

EXISTING CONDITIONS MEMORANDUM

SR 408 WESTBOUND CAPACITY IMPROVEMENTS FROM I-4 TO GOLDENROD ROAD PROJECT DEVELOPMENT & ENVIRONMENT STUDY

Prepared by:

Kimley»»Horn

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Project Information

Project Name:	Westbound SR 408 Capacity Improvements from I-4 to Goldenrod Road PD&E Study
Projects Limits:	Westbound SR 408 from I-4 to Goldenrod Road (Figure 1)
County:	Orange County
Proposed Activity:	Analyze and evaluate the addition of one lane along the westbound direction of SR 408 from I-4 to Bumby Avenue and SR 436 (Semoran Boulevard) to Goldenrod Road.
Responsible Agency:	Central Florida Expressway Authority (CFX)
Planning Organization:	CFX
Phase:	Project Development & Environment (PD&E) Study

Project Contact Information:

CFX Director of Engineering

Dana Chester, PE
Central Florida Expressway Authority
4974 ORL Tower Road
Orlando, FL 32807
Office: 407-690-5000
Email: Dana.Chester@cfxway.com

CFX Project Manager

David Falk, PE
Central Florida Expressway Authority
4974 ORL Tower Road
Orlando, FL 32807
Office: 407-690-5000
Email: David.Falk@cfxway.com

Figure 1: Project Location Map



Project Background and Description

Background

In September 2022, CFX began conducting a Project Development and Environment (PD&E) Study for capacity improvements to westbound SR 408 between Interstate 4 (I-4) and Goldenrod Road.

More than 164,000 vehicles per day travel on SR 408 with a significant portion traveling westbound in the morning from east Orlando to reach downtown and I-4. As such, the SR 408 westbound lanes near downtown Orlando become congested and experience delay. Within the study area along the westbound direction, SR 408 provides four lanes from Goldenrod Road to Semoran Boulevard, five lanes from Semoran Boulevard to Bumby Avenue, and four lanes from Bumby Avenue to I-4. An additional lane within the existing four lane segments is needed to provide five lanes continuously from Goldenrod Road to I-4 and address the mobility and traffic needs of daily commuters.

This PD&E will evaluate the addition of one westbound lane from I-4 to Bumby Avenue and from Semoran Boulevard to Goldenrod Road, matching previous improvements between Bumby Avenue and Semoran Boulevard. Most of the work would occur within SR 408's existing right of way.

Study Description

The general objective of this PD&E Study is to provide documented information necessary for CFX to reach a decision on the type, design, and location of the proposed capacity improvements within the project limits. Public involvement and community engagement will be a crucial component of this PD&E Study.

The PD&E Study includes the development and evaluation of adding a lane within the corridor. The work includes the evaluation and documentation of the physical, natural, social, and cultural environment within the corridor and the potential impacts associated with the various mobility alternatives. This analysis also addresses economic and engineering feasibility, mobility capacity and levels of service, conceptual geometry, drainage, and structures.

Purpose and Need

The purpose and need provide the basis for developing, considering, evaluating, and eliminating alternatives.

Purpose

The purpose of the study is to address increasing traffic congestion and improve mobility along the westbound lanes of SR 408 between I-4 and Goldenrod Road. With over 164,000 vehicles traveling daily in the area, the traffic volume has been steadily rising and is expected to continue growing. The project aims to improve SR 408 by adding an additional travel lane in the westbound direction from I-4 to Bumby Ave and from Semoran Boulevard to Goldenrod Road. The goal is to improve traffic flow, accommodate growing demands, reduce congestion and delay, and enhance safety.

Need

The need for adding capacity on SR 408 is based on several factors:

- 1) **Improve traffic flow:** The westbound segment of SR 408 from Semoran Boulevard to Goldenrod Road currently operates at an acceptable Level of Service (LOS) D or better during the AM peak hour. The segment from I-4 to Bumby Avenue operates at an unacceptable LOS of E and F in the AM. As travel demands continue to increase, the LOS is expected to deteriorate if nothing is done. By 2045, travel demands on westbound SR 408 are expected increase by over 18%.
- 2) **Reduce congestion and delay:** If nothing is done, increasing travel demands will result in more congestion and delays. This will affect the reliability of SR 408 for those who rely on it for their daily commute.
- 3) **Enhance safety:** A review of existing crash data indicates that rear end collisions account for approximately 53% of all crash types. This is indicative of increasing congestion and vehicles having to abruptly stop or slow down within a limited distance. If nothing is done, it is expected that crashes would increase.
- 4) **Support regional connectivity:** SR 408 is a vital transportation corridor connecting commuters to downtown Orlando and Interstate 4 (I-4). By enhancing the capacity and efficiency of SR 408, the improvements will contribute to regional connectivity and support economic growth and development.
- 5) **Provide consistency with local plans and policies:** Improvements to SR 408 are aligned with local plans and policies related to transportation infrastructure and land use. By providing a more efficient roadway, the project will ensure consistency with the existing land use patterns and support the area's planned growth and development.
- 6) **Support economic benefits:** Successful implementation of the study recommendations will bring economic benefits to the region. Reducing congestion and improving traffic flow will enhance logistics and other business transportation routes for goods and services. Commuters will also experience shorter travel times, leading to increased productivity and quality of life.

General Area Conditions

The project area is on existing westbound SR 408 from I-4 to Goldenrod Road, with a focus on the existing 4-lane portions of this section. For consistency in studying the existing and anticipated conditions of the area surrounding the proposed lane addition, a half-mile radius of the general existing conditions surrounding the project area was used.

A majority of the project falls within the City of Orlando limits, except for the eastern 1.5-miles of SR 408 between Semoran Boulevard and Goldenrod Road. This portion of SR 408 traverses an area where unincorporated Orange County is located to the north of the roadway and City of Orlando is located to the south.

The land use along the segment between I-4 to Bumby Avenue is primarily single-family residential along the south side of SR 408. Downtown Orlando is located on the north side of SR 408 in this area with office buildings and multifamily buildings. From Semoran Boulevard to Goldenrod Road, there is dense single-family residential development on both the north and south side of SR 408. This is depicted on the aerial images below on **Figure 2** and **Figure 3**.

Figure 2: I-4 to Bumby Ave

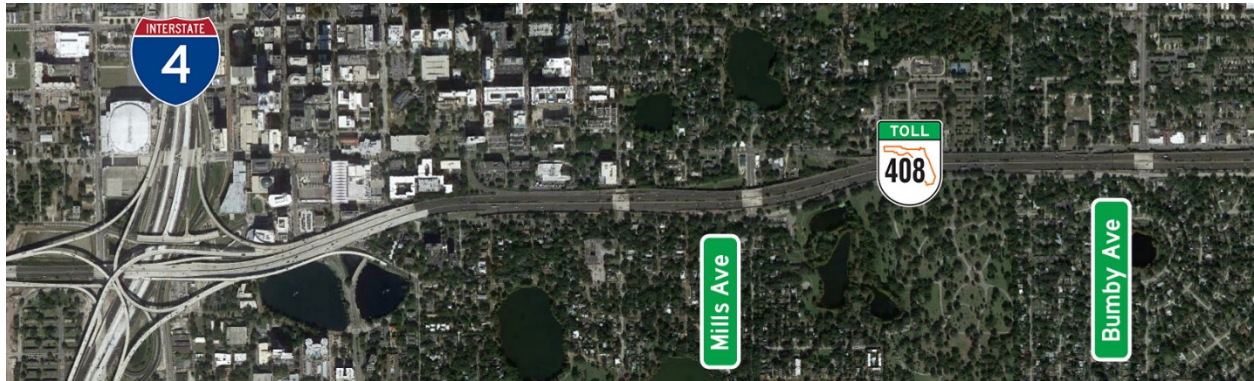
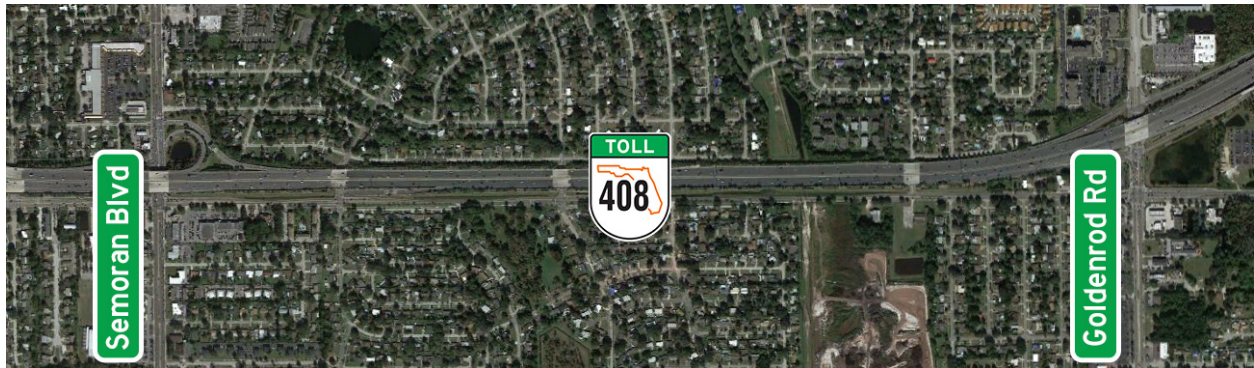


Figure 3: Semoran Blvd (SR 436) to Goldenrod Rd



Roadway

Existing conditions traffic data and roadway facility characteristics information was gathered from available sources, then verified and summarized. The following sections describe the key information summarized from each of the data collection efforts. This information will serve as the basis for all existing conditions analysis.

Existing Roadway Network

The existing roadway network under evaluation is SR 408 and the roadways that provide access to this portion of the limited access facility. Additional details about the roadways in the project area are provided below:

- SR 408 is a six- to ten-lane divided, east-west route that connects Ocoee from Florida's Turnpike in west Orange County to SR 50 (Colonial Drive) east of Alafaya Trail near the University of Central Florida in east Orange County. The straight-line diagrams for the study segments of SR 408 are included in **Appendix A**.
- SR 408 provides access to both eastbound and westbound I-4, the major east-west interstate in Central Florida.
- The Rosalind Avenue exit ramp provides access to South Street and Rosalind Avenue. South Street is a three lane roadway serving westbound traffic only. Rosalind Avenue is a three lane roadway serving northbound traffic only. Both roadways provide access to the Downtown Orlando central business district.
- The Mills Avenue exit ramp provides access to South Street and Mills Avenue. South Street is a three lane roadway serving westbound traffic only. Mills Avenue is a north-south roadway that varies from two to four lanes and provides access to the Thornton Park neighborhood to the north and Lake Davis neighborhood to the south.
- Bumby Avenue, located on the outskirts of downtown, is a five lane roadway north of SR 408 and a two lane roadway south of SR 408. Bumby Avenue is a north-south roadway that provides access to the Milk District to the north and the Lake Como neighborhood to the south. Access to westbound SR 408 from Bumby Avenue is provided through South Street.
- Semoran Boulevard (SR 436) is a six lane divided, north-south roadway that provides access to residential areas east of downtown Orlando and Orlando International Airport.
- Goldenrod Road (SR 551) is a four lane roadway that connects Curry Ford Road to SR 50 and provides access to suburban areas east of downtown.

Existing Roadway Characteristics

The following types of data were collected for each of the study roadways from available Florida Department of Transportation (FDOT), Orange County, and local government data sources and verified where possible through field reviews and aerial reviews: roadway jurisdiction, functional classification, number of lanes, posted speed limit, access locations, and ramp locations. In addition, "as-built" roadway plans were obtained to identify typical section, right of way, drainage system, pavement condition, utility, and road alignment information.

