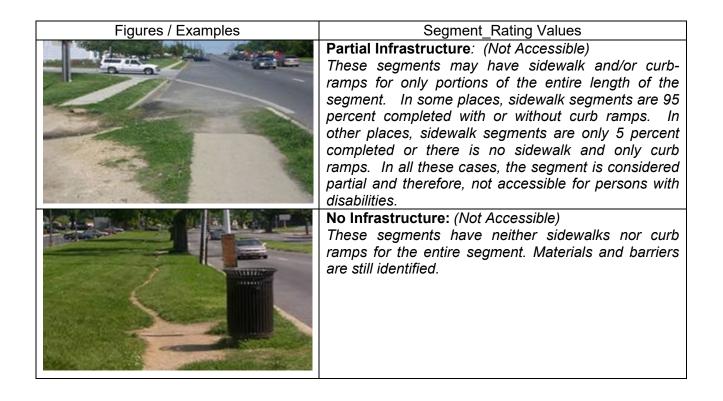
Eiguroo / Exomploo	Segment Rating Values
Figures / Examples	Segment_Rating Values
	Complete: (Completely Accessible)
	Segments contain complete accessible sidewalks,
	free of major gaps or barriers, minimum of four (4')
	feet in width with necessary passing zones, and with
	curb ramps in appropriate locations. These segments
	are considered accessible for use by persons of all
	abilities for the entire length of the segment.
ANTI	
	Complete w/Barriers: (Not Accessible)
	These segments have sidewalks, curb- ramps, and
	are at least four feet (4') in width, but contain barriers.
	These barriers might include absence of passing
	areas on sidewalks less than five feet (5') in width,
	slopes that are too steep to be classified as
	accessible, and/or utility poles, street signposts,
K I	landscaping, or drainage ways.
	landoodping, of dramago wayo.







Description of Sidewalk "Segment_Rating" Field Values (figure 1.8 continued)







Sidewalk "Notes" Field & Field Values

- **Field Name** (see figure 1.9) • Notes
- Data Type
 - o Text Field

(see figure 1.10)

Description of Sidewalk "Notes" Field (figure 1.9)

Notes Any additional information pertaining to the Sidewalk feature.

Description of Sidewalk "Notes" Field Value (figure 1.10)

Text Field

255 allowable characters to describe any additional attribute about the Sidewalk feature.

Sidewalk "Source" Field & Field Values

Field Name •

(see figure 1.11)

- o Source
- List of Values
 - Orthorectified Aerial Photo
 - Street Level Imagery 0
 - Field Location 0

Description of Sidewalk "Source" Field (figure 1.13)

Source

Identifies the source or the primary reference that the GIS data was obtained from.



(see figure 1.12)



Description of Sidewalk "Source" Field Values (figure 1.12)

Not Orthorectified	Orthorectified	Source Values
Perspective view	Orthographic view	 Orthorectified Aerial Photo: An image or aerial photo that has a constant scale wherein features are represented in their 'true' positions. Orthorectification creates a final product whereby each pixel in the image is depicted as if it were collected from directly overhead or as close to this as possible. Street Level Imagery: Low altitude street level imagery enables users to experience a true-to-life view from a vehicle perspective. Imagery is collected using a 360 degree camera mounted on an automobile.
		Field Location: When an area is obscured by tree coverage, vehicles or other obstacles and an accurate assessment isn't achievable, field crews will physically visit an area. Ramps and sidewalk data will be assessed using GIS field data collectors and GPS equipment, along with digital camera images.



Spherical Image Extraction Data Model

Sidewalk "Feature_ID" Field & Field Values

o Text Field

- Field Name (see figure 1.13) o Feature ID Data Type (see figure 1.14)
- **Description of Sidewalk "Feature_ID" Field** (figure 1.13)

Feature ID

Incrementing unique feature ID's to aid in classifying features and organizing sidewalk assets.

Description of Sidewalk "Feature_ID" Field Value (figure 1.14)

Text Field 100 allowable characters to define the unique feature ID.

Sidewalk "Street_Name" Field & Field Values

Field Name

(see figure 1.15)

- o Street Name
- Data Type
 - o Text Field

(see figure 1.16)

Description of Sidewalk "Street_Name" Field (figure 1.15)

Street Name Name of street that runs parallel along sidewalk segment.

Description of Sidewalk "Street_Name" Field Value (figure 1.16)

Text Field

50 allowable characters to describe the Street Name. This Name shall correspond with the official name in the Orange County street centerline GIS feature class.



Spherical Image Extraction Data Model

Sidewalk "Photo_ID" Field & Field Values

Field Name (see figure 1.17)

 Photo_ID

 Data Type (see figure 1.18)

 Text Field

Description of Sidewalk "Photo_ID" Field (figure 1.17)

Photo_ID A unique ID number of the Sidewalk image that corresponds with the image frame number from the field imaging camera.

Description of Sidewalk "Photo_ID" Field Value (figure 1.18)

[Text Field
	50 allowable characters that define the Sidewalks unique Photo_ID number.

Sidewalk "Functional_Classification" Field & Field Values

- Field Name (see figure 1.19)
 - Functional_Classification
- Data Type(see figure 1.20)
 - o Text Field Yes / No

Description of Sidewalk "Functional_Classification" Field (figure 1.19)

Functional_Classification

Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.

Description of Sidewalk "Functional_Classification" Field Value (figure 1.20)

Text Field Yes / No Yes" value defines if the road has an arterial or collector functional classification & "No" value defines if the road has a local functional classification.





Sidewalk "Inventory_Area" Field & Field Values

•	Field Name	(see figure 1.21)
	 Inventory_Area 	
٠	Data Type	(see figure 1.22)
	 Text Field 	

Description of Sidewalk "Inventory_Area" Field (figure 1.21)

Inventory_Area

A unique ID number that identifies all assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.

Description of Sidewalk "Inventory_Area" Field Value (figure 1.22)

Text Field

20 allowable characters that define the unique ID number of the Inventory_Area.

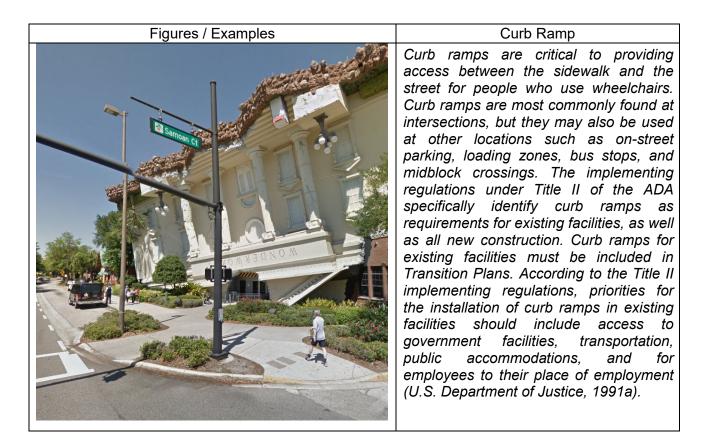




2.0 – Curb Ramp Feature Names & Values

- Feature Class
 - Curb Ramp

Description of "Curb Ramp" Feature Class (figure 2.0)







Summary of GIS Field Data Model for "Curb Ramp" (Point Feature)

Field Name	Feature Attributes	Description
Status	Present, Missing, Under Construction, Obscured, Unknown	The current standing position or condition of the feature that has been field identified and assessed.
Туре	Perpendicular, One Way Directional, Diagonal, Parallel, Combined, Blended Transition, Built- Up, Other See Notes, None, Unknown	The ramp type is determined by the location and design.
Detectable_Warning_Surface_Type	None, Synthetic Tactile Mats, Cast In Place Tactile Pavers, Precast Brick/Pavers, Precast Tile, Other See Notes, Unknown	Warning surfaces that are detectable under foot that indicate the boundary between a pedestrian route and a vehicular route.
Sides	Flared, Returned Curb, Other See Notes, None, Unknown, NA	Identified side type associated with pedestrian ramp
Landing	Yes / No	A 4 ft. x 4 ft. minimum level area of walkway at the top or bottom of a ramp that allows wheeled users a space to orient their direction before and after using a ramp.
Marked_Crossing	Yes / No	Clearly marked zones found at intersections where pedestrians are crossing.
Curb_Extensions	Yes / No	An extension of the curb line in a bulb-like rounding radius that incorporates curb ramps. Its purpose is to shorten the crossing distance for pedestrians.
Midblock_Crossing	Yes / No	Midblock crossings are pedestrian crossing points that do not occur at intersections. They are often installed in areas with heavy pedestrian traffic to provide more frequent crossing opportunities.
Island	Yes / No	Raised concrete refuge usually found between right turns and through-fare travel lanes.
Pedestrian_Signal	Yes / No	Devices that communicate information about the WALK and DON'T WALK intervals at signalized intersections in visual or non-visual formats.
Cross_slope_Compliant	Yes / No	The cross slope is the slope perpendicular to [across] the direction of pedestrian travel on the ramp run.
Running_slope_Compliant	Yes / No	Running-slope (longitudinal) is defined as the average cross-slope of a contiguous section of sidewalk.
Gutter_Transition_Compliant	Yes / No	Gutter transition is the transition from curb ramp to the gutters & street.
Notes	Text (255)	Any additional information pertaining to the Curb Ramp feature.
Quadrant	N, NE, E, SE, S, SW, W, NW	One of the eight principal directions associated with the location of the Curb Ramp.







Summary of field data model for "Curb Ramp" (continued)

Direction	N, NE, E, SE, S, SW, W, NW	Approach direction of the pedestrians.
Source	Orthorectified Aerial Photo, Street Level Imagery, Field Location	Identifies the source or the primary reference that the GIS data was obtained from.
Street_Name	Text (50)	Name of street that runs perpendicular to the curb ramp.
Crossroad_Name	Text (50)	Name of road that runs perpendicular to the main road being crossed.
Feature_ID	Text (100)	Incrementing unique feature ID's aid in classifying and organizing Curb Ramp assets.
Photo_ID	Text (50)	A unique ID number of the Curb Ramp image that corresponds with the image frame number from the field imaging camera.
Functional_Classification	Yes / No	Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.
Inventory_Area	Text (20)	A unique ID number that identifies the assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.
Inspec_Date	Date	Image Date of the assessed feature.
Photo_Folder	Text (100)	The directory folder the images are being stored.
Photo_Hotlink	Text (255)	Defines the path and file name of the photo file linked to the Curb Ramp.
Northing	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Easting	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Latitude	Text (20)	The angular distance of a location North or South of the earth's equator, measured in degrees, minutes & seconds.
Longitude	Text (20)	The angular distance of a location East or West of the meridian at Greenwich, England measured in degrees, minutes & seconds.





Curb Ramp "Status" Field & Field Values

• Field Name

(see figure 2.1)

- StatusList of Values
- (see figure 2.2)
- Present
 - \circ Missing
 - o Non-Compliant
 - Under Construction
 - \circ Obscured
 - o Unknown

Description of Curb Ramp "Status" Field (figure 2.1)

Figures / Examples	Status
	The current standing position or condition of the feature that has been field identified and assessed.

Description of Curb Ramp "Status" Field Values (figure 2.2)

Figures / Examples	Status Values
	Present: If a Curb Ramp exists currently at the time of inspection.
	Missing: If the sidewalk does not have a Curb Ramp at the time of inspection.







Spherical Image Extraction Data Model

Figures / Examples	Status Values
	Under Construction: Areas that are currently under construction at the time of inspection. Pre-ADA streets or sidewalks are altered; there may be space limitations that restrict how much they can be altered to install accessible curb ramps. In these cases, the curb ramps installed must meet the accessibility requirements of the ADA to the maximum extent feasible.
	Obscured: Any feature that is being concealed or shrouded by an obstacle at the time of inspection. The perspective of the image is not clear and may need addition field efforts to resolve the obscured areas.
	Unknown: An area where the Curb Ramp status could not be determined due to surrounding environment or a paucity of data.

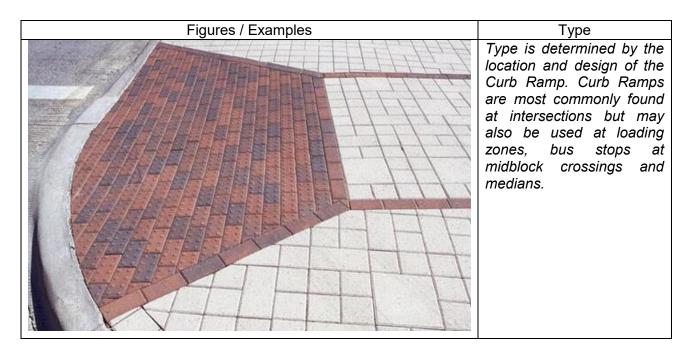




Curb Ramp "Type" Field & Field Values

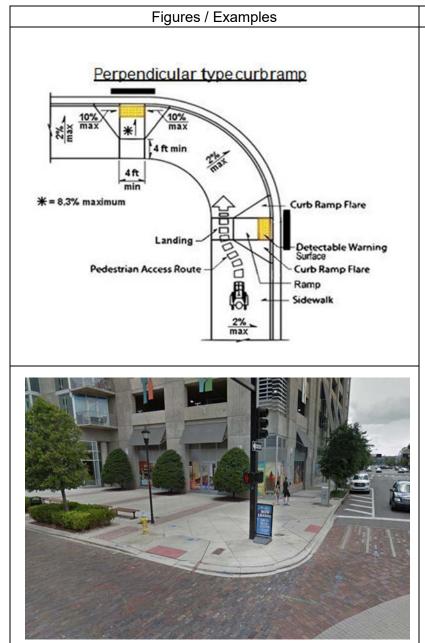
- Field Name
- (see figure 2.3)
- о Туре
- List of Values
- (see figure 2.4)
- o Perpendicular
- o Parallel
- o Diagonal
- o Blended Transition
- o One-Way Directional
- o Combined
- o Built-Up
- o Other See Notes
- o None
- o Unknown

Description of Curb Ramp "Type" Field (figure 2.3)









Type Values

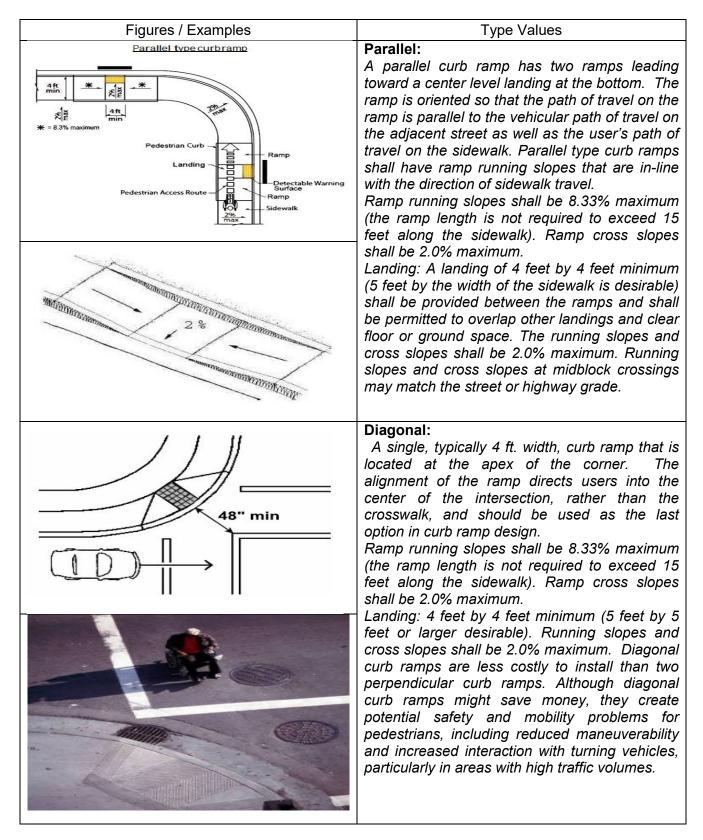
Perpendicular: A curb ramp that is aligned so that the ramp generally is perpendicular to the centerline of the roadway, and users will generally be traveling perpendicular to traffic when they enter the street at the bottom. Ramps shall have a running slope that cuts through or is built up to the gutter grade break at right angles. Ramp running slopes shall be 8.33% maximum. Ramp cross slopes shall be 2.0% maximum. The cross slope at midblock crossings shall be permitted to match street or highway grade.

