

Road Safety Audit - NE Polk US 27 Mobility Study: US 27 from North of SR 60 to US 192



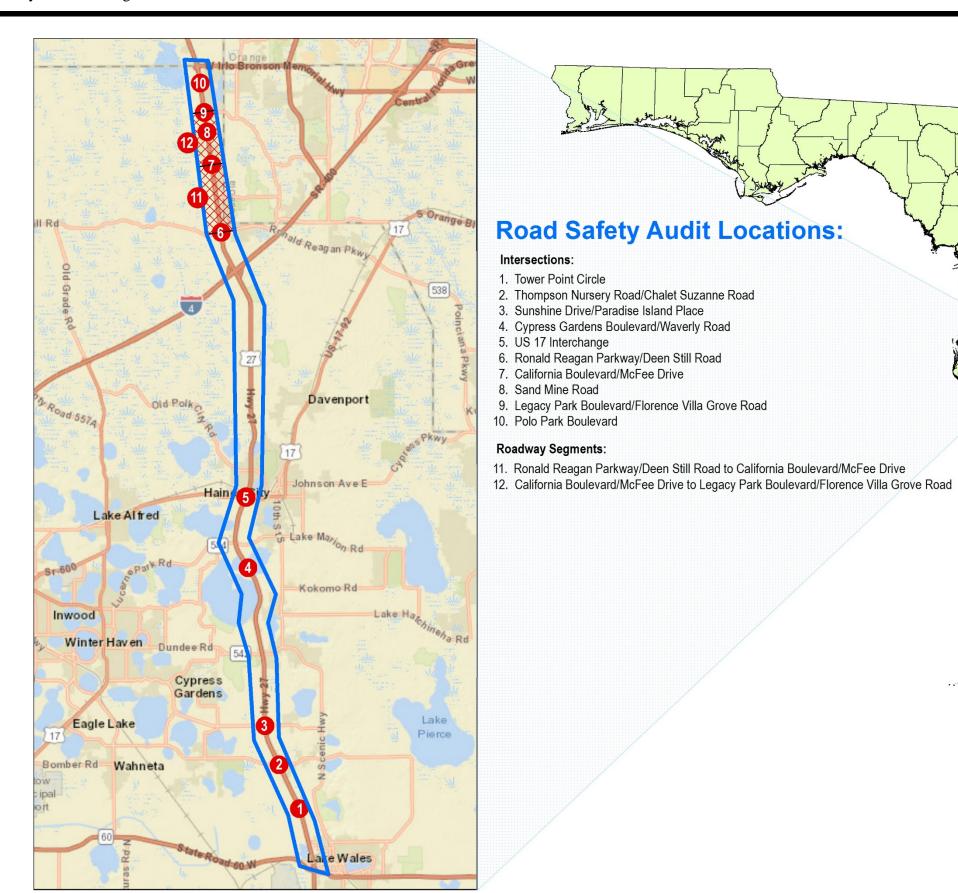
September 2019

Section 16180000

Mile Post: 0.000 - 31.970

Prepared for: FDOT, District One

Prepared by: AECOM



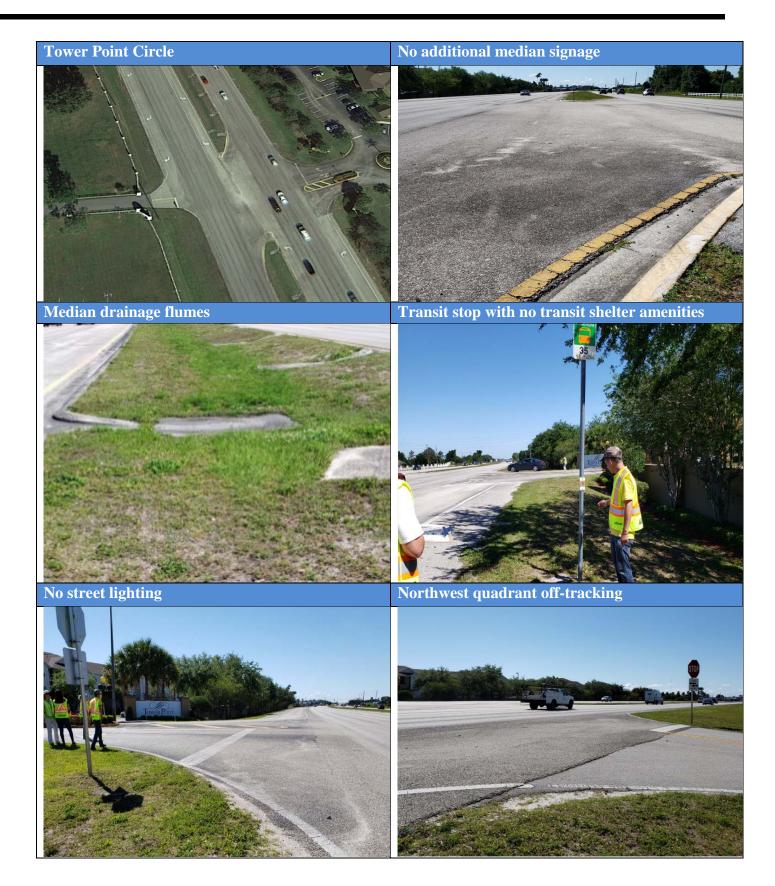
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Location:	Location Description:	Intersection Type:
1	Tower Point Circle	Non-Signalized Intersection

- US 27 is a 6-lane divided highway with a 60 mph posted speed. Private driveways to the Tower Point Apartment Homes located on the east side and the Vanguard School, a private special needs school, on the west side of US 27.
- Full median opening
- Grass median with drainage flumes
- No street lighting
- No sidewalks
- SB U-turns heavy from Tower Lakes & Car Dealership to the north
- Transit stops (Route 35) on both sides of US 27
- Private Special Needs School on west side of US 27
- Tower Point Apartment Homes on the east side of US 27
- Off-tracking at northwest quadrant
- Stop signs with supplemental "Divided Highway" sign mounted below for east and west legs
- One pedestrian was observed crossing from the west side to the east side of US 27