Roadway Design and Posted Speeds

For the proposed westbound lane addition, the main design control is design speed. Design

speed establishes the geometric characteristics and criteria used for the proposed improvements. **Table 1** provides the design speed for the two (2) study segments of SR 408.

Table 1: Posted and Design Speed

Roadway Name	Design Speed [mph]	Posted Speed [mph]
SR 408, from I-4 to Bumby Avenue	Horiz: 65 Vert: 55	60
SR 408, from Semoran Boulevard to Goldenrod Road	60	60

Typical Section

SR 408 roadway and roadside features were determined using the project 253A, C, and D as-built plans and aerial imagery. **Table 2** provides information on the typical section for each segment.

Table 2: Typical Section

Segment	Travel Lanes	Outside Shoulder	Inside Shoulder	Right of Way
SR 408, from I-4 to Bumby Avenue	4 lanes, 12' wide	6' - 12'	10'	180' – 299'
SR 408, from Semoran Boulevard to Goldenrod Road	4 lanes, 12' wide	8'	10'	300'

Ramps

The following ramps are located within the SR 408 segments planned for widening:

I-4 to Bumby Avenue Segment

- I-4 Off-Ramp
- Rosalind Avenue Off-Ramp
- Mills Avenue Off-Ramp
- Bumby Avenue On-Ramp

Semoran Boulevard to Goldenrod Road Segment

- Semoran Boulevard On-Ramp
- Semoran Boulevard Off-Ramp
- Goldenrod Road On-Ramp

Additional information about these ramps is provided in **Table 3**.

Table 3: Ramp Data

Ramp Name	Ramp Type	Length of Acceleration/Deceleration [ft]
<i>SR 408, from I-4 to Bumby Avenue</i>		
I-4 Off Ramp`	Lane Drop	-
Rosalind Avenue Off-Ramp	Parallel	3,000
Mills Avenue Off-Ramp	Parallel	300
Bumby Avenue On-Ramp	Parallel	3,000
<i>SR 408, from Semoran Boulevard to Goldenrod Road</i>		
Semoran Boulevard Northbound On-Ramp	Parallel	2,650
Semoran Boulevard Off-Ramp	Parallel	750
Goldenrod Road On-Ramp	Parallel	1,550

Pavement Condition

The pavement condition of SR 408 in the project study area was determined using the Florida Department of Transportation’s Pavement Conditions Report, extracted on October 4, 2022. This report provides a numerical representation for both cracking and ride for each roadway segment (from a scale of 0 to 10, with 10 being the best). The findings, summarized in **Table 4** below, indicates the pavement condition is very good.

Table 4: Pavement Condition

Roadway Name	Pavement Type	Cracking	Ride
SR 408, from I-4 to Bumby Avenue	Asphalt	10.0	8.8
SR 408, from Semoran Boulevard to Goldenrod Road	Asphalt	10.0	8.6

Horizontal Alignment

Horizontal alignment data – including curves and their properties – is provided in the as-built plans for project 253 A, C, and D. Information about the curves on the study segments is provided in **Table 5**.

Table 5: Horizontal Alignment

Roadway Name	Number of Curves	Curve Radius [ft]	Curve Length [ft]	Description
SR 408, from I-4 to Bumby Avenue	3	2864.79	982.14	Super Elevated, e=0.062
		3819.72	939.48	Super Elevated, e=0.048
		3819.72	932.51	Super Elevated, e=0.048
SR 408, from Goldenrod Road to Semoran Boulevard	1	5721.63	3012.27	Super Elevated, e=0.032

The available horizontal stopping sight distance within the project segments was reviewed and no horizontal obstructions to sight distance were identified.

Vertical Alignment

Vertical alignment data, including curves and their properties, was obtained from the as-built plans for projects 253A, C, and D. Information about the curves on the study segments is provided in **Table 6**. No vertical obstructions to sight distance were identified in the study area.

Table 6: Vertical Alignment

Roadway Name	Flat or Rolling?	Number of Curves	Max Grade (%)	Number of Bridges
SR 408, from I-4 to Bumby Avenue	Rolling	8	3.12	4
SR 408, from Goldenrod Road to Semoran Boulevard	Rolling	4	2.98	5

Intersections

As SR 408 is an access-controlled facility, there are no intersections within the study area for the proposed widening. Changes to the intersections at the ramp terminals are not anticipated for modification with the proposed mainline widening.

Traffic Volumes

Traffic count data for roadways in the study area was obtained from the Florida Traffic Online (FTO) database, included in **Appendix B**. A summary of the data is provided in **Table 7**.

Table 7: Traffic Volume Data

Roadway Name	Site #	AADT	K-Factor	T- Factor
SR 408, from I-4 to Bumby Avenue	584	76,500	8.00	3.20
Rosalind Avenue Off Ramp	2176	9,300	8.00	6.20
Mills Avenue Off Ramp	2156	5,000	8.00	6.20
Bumby Avenue On Ramp	2158	8,200	8.00	6.20
I-4 Off Ramp	2167	13,000	8.00	6.20
SR 408, from Semoran Boulevard to Goldenrod Road	585	69,500	9.00	3.20
Semoran Boulevard Northbound On Ramp	2170	6,200	8.00	6.20
Semoran Boulevard Southbound On Ramp	2163	6,500	8.00	6.20
Semoran Boulevard Off Ramp	2180	5,600	8.00	6.20
Goldenrod Road On Ramp	2165	6,300	8.00	6.20

Crash Data

Crash data was obtained for the study segments from the Signal4 Analytics database. Data was obtained for the most recent, complete six years of data, from January 1, 2016 to December 31, 2021. Crash data is summarized in **Table 8-11** and provided in full in **Appendix C**.

The crash data was evaluated based on frequency, severity, type of impact, roadway conditions, and environmental conditions.

Table 8: Crash Frequency

Roadway Name	Total Number of Crashes	Year					
		2016	2017	2018	2019	2020	2021
SR 408, from I-4 to Bumby Avenue	545	90	80	77	125	92	81
SR 408, from Semoran Boulevard to Goldenrod Road	200	38	22	52	44	18	26

Table 9: Crash Severity

Roadway Name	Total Number of Crashes	Severity		
		PDO	Injury	Fatal
SR 408, from I-4 to Bumby Avenue	545	370	174	1
SR 408, from Semoran Boulevard to Goldenrod Road	200	143	57	0

Table 10: Crash Type

Roadway Name	Total Number of Crashes	Type of Impact				
		Angle	Head On	Rear End	Sideswipe	Other
SR 408, from I-4 to Bumby Avenue	545	58	3	343	84	57
SR 408, from Semoran Boulevard to Goldenrod Road	200	25	3	100	36	36

Table 11: Crash Conditions

Roadway Name	Total Number of Crashes	Lighting			Road Surface		Weather		
		Day	Night	Lighted	Dry	Wet	Clear	Cloudy	Rain
SR 408, from I-4 to Bumby Avenue	545	469	17	59	460	85	405	78	62
SR 408, from Semoran Boulevard to Goldenrod Road	200	154	10	36	167	33	151	35	14

545 crashes were reported in the westbound direction on the 1.4-mile segment of SR 408 from I-4 to Bumby Avenue from the start of 2016 to the end of 2021. For this same time period, 200 crashes were reported in the westbound direction on the 1.5-mile segment of SR 408 from Semoran Boulevard to Goldenrod Road. One fatality was reported on this segment at the Bumby Avenue on-ramp and involved a pedestrian. Approximately 30% of the crashes along the study segments of SR 408 resulted in an injury. Most common impact type on both segments is rear end. With the proposed widening, operations are anticipated to improve which should reduce the number of collisions.

Drainage

Hydrology

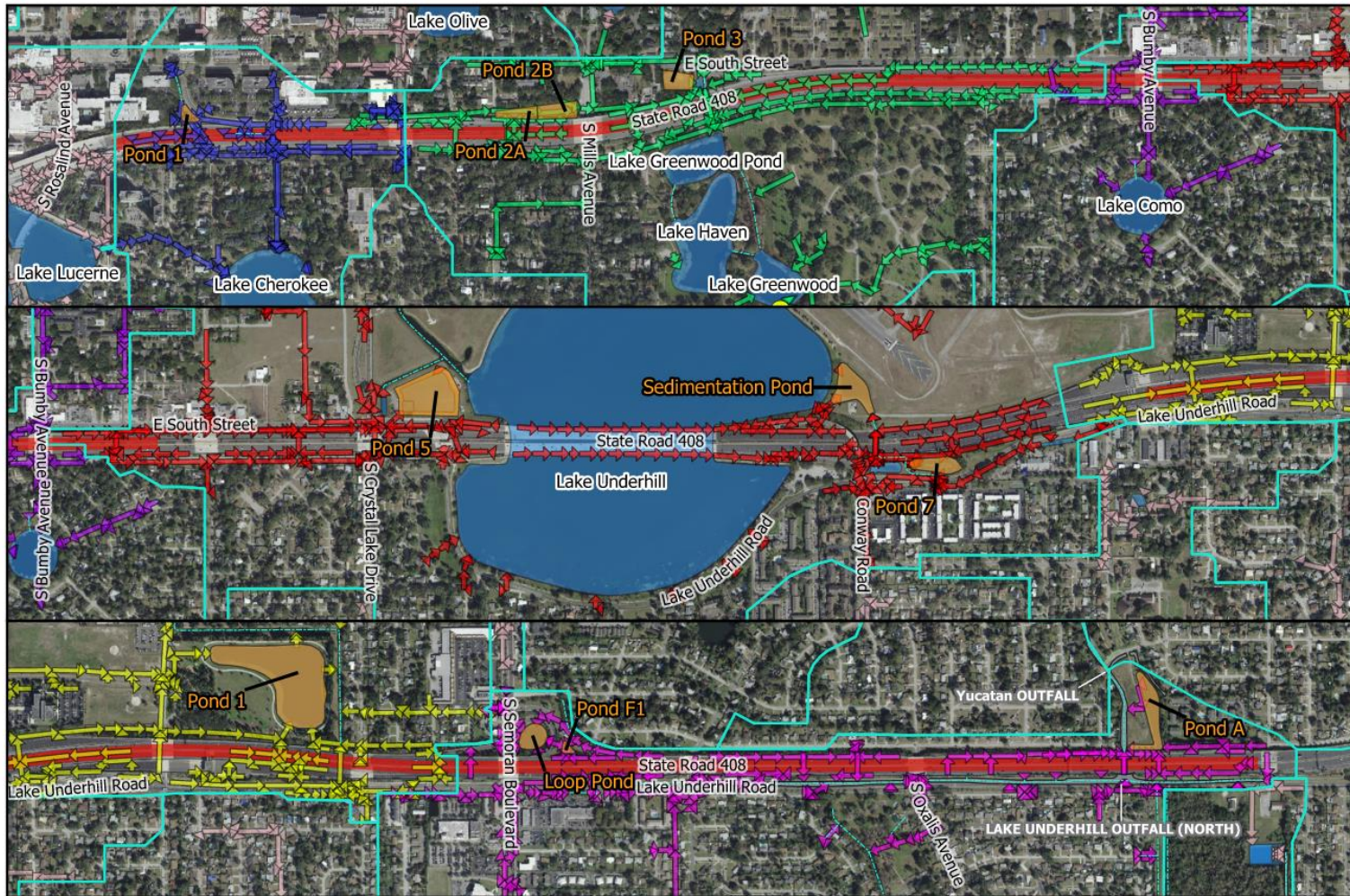
The study area, shown in **Figure 4**, consists of both open and closed basins. Between I-4 and west of the Lake Underhill Toll Plaza, runoff from SR 408 is routed to several lakes: Lake Cherokee, Lake Greenwood, Lake Como, and Lake Underhill. The project is within the Lake Underhill Outfall basin (WBID 3168ZA) and is part of the Upper Kissimmee River Watershed that ultimately discharges south to Lake Okeechobee. Historically, these lakes are considered to be landlocked by St Johns River Water Management District (SJRWMD). The lake outfalls consist of either a drainwell that discharges into the groundwater and/or an overflow structure to cascade south to a downstream lake that is controlled by a pump station. SR 408 existing drainage between the Lake Underhill Toll Plaza and the Goldenrod Road interchange drains north to either a conveyance ditch to Lake Barton within the Lake Baldwin Outfall basin (WBID 3023A) or to the Yucatan Outfall Canal within the Azalea Park Canal basin (WBID 3025); both of which flow northeast to Crane Strand basin (WBID 3023) which flow east to discharge to the Little Econlockhatchee River basin (WBID 3001) which ultimately flows north towards the St. Johns River. The Yucatan Outfall Canal also functions as the northern outfall for Lake Underhill. Ambient Water Quality is summarized in **Table 12**.