Landing: A landing of 4 feet by 4 feet minimum (5 feet by 5 feet desirable) shall be provided at the top of the curb ramp and shall be permitted to overlap other landings and clear space. Running slopes and cross slopes shall be 2.0% maximum. Running slopes and cross slopes at midblock crossings may match the street or highway grade.

Flares: Flared sides with a slope of 10% maximum, measured parallel to the curb line, are needed when a pedestrian circulation path crosses the curb ramp from the side.



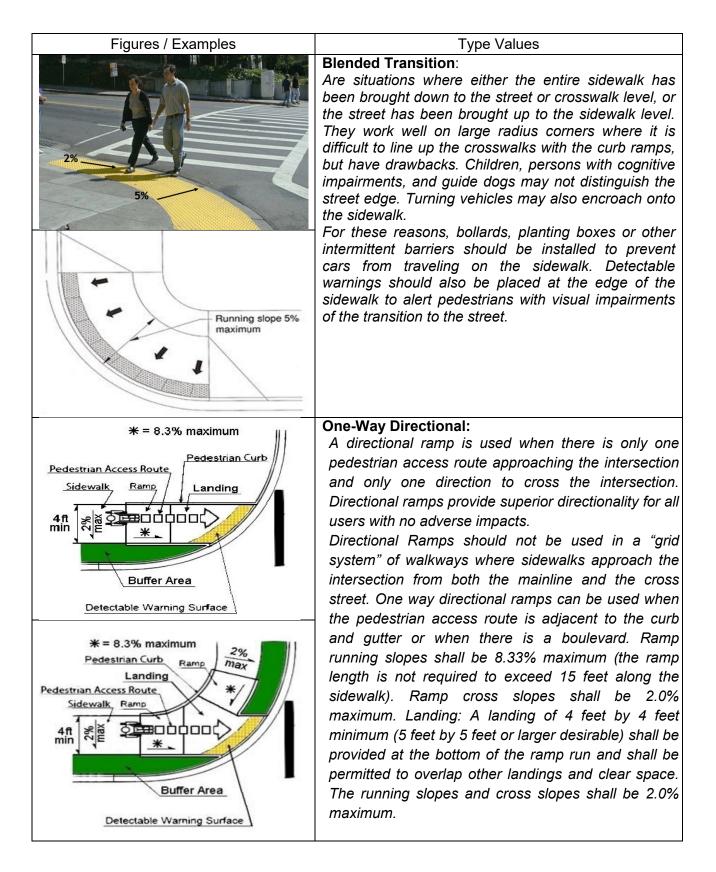








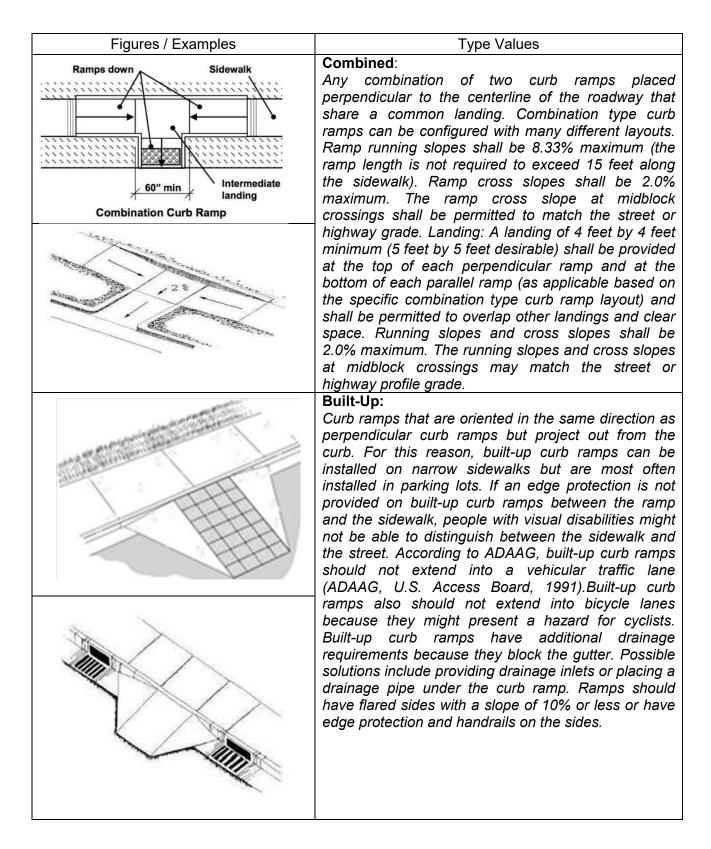
















Figures / Examples	Type Values
	Other See Notes:
	Any other pedestrian ramp that is not
	identifiable with the compiled list of
	common ADA compliant curb ramp
	types. If Other See Notes is the value
	chosen for "Type" a description of the
	ramp will be Noted in the "Notes" field.
and and and and and the property	
in man	
	None:
	No existing ramp at location.
	Pedestrian access to sidewalks and
	streets, including crosswalks, curb
	ramps, street furnishings, pedestrian signals, parking, and other parts of the
	public right-of-way must meet ADA
The second se	standards and design under Title II. If
at sail	Curb Ramp "Type" is coded as "None"
	then Curb Ramp "Status" should be
	coded as "Missing" to indicate that a
	ramp will need to be constructed at
	that location.
	Unknown:
	Any unknown Curb ramp type.





Curb Ramp "Detectable_Warning_Surface_Type" Field & Field Values

- Field Name
 - Detectable_Warning_Surface_Type
- List of Values
 - o None
 - Synthetic Tactile Mats
 - Cast In Place Tactile Pavers
 - Precast Brick / Pavers
 - o Precast Tile
 - o Other See Notes
 - o Unknown

Description of Curb Ramp "Detectable_Warning_Surface_Type" Field (figure 2.5)

Figures / Examples Detectable Warning Surface Type

Detectable warning surfaces consist of small truncated domes or other changes in surface texture built in or applied to a walking surface that are detectable underfoot. On pedestrian access routes, detectable warning surfaces indicate the boundary between a pedestrian route and a vehicular route where there is a flush rather than a curbed connection for pedestrians who are blind or have low vision.

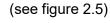
Description of Curb Ramp "Detectable_Warning_Surface_Type" Field Values (figure 2.6)



Prepared By: Southeastern Surveying & Mapping Corporation & HDR, Inc. Engineering Consultants







(see figure 2.6)



Description of Curb Ramp "Detectable_Warning_Surface_Type" Field Values (2.6 cont.)

Figures / Examples	Detectable_Warning_Surface_Type Values
	Cast In Place Tactile Pavers: For use in new curb ramps or new construction pressed into place in freshly poured concrete. Cast in Place Tactile is made of a colorfast and UV stable homogenous glass and carbon composite with fiberglass truncated domes for enhanced durability.
	Precast Brick / Pavers: Are made by pouring a mixture of concrete and some type of coloring agent into a mold of some shape and allowing to set. They are applied by pouring a standard concrete foundation, spreading sand on top, and then laying the pavers in the desired pattern
	Precast Tile: <i>Precast concrete panels typically 12"x12" and 2" thick.</i>
	Other See Notes: Any detectable warning surface type that is not indicated in the standard detectable warning surfaces type list. A description must be provided in the "Notes" Field.
	Unknown: Any unknown detectable warning surface type.







Curb Ramp "Sides" Field & Field Values

Field Name

 Sides

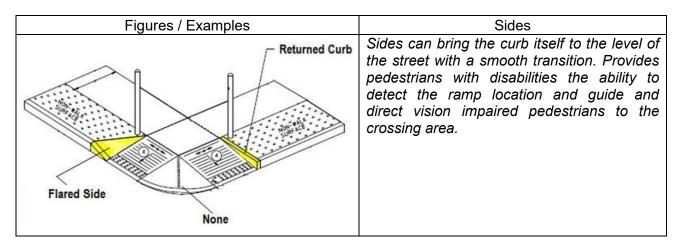
(see figure 2.7)

• List of Values

(see figure 2.8)

- $\circ \quad \text{Flared}$
- o Returned Curb
- o Other See Notes
- o None
- o **Unknown**
- o NA

Description of Curb Ramp "Sides" Field (figure 2.7)



Description of Curb Ramp "Sides" Field Values (figure 2.8)

Figures / Examples	Side Values
flared sides	Flared: Flared sides provide a gradual incline from the edge of the center ramp to the sidewalk. Flares are not considered an accessible path of travel because they are generally steeper than the ramp and often feature significant cross-slopes with excessive rate of change of cross-slope.





Figures / Examples	Sides
returned curbs	Returned Curb:
Tetunieu cuitos	Returned Curb: Returned curbs may be used when the curb ramp is located outside the pedestrian walkway, such as in a planting strip.
Flared Side	Other See Notes: When a curb Ramp consists of two Side types or if a Curb Side type is not indicated in the standard Side type list. The Side type's description must be provided in the "Notes" Field.
None	
	None: <i>Curb Ramps that don't have any noticeable side flares or return curbing.</i>
	Unknown: Any unknown Curb ramp Side type.
	NA: Default value





Curb Ramp "Landing" Field & Field Values

• Field Name

(see figure 2.9)

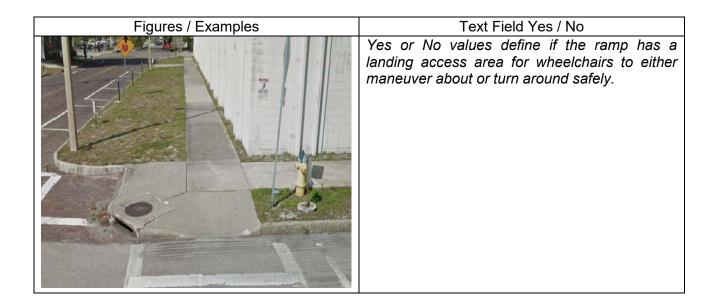
- o Landing
- Data Type
 - o Text Yes / No

(see figure 2.10)

Description of Curb Ramp "Landing" Field (figure 2.9)

Figures / Examples	Landing
915 mm (36 in) 1.22 m (48 in) 915 mm (36 in) 9.3 percent	Curb ramp landings allow people with mobility impairments to move completely off the curb ramp and onto the sidewalk. Curb ramps without landings force wheelchair users entering the ramp from the street, as well as people turning the corner, to travel on the ramp flares.

Description of Curb Ramp "Landing" Field Values (figure 2.10)







Curb Ramp "Marked_Crossing" Field & Field Values

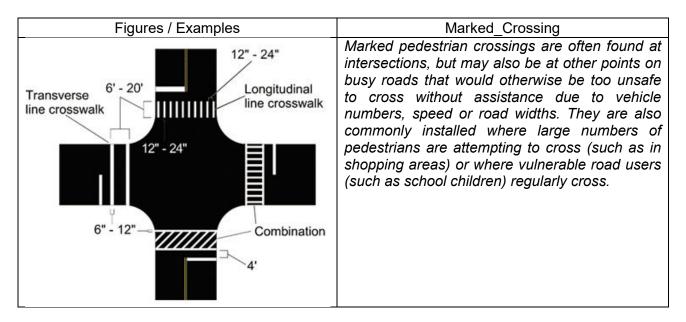
• Field Name

(see figure 2.11)

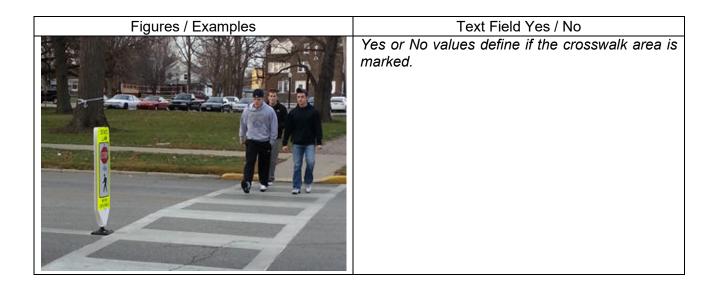
- Marked_Crossing
- Data Type
 - o Text Yes / No

(see figure 2.12)

Description of Curb Ramp "Marked_Crossing" Field (figure 2.11)



Description of Curb Ramp "Marked_Crossing" Field Values (figure 2.12)







Curb Ramp "Curb_Extension" Field & Field Values

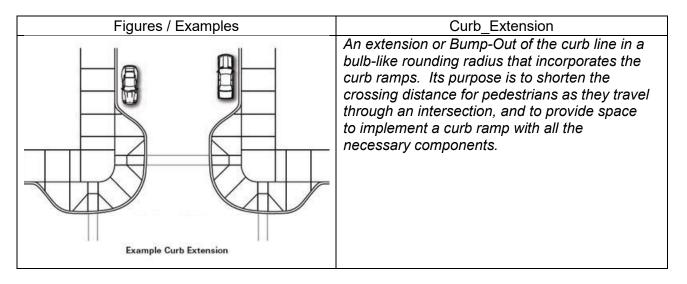
• Field Name

(see figure 2.13)

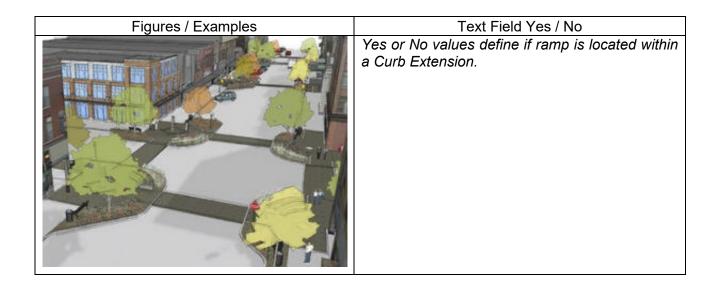
- Curb_Extension
 Data Type
 - Text Yes / No

(see figure 2.14)

Description of Curb Ramp "Curb_Extension" Field (figure 2.13)



Description of Curb Ramp "Curb_Extension" Field Values (figure 2.14)







Curb Ramp "Midblock_Crossing" Field & Field Values

• Field Name

(see figure 2.15)

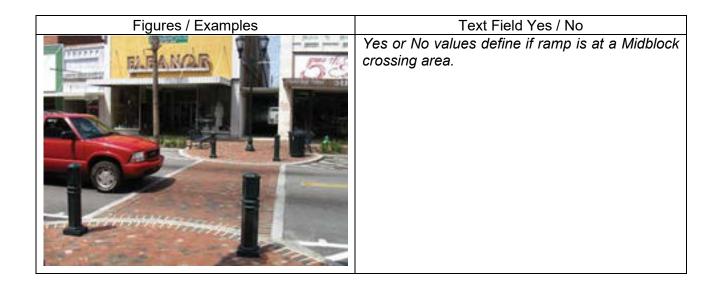
- Midblock_Crossing
- Data Type
 - o Text Yes / No

(see figure 2.16)

Description of Curb Ramp "Midblock_Crossing" Field (figure 2.15)

Figures / Examples	Midblock_Crossing
	Midblock crossings are pedestrian crossing points that do not occur at intersections. They are often installed in areas with heavy pedestrian traffic to provide more frequent crossing opportunities.