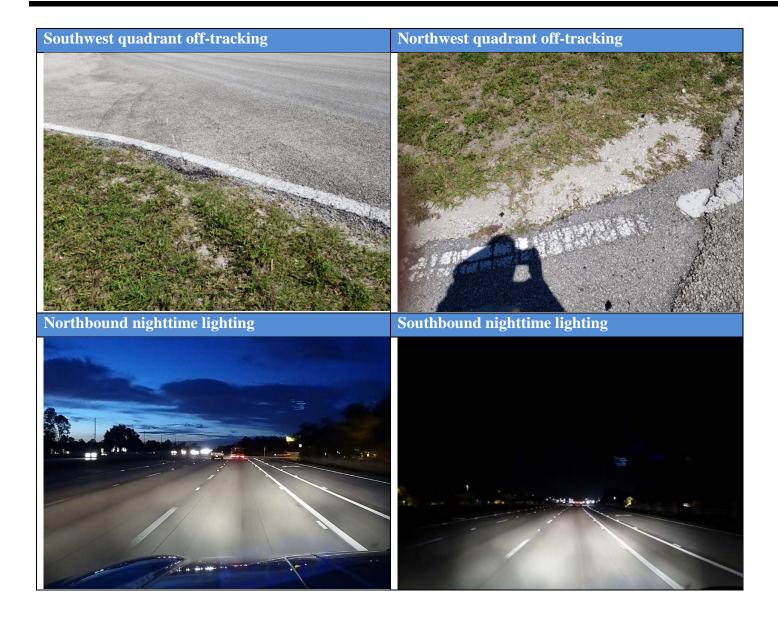
Recommendations:

- Convert from full median opening to bi-directional median opening
- Update transit stops with pads and shelter/bench amenities and provide sidewalk connection from driveways on both sides of US 27
- Reduce northwest curb radius
- Install curb and gutter on all four quadrants
- Retrofit full median opening to bi-directional median opening
- Install street lighting on both sides of US 27
- Reduce risks of hydroplaning or other wet surface crashes by performing a Median Drainage Evaluation to eliminate surface erosion or standing waters on US 27
- Conduct pedestrian crossing analysis



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Location 1: Tower Point Circle - Page 3



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Location 1: Tower Point Circle - Page 4

Location:	Location Description:	Intersection Type:
2	Thompson Nursery Road/Chalet Suzanne Road	Signalized Intersection

- US 27 is a 6-lane divided highway with a 60 mph posted speed. Thompson Nursery Road and Chalet Suzanne Road are 2-lane undivided roadways with posted speed of 45 mph
- Skewed intersection
- Pedestrian signal at all four quadrants
- No sidewalks from hotel or from Pedaler's Pond Mobile Home Park connectivity to Thompson Nursery Road/Chalet Suzanne Road commercial/retail
- Street lighting present at intersection. Several street light poles in advance of intersection with additional ambient lighting from nearby commercial businesses; no lighting present on Thompson Nursery Road/Chalet Suzanne Road
- Old black detectable warning pads on southeast and southwest quadrant.
- Protected/permissive left turn signal for eastbound and westbound
- Long sidewalk gaps
- Uneven pavement at northeast and northwest quadrant
- Commercial/retail on all 4 legs
- Wawa's exit onto northbound US 27 does not have proper signage or pavement markings from adjacent property
- Overhead lighted street sign for Thompson Nursery Road (southbound) is missing (Coordination with FDOT Asset Maintenance work order in progress)
- Eastbound overhead street 5-section signal housing damaged (Coordination with FDOT Asset Maintenance work order in progress)
- Pedestrian crossing sign missing roadway name "Thompson Nursery Road"
- Northeast quadrant pedestrian signal damaged during multi-vehicle/truck nighttime crash on May 3, 2019 (Coordination with FDOT Asset Maintenance work order in progress)
- Southeast quadrant pedestrian signal rotated making it difficult to pedestrian call
- Visible ground erosion near signal controller box
- A FDOT memorial marker is located on the southeast quadrant adjacent to northbound lanes

- Install high visibility crosswalks pavement markings
- Update pedestrian assemblies to current ADA standards with audible push buttons and correct signage and orientation
- Update curb ramps to current ADA standards to include yellow detectable warning pads
- Install "Keep Right" signs (MUTCD R4-7) in median concrete traffic separators, as needed
- Implement leading pedestrian interval with "No Right Turn" LED blank out (MUTCD R3-1)
- Sidewalk gap fill-in at southeast quadrant (Wawa)
- Install sidewalk from Hampton Inn & Suites to Thompson Nursery Road
- Repair Thompson Nursery Road overhead street designation sign (Coordination with Asset Maintenance work order in progress)
- Install Stop sign, lighting and pavement markings at Wawa's entrance/exit (from adjacent properties) for northbound on US 27; remove old parking lot space striping
- Install right turn arrow signal for eastbound with No Right Turn on Red blank out (MUTCD R3-1), due to skewed intersection approach
- Install supplemental advance 3-section Left Arrow signal for northbound and southbound left turn lanes
- Replace supplemental advance 3-section signal with 5-section signal for eastbound and westbound directions
- Install curb and gutters at all four quadrants
- Install additional street lighting on US 27 and Thompson Nursery Road/Chalet Suzanne Road











Location:	Location Description:	Intersection Type:
3	Cypress Gardens Boulevard/Waverly Road	Signalized Intersection

- US 27 is a 6-lane divided highway with a 60 mph posted speed. Cypress Gardens Boulevard is a 4-lane divided roadway with a posted speed of 55 on the west side of US 27 and Waverly Road is a 2-lane undivided roadway with posted speed of 45 mph on the east side of US 27
- Pedestrian signals present at all four quadrants
- Lighting present at intersection. Several street light poles present in advance of intersection on US 27; no lighting present on Cypress Gardens Boulevard/Waverly Road
- No sidewalks present along either roadway. Only present at intersection
- Marked bike lanes present on Cypress Gardens Blvd
- Rutting of pavement noted in NB center lane of US 27 just north of intersection
- Tire marks located on median curb nose on north side and west side of intersection
- No lit street description signage from span wire heading southbound for "Cypress Gardens Boulevard"
- SE Quadrant
 - o Missing detectable warning pad
 - o Off-tracking of vehicles onto sidewalk
 - o Roadside memorial located south of intersection, adjacent to NB right turn lane
 - o Overgrown vegetation adjacent to sidewalk
 - o Need to evaluate handrail at back of sidewalk due to slope at back of sidewalk
 - Stop bar for NB traffic appears too close to crosswalk across US 27
- NE Quadrant
 - o Off-tracking of vehicles onto sidewalk, loose detectable warning pad
 - o Pavement marking faded
 - o Concrete strain pole damaged (possibly caused by vehicle accident)
- NW Quadrant
 - o Pedestrian signal head for crosswalk across US 27 is misaligned; difficult to see display across US 27
 - o Missing detectable warning pad
 - o Need to evaluate handrail at back of sidewalk due to slope at back of sidewalk
 - o Roadside marker located west of intersection in WB direction; vehicles pull over onto grass to look at marker, may need to replace with a FDOT approved destination sign
 - o One pedestrian ramp at quadrant for crossing both roads, recommend to separate ramps
- SW Quadrant
 - o Off-tracking of vehicles onto sidewalk
 - Some car debris (broken glass) present on sidewalk