The project is located within the jurisdiction of the SJRWMD. Lake Como within Orange County is listed as an impaired waterbody for total phosphorus. The study area is also within the Econlockhatchee River Hydrologic basin but does not contain any portions of the Econlockhatchee River Riparian Habitat Protection Zone. The Econlockhatchee River Hydrologic Basin has additional requirements to meet SJRWMD criteria related to peak discharge rates for both the mean annual and 25-year storm events, as well as providing floodplain compensation for any locations with upstream drainage area of one square mile or more.

Table 12: Ambient Water Quality

Basin	WBID	Outfall	BMAP	TMD L	Waters Not Attaining Standards	
					Verified Impaired ⁽¹⁾	Study List ⁽²⁾
Lake Cherokee	3168X6	Lake Underhill Outlet (WBID 3168Z)	Lake Okeechobee	--	--	--
Lake Greenwood	3168Y3			--	--	--
Lake Como (Orange Co.)	3168Y2			TP	--	--
Lake Underhill	3168G			--	--	--
Lake Underhill Outlet	3168ZA			--	--	DO
Lake Baldwin Outfall	3023A	Little Econlockhatchee River ⁽³⁾ (WBID 3001)	--	Fecal	Fecal	--
Azalea Park Canal	3025				--	--
Water Quality Parameters:						
DO – Dissolved Oxygen, TP – Total Phosphorus, Fecal – Fecal Coliform						
Notes:						
(1) Impaired waterbodies per FDEP Comprehensive Verified List (September 2022)						
(2) Other waters not attaining standards per FDEP Comprehensive Study List (September 2022)						
(3) Little Econlockhatchee River is an Outstanding Florida Waterbody (OFW).						

Figure 4: Drainage Basins Overview Map



Legend

- | | | | | | | |
|----------------|---------------|------------------------|------------------------------|----------------------|-----------------------|---------------|
| Ponds & Lakes | Pump Stations | Secondary Canals Water | Storm Sewer Systems by Basin | Lake Como Basin | Yucatan Outfall Canal | FEMA FIRM |
| Project Limits | Drainwells | Existing SR 408 Ponds | Lake Cherokee Basin | Lake Underhill Basin | ELSE | FEMA Zone AE |
| | | | Lake Greenwood Basin | Lake Barton Basin | | FEMA Zone A |
| | | | | | | FEMA Floodway |

Previous SR 408 plans and existing SJRWMD permits for the project corridor were researched to obtain stormwater and drainage design information. Applicable SR 408 design contracts are listed, and permits are summarized in **Table 13**.

- 408-253A: East of I-4 interchange to Crystal Lake Drive,
- 408-253B: Crystal Lake Drive to Conway Road,
- 408-253C: Conway Road to Oxalis Avenue, and
- 408-253D: Oxalis Avenue to Chickasaw Trail

Table 13: Permit Summary

Project Name	Permit No.	Date Issued	Description
SR 408 Improvements – Rosalind Ave to Crystal Lake Dr, Contract 253A	SJRWMD 92150-1	4/23/2004	Widen SR 408 from 6-lane to 8-lane. Stormwater management facilities (SMFs) designed for ultimate 10-lane (widening to median) and provides compensatory treatment and attenuation. Outfall lakes within Lake Underhill Outlet watershed considered landlocked lakes. Decreased SR 408 basin area to Lake Como in lieu of building an SMF.
SR 408 Improvements – Pond 5 Relocation	SJRWMD 92150-2	8/27/2004	Relocated Pond 5 closer to Lake Underhill, Joint-Use of SMF between CFX (Project 253A and 253B) and the City of Orlando for Crystal Lake Drive Improvements.
SR 408 WB Off-Ramp Improvements at Mills Ave. (CFX 408-159)	SJRWMD 92150-6	12/20/2019	Off-ramp widening project, Modification to SMF Pond 3 by lowering pond bottom 0.5-feet. Nutrient analysis included.
SR 408 from Crystal Lake Drive to Conway Rd, Contract 253B	SJRWMD 96799-1	9/13/2005	SR 408 Bridge over Lake Underhill expanded to 10-lane condition. The 10-lane condition is already built.
SR 408 Widening from Conway Rd to Oxalis Ave, Contract 253C	SJRWMD 96799-2	12/13/2005	SR 408 Widening from 6-lane to 8-lane. SMFs designed for ultimate 10-lane. Project located within Econlockhatchee River Hydrologic Basin but does not contain portion of Econlockhatchee River Riparian Habitat Protection Zone
SR 408 Widening from Oxalis Ave to Chickasaw Trail, Contract 253D	SJRWMD 20358-18	1/29/2010	Widen SR 408 from 6-lane to 10-lanes. Mentions the large (2)-6'x7' CBC culvert within the Azalea Park Canal watershed includes a sharp-crested weir and vertical volume recovery structure (VRS) located on the north to meet Orange County's NPDES permit.

Under these contracts, SR 408 was widened from a 6-lane to an 8-lane condition, with the exception of contract 408-253B where a 10-lane section was constructed. The SMFs for these projects are permitted to treat and attenuate for the ultimate 10-lane condition. The SMF design utilizes compensatory treatment and basin diversion to attenuate at the outfalls to accommodate these improvements. This was accomplished by routing an equivalent area of impervious area along the mainline and ramps to each SMF to match the net new impervious area for each outlet and, where necessary, shift basin lines along SR 408 to an SMF or adjacent watershed in lieu of an existing outfall. The SMFs continue to discharge into the stormwater conveyance systems that are conveyed to the historical outfall within each basin. A majority of the existing SR 408 SMFs are located on the north side of the SR 408 mainline, which may be impacted by the proposed westbound widening. Refer to **Table 14** for a Summary of the Existing Treatment Facilities.

Table 14: Summary of Existing Treatment Facilities

Contract	Treatment Facility	Treatment Method	Treatment Criteria	Basin Area (ac)	Required Treatment (ac-ft)	Provided Treatment (ac-ft)	Discharge Location	Special Criteria	Comments
408-253A	Pond 1 ⁽¹⁾ (SR 408 Off-ramp to South St)	Online Dry Retention	1.25-inch over net new impervious area + 0.5-inch over basin for Online	2.87	0.36	0.44	Lake Cherokee	landlocked, permitted attenuation set for pre-post volume of the 25-yr/96-hr	Permitted under SJRWMD 92150-1 for Ult. 10-lane ⁽²⁾
	Pond 2A ⁽¹⁾ (SR 408 & Mills Ave)	Online Dry Retention		4.38	0.59	0.59	Lake Greenwood		
	Pond 2B ⁽¹⁾ (SR 408 & Mills Ave)	Online Dry Retention		4.19	0.53	0.55			
	Pond 3 ⁽³⁾ (SR 408 Off-ramp to South St)	Online Dry Retention		4.44	0.54	1.57			
	Pond 5	Online Dry Retention		17.75	2.19	4.87	Lake Underhill		Permitted under SJRWMD 92150-2 as Joint Use SMF (CFX & City of Orlando) for Ult. 10-lane ⁽²⁾
	Lake Greenwood	Expansion of existing lake	N/A, Attenuation only	33.01	--	--	Pump Station		Permitted under SJRWMD 92150-1 for Ult. 10-lane ⁽²⁾ , this artificial stormwater retention pond is exempt from water quality standards
408-253C	Pond 1	Wet Detention	Greater of: 1-inch over basin, 2.5-inch over impervious	104	10.29	13.94	Canal to Lake Barton	Little Econ Hydrologic Basin Criteria	--
	Loop Pond	Wet Detention	Greater of: 1-inch over basin, 2.5-inch over impervious	8.5	0.51	1.08	Lake Underhill Road roadside ditch to Yucatan Outfall Canal		--
	Pond F1 ⁽¹⁾	Dry Retention	N/A, Attenuation only	1.8	--	0.24	Yucatan Outfall Canal		No treatment credit taken for the dry retention infield area
408-253D	Pond A	Wet Detention	Greater of: 1-inch over basin, 2.5-inch over impervious	24.24	2.28	2.28	Yucatan Outfall	NPDES	--
	(2)-6'x7' CBC ⁽⁴⁾	Wetlands & swales	--	--	--	--			VRS south of SR 408 to treat 20% of required treatment volume for Lake Azalea Estates subdivision (SJRWMD Permit 4-095-20358-6)

Between I-4 and the Lake Underhill Toll Plaza, located within the Lake Underhill Outlet Watershed, the SMFs are designed for landlocked outfalls (closed basins) where pre-post attenuation volume calculated from the Soil Conservation Service (SCS) runoff curve number method was established utilizing the 25-year/96-hour storm event; SMFs were still allowed to discharge. From the Lake Underhill Toll Plaza to Goldenrod Road, located within the Little Econlockhatchee watershed, the project has positive outfall (open basins). These SMFs were designed for the 25-year/24-hour storm event and meet the additional criteria for the Little Econlockhatchee Hydrologic Basin.

Floodplains

The Federal Emergency Management Agency (FEMA) has determined the 100-year floodplain limits in the vicinity of the project limits in the form of Flood Insurance Rate Maps (FIRM). In Figure 4, the 100-year floodplain limits are presented from City of Orlando and Orange County Unincorporated Areas panels 12095C0245F, 12095C0265F, 12095C0270F effective 9/25/2009, with a Letter of Map Revision (LOMR) 14-04-4627P, effective 1/9/2015, located along the south side of Lake Underhill Road.

The 100-year floodplain crosses the SR 408 right of way in the location of either a bridge or cross drain that connects the floodplain on either side of the road. These locations include the bridge over Lake Lucerne near the I-4 interchange, the Fern Creek double 6-foot x 8-foot box culvert near Mills Avenue interchange, the bridge over Lake Underhill, and the Yucatan Outfall Canal double 6-foot x 7-foot box culvert. At the two bridge locations, Lake Lucerne has an established base flood elevation (BFE) of 87.7 feet NAVD88 and Lake Underhill has an established BFE of 101.4 feet NAVD88.

Fern Creek is a regulated floodway that flows from north to south through the SR 408 right of way, concluding at Lake Greenwood which is located south of and adjacent to the SR 408 right of way. From ERP data, Lake Greenwood is considered the lowest lying lake in the area. From review of the City of Orlando stormwater database (2015), Lake Greenwood has a single outfall, a pump station located at its southern most point. The BFE at the floodway entering SR 408 right of way is 74.9 feet NAVD88, with Lake Greenwood's BFE set to 74.6 feet NAVD88.

The Yucatan Outfall Canal flows from south to north to Orange County's Primary Canal system between Lake Barton to Little Econlockahatee River. The Yucatan Outfall Canal is designated as a FEMA Flood Zone A, which does not have an established BFE. The upstream basin for this cross drain includes an overflow conveyance ditch for Lake Underhill as documented within the County Stormwater database (2022) and a large wetland system (Ponding Area M9) located within the LOMR, which has an established BFE of 88.4 feet NAVD88. Within ERP 20358-18, it was noted that the (2)-6'x7' box culverts under SR 408 includes a vertical volume recovery structure along the upstream endwall, south of SR 408 to provide treatment for the Lake Azalea Estates subdivision (SJRWMD Permit 4-095-20358-6) for the Orange County NPDES permit.