Descriptions of Curb Ramp "Midblock_Crossing" Field Values (figure 2.16)







Curb Ramp "Island" Field & Field Values

• Field Name

(see figure 2.17)

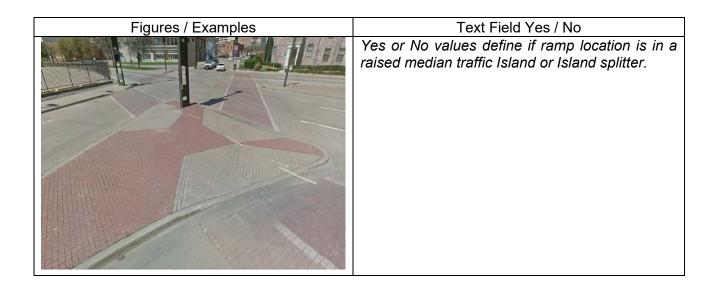
- o **Island**
- Data Type
 - o Text Yes / No

(see figure 2.18)

Description of Curb Ramp "Island" Field (figure 2.17)

Figures / Examples	Island
ISLAND PASS-THROUGH WIDTH OF PASS-THROUGH (TYPICAL) DETECTABLE WARNING SURFACE (TYPICAL) BACK OF CURB	Raised concrete refuge usually found between right turns and through-fare travel lanes. Typically in the shape of a triangle or a "Pork Chop". Any raised islands in crossings shall be cut through level with the street or have curb ramps at both. Island must be 6 feet in length minimum. Provide a passing space at least 5 feet wide for a distance of at least 5 feet for each PAR in a raised median or on a traffic island.

Description of Curb Ramp "Island" Field Values (figure 2.18)







Curb Ramp "Pedestrian_Signal" Field & Field Values

• Field Name

Data Type

•

(see figure 2.19)

• Pedestrian_Signal

(see figure 2.20)

o Text Field - Yes / No

′es / No

Description of Curb Ramp "Pedestrian_Signal" Field (figure 2.19)

	-
Figures / Examples	Pedestrian Signal
Image: Stream provide the stream providet the stream provide the stream provide the stream provide the s	Accessible Pedestrian signals are devices that communicate information about the WALK and DON'T WALK intervals at signalized intersections in visual or non- visual formats.

Description of Curb Ramp "Pedestrian_Signal" Field Values (figure 2.20)

Figures / Examples	Text Field Yes / No
	Yes or No values define if the pedestrian crossing areas have Accessible Pedestrian signals.





Curb Ramp "Cross_Slope_Compliant" Field & Field Values

- Field Name (see figure 2.21)
 - Cross_Slope_Compliant

(see figure 2.22)

- Data Type
 - o Text Field Yes / No

Description of Curb Ramp "Cross_Slope_Compliant" Field (figure 2.21)

Figures / Examples	Cross_Slope_Compliant
	Cross Slope will be observed visually and assessed from the spherical panorama imagery. Cross Slope (Horizontal) is defined as the slope measured perpendicular to the direction of travel. Unlike grade, cross-slope can be measured only at specific points. Steep cross- slopes can make it difficult for wheelchair or crutch users to maintain lateral balance and can cause wheelchairs to veer downhill or into the street. The cross slope of a pedestrian access route shall be 2.0% maximum.

Description of Curb Ramp "Cross_Slope_Compliant" Field Values (figure 2.22)

Figures / Examples	Text Field Yes / No
2 percent cross slope 915 mm (36 in) minimum	Yes or No values define if the sidewalk has ADA compliant Cross Slope and does not exceed the 2% maximum standard design. This will be visually determined so that non-compliant Curb Ramps can be measured at a later date to determine specific compliance.





Curb Ramp "Running_Slope_Compliant" Field & Field Values

Field Name

(see figure 2.23)

- Running_Slope_Compliant
- Data Type
 - o Text Field Yes / No

(see figure 2.22)

Description of Curb Ramp "Running_Slope_Compliant" Field (figure 2.23)

Figures / Examples	Running_Slope_Compliant
	Running Slope will be observed visually and assessed from the spherical panorama imagery. The Running Slope (longitudinal) is defined as the average cross-slope of a contiguous section of sidewalk. The ramp run has the least running slope possible. (On a curb ramp, the running slope is the slope in the direction of pedestrian travel on the ramp run. Ramp running slopes shall be 8.33% maximum (the ramp length is not required to exceed 15 feet along the sidewalk). Ramp cross slopes shall be 2.0% maximum.

Description of Curb Ramp "Running_Slope_Compliant" Field Values (figure 2.24)

Figures / Examples	Text Field Yes / No
	Yes or No values define if the sidewalk has ADA compliant Running Slope. This will be visually determined so that non-compliant Curb Ramps can be measured at a later date to determine specific compliance.





Curb Ramp "Gutter_Transition_Compliant" Field & Field Values

- Field Name (see figure 2.25)
 - Gutter_Transition_Compliant
- Data Type

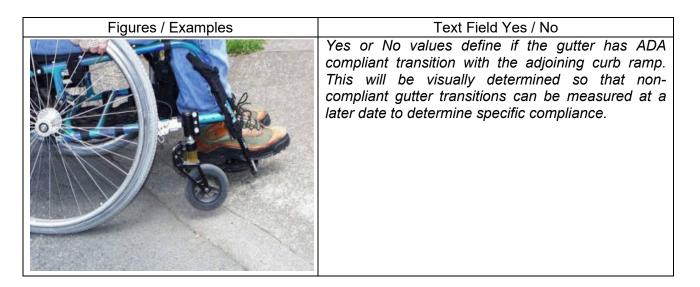
(see figure 2.26)

Text Field - Yes / No

Description of Curb Ramp "Gutter_Transition_Compliant" Field (figure 2.25)

Figures / Examples	Gutter_Transition_Compliant
Adjoining slope shall not exceed 1:20 where X is a level plane walk	The slopes of adjacent gutters and streets significantly affect the overall accessibility of curb ramps. When the rate of change of grade between the gutter and the ramp exceeds 13 percent over a 455 mm (2-ft) interval, wheelchair users can lose their balance. Any amount of height transition between the curb ramp and the gutter can compound the difficulties caused by rapidly changing grades. According to ADAAG, the slope of the road or gutter surface immediately adjacent to the curb ramp should not exceed 5 percent, and the transition between the ramp and the gutter should be smooth.

Description of Curb Ramp "Gutter_Transition_Compliant" Field Values (figure 2.26)







Curb Ramp "Notes" Field & Field Values

- **Field Name** (see figure 2.27) •
- Notes
- Data Type •
 - o Text Field

(see figure 2.28)

Description of Curb Ramp "Notes" Field (figure 2.27)

Notes	
Any additional information pertaining to the Curb Ramp feature.	

Description of Curb Ramp "Notes" Field Value (figure 2.28)

Text Field

255 allowable characters to describe any additional attribute about a Curb Ramp feature.

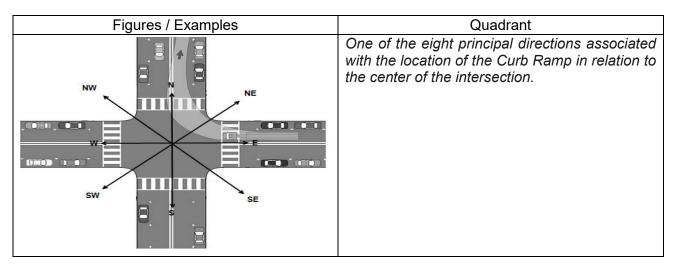




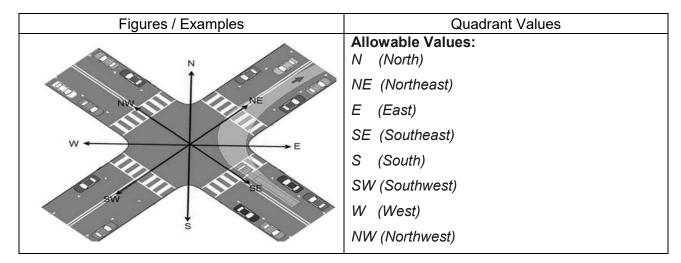
Curb Ramp "Quadrant" Field & Field Values

- Field Name
 - o Quadrant
- List of Values
 - N (North)
 - NE (Northeast)
 - E (East)
 - SE (Southeast)
 - o S (South)
 - SW (Southwest)
 - o W (West)
 - NW (Northwest)

Description of Curb Ramp "Quadrant" Field (figure 2.29)



Description of Curb Ramp "Quadrant" Field Values (figure 2.30)



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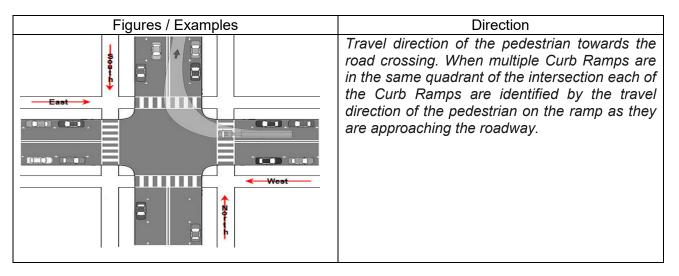
(see figure 2.29) (see figure 2.30)



Curb Ramp "Direction" Field & Field Values

- **Field Name** •
 - Direction
- List of Values
 - N (North)
 - NE (Northeast) 0
 - E (East) 0
 - SE (Southeast) 0
 - S (South) 0
 - SW (Southwest) 0
 - W (West)
 - NW (Northwest) 0

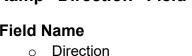
Description of Curb Ramp "Direction" Field (figure 2.31)



Description of Curb Ramp "Direction" Field Values (figure 2.32)

Figures / Examples	Direction Values
Figures / Examples	Allowable Values: N (North) NE (Northeast) E (East) SE (Southeast) S (South) SW (Southwest) W (West)
	NW (Northwest)

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(see figure 2.32)

(see figure 2.31)





Curb Ramp "Source" Field & Field Values

- Field Name (see figure 2.33)
 - o Source
- List of Values

(see figure 2.34)

- Orthorectified Aerial Photo
- Street Level Imagery
- o Field Location

Description of Curb Ramp "Source" Field (figure 2.33)

Source Identifies the source or the primary reference that the GIS data was obtained from.

Description of Curb Ramp "Source" Field Values (figure 2.34)

Not Orthorectified	Orthorectified	Source Values
Perspective view	Orthographic view	Orthorectified Aerial Photo: An image or aerial photo that has a constant scale wherein features are represented in their 'true' positions. Orthorectification creates a final product whereby each pixel in the image is depicted as if it were collected from directly overhead or as close to this as possible.
		Street Level Imagery: Low altitude street level imagery enables users to experience a true-to-life view from a vehicle perspective. Imagery is collected using a 360 degree camera mounted on an automobile.
		Field Location: When an area is obscured by tree coverage, vehicles or other obstacles and an accurate assessment isn't achievable, field crews will physically visit an area. Ramps and sidewalk data will be assessed using GIS field data collectors and GPS equipment, along with digital camera images.







Curb Ramp "Street_Name" Field & Field Values

- Field Name (see figure 2.35)
 - Street_Name
- Data Type (see figure 2.36)
 - o Text Field

Description of Curb Ramp "Street_Name Field (figure 2.35)

Street_Name

Name of street that runs perpendicular to the Curb Ramp direction. This is typically the street that the pedestrian would cross after exiting the ramp.

Description of Curb Ramp "Street_Name Field Value (figure 2.36)

Text Field
50 allowable characters to describe the Street Name. This is typically the street that the
pedestrian would cross after exiting the Curb Ramp.

Curb Ramp "Crossroad_Name" Field & Field Values

- Field Name (see figure 2.37)
 - Crossroad_Name
- Data Type (see figure 2.38)
 - o Text Field

Description of Curb Ramp "Crossroad_Name" Field (figure 2.37)

Crossroad Name

Name of road that runs perpendicular to the main road being crossed.

Description of Curb Ramp "Crossroad_Name" Field Value (figure 2.38)

Text Field 50 allowable characters to describe the Crossroad Name. This Name shall correspond with the official name in the Orange County street centerline GIS feature class.



Spherical Image Extraction Data Model

Curb Ramp "Feature_ID" Field & Field Values

- Field Name (see figure 2.39) o Feature ID Data Type (see figure 2.40)
 - o Text Field

Description of curb Ramp "Feature_ID" Field (figure 2.39)

Feature ID

Incrementing unique feature ID's aid in classifying and organizing Curb Ramp assets.

Description of Curb Ramp "Feature_ID" Field Value (figure 2.40)

Text Field 100 allowable characters to define the unique feature ID of the Curb Ramp.

Curb Ramp "Photo_ID" Field & Field Values

Field Name

(see figure 2.41)

- o Photo ID
- Data Type
 - o Text Field

(see figure 2.42)

Description of Curb Ramp "Photo_ID" Field (figure 2.41)

Photo ID

A unique ID number of the Curb Ramp image that corresponds with the image frame number from the field imaging camera.

Description of Curb Ramp "Photo_ID" Field Value (figure 2.42)

Text Field

50 allowable characters that define the Curb Ramps unique Photo ID number.





Curb Ramp "Functional_Classification" Field & Field Values

- Field Name (see figure 2.43)
 - Functional_Classification

Data Type (see figure 2.44)

Text Field Yes / No

Description of Curb Ramp "Functional_Classification" Field (figure 2.43)

Functional_Classification

Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.

Description of Curb Ramp "Functional_Classification" Field Value (figure 2.44)

Text Field Yes / No Yes" value defines if the road has an arterial or collector functional classification & "No" value defines if the road has a local functional classification.

Curb Ramp "Inventory_Area" Field & Field Values

- Field Name (see figure 2.45)
 - Inventory_Area
 - **Data Type** (see figure 2.46)
 - Text Field

Description of Curb Ramp "Inventory_Area" Field (figure 2.45)

Inventory_Area

A unique ID number that identifies the assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.

Description of Curb Ramp "Inventory_Area" Field Value (figure 2.46)

Text Field

20 allowable characters that define the unique ID number of the Inventory_Area.