- Installation of high visibility crosswalks
- Update pedestrian assemblies to current ADA standards with audible, correct signage and orientation
- Update curb ramps to current ADA standards to include yellow detectable warning pads
- Install "Keep Right" (MUTCD R4-7) signs as needed in median concrete traffic separator
- Implement leading pedestrian interval
- Install "Yield to Pedestrian" (MUTCD R10-15) signs
- Install sidewalks from Carlton Arms Apartment to US 27 on the south side of Cypress Gardens Boulevard
- Install advance supplement 3-section arrow signal for exclusive left turns for east and west approaches
- Install pedestrian handrail at back of sidewalk in southwest and
- Trim vegetative overgrowth
- Install additional street lighting on Cypress Gardens Boulevard/Waverly Road in advance of the intersection
- Install advance supplemental 3-section arrowed signal for exclusive left turns on east and west approaches (Off-system)
- Repair/install lighted street description sign for Cypress Gardens Boulevard southbound located on concrete pole
- Repaint pavement markings, as needed
- Repair rutting street pavement in Northbound center lane on US 27
- Period cleaning of debris from sidewalks and bike lanes, as needed







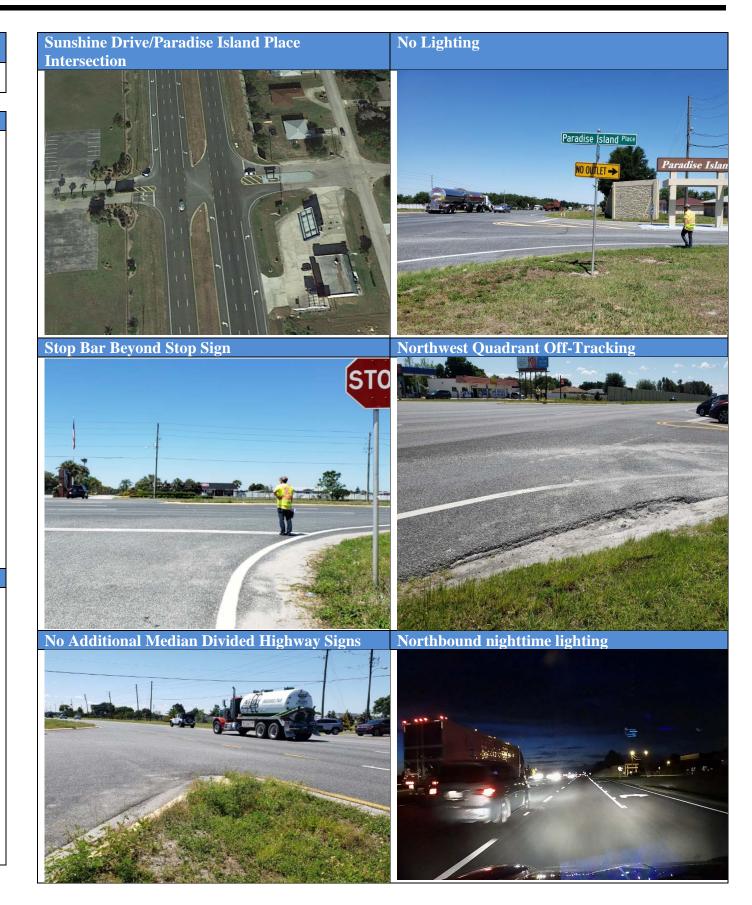


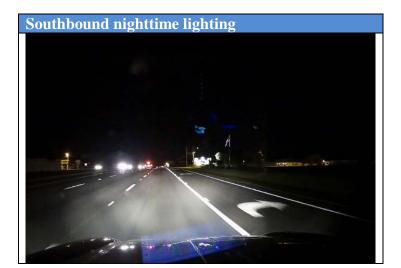


Location:	Location Description:	Intersection Type:
4	Sunshine Drive/Paradise Island Place	Non-Signalized Intersection

- US 27 is a 6-lane divided highway with a 60 mph posted speed. Paradise Island Place located on the east side with posted speed limit of 25 mph and the Lake Region Village, a private driveway to the mobile home community, on the west side of US 27.
- Vehicle seem to be driving at higher speeds (70-75 mph)
- No sidewalk
- No street lighting
- Northwest quadrant off-tracking into Lake Region Village
- High volume left turns at median opening from US 27 and sidestreets
- High volume U-Turns (southbound to northbound) from Paradise Campground at median opening due to downstream direction median opening
- Stop sign located in advance of stop bar at Paradise Island
- Open drainage ditches
- No Stop sign at exiting from Region Sunshine Drive
- Convenience store manager indicated one resident crosses US 27 daily from Regency to his store

- Convert from full median opening to bi-directional median opening
- Move Stop sign to align with Stop Bar at Paradise Island Place
- Install Stop sign at Sunshine Drive
- Install street lighting
- Reduce northwest quadrant radius to deter right turns in from off-tracking
- Convert from full median opening to bi-directional median opening
- Conduct spot speed study





Location:	Location Description:	Intersection Type:
10	US 17/92	Interchange

- US 27 has a posted speed limit of 45 mph within the interchange.
- Cloverleaf interchange
- Street lighting on the southbound approach to the bridge; no street lighting on the northbound approach to the bridge; tall pole lighting present at ramp locations
- Short concrete median wall
- Short merge/diverge auxiliary lane northbound and southbound
- No bike or pedestrian facilities

Recommendations:

- Install additional street lighting on the northbound approach to be continuous along the entire length of the bridge
- Install supplemental R5-1a "WRONG WAY" signs to the existing R5-1 "DO NOT ENTER" signs at Moss Avenue.
- Install directional pavement arrow markers within the two-way section of the southbound off/on ramp area
- Install signage and pavement markings for bike lanes within the paved outside shoulder area on both sides of the bridge with dashed striping areas at the ramps
- Install sidewalk from Nelson Street/McKay Drive from the interchange to the north
- Install sidewalk from the interchange south to SR 544/Scenic Highway
- Build pedestrian paths on both sides of the bridge with signage and pavement markings at ramp locations