Environmental

Wetlands and Other Surface Waters

An assessment of wetlands and surface waters was conducted within the project study area utilizing the 2014 St Johns River Water Management District (SJRWMD) Florida Land Use, Cover and Forms Classification System (FLUCFCS) and the National Wetland Inventory (NWI) GIS datasets. The project study area contains two (2) potential wetland areas primarily adjacent to SR 408. There are 11 additional potential surface waters, consisting of Fern Creek and 10 permitted storm water facilities. Due to the hydrologic connections of the on-site wetlands, these wetlands may fall under the jurisdiction of the SJRWMD and Florida Department of Environmental Protection (FDEP). The NWI inventory maps are depicted on **Figure 5**.

Water Resources

There are no Aquatic Preserves or Outstanding Florida Waters (OFWs) within the project study area. A review of EPA Sole Source Aquifer Protection Program maps of sole source aquifers in the southeastern United States indicated that the project study area is located within the Biscayne Sole Source Aquifer and Recharge Zone. The project will meet all applicable SJRWMD criteria related to water quality. The project is currently a non-federal action receiving no federal monies; therefore, concurrence from the EPA is not required according to the Safe Drinking Water Act. Best Management Practices (BMPs) to control erosion, sediment release, and storm water runoff to minimize adverse impacts on surface water resources will be implemented during design, permitting, and construction.

Wild and Scenic Rivers

There are no Wild and Scenic Rivers within the project study area; thus, the proposed project would have no involvement with these resources.

Floodplains

Approximately 11 acres of the ±619-acre study area (1.8%) is classified as being within the Federal Emergency Management Agency (FEMA) Flood Zone A, within the Special Flood Hazard Areas, where an established Base Flood Elevation (BFE) has been determined. Approximately 64 acres of the ±619-acre study area (10.3%) is classified as being within the FEMA Flood Zone AE, within the Special Flood Hazard Areas, where an established Base Flood Elevation has been determined. The remaining approximately 544 acres of the study area is classified as being within FEMA Flood Zone X, areas of minimal flood hazard. There is a FEMA Regulatory Floodway within the project study area at the SR 408 crossing of Fern Creek. The FEMA Flood maps are depicted on **Figure 6**.

Coastal Barrier Resources

The proposed project would have no involvement with coastal barrier resources.

Figure 5: Wetlands and Surface Water Impacts Map

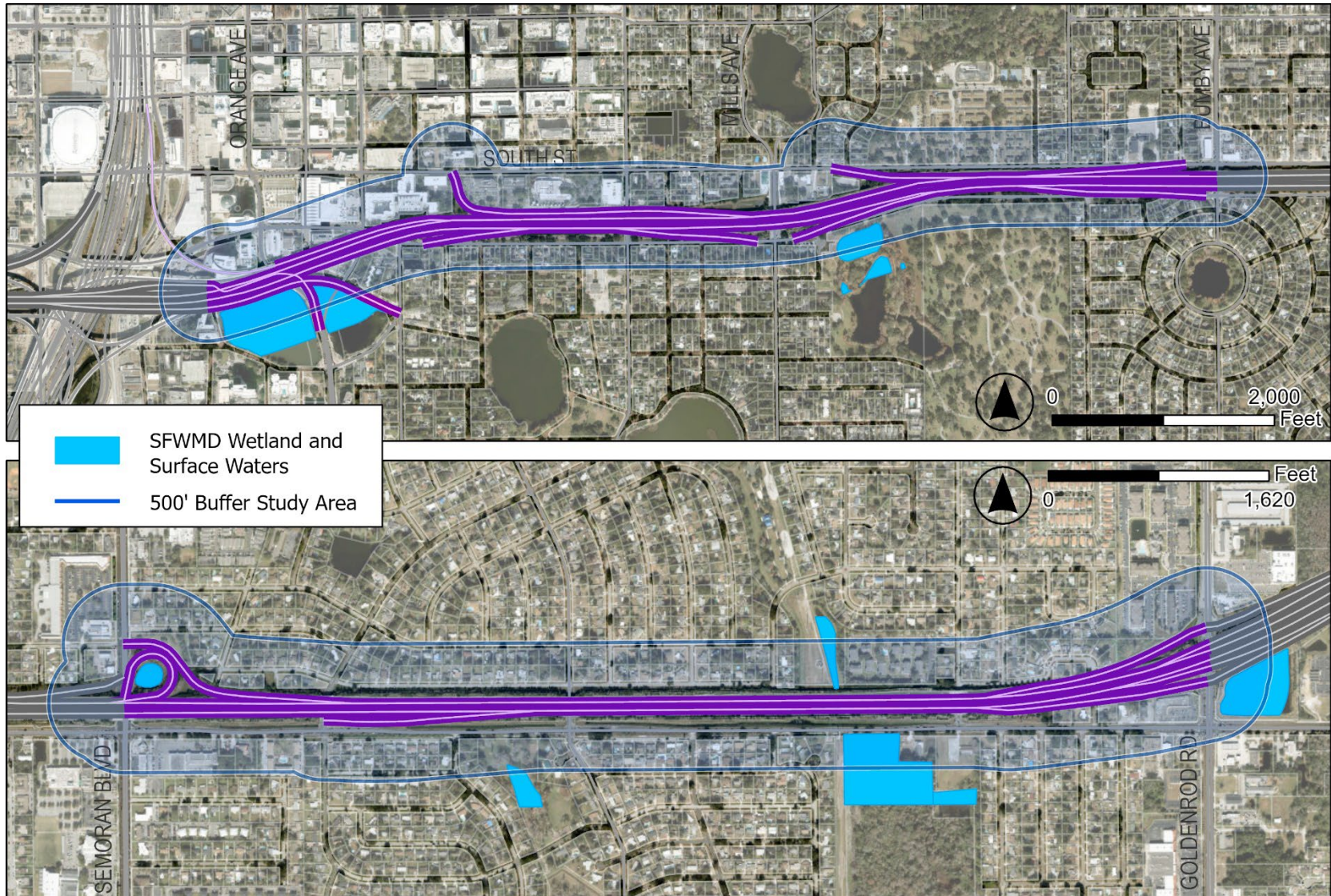
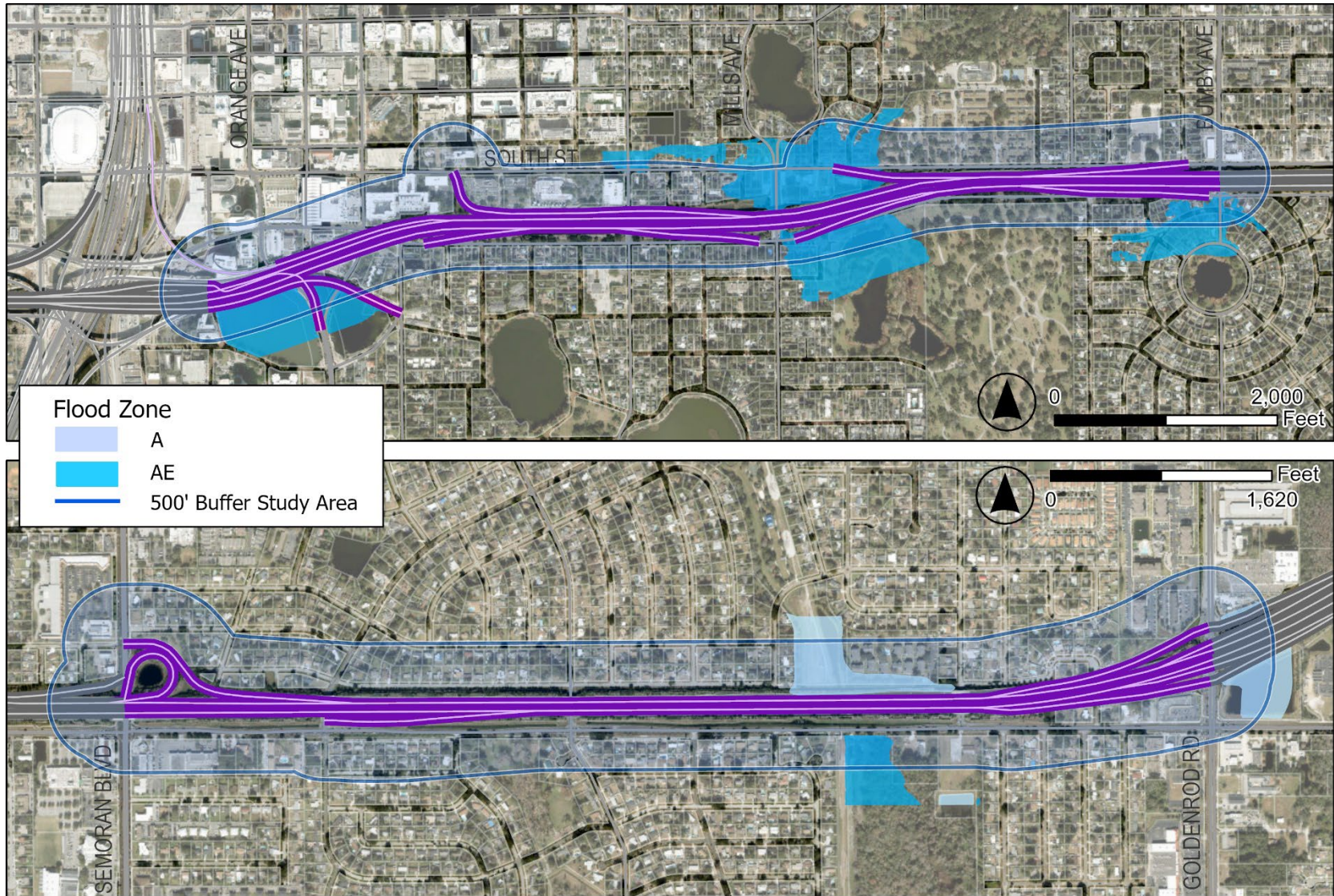


Figure 6: FEMA Flood Map



Protected Species and Habitat

A database review of potential species occurring within the project study area and immediate vicinity was conducted. Results of the database review is summarized below.

Based on a review of the USFWS Critical Habitat Mapper, there is no USFWS designated Critical Habitat within the project study area. Areas identified by FWC as Strategic Habitat Conservation Areas (SHCA) are located within the project study area. SHCAs are undeveloped natural areas identified by FWC as areas that could provide potential habitat to native plant and wildlife species and, therefore, may be considered for acquisition as conservation lands. However, these areas have no regulatory implications and have not been and may never be acquired for conservation.

Based on FNAI and USFWS IPaC data, bald eagles (*Haliaeetus leucocephalus*) have been documented near the study area; additionally, the wood stork (*Mycteria americana*) is listed as likely to occur within one (1) mile of the study area. The study area lies within the Core Foraging Area (CFA) of four (4) active wood stork colonies. The study area also lies within the USFWS Consultation Area for the Everglade snail kite (*Rostrhamus sociabilis plumbeus*), Florida scrub-jay (*Aphelocoma coerulescens*), red-cockaded woodpecker (*Picoides borealis*), and Lake Wales Ridge plants. Additional listed species with the potential to occur included the Florida sandhill crane (*Antigone canadensis pratensis*), Florida burrowing owl (*Athene cunicularia floridana*), Audubon's crested caracara (*Caracara cheriway*), bluetail mole skink (*Eumeces egregius lividus*), sand skink (*Neoseps reynoldsi*), Florida black bear (*Ursus americanus floridanus*), eastern indigo snake (*Drymarchon couperi*), red-cockaded woodpecker (*Dryobates borealis*), gopher tortoise (*Gopherus polyphemus*), eastern black rail (*Laterallus jamaicensis ssp. jamaicensis*), and Everglade snail kite (*Rostrhamus sociabilis plumbeus*). There are no known wading bird rookeries within the project study area or within one (1) mile of the study area. There are four (4) bald eagle nests within one (1) mile of the study area.