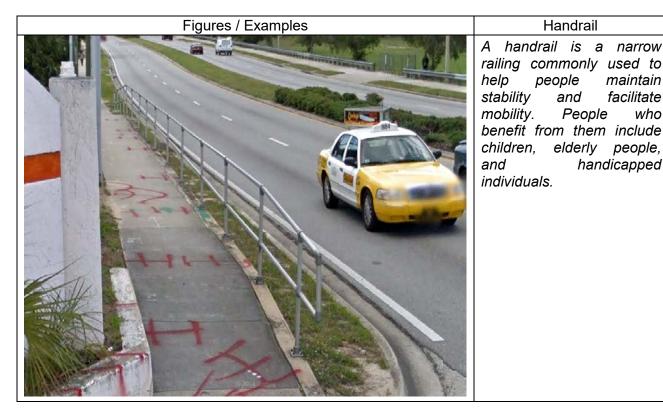




3.0 - Handrail Feature Names & Values

- Feature Class
 - Handrail

Description of "Handrail" Feature Class (figure 3.0)







Summary of Field Data Model for "Handrail" (Line Feature)

Field Name	Feature Attributes	Description
Status	Present, Missing, Under Construction, Obscured, Unknown	The current standing position or condition of the feature that has been field identified and assessed.
Location	Ramp, Bridge, Stairs, Walkway, Other See Notes, Unknown, NA	The Handrails geographic location description.
Hazard	Slope, Drop Off, Curb, Traffic, Rough Surface, Other See Notes, Unknown	Anything that can potentially cause a level of threat to life or health within an environment.
Notes	Text (255)	Any additional information pertaining to the Handrail feature.
Length_Ft	Double	Numeric values with decimal values within specific range representing the total length of the Handrail.
Source	Orthorectified Aerial Photo, Street Level Imagery, Field Location	Identifies the source or the primary reference the GIS data was obtained.
Street_Name	Text (50)	Name of parallel road along Handrail.
Feature_ID	Text (100)	Incrementing unique feature ID's aid in classifying and organizing Handrail assets.
Photo_ID	Text (50)	A unique ID number of the Handrail image that corresponds with the image frame number from the field imaging camera.
Functional_Classification	Yes / No	Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.
Inventory_Area	Text (20)	A unique ID number that identifies the assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.
Inspec_Date	Date	Image Date of the assessed feature.
Photo_Folder	Text (100)	The directory folder the images are being stored.
Photo_Hotlink	Text (255)	Defines the path and file name of the photo file linked to the Handrail.
Northing	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Easting	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Latitude	Text (20)	The angular distance of a location North or South of the earth's equator, measured in degrees, minutes & seconds.
Longitude	Text (20)	The angular distance of a location East or West of the meridian at Greenwich, England measured in degrees, minutes & seconds.
Shape_Length	Double	Numeric values with decimal values within specific range representing the total length of Handrail.







Handrail "Status" Field & Field Values

•	Field Name	(see figure 3.1)
	o Status	
•	List of Values	(see figure 3.2)
	o Present	
	 Missing 	
	Linden Construction	

- Under Construction
- Obscured
- o **Unknown**

Description of Handrail "Status" Field (figure 3.1)

Status The current standing position or condition of the Handrail feature that has been field identified and assessed.

Description of Field Values (figure 3.2)

Status Values		
Present	If a Handrail exists currently at the time of inspection and is determined to be ADA compliant.	
Missing	If the Handrail does not exist at the time of inspection.	
Under Construction	Areas that are currently under construction at the time of inspection.	
Obscured	Any feature that is being concealed or shrouded by an obstacle at the time of inspection. The perspective of the image is not clear and may need addition field efforts to resolve the obscured areas.	
Unknown	An area where the Handrail status could not be determined due to the surrounding environment or a paucity of data.	

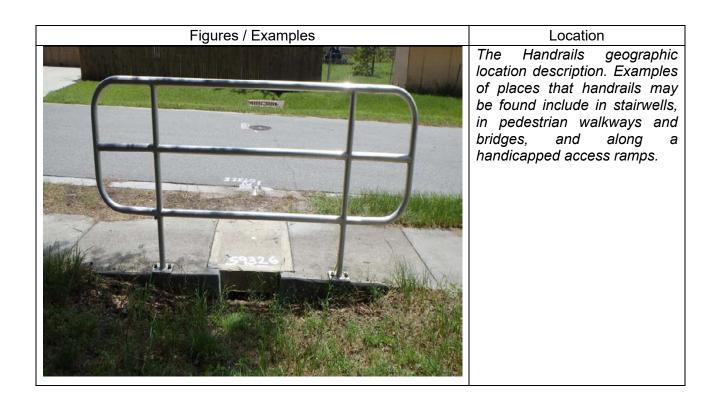




Handrail "Location" Field & Field Values

- Field Name
- (see figure 3.3)
- Location
- List of Values
- (see figure 3.4)
- o Ramp
- \circ Bridge
- o Stairs
- o Walkway
- o Other See Notes
- o Unknown
- NA (Not Applicable)

Description of Handrail "Location" Field (figure 3.3)







Description of Handrail "Location" Field Values (figure 3.4)

Figures / Examples	Location Values
	Ramp: Any extensive sloping walk or passageway or a sloping surface connecting two levels; incline. Handrails are required on ramp runs with a rise greater than 6 inches with running slopes less than 1:20.
	Bridge: A bridge is a structure built to span physical obstacles such as a body of water, valley, or road, for the purpose of providing passage over the obstacle.
	Stairs: A collection of steps that leads upward or downward. Stairs may refer to a collection of steps in a building, or they can simply refer to a collection of steps between levels of sidewalks.
	Walkway: Any constructed path that provides a passageway for pedestrians.
	Other See Notes: Any setting that is not indicated in the typical location values list. A description of the Handrail location must be provided in the "Notes" field.
	Unknown: Any unknown Handrail location type.
	NA: (Not Applicable) Default value.





Handrail "Hazard" Field & Field Values

• Field Name

(see figure 3.5)

• Hazard List of Values

(see figure 3.6)

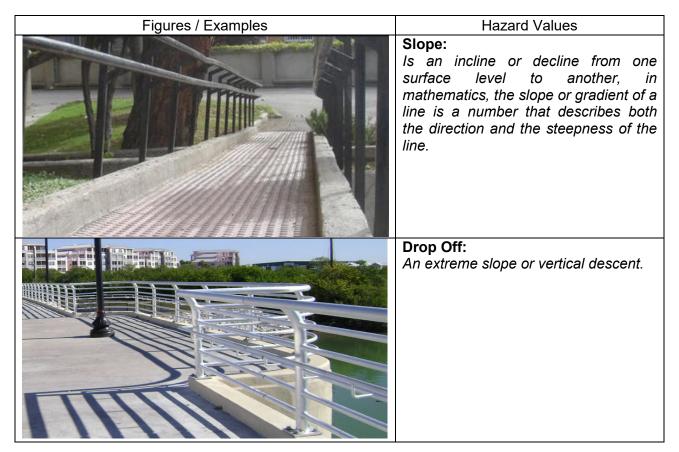
- o Slope
- o Drop Off
- o Curb
- o Traffic
- Rough Surface
- o Other See Notes
- o Unknown

Description of Handrail "Hazard" Field (figure 3.5)

Hazard

Anything that can potentially cause a level of threat to life or health within an environment or a condition or situation that can cause the body physical harm or intense stress. Physical hazards can be both natural and human made elements. The Hazard is the reason why the Handrail was specifically installed.

Description of Handrail "Hazard" Field Values (figure 3.6)









Description of Handrail "Hazard" Field Values (figure 3.6 continued)

Figures / Examples	Hazard Values
	Curb:
	Is the edge where a raised sidewalk or road median/central reservation meets a street or other roadway, especially of joined stones or concrete, along a street or roadway, forming an edge for a sidewalk.
(b) Curb or Barrier	Traffic: Vehicles moving on a road or public highway. Handrails located near the open sides of walking surfaces for the purpose of minimizing the possibility of an accidental fall from the walking surface into traffic.
	Rough Surface: Terrain that is uneven or irregular that may lack firmness, stability, and not slip resistant surfaces. This affects all users but is particularly important for people using mobility devices such as canes, crutches, wheelchairs, or walkers.
	Other See Notes: Any potential dangers that are not indicated in the Hazards values list. A description of the Hazard type must be provided in the "Notes" field.
	Unknown: Any unknown Handrail location type.





Handrail "Notes" Field & Field Values

o Text Field

- Field Name (see figure 3.7)

 Notes

 Data Type (see figure 3.8)
- **Description of Handrail "Notes" Field** (figure 3.7)

Notes	
Any additional information pertaining to the Handrail feature.	

Description of Handrail "Notes" Field Value (figure 3.8)

Text Field 255 allowable characters to describe any additional attribute about the Handrail feature.

Handrail "Length_Ft" Field & Field Values

- **Field Name** (see figure 3.9)
 - Length_Ft
- Data Type (see figure 3.10)
 - \circ Double

Description of Handrail "Length_Ft" Field (figure 3.9)

Length_Ft Total length of Handrail measured in feet and decimal feet.

Description of Handrail "Length_Ft" field Value (figure 3.10)

Double

Numeric values with decimal values within specific range representing the total length of the Handrail such as 16.23'.





Handrail "Source" Field & Field Values

- Field Name (see figure 3.11)
 - o Source
- List of Values

(see figure 3.12)

- Orthorectified Aerial Photo
 - Street Level Imagery
 - Field Location

Description of Handrail "Source" Field (figure 3.11)

Source Identifies the source or the primary reference of the GIS data that was obtained.

Description of Handrail "Source" Field Values (figure 3.12)

Source Values		
Orthorectified Aerial Photo	An image or aerial photo that has a constant scale wherein features are represented in their 'true' positions. Orthorectification creates a final product whereby each pixel in the image is depicted as if it were collected from directly overhead or as close to this as possible.	
Street Level Imagery	Low altitude street level imagery enables users to experience a true-to- life view from a vehicle perspective. Imagery is collected using a 360 degree camera mounted on an automobile.	
Field Location	When an area is obscured by tree coverage, vehicles or other obstacles and an accurate assessment isn't achievable, field crews will physically visit an area. Ramps and sidewalk data will be assessed using GIS field data collectors and GPS equipment, along with digital camera images.	





Handrail "Street_Name" Field & Field Values

- Field Name (see figure 3.13)
 - Street_Name
- Data Type (see figure 3.14)
 - Text Field

Description of Handrail "Street_Name" Field (figure 3.13)

Street_Name

Name of the street that runs parallel along the Handrail.

Description of Handrail "Street_Name" Field Value (figure 3.14)

Text Field 50 allowable characters to describe the Street Name. This Name shall correspond with the official name in the Orange County street centerline GIS feature class.

Handrail "Feature_ID" Field & Field Values

- Field Name (see figure 3.15) • Feature_ID
- Data Type (see figure 3.16)
 - Text Field

Description of Handrail "Feature_ID" Field (figure 3.15)

Feature_ID

Incrementing unique feature ID's aid in classifying and organizing Handrail assets.

Description of Handrail "Feature_ID" Field Value (figure 3.16)

Text Field

100 allowable characters to define the unique feature ID of the Handrail.



Spherical Image Extraction Data Model

Handrail "Photo_ID" Field & Field Values

٠	Field Name	(see figure 3.17)
	 Photo_ID 	
٠	Data Type	(see figure 3.18)
	 Text Field 	

Description of Handrail "Photo_ID" Field (figure 3.17)

Photo ID

A unique ID number of the Handrail image that corresponds with the image frame number from the field imaging camera.

Description of Handrail "Photo_ID" Field Value (figure 3.18)

Text Field
50 allowable characters that define the Handrails unique Photo_ID number.

Handrail "Functional_Classification" Field & Field Values

- Field Name (see figure 3.19)
 - Functional_Classification

Description of Handrail "Functional_Classification" Field (figure 3.19)

Functional_Classification

Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.

Description of Handrail "Functional_Classification" Field Value (figure 3.20)

Text Field Yes / No "Yes" value defines if the road has an arterial or collector functional classification & "No" value defines if the road has a local functional classification.





Handrail "Inventory_Area" Field & Field Values

•	Field Name	(see figure 3.21)
	 Inventory_Area 	
٠	Data Type	(see figure 3.22)
	 Text Field 	

Description of Handrail "Inventory_Area" Field (figure 3.21)

Inventory_Area

A unique ID number that identifies all of the assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.

Description of Handrail "Inventory_Area" Field Value (figure 3.22)

Text Field

20 allowable characters that define the unique ID number of the Inventory_Area.





4.0 - Obstacle Feature Names & Values

- Feature Class
 - Obstacle

Description of "Obstacle" Feature Class (figure 4.0)



Obstacle Obstacles in the pedestrian environment are defined as objects that limit the vertical passage space, protrude into the circulation route, or reduce the clearance width of the sidewalk. Obstacles with large overhangs that protrude into the path of travel can be hazardous for people with visual impairments if they are difficult to detect. The full width of the circulation path should be free of protruding objects. Obstacles that reduce the minimum clearance width, such as decorative planters on a narrow sidewalk, can create significant barriers for wheelchair or walker users.





Summary of Field Data Model for "Obstacle" (Point Feature)

Field Name	Feature Attributes	Description
Location	Ramp, Bridge, Stairs, Walkway, Driveway, Other See Notes, Unknown, NA	The Obstacle's geographic location description.
No Curb Ramp, Uneven Transition, Drainage gr (other), Manhole, Fire hydrant, Sign pole, Utility light pole, Utility pole, Traffic sign pole, Signal ca Landscaping, Planter, Mailbox, Tree, bush, ar 		Any Obstacle that can restrict an individual's ability to physically move along or within an environment. They may limit the individual's movement from one place to another, or cause a barrier or hindrance.
Notes	Text (255)	Any additional information pertaining to the Obstacle feature.
Source	Orthorectified Aerial Photo, Street Level Imagery, Field Location	Identifies the source or the primary reference the GIS data was obtained.
Street_Name	Text (50)	Name of parallel road to Obstacle.
Feature_ID	Text (100)	Incrementing unique feature ID's aid in classifying and organizing Obstacle assets.
Photo_ID	Text (50)	A unique ID number of the Obstacle image that corresponds with the image frame number from the field imaging camera.
Functional_Classification	Yes / No	Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.
Inventory_Area	Text (20)	A unique ID number that identifies the assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.
Inspec_Date Date		Image Date of the assessed feature.
Photo_Folder	Text (100)	The directory folder the images are being stored.
Photo_Hotlink	Text (255)	Defines the path and file name of the photo file linked to the Obstacle.
Northing	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Easting Double		Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Latitude	Text (20)	The angular distance of a location North or South of the earth's equator, measured in degrees, minutes & seconds.
Longitude	Text (20)	The angular distance of a location East or West of the meridian at Greenwich, England measured in degrees, minutes & seconds.







Obstacle "Location" Field & Field Values

• Field Name

•

(see figure 4.1)

o Location

(see figure 4.2)

- List of Values ○ Ramp
 - o Bridge
 - o Stairs
 - o Walkway
 - Driveway
 - o Other See Notes
 - o Unknown
 - NA (Not Applicable)

Description of Obstacle "Location" Field (figure 4.1)

Figures / Examples	Location
	The identified Obstacle's geographic location description.





Description of Obstacle "Location" Field Values (figure 4.2)

Figures / Examples	Location Values
	Ramp: Any extensive sloping walk or passageway or a sloping surface connecting two levels; incline. Handrails are required on ramp runs with a rise greater than 6 inches with running slopes less than 1:20.
Looking stright down 3*+ 15*+/-	Bridge: A bridge is a structure built to span physical obstacles such as a body of water, valley, or road, for the purpose of providing passage over the obstacle.
	Stairs: A collection of steps that leads upward or downward. Stairs may refer to a collection of steps in a building, or they can simply refer to a collection of steps between levels of sidewalks. This can be an obstacle to pedestrians if there is no alternate route like a ramp.
SIDEWALK CLOSED AIREA CROSS HERE	Walkway: <i>Any constructed path that provides a passageway for pedestrians.</i>
	Driveway: Any access road leading from a street or other thoroughfare to a commercial business or private home or public building.
	Other See Notes: Any location not indicated in the location values list. A description of the Obstacle location must be provided in the "Notes" field.
	Unknown: Any unknown location type.
	NA: (Not Applicable) Default value.