September 2019 Location 5: US 17/92 Interchange - Page 13

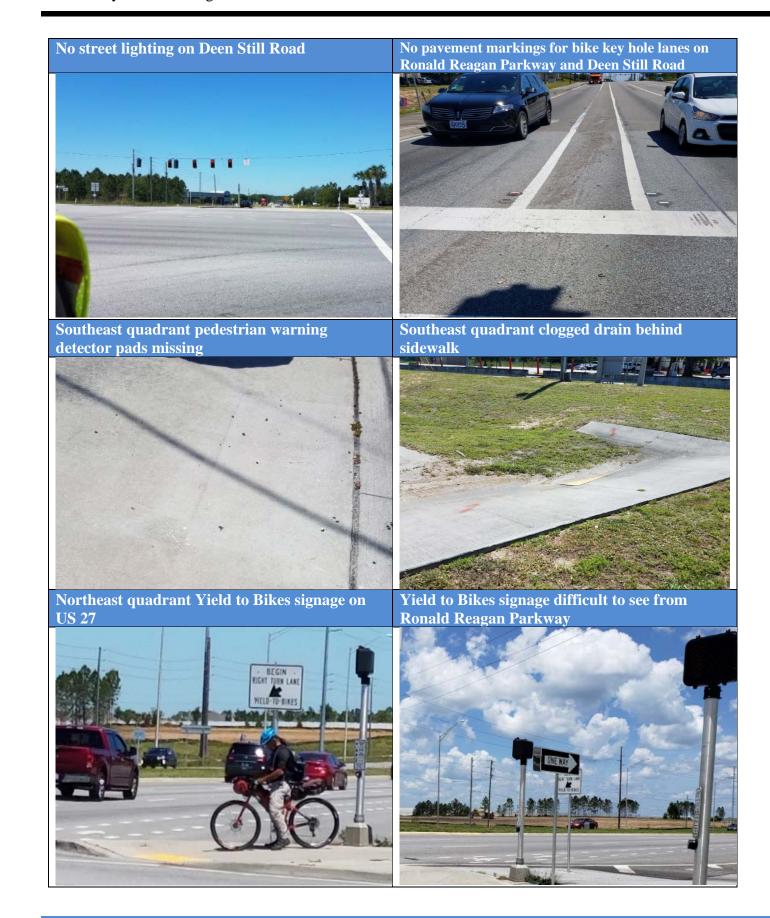
Location:	Location Description:	Intersection Type:
6	Ronald Reagan Parkway/Deen Still Road	Signalized Intersection

- US 27 is a 6-lane divided highway with a 55 mph posted speed. Deen Still Road is a 2-lane undivided roadway with a posted speed of 40 on the west side of US 27 and Ronald Reagan Pkwy is a 4-lane divided roadway with posted speed of 45 mph on the east side of US 27
- Pedestrian signals present at all four quadrants
- Street lighting present at intersection; street lighting present in advance of intersection on US 27 and Ronald Reagan Pkwy; no street lighting present on Deen Still Road
- Sidewalks present along both roadways; along US 27, sidewalk is near ROW line; along Ronald Reagan Pkwy/Dean Still Road, sidewalk is adjacent to curb
- Intersection is curb and gutter; Ronald Reagan Pkwy/Dean Still Road has curb and gutter; flush shoulders are present along US 27
- High volume U-turn traffic at east leg and north leg
- Signal head appear to be missing for right turn lanes for NB and SB directions; possibly to be added at a later time
- Pavement markings on Ronald Reagan faded; also, some rutting in WB through lane
- Median on west leg shows evidence of damage from vehicles
- WB travel lane in west leg appears narrow
- SE Quadrant
 - o Off-tracking of vehicles onto sidewalk, missing detectable warning pads
 - o WB vehicles making U-turn vehicles hit curb in SE quadrant
 - o Possible need for handrail adjacent to sidewalk south of intersection
- NE Quadrant
 - o Off-tracking of vehicles onto sidewalk
 - o Clogged underdrain behind sidewalk
 - Transit stop shelter present north of intersection, some damage to windows
- NW Quadrant
 - o Pedestrian signal head rotated, difficult to see display
 - o Off-tracking of vehicles onto sidewalk
 - o Portion of sidewalk eroding into ditch
 - o Transit stop located north of intersection, poor connection to sidewalk; requires walking on shoulder to reach sidewalk connection; no shelter or bench provided at stop
 - Uneven sidewalk joint, tripping hazard
 - o Pedestrian signal button across Deen Still Road is not working in either direction
- SW Quadrant
 - o Faded pavement marking for crosswalk

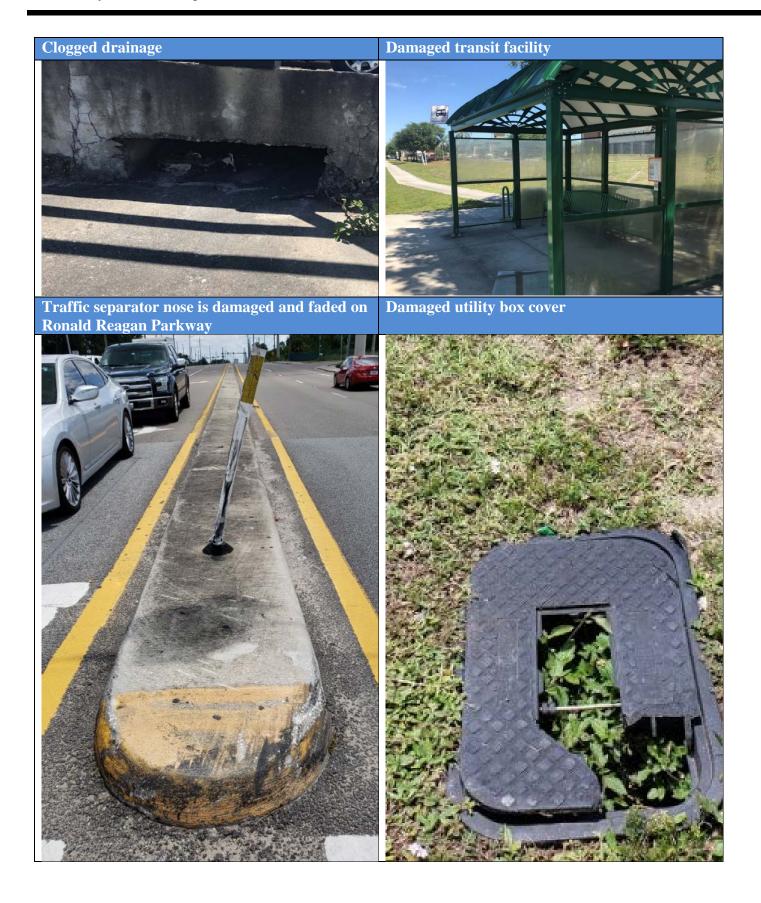
- Pedestrian signal button across Deen Still Road is not working in either direction
- o Off-tracking of vehicles onto sidewalk
- Damaged sidewalk south of intersection

- Install high visibility crosswalks
- Update pedestrian assemblies to current ADA standards with audible push button, correct signage and orientation
- Update curb ramps to current ADA standards to include yellow detectable warning pads
- Install "Keep Right" (MUTCD R4-7) signs in median concrete traffic separator, as needed
- Implement leading pedestrian interval with "Yield to Pedestrian" (MUTCD R10-15) signs
- Install street lighting on Deen Still Road
- Repair cracked or uneven sidewalks at all four quadrants
- Install right turn arrowed 3-section signal for right turn lanes northbound and southbound
- Install "Yield to Pedestrian" signs on east approach
- Install advance supplement signs "No Right Turns on Red" for north and east approaches
- Repaint faded pavement markings crosswalk and stop bar markings for west approach
- Improvement drainage and ground erosion on northeast and northwest quadrants
- Repair transit shelter windows
- Install bike key hole lane pavement markings on Ronald Reagan Parkway and Deen Still Road
- Retrofit transit stop connection from sidewalk to shelter, north of intersection heading southbound
- Repair damaged covers and grates
- Trim vegetative overgrowth to help improve stormwater drainage
- Repair/repaint median traffic separator nose and straighten reflector pole at Ronald Reagan Parkway