Federal Listed Fauna

Birds

Audubon's Crested Caracara

Audubon's crested caracara (caracara) is listed as threatened by USFWS and FWC. Caracaras are large, boldly patterned raptors, with a crest and unusually long legs. Caracaras are year-round residents in Florida. The species has been reported from the Kissimmee, Caloosahatchee and Upper St. Johns River basins, and the Kissimmee Prairie. The crested caracara is strongly associated with open habitats, preferring large expanses of pastures, grasslands, or prairies with numerous shallow ponds and sloughs and single or small clumps of cabbage palms, live oaks, and cypress. The caracara is an opportunistic feeder with a broad diet consisting of carrion and live prey. They forage in a wide variety of habitats including pastures, along roads, wetlands, and agricultural lands. Suitable habitat for this species is not located within the study area. According to FNAI data, this species has not been documented within one (1) mile of the project study area.

Eastern Black Rail

The eastern black rail is listed as threatened by the USFWS. Eastern black rails are small blackish-gray birds with bright red eyes that live in a wide range of wetland habitats. Eastern black rail habitat can be tidally or non-tidally influenced and range in salinity from salty to brackish to freshwater marshes. This species requires dense overhead cover and soils that are moist to saturated and interspersed with very shallow water. Suitable habitat for this species is

not located within the study area. According to FNAI data, the eastern black rail has not been documented within one (1) mile of the project study area.

Everglade Snail Kite

The Everglade snail kite (snail kite) is listed as endangered by USFWS and FWC. This species is a mid-sized raptor that can reach a length of 14.2-15.4 inches. Males are slate gray with red eyes and orange legs, which turn more reddish during breeding season. Females are brown with red eyes and yellow to orange legs, with varying amounts of white streaking on the face, neck, and chest. Snail kites have a highly specific diet, which is made up almost exclusively of apple snails (*Pomacea paludosa*). Snail kites typically prefer large, open, freshwater marshes and shallow lakes (< 4 feet deep) with a low-density of emergent vegetation and typically nest in low trees or shrubs over water (commonly willow, wax myrtle, pond apple, or buttonbush, but also in non-woody vegetation like cattail or sawgrass). Potential foraging habitat is available within the study area. Additionally, the study area is located within the USFWS Consultation Area for the snail kite. According to FNAI data, the species has not been documented within one (1) mile of the study area.

Florida Scrub-Jay

The Florida scrub-jay (scrub-jay) is listed as threatened by USFWS and FWC. Scrub-jays are similar in size and shape to their relative, the blue jay, but they differ strikingly in color pattern and exhibit subtle markings as opposed to the blue jay. They have a pale blue head, nape, wings, and tail and are pale gray on the back and belly. The Florida scrub-jay is a non-migratory species and is relatively sedentary and rarely sustains a flight of more than a kilometer. This species prefers low growing oak scrub habitats, including sand pine and scrubby flatwoods. Optimal habitat includes scrub oak with most of the oaks and other shrubs limited to ~3-12 feet in height, interspersed with numerous small patches of bare sand. Fire is a frequent natural event in scrub habitats and serves to maintain the habitat. Fire suppression and development of the habitat has made this species vulnerable to extinction. The study area is located within the USFWS Consultation Area for the scrub-jay; however, suitable habitat for this species is not located within the study area. According to FNAI data, this species has not been documented within one (1) mile of the study area.

Red-Cockaded Woodpecker

The red-cockaded woodpecker (RCW) is listed as endangered by USFWS and FWC. The RCW is a black and white bird that can reach lengths of 9 inches and a weight of 1.8 ounces. RCWs have a large white patch located on their cheek, a black head and neck, a white belly, and a barred black and white back. The red-cockaded, which is only found on the male, consists of a small red streak above the cheek and is rarely visible. RCWs inhabit open, mature pine woodlands that have a diversity of grass and shrub species. Preferred habitat includes longleaf pine flatwoods in north and central Florida and mixed longleaf pine and slash pine in south-central Florida. The RCW creates cavities within the longleaf pine tree and relies on the tree's production of resin to protect them from predators. Development of longleaf pine habitat as well as fire exclusion in this fire-dependent ecosystem has led to a large decrease in populations of RCWs. The study area is located within the USFWS Consultation Area for the RCW; however, suitable habitat for this species is not located within the study area. According to FNAI data, the RCW has not been documented within one (1) mile of the project study area.

Wood Stork

The wood stork is listed as threatened by USFWS and FWC. The wood stork is a large, long legged wading bird that reaches a length of 35-45 inches with a wingspan of 60-65 inches. Wood storks are typically found in marshes, cypress swamps, and mangrove swamps, but their

presence in artificial ponds, seasonally flooded roadside or agricultural ditches, and managed impoundments has become common. Wood stork breeding areas extend from South Florida through Georgia and along the coastal areas of South Carolina. Wood storks are known to nest with other wading bird species, including white ibis, tricolored herons, snowy egrets, and great blue herons. Foraging habitat consists of nearly any calm, shallow water area (between 4 and 10 inches) or wetland depression that concentrates fish and is not overgrown with dense, aquatic vegetation. Some examples of foraging habitat include freshwater marshes, stocked ponds, shallow ditches, narrow tidal creeks, shallow tidal pools, and depressional areas of cypress heads and swamp sloughs. According to FNAI data, no wood storks have been documented within one (1) mile of the project study area. However, there is potential suitable foraging habitat within the wetlands in the project study area, and the project study area is within the core foraging area of the Gatorland, Lake Mary Jane, Lawne Lake, and Eagle Nest Park nesting colonies.

Reptiles

Eastern Indigo Snake

The eastern indigo snake is listed as threatened by USFWS and FWC. This species is a very large, stout-bodied, shiny black snake and is widespread but uncommon in Florida. These snakes require large tracts of land for survival and are typically restricted to xeric habitats on pine-oak sandhills. Eastern indigo snakes forage in hydric habitats, often along wetland ecotones. In south Florida, preferred habitat for the eastern indigo snake includes a diverse assemblage including pine flatwoods, scrubby flatwoods, floodplain edges, sand ridges, dry glades, tropical hammocks, edges of freshwater marshes, muckland fields, coastal dunes, and xeric sandhill communities (*Eastern Indigo Snake Programmatic Effect Determination Key (South Florida) – Revised July 2017*). Eastern indigo snakes are often found in strong association with gopher tortoises but are also known to use the burrows of armadillos, cotton rats, and land crabs (in coastal areas). Potential suitable habitat for this species is available within the study area; however, according to FNAI data, no eastern indigo snakes have been documented within one (1) mile of the project study area.

Sand Skink and Bluetail Mole Skink

The sand skink is listed as threatened by USFWS and FWC. The sand skink is a small, slender, grey to light brown lizard with shiny scales that can reach a length of five inches and the bluetail mole skink (*Eumeces egregius lividus*) is a small lizard with a brownish body with a blue tail that can reach five inches in length. Skinks typically inhabit scrub, sandhill, and xeric hammock habitats located along the central ridge of Florida, from Putnam to Highlands County. Skinks are found at elevations above 82 feet and utilize 28 distinct soil types. Suitable habitat for this species was not located within the study area, and, according to FNAI data, no skinks have been documented within one (1) mile of the study area.

State Listed Fauna

Birds

Florida Burrowing Owl

The Florida burrowing owl is a small, ground-dwelling owl that is listed as threatened by the FWC. This species requires areas of short, herbaceous groundcover such as prairies, sandhills, and farmland. Burrowing owls can be found in ruderal areas such as pastures, airports, ball fields, undeveloped residential parcels, and road rights-of-ways. They often dig their own burrow and line the entrance with decorative materials prior to laying eggs at the bottom of the burrow. Suitable habitat for this species is not located within the study area, and, according to FNAI

data, no individuals of this species have been documented within one (1) mile of the study area.

Florida Sandhill Crane

The Florida sandhill crane is listed as threatened by the FWC. This species is described as a tall grey bird with a red forehead, and long neck and legs. The Florida sandhill crane is non-migratory and inhabits open grasslands, freshwater marshes, swampy edges of lakes and ponds, riverbanks, prairies, pasture lands and occasionally pine savanna throughout the state. Florida sandhill cranes typically start nesting on the margins of marshes and wet grasslands in late December and continue into June. The nests are built by both adults and generally consist of sticks, reeds, grasses and mosses. Sandhill cranes are omnivorous and have been known to feed on seeds, grains, berries, insects, earthworms, mice, small birds, snakes, lizards, frogs, and crayfish. Potential suitable foraging habitat for this species is available within the study area. However, according to FNAI data, no Florida sandhill cranes have been documented within one (1) mile of the project study area.

Reptiles

Gopher Tortoise

The gopher tortoise is listed as threatened by the FWC. This species requires well-drained and loose sandy soils for burrowing and low-growing herbs and grasses for food. These conditions are best found in the sandhill (longleaf pine-xeric oak) community, although tortoises are known to use many other habitats including sand pine scrub, xeric oak hammocks, dry prairies, pine flatwoods, and ruderal sites. Potential suitable habitat is present within the project; however, according to FNAI data, no gopher tortoises have been documented within one (1) mile of the project study area.

Non-Listed Species

Bald Eagle

The bald eagle is a large raptor with a distinctive white head and yellow bill. This species has been federally de-listed by the USFWS. However, it remains federally protected under the Bald and Golden Eagle Protection Act (BGEPA) in accordance with the 16 United States Code 668 and the Migratory Bird Treaty Act of 1918. In addition, the FWC has implemented a bald eagle management plan (FWC 2008). The bald eagle tends to utilize riparian habitat associated with coastal areas, lake shorelines, and riverbanks. Nests are generally located near water bodies that provide a dependable food source.

The Florida Audubon closely monitors nests within Florida and maintains a website of known bald eagle nest locations, which was last updated in 2022. According to this database, four (4) bald eagle nests are located within the study area. Nest OR042 is located south of SR 408 within the Greenwood Cemetery, and this nest's status was reported as unknown for the 2022 nesting season. Nest OR050b is located west of the northern terminus of Mosshart Lane and was reported as destroyed for the 2022 nesting season. Nest OR050a is located southeast of the SR 408 and Chickasaw Trail crossing and was reported as inactive for the 2022 nesting season. Nest OR050 is located east of the Chickasaw Trail and Neighborhood Market Rd intersection and was reported as occupied for the 2022 nesting season. According to FNAI data, the bald eagle has been documented within one (1) mile of the project study area.

Florida Black Bear

Black bears are adaptable and inhabit a variety of forested habitats including seasonally inundated pine flatwoods, tropical hammocks, hardwood swamps and xeric sand pine-scrub oak

communities. The Florida black bear was removed from the FWC list of state-threatened species in August 2012; however, the Florida black bear remains protected under other rules and regulations, primarily through the Florida Black Bear Conservation Rule 68A-4.009 (F.A.C.) and the FWC Florida Black Bear Management Plan. Based on these regulations, pursuing, hunting, molesting, capturing, killing, or attempting those actions, whether or not such actions result in possession of the bear is unlawful. In addition, Rule 68A-4.009, F.A.C., generally prohibits anyone from possessing, injuring, shooting, wounding, trapping, collecting, or selling bears or their parts or attempting to engage in such actions without prior authorization from FWC. Black Bear Management Units (BMU) have also been established based on the seven geographically distinct bear subpopulations in Florida. The project study area is located within the Central BMU. Based on a review of GIS databases, there are several black bear observations and one (1) roadkill reported within one (1) mile of the study area.