Obstacle "Type" Field & Field Values

Field Name

Type

(see figure 4.3)

- List of Values (see figure 4.4)
- No Curb Ramp Ο
- Uneven Transition
- Drainage grate
- Grate (other)
- o Manhole
- Fire hydrant
- Sign pole 0
- Utility box 0
- Street light pole
- o Utility pole

- Traffic sign pole Signal control box 0
- Landscaping
- o Planter
- Mailbox
- Tree, bush, and shrub branches
- Railroad tracks
- Grooves

- Vault 0
- Guy wire
- Roots
- Small steps
- o Transit shelter
- Trash can
- Parking meter
- Business sign
- Awnings
- o Bench
- Bike rack

- Bollard 0
- 0 Tables and chairs
- o Drinking fountain
- Narrow path 0
- Gutters 0
- Ponding 0
- Vending machine 0
- Street sculpture
- Public Telephone
- Other See Notes 0
- Unknown \circ

Description of Obstacle "Type" Field (figure 4.3)

Type

Any Obstacle that can restrict an individual's ability to physically move along or within an environment. They may limit the individual's movement from one place to another, or cause a barrier or hindrance.

Description of Obstacle "Type" Field Values (figure 4.4)

 No Curb Ramp Uneven Transition Drainage grate Grate (other) Manhole Fire hydrant Sign pole Utility box Street light pole Utility pole 	 Traffic sign pole Signal control box Landscaping Planter Mailbox Tree, bush, and shrub branches Vegetation Railroad tracks Tree grates Grooves 	 Vault Guy wire Roots Small steps Transit shelter Trash can Parking meter Business sign Awnings Bench Bike rack 	 Bollard Tables and chairs Drinking fountain Narrow path Gutters Ponding Vending machine Street sculpture Public Telephone Other See Notes Unknown
--	---	--	---



- Vegetation

- Tree grates

Spherical Image Extraction Data Model

Obstacle "Notes" Field & Field Values

- **Field Name** (see figure 4.5) • • Notes
- Data Type •
 - o Text Field

(see figure 4.6)

Description of Obstacle "Notes" Field (figure 4.5)

Notes

Any additional information pertaining to the Obstacle feature.

Descriptions of Obstacle "Notes" Field Values (figure 4.6)

Text Field

255 allowable characters to describe any additional attribute about the Obstacle feature.





Obstacle "Source" Field & Field Values

- Field Name (see figure 4.7)
 - o Source

List of Values

- (see figure 4.8)
- Orthorectified Aerial Photo
- Street Level Imagery
- o Field Location

Description of Obstacle "Source" Field (figure 4.7)

Source Identifies the source or the primary reference the GIS data was obtained.

Description of Obstacle "Source" Field Values (figure 4.8)

Source Values	
Orthorectified Aerial Photo	An image or aerial photo that has a constant scale wherein features are represented in their 'true' positions. Orthorectification creates a final product whereby each pixel in the image is depicted as if it were collected from directly overhead or as close to this as possible.
Street Level Imagery	Low altitude street level imagery enables users to experience a true-to-life view from a vehicle perspective. Imagery is collected using a 360 degree camera mounted on an automobile
Field Location	When an area is obscured by tree coverage, vehicles or other obstacles and an accurate assessment isn't achievable, field crews will physically visit an area. Ramps and sidewalk data will be assessed using GIS field data collectors and GPS equipment, along with digital camera images.





Obstacle "Street_Name" Field & Field Values

- **Field Name** (see figure 4.9)
 - o Street Name
- (see figure 4.10) Data Type •
 - o Text Field

Description of Obstacle "Street_Name" Field (figure 4.9)

Street Name

Name of the street that runs parallel to obstacle.

Description of Obstacle "Street_Name" field Value (figure 4.10)

Text Field	
50 allowable characters to describe the Street Name. This Name shall correspond	l with the official
name in the Orange County street centerline GIS feature class.	

Obstacle "Feature_ID" Field & Field Values

- **Field Name** •
 - Feature ID
- Data Type (see figure 4.12) •
 - o Text Field

(see figure 4.11)

Description of Obstacle "Feature_ID" Field Value (figure 4.11)

Feature ID

Incrementing unique feature ID's aid in classifying and organizing Obstacle assets.

Description of Obstacle "Feature_ID" Field Value (figure 4.12)

Text Field

100 allowable characters to define the unique feature ID of the Obstacle.



Spherical Image Extraction Data Model

Obstacle "Photo_ID" Field & Field Values

٠	Field Name	(see figure 4.13)
	 Photo_ID 	
٠	Data Type	(see figure 4.14)
	 Text Field 	

Description of Obstacle "Photo_ID" Field (figure 4.13)

Photo_ID

A unique ID number of the Obstacle image that corresponds with the image frame number from the field imaging camera.

Description of Obstacle "Photo_ID" Field Value (figure 4.14)

Text Field
50 allowable characters that define the Obstacles unique Photo_ID number.

Obstacle "Functional_Classification" Field & Field Values

- Field Name (see figure 4.15)
 - Functional_Classification
- Data Type (see figure 4.16)
 - \circ $\,$ Text Field Yes / No $\,$

Description of Obstacle "Functional_Classification" Field (figure 4.15)

Functional_Classification

Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.

Description of Obstacle "Functional_Classification" Field Value (figure 4.16)

Text Field Yes / No

"Yes" value defines if the road has an arterial or collector functional classification & "No" value defines if the road has a local functional classification.





Obstacle "Inventory_Area" Field & Field Values

•	Field Name	(see figure 4.17)
	 Inventory_Area 	
٠	Data Type	(see figure 4.18)
	 Text Field 	

Description of Obstacle "Inventory_Area" Field (figure 4.17)

Inventory Area

A unique ID number that identifies all of the assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.

Description of Obstacle "Inventory_Area" Field Value (figure 4.18)

Text Field

20 allowable characters that define the unique ID number of the Inventory_Area.

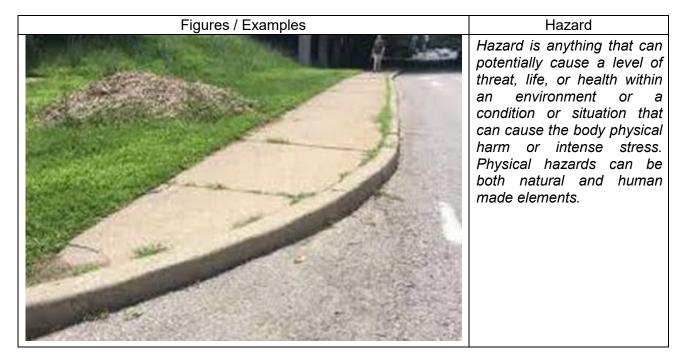




5.0 - Hazard Feature Names & Values

- Feature Class
 - \circ Hazard

Description of "Hazard" Feature Class (figure 5.0)







Summary of Field Data Model for "Hazard" (Point Feature)

Field Name	Feature Attributes	Description
Location	Ramp, Bridge, Stairs, Walkway, Driveway, Other See Notes, Unknown, NA	The Hazard's geographic location description.
Туре	Unstable surface, Protruding Rail, Ramp Transition Grade, Excessive Cross Slope, Excessive Running Slope, Construction, Drop off, Other See Notes, Unknown	Hazards types are potential areas in a pedestrians access route (PAR) that can cause a level of threat, life, or health within that environment.
Notes	Text (255)	Any additional information pertaining to the Hazard feature.
Source	Orthorectified Aerial Photo, Street Level Imagery, Field Location	Identifies the source or the primary reference the GIS data was obtained.
Street_Name	Text (50)	Name of parallel road near the Hazard.
Feature_ID	Text (100)	Incrementing unique feature ID's aid in classifying and organizing Hazard assets.
Photo_ID	Text (50)	A unique ID number of the Hazard image that corresponds with the image frame number from the field imaging camera.
Functional_Classification	Yes / No	Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.
Inventory_Area	Text (20)	A unique ID number that identifies the assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.
Inspec_Date	Date	Image Date of the assessed feature.
Photo_Folder	Text (100)	The directory folder the images are being stored.
Photo_Hotlink	Text (255)	Defines the path and file name of the photo file linked to the Hazard.
Northing	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Easting	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Latitude	Text (20)	The angular distance of a location North or South of the earth's equator, measured in degrees, minutes & seconds.
Longitude	Text (20)	The angular distance of a location East or West of the meridian at Greenwich, England measured in degrees, minutes & seconds.





Hazard "Location" Field & Field Values

- Field Name
- (see figure 5.1)
- Location
- List of Values
- (see figure 5.2)
 - o Ramp
 - \circ Bridge
 - o Stairs
 - o Walkway
 - o Driveway
 - o Other See Notes
 - o Unknown
 - NA (Not Applicable)

Description of Hazard "Location" Field (figure 5.1)

Figures / Examples	Location
	The identified Hazard's geographic location description.





Description of Hazard "Location" Field Values (figure 5.2)

Figures / Examples	Location Values
	Ramp:
	Any extensive sloping walk or passageway or a sloping surface connecting two levels; incline. Handrails are required on ramp runs with a rise greater than 6 inches with running slopes less than 1:20.
	Bridge: A bridge is a structure built to span physical obstacles such as a body of water, valley, or road, for the purpose of providing passage over the obstacle.
	Stairs: A collection of steps that leads upward or downward. Stairs may refer to a collection of steps in a building, or they can simply refer to a collection of steps between levels of sidewalks.
	Walkway: <i>Any constructed path that provides a passageway for pedestrians.</i>
	Driveway: Any access road leading from a street or other thoroughfare to a commercial business or private home or public building.
	Other See Notes: Any setting that is not indicated in the typical location values list. A description of the Hazard location must be provided in the "Notes" field.
	Unknown: Any unknown Hazard location type.
	NA: (Not Applicable) Default value.





ANGE COUNTY O R 1 D A Spherical Image Extraction Data Model

Hazard "Type" Field & Field Values

• Field Name

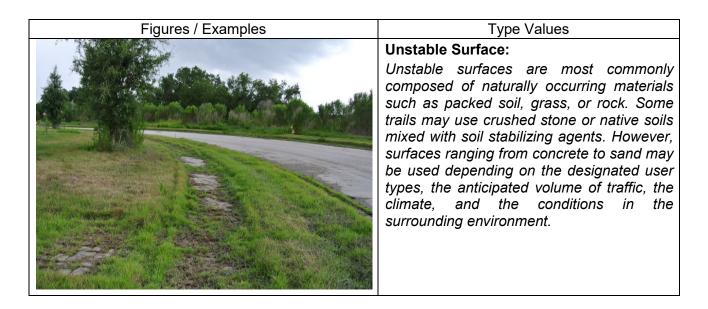
(see figure 5.3)

- o Type
- List of Values (see figure 5.4)
 - o Unstable Surface
 - o Protruding Rail
 - Ramp Transition Grade
 - Excessive Cross Slope
 - Excessive Running Slope
 - Construction
 - o Drop Off
 - o Other See Notes
 - o Unknown
 - NA (Not Applicable)

Description of Hazard "Type" Field (figure 5.3)

Type Hazards types are potential areas in a pedestrians access route (PAR) that can cause a level of threat, life, or health within that environment.

Description of Hazard "Type" Field Values (figure 5.4)







Spherical Image Extraction Data Model

Description of Hazard "Type" Field Values (figure 5.4 continued)

Figures / Examples	Type Values
	Protruding Rail: A non-compliant rail that protrudes either by damage or not built under the ADA compliant design standards and requirements. The path of travel for all pedestrians, regardless of disability should be free of any protrusions that would cause a hazard to people who are visually impaired and wouldn't normally see the protruding object.
	Ramp Transition Grade: <i>Transition from the sidewalk to the ramp and the ramp to the street. Grade breaks are required at the top and bottom of any ramp and must be perpendicular to the running slope of the ramp. Abrupt or improperly placed grade breaks create a tripping hazard for wheelchair users and a tripping hazard for blind and low vision users.</i>
	Excessive Cross Slope: Cross-slope (Horizontal) is defined as the slope measured perpendicular to the direction of travel. Unlike grade, cross-slope can be measured only at specific points. Steep cross-slopes can make it difficult for wheelchair or crutch users to maintain lateral balance and can cause wheelchairs to veer downhill or into the street. The cross slope of a pedestrian access route shall be 2.0% maximum.
	Excessive Running Slope: <i>Running-slope (longitudinal) is defined as the average cross-slope of a contiguous section of sidewalk. Often within the typical running cross-slope, there are inaccessible maximum cross-slopes that exceed the running cross-slope.</i>
	Construction: Areas that are currently under construction at the time of inspection.







Spherical Image Extraction Data Model

Description of Hazard "Type" Field Values (figure 5.4 continued)

Figures / Examples	Type Values
	Drop off: An extreme slope or vertical descent.
	Other See Notes: Any setting that is not indicated in the typical Hazard type values list. A description of the Hazard type must be provided in the "Notes" field.
	Unknown: Any unknown Hazard type.
	NA (Not Applicable): Default value.





Hazard "Notes" Field & Field Values

Field Name (see figure 5.5)

 Notes

 Data Type (see figure 5.6)

 Text Field

Description of Hazard "Notes" Field (figure 5.5)

Notes

Any additional information pertaining to the Hazard feature.

Descriptions of Hazard "Notes" Field Values (figure 5.6)

Text Field

255 allowable characters to describe any additional attribute about the Hazard feature.





Hazard "Source" Field & Field Values

- Field Name (see figure 5.7)
 - o Source
- List of Values

(see ligure 5.7)

- of Values
- (see figure 5.8)
- Orthorectified Aerial Photo
- Street Level ImageryField Location
- **Description of Hazard "Source" Field** (figure 5.7)

Source

Identifies the source or the primary reference the GIS data was obtained.

Description of Obstacle "Source" Field Values (figure 5.8)

Source Values		
Orthorectified Aerial Photo Photo An image or aerial photo that has a constant scale wherein features represented in their 'true' positions. Orthorectification creates a fina product whereby each pixel in the image is depicted as if it were col from directly overhead or as close to this as possible.		
Street Level Imagery Street Level Imagery street Level Imagery camera mounted on an automobile		
Field Location	When an area is obscured by tree coverage, vehicles or other obstacles and an accurate assessment isn't achievable, field crews will physically visit an area. Ramps and sidewalk data will be assessed using GIS field data collectors and GPS equipment, along with digital camera images.	





Hazard "Street_Name" Field & Field Values

- Field Name (see figure 5.9)
 - Street_Name
- Data Type (see figure 5.10)
 - o Text Field

Description of Hazard "Street_Name" Field (figure 5.9)

Street_Name
Name of the street that runs parallel to Hazard.

Description of Hazard "Street_Name" field Value (figure 5.10)

Text Field
50 allowable characters to describe the Street Name. This Name shall correspond with the official
name in the Orange County street centerline GIS feature class.

(see figure 5.11)

Hazard "Feature_ID" Field & Field Values

Field Name

Data Type

•

• Feature ID

_____ (see figure 5.12)

Text Field

Description of Hazard "Feature_ID" Field Value (figure 5.11)

Feature_ID

Incrementing unique feature ID's aid in classifying and organizing Hazard assets.

Description of Hazard "Feature_ID" Field Value (figure 5.12)

Text Field

100 allowable characters to define the unique feature ID of the Hazard.



Spherical Image Extraction Data Model

Hazard "Photo_ID" Field & Field Values

٠	Field Name	(see figure 5.13)
	 Photo_ID 	
٠	Data Type	(see figure 5.14)
	 Text Field 	

Description of Hazard "Photo_ID" Field (figure 5.13)

Photo ID

A unique ID number of the Hazard image that corresponds with the image frame number from the field imaging camera.

Description of Hazard "Photo_ID" Field Value (figure 5.14)

Text Field
50 allowable characters that define the Hazards unique Photo_ID number.

Hazard "Functional_Classification" Field & Field Values

- Field Name (see figure 5.15)
 - Functional_Classification
- Data Type (see figure 5.16)
 - \circ $\,$ Text Field Yes / No $\,$

Description of Hazard "Functional_Classification" Field (figure 5.15)

Functional_Classification Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.