Location:	Location Description:	Intersection Type:
7	California Boulevard/McFee Drive	Signalized Intersection

- US 27 is a 6-lane divided highway with a 60 mph posted speed. California Boulevard is a 2-lane undivided roadway with a posted speed of 25 on the west side of US 27 providing access to the Manors of Westbridge residential community and McFee Drive is a private driveway access to Hampton Lakes residential community on the east side of US 27
- Median nose intrudes slightly into crosswalk on north approach
- Pedestrian signals present at all four quadrants
- No street lighting at intersection or along approaches
- US 27 median north and south of intersection, curb radius guides cars into median
- On west leg, old crosswalk pavement markings are still visible
- On west leg, not sure if EB lane is one lane or two; rutting on outside of pavement due to vehicles driving off pavement
- Observed numerous NB to SB U-turns; may need a bulb out on west side of road to accommodate tractor trailers. Evidence of trucks driving off shoulder onto grass
- SE Quadrant
 - o Off-tracking of vehicles onto sidewalk
 - o Sidewalk tripping hazard (cracks)
 - Pedestrian ramp is a diagonal curb ramp for crossing both roads
 - Transit stop located south of intersection; no shelter or bench provided at stop
 - Two signal heads provided for EB traffic
- NE Quadrant
 - o Possible need for handrail adjacent to sidewalk just north of intersection, steep slope
 - o Pedestrian signal pole is tilted/rotated, difficult to see display (Coordination with Asset Maintenance work order in progress)
 - Detectable warning pad is damaged
- **NW Quadrant**
 - o Possible need for handrail adjacent to sidewalk just north of intersection, steep slope
 - o Two parallel sidewalks; one appears to be for private development
 - Cable wire or powerline sagging at back of sidewalk; almost possible to touch
 - o Transit stop located north of intersection with shelter offset from landing pad
- SW Ouadrant
 - o Off-tracking of vehicles onto sidewalk

- Install high visibility crosswalks
- Update pedestrian assemblies to current ADA standards with audible push button, correct signage and orientation

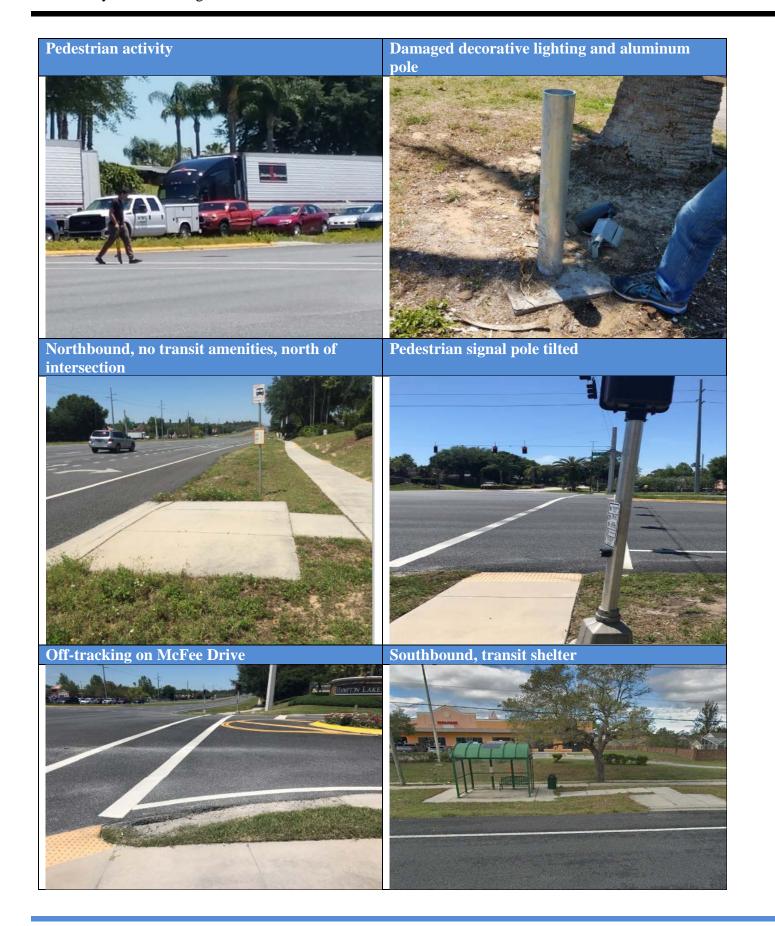
- Update curb ramps to current ADA standards to include yellow detectable warning pads
- Install "Keep Right" (MUTCD R4-7) signs in median concrete traffic separator, as needed
- Implement leading pedestrian interval with "Yield to Pedestrian" (MUTCD R10-15) signs
- Update/repair transit stops with pads and shelter/bench amenities
- Remove old crosswalk pavement markings on California Boulevard
- Improve pavement marking for westbound approach to indicate turn designation
- Improve pavement marking for eastbound approach indicating two lanes and lane designation
- Remove landscaping debris
- Repair and level cracked and uneven sidewalks
- Reduce radius for southwest quadrant
- Realign crosswalk for south approach
- Install sidewalk handrail on northwest where shoulder slopes
- Install curb and gutter at all four approaches
- Install street lighting at the intersection and approaches
- Contact responsible agencies for cable/power lines

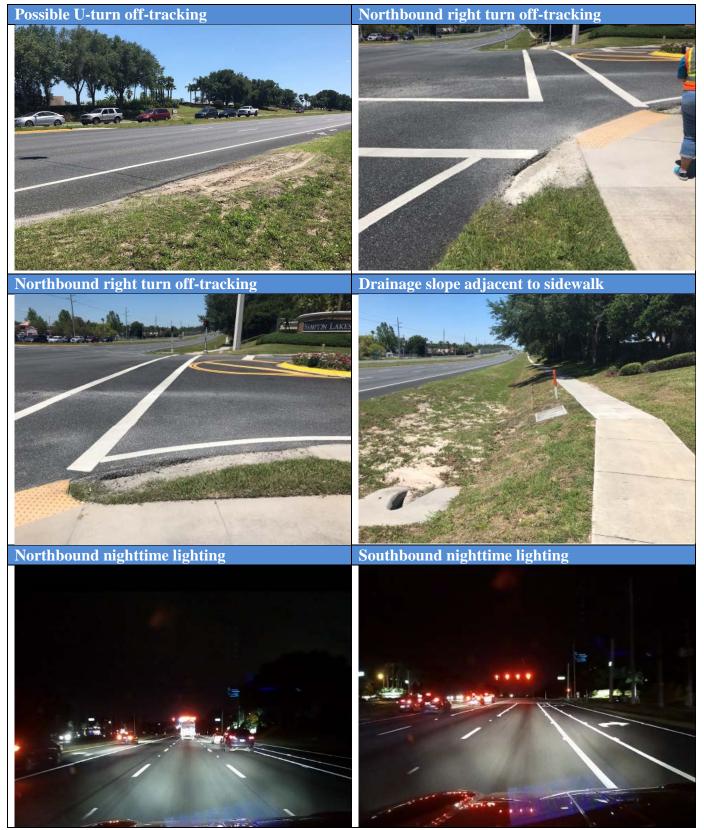


Old faded crosswalk markings still present on Shoulder slope adjacent to sidewalk California Boulevard