Utilities And Railroad

The utility agencies/owners (UAOs) in the study area were determined using a variety of sources. First, a Sunshine 811 Design Ticket (**Appendix D**) was made to identify the utility providers and operators registered in the area. These utility providers were then contacted to establish the proper personnel to assist with locating and identifying existing and planned utilities in the area. Lastly, plans, permits and/or mapping of the utilities were requested for review including any right of way or easement agreements along the affected corridors. The UAO identities on the project are summarized in **Table 15**. Additional information is provided in the **Utility Assessment Technical Memorandum** available under separate cover.

There are no railroads within the study limits.

Table 15: List of Utility Contact Information

Utility Owner	Contact	Email/Phone	Facilities
Windstream	TBD	locate.desk@windstream.com	Fiber
ATT	Marin	martin@trecgroup.com	Fiber
Black and Veatch	Chad Arnett	TBD	TBD
American Traffic Solutions	Victoris Grasser	(408) 596-4559	TBD
Centurylink	Bill McCloud	(850) 599-1444	Fiber, Telephone
City of Orlando – Water Reclamation	Michael Zeno	michael.zeno@cityoforlando.net	Water
Charter Communications	John Smith	john.smith5@charter.com	Fiber
Florida Gas Transportation	Joseph Sanchez	joseph.e.sanchez@energytransfer.com	Gas
Zayo Group	Henry Klobucar	(406) 496-6510	Fiber
Duke Energy	TBD	(407) 629-1010	Electric
MCI	TBD	investigations@verizon.com	Fiber
Crown Castle NG Fiber	TBD	fiber.dig@crowncastle.com	Fiber
Orange County – Waste Water	Marc Brown	marc.brown@ocfl.net	Sewer
Orange County – Water	Marc Brown	marc.brown@ocfl.net	Water
Orange County Public Works	Matthew Shipley	(407) 836-7814	TBD
City of Orlando - Fiber	John Falango	orlando_traffic_signal_construction@cityoforlando.net	Fiber
OUC – Fiber	Julie Leininger	(407) 434-4198	Fiber
OUC – Chilled Water	Ron Hawkins	(407) 434-2569	Water
OUC - Water	Steve Lockington	(407) 434-2568	Water
OUC – Electric	Juan Diaz	developmentservices@OUC.com	Electric
Summit Broadband	Michelle Daniel	(407) 996-1183	Fiber
TECO Peoples Gas	Joan Domning	(813) 275-3783	Gas
AT&T Distribution	Dino Farruggio	G27896@ATT.com	Fiber
EMBARQ Communication Inc.	Robert Godek	(407) 830-3421	Fiber
Uniti Fiber LLC	Charlie Croft	Charlie.croft@uniti.com	Fiber
Traffic Control Device	Patricia Vickers	(407) 869-5300 (option 168)	TBD
Sprint	Jon Baker	(352) 409-5095	TBD

Structures

There are ten existing bridges within the project limits carrying westbound traffic with potential to be impacted:

- Bridge No. 750570 – SR 408 WB to I-4 EB Ramp D
- Bridge No. 750571 – SR 408 WB to I-4 EB Ramp D-1
- Bridge No. 750242 – SR 408 WB over Summerlin Avenue
- Bridge No. 750116 – SR 408 WB over Mills Avenue
- Bridge No. 750244 – SR 408 over Bumby Avenue
- Bridge No. 750581 – SR 408 over SR 436 (Semoran Boulevard)
- Bridge No. 750126 – SR 408 WB over Yucatan Drive
- Bridge No. 750251 – SR 408 WB over Oxalis Drive
- Bridge No. 750128 – SR 408 WB over Cosmos Drive
- Bridge No. 750129 – SR 408 WB over SR 551 (Goldenrod Road)

Bridge information pertinent to the study was compiled from National Bridge Inventory Data and field verified. A description of each bridge is provided below:

SR 408 WB to I-4 EB Ramp D (Bridge No. 750570)

The existing bridge was constructed in 2008 and consists of ten spans comprised of either prestressed concrete box girders or steel continuous box girders and both have a concrete deck superstructure. The maximum span length is 220.0 feet and the total bridge length is 1,911.0 feet. The minimum vertical clearance is 26.7 feet. The existing bridge provides two travel lanes and shoulders on each side. The total width of the deck from edge to edge is 45.0 feet. The inspection report dated June 2020 states that the bridge has a sufficiency rating of 97.3. The inspection report also indicated the superstructure and substructure have an overall rating of Very Good (8 out of 9) and the deck has an overall rating of Good (7 out of 9).

SR 408 WB to I-4 EB Ramp D-1 (Bridge No. 750571)

The existing bridge was constructed in 2008 and consists of seven spans comprised of steel continuous box girders and concrete deck superstructure. The maximum span length is 230.0 feet and the total bridge length is 1,447.0 feet. The minimum vertical clearance is 16.1 feet. The existing bridge provides one travel lane and shoulders on each side. The total width of the deck from edge to edge is 36.6 feet. The inspection report dated June 2020 states that the bridge has a sufficiency rating of 97.3. The inspection report also indicated the superstructure and substructure have an overall rating of Very Good (8 out of 9) and the deck has an overall rating of Good (7 out of 9).

SR 408 over Summerlin Avenue (Bridge No. 750242)

The existing bridge was constructed in 1973 and consists of three spans with prestressed concrete girders and a concrete deck superstructure. The maximum span length is 94.0 feet and the total bridge length is 166.0 feet. The vertical clearance over Summerlin Avenue is 16.2 feet. The existing bridge provides three travel lanes, one auxiliary lanes, and shoulders on each side for westbound traffic and five travel lanes, one auxiliary lane, and shoulders on each side for eastbound traffic. The total width of the deck from edge to edge is 174.3 feet. The inspection report dated April 2021 states that the bridge has a sufficiency rating of 67.0. The inspection report also indicated the deck, superstructure, and substructure have an overall rating of Good (7 out of 9).

SR 408 WB over Mills Avenue (Bridge No. 750116)

The existing bridge was constructed in 1973 and consists of four spans with prestressed concrete girders and a concrete deck superstructure. The maximum span length is 59.2 feet and the total bridge length is 203.4 feet. The vertical clearance over Mills Avenue is 16.4 feet. The existing bridge provides five travel lanes with shoulders on each side. The total width of the deck from edge to edge is 95.1 feet. The inspection report dated October 2021 states that the bridge has a sufficiency rating of 92.3. The inspection report also indicated that the deck, superstructure, and substructure have an overall rating of Good (7 out of 9).

SR 408 over Bumby Avenue (Bridge No. 750244)

The existing bridge was constructed in 1973 and consists of four spans with prestressed concrete girders and a concrete deck superstructure. The maximum span length is 59.0 feet and the total bridge length is 191.5 feet. The vertical clearance over Bumby Avenue is 16.3 feet. The existing bridge provides four travel lanes and shoulders on each side for westbound traffic and five travel lanes and shoulders on each side for eastbound traffic. The total width of the deck from edge to edge is 173.0 feet. The inspection report dated April 2021 states that the bridge has a sufficiency rating of 81.1. The inspection report also indicated the deck, superstructure, and substructure have an overall rating of Good (7 out of 9).

SR 408 over SR 436 (Semoran Boulevard) (Bridge No. 750581)

The existing bridge was constructed in 2007 and consists of a single span of steel plate girders and concrete deck superstructure. The maximum span length is 157.0 feet and the total bridge length is 159.0 feet. The minimum vertical clearance is 20.2 feet. The existing bridge provides eight travel lanes, two auxiliary lanes, and shoulders on each side. The total width of the deck from edge to edge is 177.0 feet. The inspection report dated March 2021 states that the bridge has a sufficiency rating of 100.0. The inspection report also indicated the superstructure, substructure, and deck have an overall rating of Very Good (8 out of 9).

SR 408 WB over Yucatan Drive (Bridge No. 750126)

The existing bridge was constructed in 1973 and consists of three spans with prestressed concrete girders and a concrete deck superstructure. The maximum span length is 61.0 feet and the total bridge length is 127.7 feet. The vertical clearance over Yucatan Drive is 16.4 feet. The existing bridge provides four travel lanes, one auxiliary lane, and shoulders on each side. The total width of the deck from edge to edge is 83.0 feet. The inspection report dated April 2021 states that the bridge has a sufficiency rating of 95.9. The inspection report also indicated that the deck, superstructure, and substructure have an overall rating of Good (7 out of 9).

SR 408 WB over Oxalis Drive (Bridge No. 750251)

The existing bridge was constructed in 1973 and consists of three spans with prestressed concrete girders and a concrete deck superstructure. The maximum span length is 57.4 feet and the total bridge length is 126.0 feet. The vertical clearance over Oxalis Drive is 15.4 feet. The existing bridge provides four travel lanes and shoulders on each side. The total width of the deck from edge to edge is 70.5 feet. The inspection report dated April 2021 states that the bridge has a sufficiency rating of 92.3. The inspection report also indicated the deck, superstructure, and substructure have an overall rating of Good (7 out of 9).

SR 408 WB over Cosmos Drive (Bridge No. 750128)

The existing bridge was constructed in 1973 and consists of three spans with prestressed concrete girders and a concrete deck superstructure. The maximum span length is 57.4 feet and the total bridge length is 130.9 feet. The vertical clearance over Cosmos Drive is 15.0 feet. The existing bridge provides four travel lanes, two auxiliary lanes, and shoulders on each side.

The total width of the deck from edge to edge is 94.2 feet. The inspection report dated February 2022 states that the bridge has a sufficiency rating of 94.7. The inspection report also indicated that the deck, superstructure, and substructure have an overall rating of Good (7 out of 9).

SR 408 WB over SR 551 (Goldenrod Road) (Bridge No. 750129)

The functionally obsolete existing bridge was constructed in 1973 and consists of four spans with prestressed concrete girders and a concrete deck superstructure. The maximum span length is 63.0 feet and the total bridge length is 201.0 feet. The vertical clearance over Goldenrod Road is 15.9 feet. The existing bridge provides four travel lanes, one auxiliary lane, and shoulders on each side. The total width of the deck from edge to edge is 84.7 feet. The inspection report dated May 2022 states that the bridge has a sufficiency rating of 90.6. The inspection report also indicated superstructure, and substructure have an overall rating of Good (7 out of 9) while the deck has an overall rating of Satisfactory (6 out of 9).

Lighting

SR 408, from I-4 to Bumby Avenue

The segment of SR 408 from I-4 to Bumby Avenue has conventional light poles on both sides of the roadway. These poles appear to be spaced approximately 200 feet apart. There are LED luminaires on rounded cobra head arms that extend off the pole upright. The conventional light poles and luminaires are painted black. Along the bridge sections of SR 408, the poles are mounted to the bridge. Near the Rosalind Avenue exit, the poles are installed on the ground behind guardrail or mounted to the barrier wall. All poles are fed by underground or bridge mounted/embedded conduit.

SR 408, from Semoran Boulevard to Goldenrod Road

There are conventional light poles along SR 408 from Semoran Boulevard to Goldenrod Road spaced approximately 150-200 feet apart. These light poles have LED luminaires on cobra head arms that extend off the pole upright. Some poles are ground mounted, while others are mounted to the bridge sections of the roadway. There are no light poles in the median, and all poles and fixtures are painted black. Light pole power sources appear to be underground or routed through bridge mounted/embedded conduit.

Intelligent Transportation Systems

SR 408, from I-4 to Bumby Avenue

The ITS configuration along SR 408 includes two (2) 72-count single mode backbone Fiber Optic Cables (FOC) buried along both sides of the mainline expressway, under the eastbound shoulder and the westbound shoulders, for the entire limits of the analysis area. They do not extend along the ramps to Interstate-4.