Description of Hazard "Functional_Classification" Field Value (figure 5.16)

Text Field Yes / No

"Yes" value defines if the road has an arterial or collector functional classification & "No" value defines if the road has a local functional classification.





Hazard "Inventory_Area" Field & Field Values

•	Field Name	(see figure 5.17)
	 Inventory_Area 	
٠	Data Type	(see figure 5.18)
	 Text Field 	

Description of Hazard "Inventory_Area" Field (figure 5.17)

Inventory_Area

A unique ID number that identifies all assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.

Description of Hazard "Inventory_Area" Field Value (figure 5.18)

Text Field

20 allowable characters that define the unique ID number of the Inventory_Area.

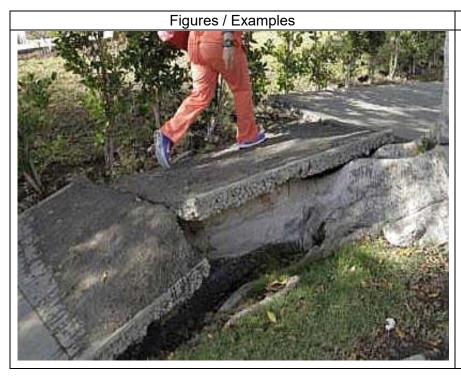




6.0 - Damage Feature Names & Values

- Feature Class
 - o Damage

Description of "Damage" Feature Class (figure 6.0)



Damage are prone Sidewalks to "Damage" caused by environmental conditions. Maintaining sidewalk elements in good condition is an essential part of providing access to public rights-ofway. Sidewalks in poor repair can limit access and threaten the health and safety of pedestrians. If sidewalks are condition in poor or nonexistent, pedestrians are forced to travel in the street.





Summary of Field Data Model for "Damage" (Point Feature)

Field Name	Feature Attributes	Description
Location	Ramp, Bridge, Stairs, Walkway, Driveway, Other See Notes, Unknown, NA	The Damage's geographic location description.
Туре	Trip Edge, Heaving and Settlement, Shattering, Other See Notes, Unknown, NA	Type of Damage caused by the environmental conditions.
Notes	Text (255)	Any additional information pertaining to the Damage feature.
Source	Orthorectified Aerial Photo, Street Level Imagery, Field Location	Identifies the source or the primary reference the GIS data was obtained.
Street_Name	Text (50)	Name of parallel road near the Damage.
Feature_ID	Text (100)	Incrementing unique feature ID's aid in classifying and organizing Damage assets.
Photo_ID	Text (50)	A unique ID number of the Damage image that corresponds with the image frame number from the field imaging camera.
Functional_Classification	Yes / No	Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.
Inventory_Area	Text (20)	A unique ID number that identifies the assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.
Inspec_Date	Date	Image Date of the assessed feature.
Photo_Folder	Text (100)	The directory folder the images are being stored.
Photo_Hotlink	Text (255)	Defines the path and file name of the photo file linked to the Damage.
Northing	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Easting	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Latitude	Text (20)	The angular distance of a location North or South of the earth's equator, measured in degrees, minutes & seconds.
Longitude	Text (20)	The angular distance of a location East or West of the meridian at Greenwich, England measured in degrees, minutes & seconds.





Damage "Location" Field & Field Values

• Field Name

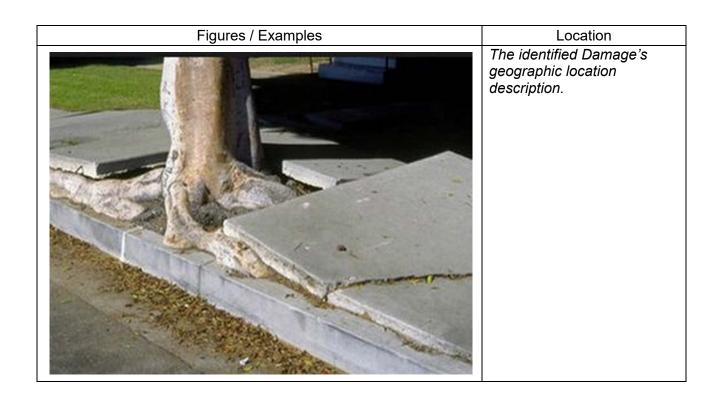
(see figure 6.1)

o Location

(see figure 6.2)

- List of Values ○ Ramp
 - o Bridge
 - o Stairs
 - o Walkway
 - Driveway
 - o Other See Notes
 - o Unknown
 - NA (Not Applicable)

Description of Damage "Location" Field (figure 6.1)







Description of Damage "Location" Field Values (figure 6.2)

Figures / Examples	Location Values				
rigures / Examples	Ramp:				
	Any extensive sloping walk or passageway or a sloping surface connecting two levels; incline.				
- And	Bridge: A bridge is a structure built to span physical obstacles such as a body of water, valley, or road, for the purpose of providing passage over the obstacle.				
	Stairs: A collection of steps that leads upward or downward. Stairs may refer to a collection of steps in a building, or they can simply refer to a collection of steps between levels of sidewalks.				
	Walkway: Any constructed path that provides a passageway for pedestrians.				
	Driveway: Any access road leading from a street or other thoroughfare to a commercial business or private home or public building.				
	Other See Notes:				
	Any setting that is not indicated in the typical location values list. A description of the Damage location must be provided in the "Notes" field.				
	Unknown: Any unknown Damage location type.				
	NA: (Not Applicable) Default value.				







Damage "Type" Field & Field Values

• Field Name

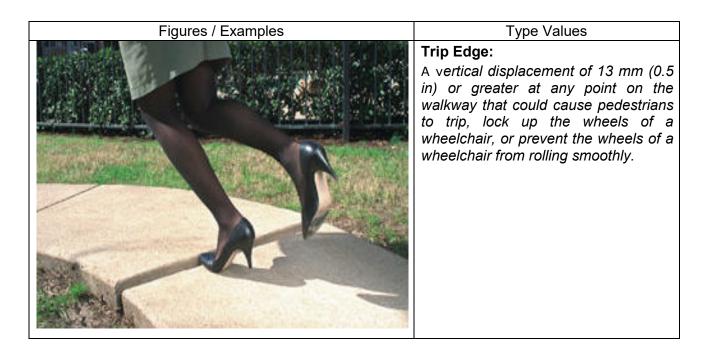
(see figure 6.3)

- о Туре
- List of Values (see figure 6.4)
 - Trip Edge
 - Heaving and Settlement
 - Shattering
 - Other See Notes
 - o Unknown
 - NA (Not Applicable)

Description of Damage "Type" Field (figure 6.3)

Туре
Type of Damage caused by the environmental conditions.

Description of Damage "Type" Field Values (figure 6.4)







Description of Damage "Type" Field Values (figure 6.4 continued)

Eiguroo / Evomploo	
Figures / Examples	Type Values Heaving and Settlement: Heaving and Settlement is the unequal movement of the slabs vertically either upward or down due to ground soils swelling and sub-base preparation or tree routes pushing the slabs upward.
	Shattering: Heavy impacts cause the sidewalk slab to shatter or break into many pieces. Main cause is from vehicles impacting the sidewalk.
	Other See Notes: Any setting that is not indicated in the typical Damage Type values list. A description of the Damage Type must be provided in the "Notes" field.
	Unknown: Any unknown Damage type.
	NA: (Not Applicable) Default value.







Damage "Notes" Field & Field Values

٠	Field Name	(see figure 6.5)
	 Notes 	
٠	Data Type	(see figure 6.6)
	 Text Field 	

Description of Damage "Notes" Field (figure 6.5)

Notes

Any additional information pertaining to the Damage feature.

Descriptions of Damage "Notes" Field Values (figure 6.6)

Text Field

255 allowable characters to describe any additional attribute about the Damage feature.





Damage "Source" Field & Field Values

- Field Name (see figure 6.7)
 - o Source
- List of Values

(see figure 6.8)

- Orthorectified Aerial Photo
 - Street Level Imagery
 - Field Location

Description of Damage "Source" Field (figure 6.7)

Source Identifies the source or the primary reference the GIS data was obtained.

Description of Obstacle "Source" Field Values (figure 6.8)

Source Values						
Orthorectified Aerial Photo	An image or aerial photo that has a constant scale wherein features are represented in their 'true' positions. Orthorectification creates a final product whereby each pixel in the image is depicted as if it were collected from directly overhead or as close to this as possible.					
Street Level Imagery	Low altitude street level imagery enables users to experience a true-to-life view from a vehicle perspective. Imagery is collected using a 360 degree camera mounted on an automobile					
Field Location	When an area is obscured by tree coverage, vehicles or other obstacles and an accurate assessment isn't achievable, field crews will physically visit an area. Ramps and sidewalk data will be assessed using GIS field data collectors and GPS equipment, along with digital camera images.					





Damage "Street_Name" Field & Field Values

- **Field Name** (see figure 6.9)
 - o Street Name
- (see figure 6.10) Data Type •
 - o Text Field

Description of Damage "Street_Name" Field (figure 6.9)

Street Name Name of the street that runs parallel to Damage.

Description of Damage "Street_Name" field Value (figure 6.10)

Text Field	
50 allowable characters to describe the Street Name. This Name shall correspond with the of	ficial
name in the Orange County street centerline GIS feature class.	

Damage "Feature_ID" Field & Field Values

- **Field Name** •
 - o Feature ID
- Data Type (see figure 6.12) •
 - Text Field

(see figure 6.11)

Description of Damage "Feature_ID" Field Value (figure 6.11)

Feature ID

Incrementing unique feature ID's aid in classifying and organizing Damage assets.

Description of Damage "Feature_ID" Field Value (figure 6.12)

Text Field

100 allowable characters to define the unique feature ID of the Damage.



Spherical Image Extraction Data Model

Damage "Photo_ID" Field & Field Values

٠	Field Name	(see figure 6.13)
	 Photo_ID 	
٠	Data Type	(see figure 6.14)
	 Text Field 	

Description of Damage "Photo_ID" Field (figure 6.14)

Photo ID

A unique ID number of the Damage image that corresponds with the image frame number from the field imaging camera.

Description of Damage "Photo_ID" Field Value (figure 6.14)

Text Field

50 allowable characters that define the Damages unique Photo_ID number.

Damage "Functional_Classification" Field & Field Values

- Field Name (see figure 6.15)
 - Functional_Classification
- Data Type (see figure 6.16)
 - \circ $\,$ Text Field Yes / No $\,$

Description of Damage "Functional_Classification" Field (figure 6.15)

Functional_Classification

Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.

Description of Damage "Functional_Classification" Field Value (figure 6.16)

Text Field Yes / No

Yes" value defines if the road has an arterial or collector functional classification & "No" value defines if the road has a local functional classification.





Damage "Inventory_Area" Field & Field Values

•	Field Name	(see figure 6.17)
	 Inventory_Area 	
٠	Data Type	(see figure 6.18)
	 Text Field 	

Description of Damage "Inventory_Area" Field (figure 6.17)

Inventory_Area

A unique ID number that identifies all assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.

Description of Damage "Inventory_Area" Field Value (figure 6.18)

Text Field

20 allowable characters that define the unique ID number of the Inventory_Area.

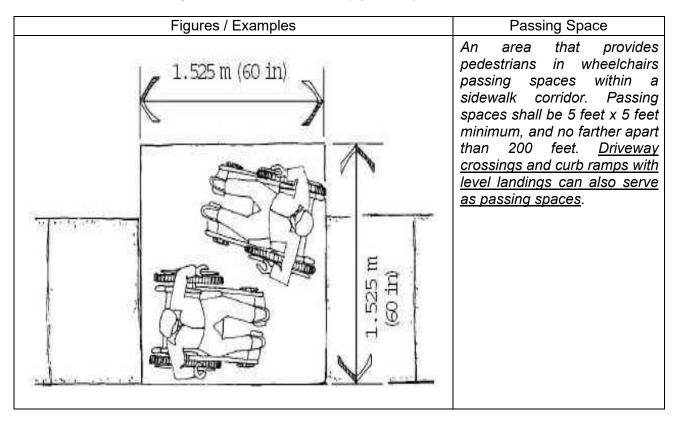




7.0 – Passing Space Feature Names & Values

- Feature Class
 - Passing Space

Description of "Passing Space" Feature Class (figure 7.0)







Summary of GIS Field Data Model for "Passing Space" (Line Feature)

Field Name	Feature Attribute	Description			
Material	Concrete, Asphalt, Brick/Pavers, Stone, Tile, Other See Notes, None, Unknown, NA	Material is the physical element that the sidewalk is constructed of.			
Total_Width_In	Text (20)	Total Width of walkway corridor in inches.			
Notes	Text (255)	Any additional information pertaining to the sidewalk Passing Space feature.			
Source	Orthorectified Aerial Photo, Street Level Imagery, Field Location	Identifies the source or the primary reference that the GIS data was obtained from.			
Street_Name	Text (50)	Name of parallel road to Passing Space feature.			
Feature_ID	Text (100)	Incrementing unique feature ID's aid in classifying and organizing sidewalk Passing Space assets.			
Photo_ID	Text (100)	A unique ID number of the sidewalk Passing Space image that corresponds with the image frame number from the field imaging camera.			
Functional_Classification	Yes / No	Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.			
Inventory_Area	Text (20)	A unique ID number that identifies the assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.			
Inspec_Date	Date	Image Date of the assessed feature.			
Photo_Folder	Text (100)	The directory folder the images are being stored.			
Photo_Hotlink	Text (255)	Defines the path and file name of the photo file linked to the sidewalk Passing Space.			
Northing	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet			
Easting	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet			
Latitude	Text (20)	The angular distance of a location North or South of the earth's equator, measured in degrees, minutes & seconds.			
Longitude	Text (20)	The angular distance of a location East or West of the meridian at Greenwich, England measured in degrees, minutes & seconds.			
Shape_Length	Double	Numeric values with decimal values within specific range representing the total length of the sidewalk Passing Space.			





Passing Space "Material" Field & Field Values

• Field Name

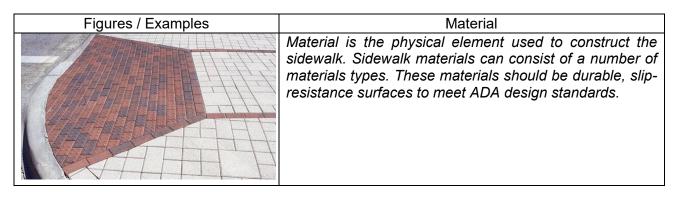
(see figure 7.1)

o Material

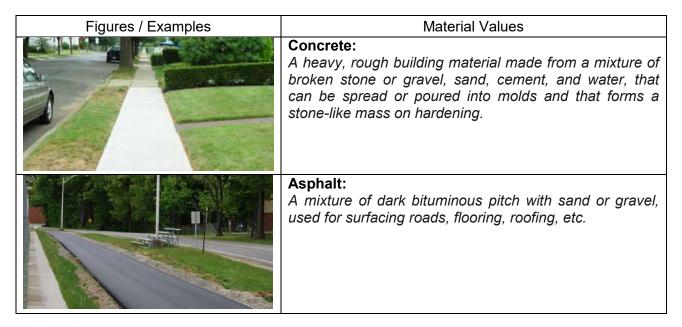
(see figure 7.2)

- List of Values • Concrete
 - Asphalt
 - Brick / Pavers
 - o Stone
 - o Tile
 - o Other See Notes
 - o None
 - o Unknown
 - NA (Not Applicable)

Description of Passing Space "Material" Field (figure 7.1)



Description of Passing Space "Material" Field Values (figure 7.2)









Spherical Image Extraction Data Model

Description of Passing Space "Material" Field Values (figure 7.2 continued)

Figures / Examples	Material Values
	Brick / Pavers: A vitrified clay brick slightly larger than building brick and used in the construction of pavement surfaces.
	Stone: The hard, solid, nonmetallic mineral matter of which rock is made, especially as a building material and sidewalk surfaces.
	Tile: A thin, flat or convex slab of hard material such as baked clay or plastic, laid in rows to cover walls, floors, and roofs.
	Other See Notes: Any material that can be used as a surface for sidewalks that is not listed as a material in the values list. Examples are flexible surface materials like rubber and recycled materials or gravel. The actual material must be described in the "Notes" field.
	None: When no surface is present at the time of assessment.