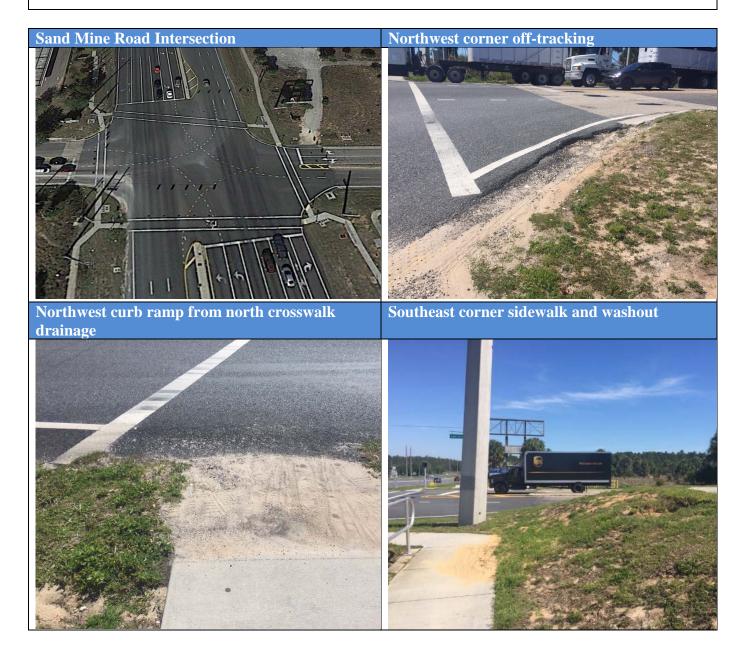
Location	Location Description:	Intersection Type
8	Sand Mine Road	Signalized Intersection

- US 27 is a 6-lane divided highway with a 55 mph posted speed. Sand Mine Road is a 2-lane undivided roadway with a posted speed of 40 on the west side of US 27 and a 2-lane undivided access roadway to Citrus Ridge Academy (K-8) on the east side of US 27 with 15 mph warning signage
- Transit stop shelter present south of intersection
- Heavy trucks observed not stopping southbound right turns when light was red
- Heavy trucks driving over curbs when turning to and from Sand Mine Road (west side)
- Drainage issues
- Off-tracking on southwest and northwest corners
- Damaged inlets on County road off-system eastbound approach
- Vegetation overgrowth
- Northwest corner sidewalks do not connect
- Fatal crash indicator post
- Speeding
- Split signal
- No street lighting at intersection or approaches; ambient lighting from nearby commercial businesses
- Advance signalized flashing beacon warning signs prior to intersection both northbound and southbound
- Eastbound visibility issues
- Southeast corner includes two back-to-back sidewalks with no connections
- Long left turn lane from Jack's Road extends south to Sand Mine Road

Recommendations:

- Install high visibility crosswalks
- Update pedestrian assemblies to current ADA standards with audible push button, correct signage and orientation
- Update curb ramps to current ADA standards to include yellow detectable warning pads
- Install "Keep Right" (MUTCD R4-7) signs in median concrete traffic separator, as needed
- Implement leading pedestrian interval with "Yield to Pedestrian" (MUTCD R10-15) signs
- Reduce radius at all four quadrants
- Realign crosswalks on north and south approaches

- Install "No Right Turn on Red" LED (MUTCD R3-1) w 5-section head signal for westbound to northbound; also, consider for eastbound to southbound due to sidestreet heavy trucks observed turning on red without stopping
- Improve drainage run-off and erosion
- Install curb and gutter at all four corners
- Connect transit stop shelter to inside sidewalk south of the intersection
- Improve sidewalks connections to and from Sand Mine Road
- Periodic law enforcement to monitor speeding through the intersection
- Install street lighting at intersection and approaches



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Location 8: Sand Mine Road - Page 19







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Location 8: Sand Mine Road - Page 20

Location:	Location Description:	Intersection Type:
9	Legacy Park Boulevard/Florence Villa Grove Road	Signalized Intersection

- US 27 is a 6-lane divided highway with a posted speed limit of 55 mph; Legacy Park Boulevard is a 4-lane divided roadway with a posted speed of 30 mph on the west side of US 27 providing access to the Villages of Legacy Park residential community and Florence Villa Grove Road is a 2-lane undivided roadway with a posted speed of 30 mph on the east side of US 27 providing access to the Lake Davenport Estates residential community
- Skewed intersection
- Advance signalized flashing beacon warning signs prior to intersection both northbound and southbound
- No curb and gutter on all approaches
- Off-tracking on all approaches
- Damaged pedestrian crossing signal (Coordination with Asset Maintenance work order in progress)
- No street lighting at intersection and approaches
- Debris within bike lane
- No sidewalk connection to Florence Villa Grove Road from US 27 (Off-system)

- Install high visibility crosswalks for north, south, and west approaches
- Update pedestrian assemblies to current ADA standards with audible push button, correct signage and orientation
- Update curb ramps to current ADA standards to include yellow detectable warning pads
- Install "Keep Right" (MUTCD R4-7) signs in median concrete traffic separator, as needed
- Implement leading pedestrian interval with "Yield to Pedestrian" (MUTCD R10-15) signs
- Reduce curb radius at all four quadrants
- Realignment of crosswalks for south approaches
- Install street lighting at intersection and approach
- Connect sidewalk from US 27 along south side of Florence Villa Grove Road to Tuscan Hills Boulevard
- Clear debris from bike lane with regular maintenance





Location:	Location Description:	Intersection Type:
10	Polo Park Boulevard	Signalized Intersection

- US 27 is a 6-lane divided highway with a posted speed limit of 55 mph; Polo Park Boulevard is a 2-lane divided roadway with a posted speed of 25 mph on the west side of US 27 and a 2-lane undivided roadway with a posted speed of 15 mph on the east side of US 27 providing access the Polo Park 55 Plus residential/golf community
- Skewed signalized intersection
- Advance signalized flashing beacon warning signs prior to intersection both northbound and southbound
- Pedestrian signal at all four quadrants
- Transit stop shelters north and south of intersection with missing windows
- Erosion and drainage run-off at northwest and southwest quadrants adjacent to sidewalk
- Off-tracking on southwest and southeast quadrants
- No street lighting at intersection and approaches; ambient lighting from commercial businesses present
- Bike lanes present