Within the analysis area, there are multiple closed-circuit television (CCTV) cameras, microwave vehicle detection systems (MVDS), automatic vehicle identification (AVI), dynamic message signs (DMS), and wrong way detection systems (WWDS). These devices are summarized in the **Table 16** below based on mile marker location:

Table 16: Existing ITS Inventory - I-4 to Bumby Avenue

<p>AVI-408- I4-WB and MVDS- 408- 10.6-WB</p>	
<p>WWDS- 408- Exit11A- WB</p>	



TMS-
408-
Exit11A-
WB



AVI-408-
10.9-WB
and
TMS-
408-
10.9-WB



DMS-
408-
11.2-WB



WWDS-
408-
Exit11B-
WB





CCTV-
408-
11.3-
WB,
AVI-408-
11.3-
WB, and
MVDS-
408-
11.3-WB



MVDS-
408-
11.6-WB



DMS-
408-
11.7-WB



CCTV-
408-
11.8-WB



SR 408, from Semoran Boulevard to Goldenrod Road

The ITS configuration along SR 408 includes two (2) 72-count single mode backbone Fiber Optic Cables (FOC) buried along both sides of the mainline expressway, under the eastbound shoulder and the westbound shoulders, for the entire limits of the analysis area.

Within the analysis area, there are multiple closed-circuit television (CCTV) cameras, microwave vehicle detection systems (MVDS), automatic vehicle identification (AVI), dynamic message signs (DMS), and wrong way detection systems (WWDS). These devices are summarized in the **Table 17** below based on mile marker location:

Table 17: Existing ITS Inventory - Semoran Boulevard to Goldenrod Road

<p>WWDS-408-Exit14-WB</p>	
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CCTV-408-14.4-WB, MVDS-408-14.4A-WB, and MVDS-408-14.4B-WB



AVI-408-14.5-WB, MVDS-408-14.5-WB, and MVDS-408-14.5-EB





DMS-
408-
15.2-WB



CCTV-
408-
15.4-WB



MVDS-
408-
15.9-WB



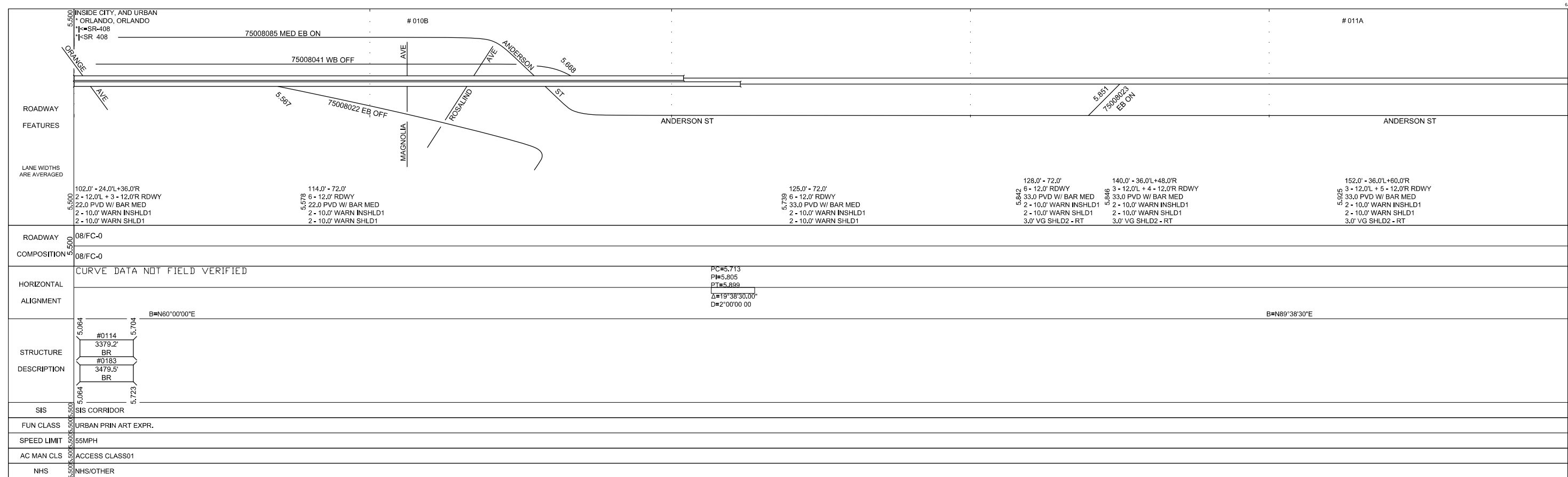
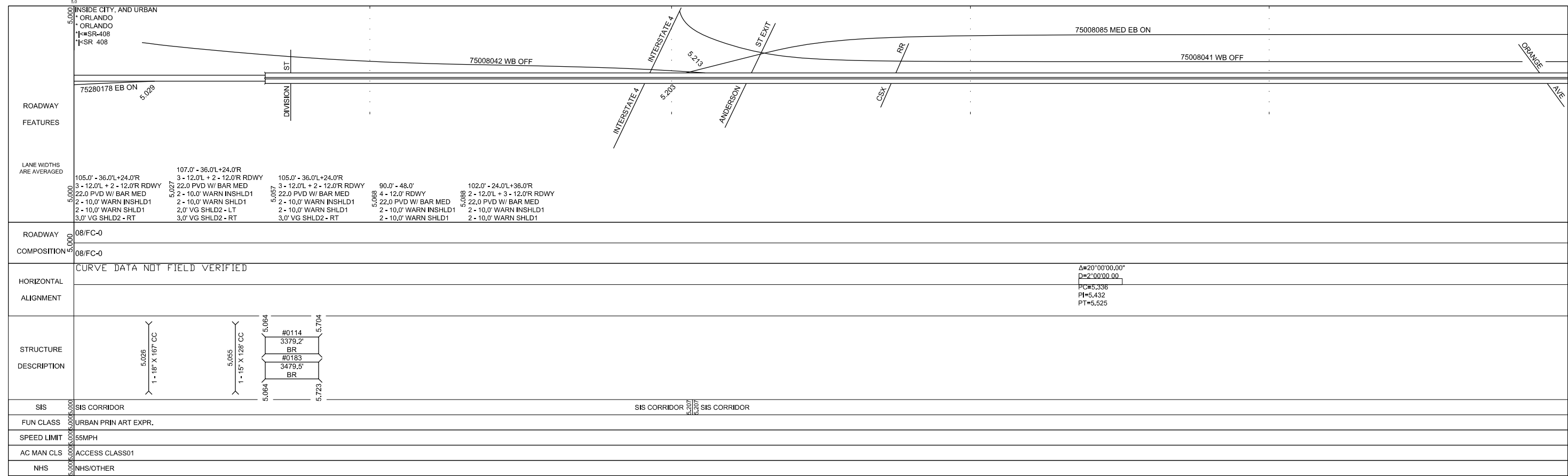
Geotechnical

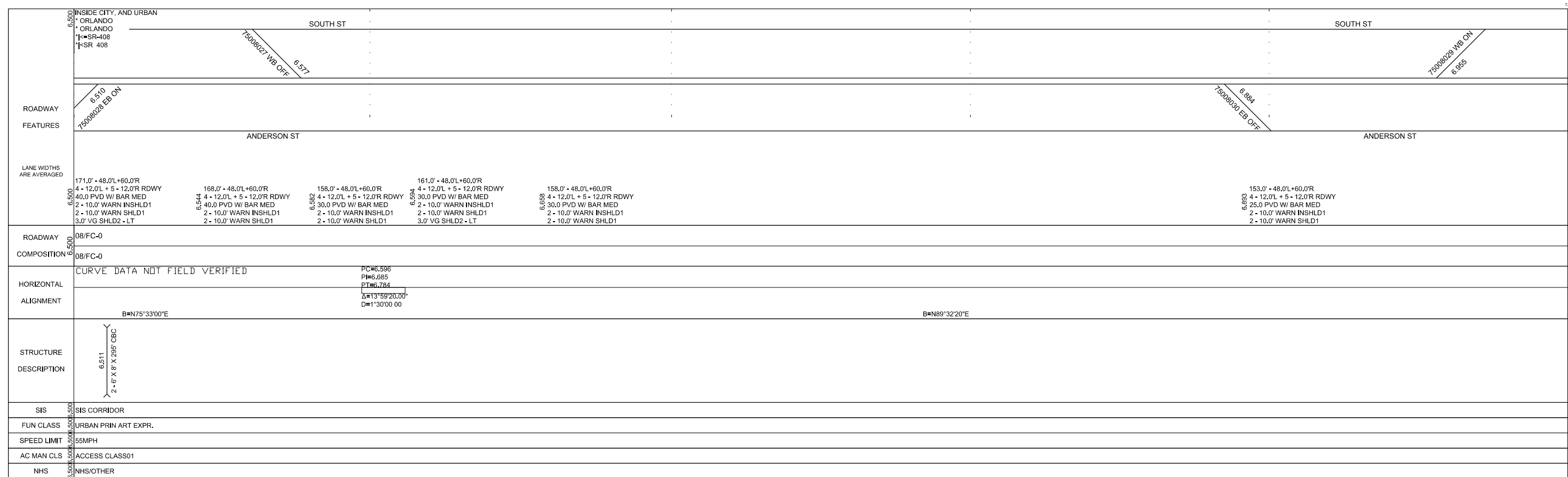
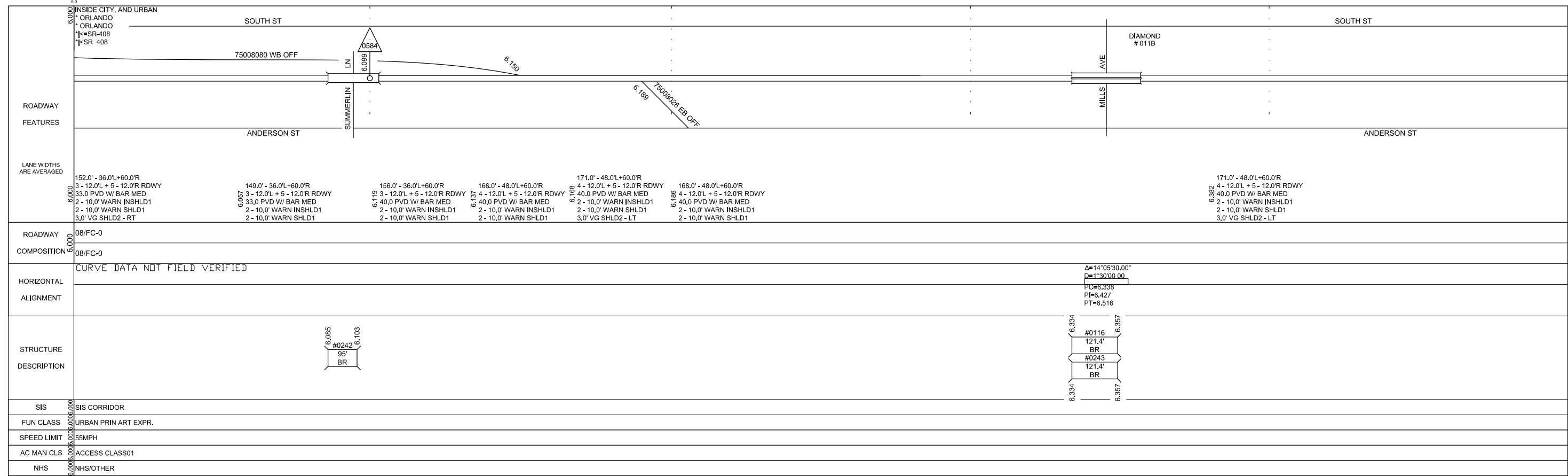
Based on review of available documents, the USGS Quadrangle Map, the NRCS Orange County Soil Survey and current plans to prepare this memorandum, the following observations are noted.