Description of Passing Space "Material" Field Values (figure 7.2 continued)

Figures / Examples	Material Values
	Unknown: Any surface material that is unidentifiable. An area where vegetation, soil or any other obstructions may have obscured the pedestrian route or the area cannot be visually recognized from the field of view of the imaging vehicle.
	NA: (Not Applicable) Default value.





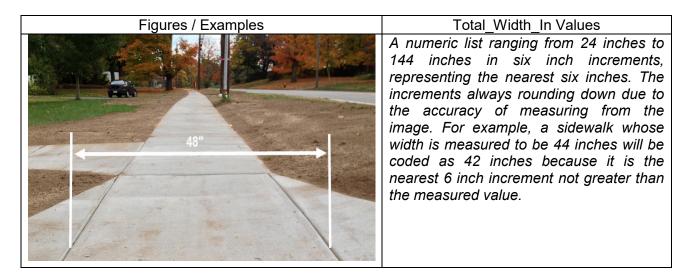
Passing Space "Total_Width_In" Field & Field Values

•	• Field Name (see figure 7.3) • Total_Width_In												
List of Values					(see figu	re 7.4)							
0 0 0	24 30 36	0 0 0	42 48 54	0 0 0	60 66 72	0 0 0	78 84 90	0 0 0	96 102 108	0 0 0	114 120 126	0 0 0	132 138 144 Unknown

Description of Passing Space "Total_Width_In" Field (figure 7.3)

Figures / Examples	Total_Width_In
	Total Width of walkway corridor in inches. This is a typical average width of the sidewalk measured from edge to edge.

Description of Passing Space "Total_Width_In" Field Values (figure 7.4)







Passing Space "Notes" Field & Field Values

- **Field Name** (see figure 7.5) • • Notes Data Type
 - o Text Field

(see figure 7.6)

Description of Passing Space "Notes" Field (figure 7.5)

Notes

Any additional information pertaining to the Passing Space feature.

Description of Passing Space "Notes" Field Value (figure 7.6)

Text Field

255 allowable characters to describe any additional attribute about the Passing Space feature.





Passing Space "Source" Field & Field Values

- Field Name (see figure 7.7)
 - Source
- List of Values

(see figure 7.8)

- Orthorectified Aerial Photo
 - Street Level Imagery
 - Field Location

Description of Passing Space "Source" Field (figure 7.7)

Source Identifies the source or the primary reference the GIS data was obtained.

Description of Passing Space "Source" Field Values (figure7.8)

	Source Values
Orthorectified Aerial Photo	An image or aerial photo that has a constant scale wherein features are represented in their 'true' positions. Orthorectification creates a final product whereby each pixel in the image is depicted as if it were collected from directly overhead or as close to this as possible.
Street Level Imagery	Low altitude street level imagery enables users to experience a true-to-life view from a vehicle perspective. Imagery is collected using a 360 degree camera mounted on an automobile
Field Location	When an area is obscured by tree coverage, vehicles or other obstacles and an accurate assessment isn't achievable, field crews will physically visit an area. Ramps and sidewalk data will be assessed using GIS field data collectors and GPS equipment, along with digital camera images.





Passing Space "Street_Name" Field & Field Values

- **Field Name** (see figure 7.9)
 - o Street Name
- (see figure 7.10) Data Type •
 - o Text Field

Description of Passing Space "Street_Name" Field (figure 7.9)

Street Name

Name of the street that runs parallel to the Passing Space.

Description of Passing Space "Street_Name" field Value (figure 7.10)

Text Field
50 allowable characters to describe the Street Name. This Name shall correspond with the official
name in the Orange County street centerline GIS feature class.

Passing Space "Feature_ID" Field & Field Values

- **Field Name** •
 - Feature ID
 - Data Type (see figure 7.12)
 - Text Field

(see figure 7.11)

Description of Passing Space "Feature_ID" Field Value (figure 7.11)

Feature ID

Incrementing unique feature ID's aid in classifying and organizing Passing Space assets.

Description of Passing Space "Feature_ID" Field Value (figure 7.12)

Text Field 100 allowable characters to define the unique feature ID of the Passing Space.



Spherical Image Extraction Data Model

Passing Space "Photo_ID" Field & Field Values

Field Name (see figure 7.13)

 Photo_ID

 Data Type (see figure 7.14)

 Text Field

Description of Passing Space "Photo_ID" Field (figure 7.13)

Photo ID

A unique ID number of the Passing Space image that corresponds with the image frame number from the field imaging camera.

Description of Passing Space "Photo_ID" Field Value (figure 7.14)

Text Field
50 allowable characters that define the Passing Space unique Photo_ID number.

Passing Space "Functional_Classification" Field & Field Values

- Field Name (see figure 7.15)
 - Functional_Classification
- Data Type(see figure 7.16)
 - \circ Text Field Yes / No

Description of Passing Space "Functional_Classification" Field (figure 7.15)

Functional_Classification

Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.

Description of Passing Space "Functional_Classification" Field Value (figure 7.16)

Text Field Yes / No

Yes" value defines if the road has an arterial or collector functional classification & "No" value defines if the road has a local functional classification.





Passing Space "Inventory_Area" Field & Field Values

• Field Name

o Inventory Area

- Data Type
 - o Text Field

(see figure 7.17)

(see figure 7.18)

Description of Passing Space "Inventory_Area" Field (figure 7.17)

Inventory_Area

A unique ID number that identifies all assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.

Description of Passing Space "Inventory_Area" Field Value (figure 7.18)

Text Field

20 allowable characters that define the unique ID number of the Inventory_Area.

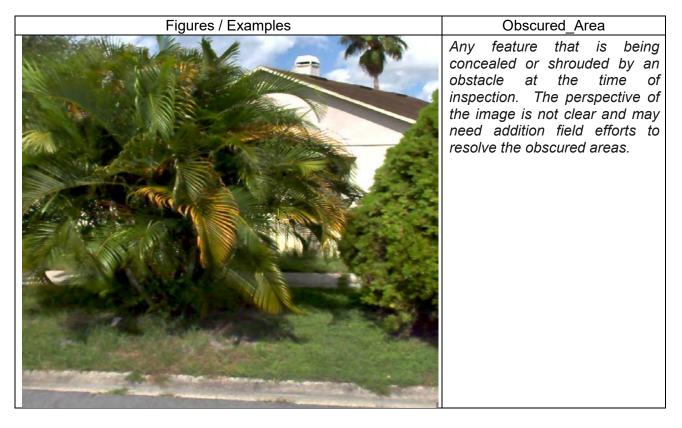




8.0 – Obscured_Area Feature Names & Values

- Feature Class
 - Obscured_Area

Description of "Obscured_Area" Feature Class (figure 8.0)







8.0 Summary of Field Data Model for "Obscured_Area" (Polygon Feature)

Field Name	Feature Attributes	Description
Notes	Text (255)	Any additional information pertaining to the Obscured Area feature.
Source	Orthorectified Aerial Photo, Street Level Imagery, Field Location	Identifies the source or the primary reference the GIS data was obtained.
Street_Name	Text (50)	Name of parallel road near the Obscured Area.
Feature_ID	Text (100)	Incrementing unique feature ID's aid in classifying and organizing Obscured Area assets.
Photo_ID	Text (50)	A unique ID number of the Obscured Area image that corresponds with the image frame number from the field imaging camera.
Functional_Classification	Yes / No	Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.
Inventory_Area	Text (20)	A unique ID number that identifies the assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.
Inspec_Date	Date	Image Date of the assessed feature.
Photo_Folder	Text (100)	The directory folder the images are being stored.
Photo_Hotlink	Text (255)	Defines the path and file name of the photo file linked to the Obscured Area.
Northing	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Easting	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Latitude	Text (20)	The angular distance of a location North or South of the earth's equator, measured in degrees, minutes & seconds.
Longitude	Text (20)	The angular distance of a location East or West of the meridian at Greenwich, England measured in degrees, minutes & seconds.





Obscured Area "Notes" Field & Field Values

•	Field Name	(see figure 8.1)
	 Notes 	
٠	Data Type	(see figure 8.2)
	 Text Field 	

Description of Obscured Area "Notes" Field (figure 8.1)

Notes

Any additional information pertaining to the Obscured Area feature.

Descriptions of Obscured Area "Notes" Field Values (figure 8.2)

Text Field

255 allowable characters to describe any additional attribute about the Obscured Area feature.





Obscured Area "Source" Field & Field Values

- Field Name (see figure 8.3)
 - Source
- List of Values

(see figure 8.4)

- Orthorectified Aerial Photo
 - Street Level Imagery
 - Field Location

Description of Obscured Area "Source" Field (figure 8.3)

Source Identifies the source or the primary reference the GIS data was obtained.

Description of Obscured Area "Source" Field Values (figure8.4)

Source Values		
Orthorectified Aerial Photo	An image or aerial photo that has a constant scale wherein features are represented in their 'true' positions. Orthorectification creates a final product whereby each pixel in the image is depicted as if it were collected from directly overhead or as close to this as possible.	
Street Level Imagery	Low altitude street level imagery enables users to experience a true-to-life view from a vehicle perspective. Imagery is collected using a 360 degree camera mounted on an automobile	
Field Location	When an area is obscured by tree coverage, vehicles or other obstacles and an accurate assessment isn't achievable, field crews will physically visit an area. Ramps and sidewalk data will be assessed using GIS field data collectors and GPS equipment, along with digital camera images.	





Obscured Area "Street_Name" Field & Field Values

- Field Name (see figure 8.5)
 - Street_Name
- Data Type (see figure 8.6)
 - Text Field

Description of Obscured Area "Street_Name" Field (figure 8.5)

Street_Name

Name of the street that runs parallel to Obscured Area.

Description of Obscured Area "Street_Name" field Value (figure 8.6)

Text Field	
50 allowable characters to describe the Street Name. Th	is Name shall correspond with the official
name in the Orange County street cent	erline GIS feature class.

Obscured Area "Feature_ID" Field & Field Values

Field Name

•

• Feature ID

Data Type(see figure 8.8)

Text Field

Description of Obscured Area "Feature_ID" Field Value (figure 8.7)

(see figure 8.7)

Feature_ID

Incrementing unique feature ID's aid in classifying and organizing Obscured Area assets.

Description of Obscured Area "Feature_ID" Field Value (figure 8.8)

Text Field

100 allowable characters to define the unique feature ID of the Obscured Area.





Obscured Area "Photo_ID" Field & Field Values

•	Field Name	(see figure 8.9)
	 Photo_ID 	
•	Data Type	(see figure 8.10)
	 Text Field 	

Description of Obscured Area "Photo_ID" Field (figure 8.9)

Photo ID

A unique ID number of the Obscured Area image that corresponds with the image frame number from the field imaging camera.

Description of Obscured Area "Photo_ID" Field Value (figure 8.10)

Text Field	
50 allowable characters that define the Obscured Area unique Photo_ID number.	

Obscured Area "Functional_Classification" Field & Field Values

- Field Name (see figure 8.11)
 - Functional_Classification
- Data Type (see figure 8.12)
 - \circ $\,$ Text Field Yes / No $\,$

Description of Obscured Area "Functional_Classification" Field (figure 8.11)

Functional_Classification Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.

Description of Obscured Area "Functional_Classification" Field Value (figure 8.12)

Text Field Yes / No

"Yes" value defines if the road has an arterial or collector functional classification & "No" value defines if the road has a local functional classification.





Obscured Area "Inventory_Area" Field & Field Values

• Field Name

o Inventory Area

- Data Type
 - Text Field

(see figure 8.13)

(see figure 8.14)

Description of Obscured Area "Inventory_Area" Field (figure 8.13)

Inventory_Area

A unique ID number that identifies all assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.

Description of Obscured Area "Inventory_Area" Field Value (figure 8.14)

Text Field

20 allowable characters that define the unique ID number of the Inventory_Area.





APPENDIX

Comprehensive GIS Field Data Model Summary of Feature Classes

1.0 Summary of Field Data Model for "Sidewalk" (Line Feature)

Field Name	Feature Attribute	Description
Status	Present, Missing, Under Construction, Obscured, Unknown	The current standing position or condition of the Sidewalk feature that has been field identified.
Material	Concrete, Asphalt, Brick/Pavers, Stone, Tile, Other See Notes, None, Unknown, NA	Material is the physical element that the sidewalk is constructed of.
Total_Width_In	Text (20)	Total Width of walkway corridor in inches.
Segment_Rating	Complete, Complete w/Barriers, Partial Infrastructure, No Infrastructure	Overall completion rating of all ADA compliant infrastructures that pertains to an individual segment of sidewalk.
Notes	Text (255)	Any additional information pertaining to the Sidewalk feature.
Source	Orthorectified Aerial Photo, Street Level Imagery, Field Location	Identifies the source or the primary reference that the GIS data was obtained from.
Feature_ID	Text (100)	Incrementing unique feature ID's aid in classifying and organizing Sidewalk assets.
Street_Name	Text (50)	Name of road that runs parallel along the sidewalk segment.
Photo_ID	Text (50)	A unique ID number of the Sidewalk image that corresponds with the image frame number from the field imaging camera.
Functional_Classification	Yes / No	Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.
Inventory_Area	Text (20)	A unique ID number that identifies the assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.
Inspec_Date	Date	Image Date of the assessed feature.
Photo_Folder	Text (100)	The directory folder the images are being stored.
Photo_Hotlink	Text (255)	Defines the path and file name of the photo file linked to the Sidewalk.
Northing	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Easting	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Latitude	Text (20)	The angular distance of a location North or South of the earth's equator, measured in degrees, minutes & seconds.
Longitude	Text (20)	The angular distance of a location East or West of the meridian at Greenwich, England measured in degrees, minutes & seconds.
Shape_Length	Double	Numeric values with decimal values within specific range representing the total length of Sidewalk.