Recommendations:

- Install high visibility crosswalks
- Update pedestrian assemblies to current ADA standards with audible push button,
- Correct pedestrian signage and orientation (Coordination with Asset Maintenance work order in progress)
- Update curb ramps to current ADA standards to include yellow detectable warning pads
- Install "Keep Right" (MUTCD R4-7) signs in median concrete traffic separator, as needed
- Implement leading pedestrian interval with "Yield to Pedestrian" (MUTCD R10-15) signs
- Reduce curb radius at all four quadrants
- Install curb and gutter at all four quadrants of intersection
- Install windows at transit stop shelters
- Realignment of crosswalks for south approaches
- Relocate cable/utilities underground marker poles from edge of pavement in southeast quadrant
- Install street lighting at intersection and approaches
- Install sidewalk at southeast quadrant of intersection along Polo Park Boulevard to gas station driveway
- Fill in ground erosion along sidewalk
- Improvement drainage and ground erosion on northeast and northwest quadrants





Transit shelter missing windows





e/utility pole damage and off-tracking



Location 10: Polo Park Boulevard - Page 23 September 2019





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Location 10: Polo Park Boulevard - Page 24

Location:	Location Description:	Segment Type:
11	Ronald Reagan Parkway/Deen Still Road to California Boulevard/ McFee Drive	6 Lane Divided

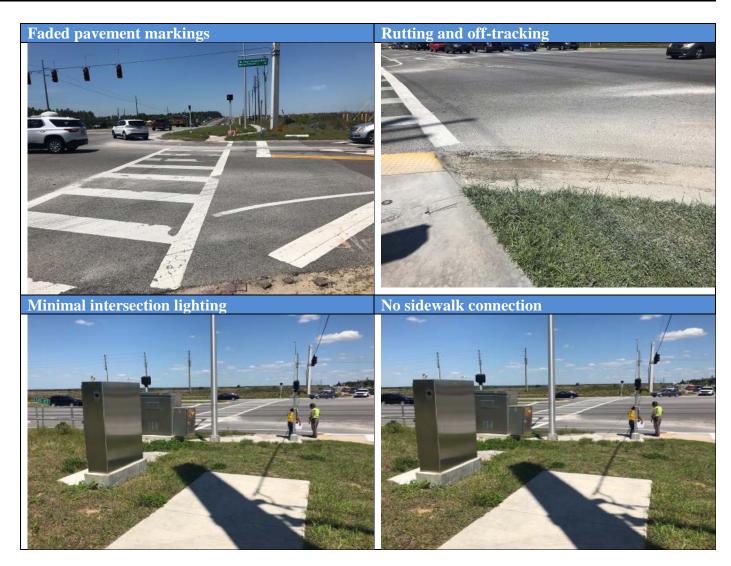
- US 27 is a 6-lane divided highway from Ronald Reagan Parkway/Deen Still Road to California Boulevard/McFee Drive with a posted speed of 60 mph
- Aerial image generally reflected existing conditions
- Includes three unsignalized full median openings and one signalized intersection
- Unsignalized intersection #1 Central Grove Road (2-lane undivided with no posted speed sign dead end road)/Terra Del Sol Boulevard (2-lane undivided with a posted speed of 30 mph)
 - o Missing detectable warning pad in northwest quadrant
 - o Severe rutting/drop off on west leg of intersection
 - Possible sight distance issue at median opening due to vertical profile of US 27 south of intersection; poor sight distance for left turns onto northbound US 27
 - o Possible sight distance for eastbound right turns onto NB US 27
 - o Stop sign at Terra Del Sol is leaning
- Signalized intersection #2 Four Corners Boulevard (2-lane undivided with a posted speed of 25 mph)/Bella Citta Boulevard (2-lane undivided posted speed of 40 mph)
 - o Rutting, off-tracking in all four quadrants
 - o Faded pavement markings on Bella Citta Boulevard
 - o Leaning pedestrian pole in southwest quadrant
 - o Spilled concrete in southbound bike lanes
 - o No sidewalk connection between sidewalk on west side of US 27 and north side of Four Corners Boulevard; significant elevation difference
 - o Detectable warning pad in southwest and northeast quadrants covered by soil
 - o Possible need for handrails adjacent to sidewalk in southwest quadrant
 - Observed conflicts between pedestrians and left/right turning vehicles at intersection
 - o Pedestrian signal in southwest quadrant not working
 - o Wide sidewalk provided along south side of Bella Citta Boulevard., connection to school to the east
 - o No school crossing signage provided at intersection
- Unsignalized intersection #3 Elgin Boulevard (Pine West community; no posted speed sign)/Santa Cruz Lane (Santa Cruz community; no posted speed sign)
 - o Transit stop in northwest quadrant has no connection to sidewalk; no bench or shelter provided
 - o Transit stop in northeast quadrant does have a connection to sidewalk; no bench or shelter provided
 - o Lighting provided on Tri County Road; no light provided on US 27
 - o Leaning street sign located in southeast quadrant
 - o Off-tracking of vehicles in southeast and northwest quadrants
 - o Street sign pole is too short in northwest quadrant
 - o Possible minor sight distance issue for westbound rights onto NB US 27 due to noise barrier
- Unsignalized intersection #4 Oglethorpe Road (Lauren Estates community; no posted speed sign)
 - o School bus stop at intersection (private or charter school bus); bus stopped in right turn lane to drop off students; blocked entrance to road; cars headed southbound on US 27 did not stop for school bus
 - o Spilled concrete in right turn lane shoulder
 - o Noted numerous U-turns from northbound to southbound on US 27; vehicles seem to come from storage facility south of intersection

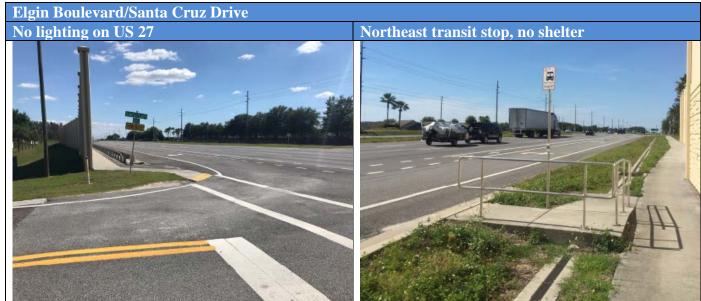
o Minor off-tracking in northwest and southwest quadrants