2.0 Summary of GIS Field Data Model for "Curb Ramp" (Point Feature)

Field Name	Feature Attributes	Description
Status	Present, Missing, Under Construction, Obscured, Unknown	The current standing position or condition of the feature that has been field identified and assessed.
Туре	Perpendicular, One Way Directional, Diagonal, Parallel, Combined, Blended Transition, Built- Up, Other See Notes, None, Unknown	The ramp type is determined by the location and design.
Detectable_Warning_Surface_Type	None, Synthetic Tactile Mats, Cast In Place Tactile Pavers, Precast Brick/Pavers, Precast Tile, Other See Notes, Unknown	Warning surfaces that are detectable under foot that indicate the boundary between a pedestrian route and a vehicular route.
Sides	Flared, Returned Curb, Other See Notes, None, Unknown, NA	Identified side type associated with pedestrian ramp
Landing	Yes / No	A 4 ft. x 4 ft. minimum level area of walkway at the top or bottom of a ramp that allows wheeled users a space to orient their direction before and after using a ramp.
Marked_Crossing	Yes / No	Clearly marked zones found at intersections where pedestrians are crossing.
Curb_Extensions	Yes / No	An extension of the curb line in a bulb-like rounding radius that incorporates curb ramps. Its purpose is to shorten the crossing distance for pedestrians.
Midblock_Crossing	Yes / No	Midblock crossings are pedestrian crossing points that do not occur at intersections. They are often installed in areas with heavy pedestrian traffic to provide more frequent crossing opportunities.
Island	Yes / No	Raised concrete refuge usually found between right turns and through-fare travel lanes.
Pedestrian_Signal	Yes / No	Devices that communicate information about the WALK and DON'T WALK intervals at signalized intersections in visual or non-visual formats.
Cross_slope_Compliant	Yes / No	The cross slope is the slope perpendicular to [across] the direction of pedestrian travel on the ramp run.
Running_slope_Compliant	Yes / No	Running-slope (longitudinal) is defined as the average cross-slope of a contiguous section of sidewalk.
Gutter_Transition_Compliant	Yes / No	Gutter transition is the transition from curb ramp to the gutters & street.
Notes	Text (255)	Any additional information pertaining to the Curb Ramp feature.
Quadrant	N, NE, E, SE, S, SW, W, NW	One of the eight principal directions associated with the location of the Curb Ramp.







2.0 Summary of field data model for "Curb Ramp" (continued)

Direction	N, NE, E, SE, S, SW, W, NW	Approach direction of the pedestrians.
Source	Orthorectified Aerial Photo, Street Level Imagery, Field Location	Identifies the source or the primary reference that the GIS data was obtained from.
Street_Name	Text (50)	Name of street that runs perpendicular to the curb ramp.
Crossroad_Name	Text (50)	Name of road that runs perpendicular to the main road being crossed.
Feature_ID	Text (100)	Incrementing unique feature ID's aid in classifying and organizing Curb Ramp assets.
Photo_ID	Text (50)	A unique ID number of the Curb Ramp image that corresponds with the image frame number from the field imaging camera.
Functional_Classification	Yes / No	Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.
Inventory_Area	Text (20)	A unique ID number that identifies the assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.
Inspec_Date	Date	Image Date of the assessed feature.
Photo_Folder	Text (100)	The directory folder the images are being stored.
Photo_Hotlink	Text (255)	Defines the path and file name of the photo file linked to the Curb Ramp.
Northing	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Easting	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Latitude	Text (20)	The angular distance of a location North or South of the earth's equator, measured in degrees, minutes & seconds.
Longitude	Text (20)	The angular distance of a location East or West of the meridian at Greenwich, England measured in degrees, minutes & seconds.





3.0 Summary of Field Data Model for "Handrail" (Line Feature)

Field Name	Feature Attributes	Description
Status	Present, Missing, Under Construction, Obscured, Unknown	The current standing position or condition of the feature that has been field identified and assessed.
Location	Ramp, Bridge, Stairs, Walkway, Other See Notes, Unknown, NA	The Handrails geographic location description.
Hazard	Slope, Drop Off, Curb, Traffic, Rough Surface, Other See Notes, Unknown	Anything that can potentially cause a level of threat to life or health within an environment.
Notes	Text (255)	Any additional information pertaining to the Handrail feature.
Length_Ft	Double	Numeric values with decimal values within specific range representing the total length of the Handrail.
Source	Orthorectified Aerial Photo, Street Level Imagery, Field Location	Identifies the source or the primary reference the GIS data was obtained.
Street_Name	Text (50)	Name of parallel road along Handrail.
Feature_ID	Text (100)	Incrementing unique feature ID's aid in classifying and organizing Handrail assets.
Photo_ID	Text (50)	A unique ID number of the Handrail image that corresponds with the image frame number from the field imaging camera.
Functional_Classification	Yes / No	Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.
Inventory_Area	Text (20)	A unique ID number that identifies the assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.
Inspec_Date	Date	Image Date of the assessed feature.
Photo_Folder	Text (100)	The directory folder the images are being stored.
Photo_Hotlink	Text (255)	Defines the path and file name of the photo file linked to the Handrail.
Northing	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Easting	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Latitude	Text (20)	The angular distance of a location North or South of the earth's equator, measured in degrees, minutes & seconds.
Longitude	Text (20)	The angular distance of a location East or West of the meridian at Greenwich, England measured in degrees, minutes & seconds.
Shape_Length	Double	Numeric values with decimal values within specific range representing the total length of Handrail.







4.0 Summary of Field Data Model for "Obstacle" (Point Feature)

Field Name	Feature Attributes	Description
Location	Ramp, Bridge, Stairs, Walkway, Driveway, Other See Notes, Unknown, NA	The Obstacle's geographic location description.
Туре	No Curb Ramp, Uneven Transition, Drainage grate, Grate (other), Manhole, Fire hydrant, Sign pole, Utility box, Street light pole, Utility pole, Traffic sign pole, Signal control box, Landscaping, Planter, Mailbox, Tree, bush, and shrub branches, Vegetation, Railroad tracks, Tree grates, Grooves, Vault, Guy wire, Roots, Small steps, Transit shelter, Trash can, Parking meter, Business sign, Awnings, Bench, Bike rack, Bollard, Tables and chairs, Drinking fountain, Narrow path, Gutters, Ponding, Vending machine, Street sculpture, Public Telephone, Other See Notes, Unknown	Any Obstacle that can restrict an individual's ability to physically move along or within an environment. They may limit the individual's movement from one place to another, or cause a barrier or hindrance.
Notes	Text (255)	Any additional information pertaining to the Obstacle feature.
Source	Orthorectified Aerial Photo, Street Level Imagery, Field Location	Identifies the source or the primary reference the GIS data was obtained.
Street_Name	Text (50)	Name of parallel road to Obstacle.
Feature_ID	Text (100)	Incrementing unique feature ID's aid in classifying and organizing Obstacle assets.
Photo_ID	Text (50)	A unique ID number of the Obstacle image that corresponds with the image frame number from the field imaging camera.
Functional_Classification	Yes / No	Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.
Inventory_Area	Text (20)	A unique ID number that identifies the assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.
Inspec_Date	Date	Image Date of the assessed feature.
Photo_Folder	Text (100)	The directory folder the images are being stored.
Photo_Hotlink	Text (255)	Defines the path and file name of the photo file linked to the Obstacle.
Northing	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Easting	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Latitude	Text (20)	The angular distance of a location North or South of the earth's equator, measured in degrees, minutes & seconds.
Longitude	Text (20)	The angular distance of a location East or West of the meridian at Greenwich, England measured in degrees, minutes & seconds.







5.0 Summary of Field Data Model for "Hazard" (Point Feature)

Field Name	Feature Attributes	Description
Location	Ramp, Bridge, Stairs, Walkway, Driveway, Other See Notes, Unknown, NA	The Hazard's geographic location description.
Туре	Unstable surface, Protruding Rail, Ramp Transition Grade, Excessive Cross Slope, Excessive Running Slope, Construction, Drop off, Other See Notes, Unknown	Hazards types are potential areas in a pedestrians access route (PAR) that can cause a level of threat, life, or health within that environment.
Notes	Text (255)	Any additional information pertaining to the Hazard feature.
Source	Orthorectified Aerial Photo, Street Level Imagery, Field Location	Identifies the source or the primary reference the GIS data was obtained.
Street_Name	Text (50)	Name of parallel road near the Hazard.
Feature_ID	Text (100)	Incrementing unique feature ID's aid in classifying and organizing Hazard assets.
Photo_ID	Text (50)	A unique ID number of the Hazard image that corresponds with the image frame number from the field imaging camera.
Functional_Classification	Yes / No	Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.
Inventory_Area	Text (20)	A unique ID number that identifies the assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.
Inspec_Date	Date	Image Date of the assessed feature.
Photo_Folder	Text (100)	The directory folder the images are being stored.
Photo_Hotlink	Text (255)	Defines the path and file name of the photo file linked to the Hazard.
Northing	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Easting	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Latitude	Text (20)	The angular distance of a location North or South of the earth's equator, measured in degrees, minutes & seconds.
Longitude	Text (20)	The angular distance of a location East or West of the meridian at Greenwich, England measured in degrees, minutes & seconds.





6.0 Summary of Field Data Model for "Damage" (Point Feature)

Field Name	Feature Attributes	Description
Location	Ramp, Bridge, Stairs, Walkway, Driveway, Other See Notes, Unknown, NA	The Damage's geographic location description.
Туре	Trip Edge, Heaving and Settlement, Shattering, Other See Notes, Unknown, NA	Type of Damage caused by the environmental conditions.
Notes	Text (255)	Any additional information pertaining to the Damage feature.
Source	Orthorectified Aerial Photo, Street Level Imagery, Field Location	Identifies the source or the primary reference the GIS data was obtained.
Street_Name	Text (50)	Name of parallel road near the Damage.
Feature_ID	Text (100)	Incrementing unique feature ID's aid in classifying and organizing Damage assets.
Photo_ID	Text (50)	A unique ID number of the Damage image that corresponds with the image frame number from the field imaging camera.
Functional_Classification	Yes / No	Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.
Inventory_Area	Text (20)	A unique ID number that identifies the assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.
Inspec_Date	Date	Image Date of the assessed feature.
Photo_Folder	Text (100)	The directory folder the images are being stored.
Photo_Hotlink	Text (255)	Defines the path and file name of the photo file linked to the Damage.
Northing	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Easting	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Latitude	Text (20)	The angular distance of a location North or South of the earth's equator, measured in degrees, minutes & seconds.
Longitude	Text (20)	The angular distance of a location East or West of the meridian at Greenwich, England measured in degrees, minutes & seconds.





7.0 Summary of Field Data Model for "Passing Space" (Line Feature)

Field Name	Feature Attribute	Description
Material	Concrete, Asphalt, Brick/Pavers, Stone, Tile, Other See Notes, None, Unknown, NA	Material is the physical element that the sidewalk is constructed of.
Total_Width_In	Text (20)	Total Width of walkway corridor in inches.
Notes	Text (255)	Any additional information pertaining to the sidewalk Passing Space feature.
Source	Orthorectified Aerial Photo, Street Level Imagery, Field Location	Identifies the source or the primary reference that the GIS data was obtained from.
Street_Name	Text (50)	Name of parallel road to Passing Space feature.
Feature_ID	Text (100)	Incrementing unique feature ID's aid in classifying and organizing sidewalk Passing Space assets.
Photo_ID	Text (100)	A unique ID number of the sidewalk Passing Space image that corresponds with the image frame number from the field imaging camera.
Functional_Classification	Yes / No	Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.
Inventory_Area	Text (20)	A unique ID number that identifies the assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.
Inspec_Date	Date	Image Date of the assessed feature.
Photo_Folder	Text (100)	The directory folder the images are being stored.
Photo_Hotlink	Text (255)	Defines the path and file name of the photo file linked to the sidewalk Passing Space.
Northing	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Easting	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Latitude	Text (20)	The angular distance of a location North or South of the earth's equator, measured in degrees, minutes & seconds.
Longitude	Text (20)	The angular distance of a location East or West of the meridian at Greenwich, England measured in degrees, minutes & seconds.
Shape_Length	Double	Numeric values with decimal values within specific range representing the total length of the sidewalk Passing Space.





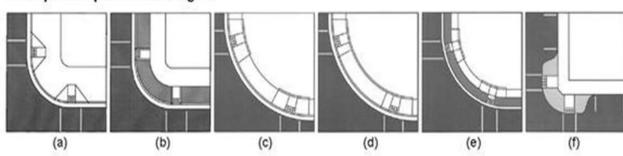
8.0 Summary of Field Data Model for "Obscured_Area" (Polygon Feature)

Field Name	Feature Attributes	Description
Notes	Text (255)	Any additional information pertaining to the Obscured Area feature.
Source	Orthorectified Aerial Photo, Street Level Imagery, Field Location	Identifies the source or the primary reference the GIS data was obtained.
Street_Name	Text (50)	Name of parallel road near the Obscured Area.
Feature_ID	Text (100)	Incrementing unique feature ID's aid in classifying and organizing Obscured Area assets.
Photo_ID	Text (50)	A unique ID number of the Obscured Area image that corresponds with the image frame number from the field imaging camera.
Functional_Classification	Yes / No	Identifies the category of the road's functional classification. The functional classification of a road is the class or group of roads to which the road belongs to: arterial, collector, and local.
Inventory_Area	Text (20)	A unique ID number that identifies the assets that are associated with a specific inventory area. These areas consist of residential neighborhoods, commercial areas or individual roadways.
Inspec_Date	Date	Image Date of the assessed feature.
Photo_Folder	Text (100)	The directory folder the images are being stored.
Photo_Hotlink	Text (255)	Defines the path and file name of the photo file linked to the Obscured Area.
Northing	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Easting	Double	Florida State Plane Coordinates NAD 83 East Zone U.S Survey Feet
Latitude	Text (20)	The angular distance of a location North or South of the earth's equator, measured in degrees, minutes & seconds.
Longitude	Text (20)	The angular distance of a location East or West of the meridian at Greenwich, England measured in degrees, minutes & seconds.



Spherical Image Extraction Data Model

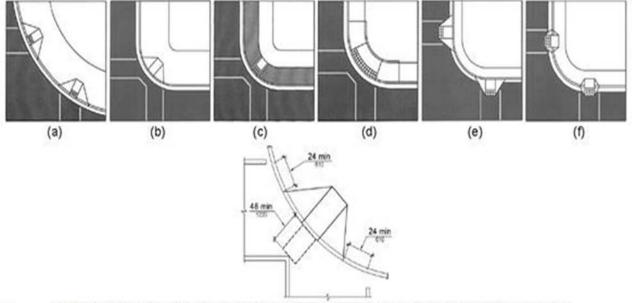
1. A - ADA Accessibility Guidelines (ADAAG) Examples of Preferred & Acceptable Curb Ramp Designs



Examples of preferred designs

- a. Perpendicular curb ramps with flares and a level landing.
- Perpendicular curb ramps with returned curbs and a level landing.
- c. Two parallel curb ramps on a wide turning radius.
- Two parallel curb ramps with a lowered curb.
- e. Two combination curb ramps on a corner with a wide turning radius.
- f. A curb extension with two perpendicular curb ramps with returned curbs and level landings.

Examples of acceptable curb ramp designs.



- a. Perpendicular curb ramps, oriented perpendicular to the curb, on a corner with a wide turning radius.
- b. Diagonal curb ramp with flares and a level landing, in addition to at least 48 inch of clear space.
- c. Diagonal curb ramp with returned curbs, a level landing, and sufficient clear space in the crosswalk.
- d. Single parallel curb ramp with at least 48 inch clear space.
- e. Two built-up curb ramps.
- f. Partially built-up curb ramps.



23. Addendums

04/2016

Orange County ADA Transition Plan in the Public Rights-of-Way

Addendum 001

In regards to the Americans with Disabilities Act (ADA) – 28CFR, Section 35.150(d), the official responsible for the implementation of this ADA Transition Plan in the Public Rights-of-Way for Orange County Public Works is the ADA Coordinator, Natrevia Gradney-Mitchell, PE, whose contact information is detailed below. This shall be effective until specified otherwise in a later Addendum.

Natrevia L. Gradney-Mitchell, PE Pedestrian Safety Coordinator (Interim ADA Coordinator) Orange County Public Works Engineering Division 4200 South John Young Parkway Orlando, FL 32839 Ph: 407.836.7755 e-mail: ADACoordinator@ocfl.net

ADA Transition Plan in the Public Rights-of-Way