- Along US 27 from Ronald Reagan Parkway/Deen Still Road to California Boulevard/McFee Drive, as needed
 - o Improve sidewalks including handrails where there is significant sloping of drainage and fill-in gaps to provide continuous sidewalks and connection to sidestreets
 - o Install additional street lighting on both sides of US 27
 - O Update transit stops with pads and shelter/bench amenities
 - o Determine school crossing locations and update with school signs
 - o Periodic cleaning of sidewalk and bike lane
 - o Conduct pedestrian crossing visibility study
 - o Conduct sight distance study
 - Conduct spot speed study
- Unsignalized intersection #1 Central Grove Road/Terra Del Sol Boulevard
 - o Convert to bi-directional median opening
 - o Install high visibility crosswalks at signalized intersection as well as sidestreet crosswalks
 - o Repair/retrofit curb radius to eliminate rutting/off-tracking damage
 - o Update curb ramps to current ADA standards to include yellow detectable warning pads
 - o Repair/replace damaged signage
 - o Repaint pavement markings, as needed
- Signalized intersection #2 Four Corners Boulevard/Bella Citta Boulevard
 - o Repair/replace/update pedestrian assemblies to current ADA standards with audible push button, correct signage and orientation at signalized intersection as well as sidestreet crosswalks
 - o Repair/retrofit curb radius to eliminate rutting/off-tracking damage
 - o Update curb ramps to current ADA standards to include yellow detectable warning pads
 - o Install "Keep Right" (MUTCD R4-7) signs in median concrete traffic separator, as needed
 - o Implement leading pedestrian interval with "Yield to Pedestrian" (MUTCD R10-15) signs
 - o Install handrails adjacent to sidewalk in southwest quadrant
 - Install raised islands at locations with exclusive right turns
 - o Connect sidewalk from northside of Four Corners Boulevard to westside of US 27, significant elevation difference
 - o Consider split phase signal due to permissive left turn/aggressive drivers
- Unsignalized intersection #3 Elgin Boulevard/Santa Cruz Lane
 - o At full median opening provide additional signage and (MUTCD R1-1 or R1-2, R6-1 and R6-3) and delineate the median area with pavement striping
 - o Repair/retrofit curb radius to eliminate rutting/off-tracking damage
 - o Install high visibility crosswalks at signalized intersection as well as sidestreet crosswalks
 - o Update curb ramps to current ADA standards to include yellow detectable warning pads
 - o Repair/replace damaged signage
 - o Repaint pavement markings, as needed
- Unsignalized intersection #4 Oglethorpe Road
 - o At full median opening provide additional signage and (MUTCD R1-1 or R1-2, R6-1 and R6-3) and delineate the median area with pavement striping
 - o Repair/retrofit curb radius to eliminate rutting/off-tracking damage
- o Install high visibility crosswalks at signalized intersection as well as sidestreet crosswalks
- Update curb ramps to current ADA standards to include yellow detectable warning pads
- o Repair/replace damaged signage
- o Repaint pavement markings, as needed















Location:	Location Description:	Segment Type:
12	California Boulevard/McFee Drive to Legacy Park	6 Lane Divided
12	Boulevard/Florence Villa Grove Road	o Lane Divided

- US 27 is a 6-lane divided highway from California Boulevard/McFee Drive to Legacy Park Boulevard/Florence Villa Grove Road with a posted speed of 60 mph transitioning to 55 mph north of Highlands Reserve Boulevard/Student Drive
- Includes three unsignalized full median openings and three signalized intersection
- Unsignalized intersection #1 Florida Avenue (2-lane undivided with a posted speed of 10 mph)
 - o Missing detectable warning pad in northwest quadrant
 - o Rutting/drop off on west leg of intersection
 - o Possible need for handrails adjacent to sidewalk in southwest and northwest quadrant
 - o No street lighting on at intersection and approaches
- Unsignalized intersection #2 Ridgeway Boulevard
 - o Rutting on northeast quadrant
 - o No street lighting at intersection and approaches
- Signalized intersection #3 Highlands Reserve Boulevard/Student Drive (2-lane undivided with a posted speed of 25 mph)
 - o Median openings with additional pavement cutouts at noses
 - o Left turns on US 27 appear dangerous
 - Drainage Issues sediment on sidewalks
 - o Damaged sidewalk on Student Drive (Off-system)
 - o No street lighting at intersection and approaches
 - No transit stops
 - o Secondary barrier wall concerns relating to security/lurking place
 - Off-tracking
- Signalized intersection #4 Sand Mine Road
 - o See Audit Location No. 7
- Unsignalized intersection #5 Jack's Road (No posted speed limit sign
 - o Painted pavement markings
- Signalized intersection #6 Legacy Park Boulevard/Florence Villa Grove Road
 - o See Audit Location No. 8

- Along US 27 from California Boulevard/McFee Drive to Legacy Park Boulevard/Florence Villa Grove Road, as needed
 - o Improve sidewalks including handrails where there is significant sloping of drainage and fill-in gaps to provide continuous sidewalks and connection to sidestreets
 - o Install street lighting at intersections and approaches
 - o Update transit stops with pads and shelter/bench amenities
 - Determine school crossing locations and update with school signs
 - o Periodic cleaning of sidewalk and bike lane
 - o Conduct pedestrian crossing visibility study
 - Conduct sight distance study
 - o Conduct spot speed study

- Unsignalized intersection #1 Florida Avenue
 - o At full median opening provide additional signage and (MUTCD R1-1 or R1-2, R6-1 and R6-3) and delineate the median area with pavement striping
 - o Install high visibility crosswalks at signalized intersection as well as sidestreet crosswalks
 - o Repair/retrofit curb radius to eliminate rutting/off-tracking damage
 - o Update curb ramps to current ADA standards to include yellow detectable warning pads
- Unsignalized intersection #2 Ridgeway Boulevard
 - o Repair/retrofit curb radius to eliminate rutting/off-tracking damage
 - o Install high visibility crosswalks at signalized intersection as well as sidestreet crosswalks
- Signalized intersection #3 Highlands Reserve Boulevard/Student Drive
 - o Repair/replace/update pedestrian assemblies to current ADA standards with audible push button, correct signage and orientation at signalized intersection as well as sidestreet crosswalks
 - o Repair/retrofit curb radius to eliminate rutting/off-tracking damage
 - o Update curb ramps to current ADA standards to include yellow detectable warning pads
 - o Install "Keep Right" (MUTCD R4-7) signs in median grassed separator, as needed
 - o Implement leading pedestrian interval with "Yield to Pedestrian" (MUTCD R10-15) signs at signalized intersections
 - o Install raised islands at locations with exclusive right turns
 - Consider split phase signal due to permissive left turn/aggressive drivers
- Signalized intersection #4 Sand Mine Road
 - o See Audit Location No. 7
- Unsignalized intersection #5 Jack's Road
 - o Install high visibility crosswalks at signalized intersection as well as sidestreet crosswalks
 - o Repair/retrofit curb radius to eliminate rutting/off-tracking damage
 - o Update curb ramps to current ADA standards to include yellow detectable warning pads
 - o Replace painted pavement striped bulb-out in southwest quadrant with a raise grassed bulb-out
 - o Install posted speed limit sign
- Signalized intersection #6 Legacy Park Boulevard/Florence Villa Grove Road
 - o See Audit Location No. 8