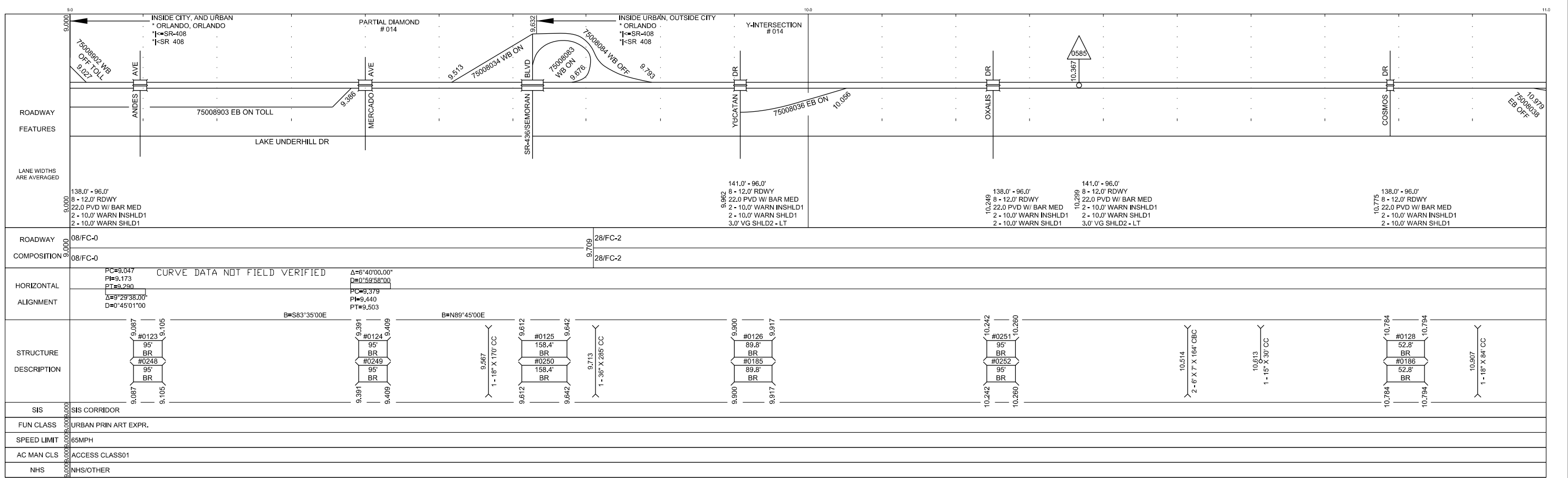
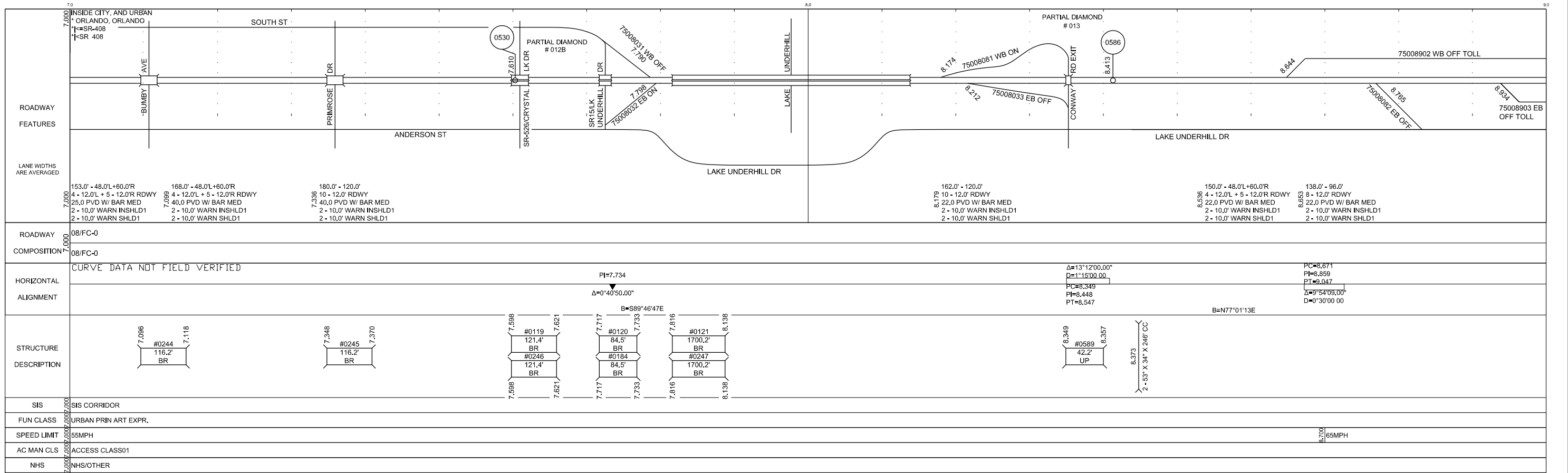
- Natural ground surface topography varies from +75 to +110 feet NGVD from I-4 to Bumby Avenue and from +90 to +100 feet NGVD from Semoran Boulevard to Goldenrod Road.
- Land use in both project areas is primarily residential and light commercial.
- Near surface soils for both segments are primarily poorly drained sandy soils. The segment from Semoran Boulevard to Goldenrod Road contains organic muck soils (soil type 41).
- The muck soils were likely removed for the original SR 408 construction.
- Groundwater depth varies based on topography but is generally within 5 feet of natural grade.
- Review of available plans indicate the bridges were originally supported on 18-inch precast piles extending 50 to 100 feet below natural grade.
- Piles for the inside widening that was performed about 15 years ago utilized steel HP piles, extending 80 to 120 feet below natural grade.
- Geotechnical considerations include exploration for highly compressible organic muck soils, evaluation of variable groundwater conditions and deep Standard Penetration Test (SPT) borings for bridge foundation design.
- Bridges should be supported on a deep driven pile substructure due to Karst environment and likely high Factored Loads required.
- Dry stormwater ponds may be feasible depending on pond location, the presence of the clay confining layer and groundwater levels.

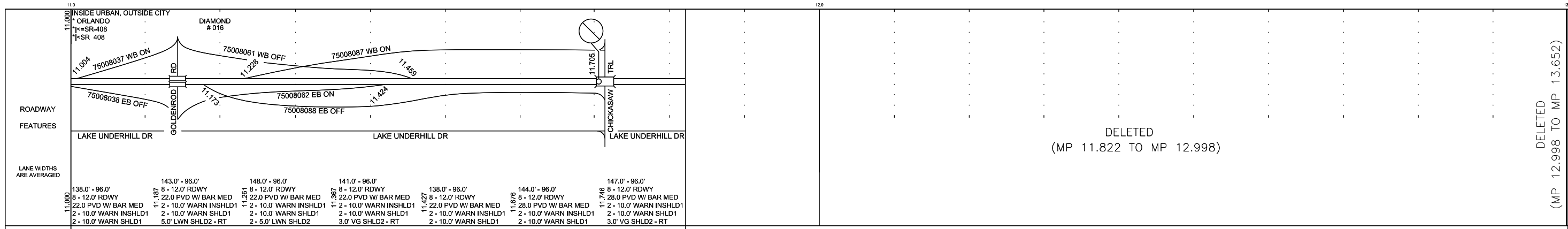
The Existing Geotechnical Conditions Technical Memorandum is provided as **Appendix E**.

Appendix A – Straight Line Diagrams









ROADWAY	28/FC-2
COMPOSITION	28/FC-2
HORIZONTAL ALIGNMENT	
STRUCTURE DESCRIPTION	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>11.132</p> <p>#0129 110.9' BR</p> <p>#0253 110.9' BR</p> <p>11.153</p> </div> <div style="text-align: center;"> <p>11.703</p> <p>#0337 121.4' UP</p> <p>11.726</p> </div> </div>
SIS	SIS CORRIDOR
FUN CLASS	URBAN PRIN ART EXPR.
SPEED LIMIT	65MPH
AC MAN CLS	ACCESS CLASS01
NHS	NHS/OTHER

ROADWAY FEATURES	DELETED (MP 12.998 TO MP 13.652)
LANE WIDTHS ARE AVERAGED	
ROADWAY COMPOSITION	
HORIZONTAL ALIGNMENT	
STRUCTURE DESCRIPTION	
SIS	
FUN CLASS	
SPEED LIMIT	
AC MAN CLS	
NHS	

DELETED
(MP 11.822 TO MP 12.998)

END MP: 011.822
NET ROADWAY ID LENGTH: 11.440
STATE MAINTAINED LENGTH: 11.440

DELETED
(MP 12.998 TO MP 13.652)

Appendix B – Historic Traffic Count

FLORIDA DEPARTMENT OF TRANSPORTATION
 TRANSPORTATION STATISTICS OFFICE
 2021 HISTORICAL AADT REPORT

COUNTY: 75 - ORANGE

SITE: 0584 - SR-408, 0.3 MI. W OF SR-15 (MILLS AVE.) (UV)

YEAR	AADT		DIRECTION 1		DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2021	149000	S	E 72500		W 76500	8.00	53.20	3.20
2020	152000	F	E 74000		W 78000	8.00	53.00	3.00
2019	159500	C	E 77500		W 82000	8.00	52.60	4.50
2018	94500	S	E 28500		W 66000	9.00	53.20	4.20
2017	93000	F	E 28000		W 65000	9.00	52.60	4.40
2016	91000	C	E 27500		W 63500	8.50	52.50	3.80
2015	114000	F	E 57000		W 57000	8.50	53.20	6.00
2014	112000	C	E 56000		W 56000	8.50	53.20	13.80
2013	95000	C	E 44500		W 50500	8.50	53.30	11.30
2012	108000	C	E 54000		W 54000	8.50	52.90	14.40
2011	99500	C	E 51000		W 48500	8.50	52.70	9.40
2010	103000	C	E 52000		W 51000	8.87	52.83	13.10
2009	101500	C	E 52000		W 49500	8.79	53.70	10.30
2006	118000	S	E 58000		W 60000	8.59	53.01	6.30

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
 S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
 V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

FLORIDA DEPARTMENT OF TRANSPORTATION
 TRANSPORTATION STATISTICS OFFICE
 2021 HISTORICAL AADT REPORT

COUNTY: 75 - ORANGE

SITE: 2167 - RAMP FROM SR-408 WB TO I-4 EB

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2021	13000 S	0	0	8.00	99.90	6.20
2020	13500 F	0	0	8.00	99.90	5.50
2019	14000 C	W 14000	0	8.00	99.90	4.10
2018	30000 R	0	0	9.00	99.90	5.80
2017	29500 T	0	0	9.00	99.90	6.20
2016	29000 S	0	0	9.00	99.90	6.00
2015	28500 F	0	0	9.00	99.90	7.20
2014	28000 C	W 28000	0	9.00	99.90	5.70

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
 S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
 V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

FLORIDA DEPARTMENT OF TRANSPORTATION
 TRANSPORTATION STATISTICS OFFICE
 2021 HISTORICAL AADT REPORT

COUNTY: 75 - ORANGE

SITE: 2176 - RAMP FROM SR-408 WB TO SOUTH STREET

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2021	9300 S	0	0	8.00	99.90	6.20
2020	9500 F	0	0	8.00	99.90	5.50
2019	10000 C	W 10000	0	8.00	99.90	4.10
2018	4600 S	0	0	9.00	99.90	5.80
2017	4500 F	0	0	9.00	99.90	6.20
2016	4400 C	W 4400	0	9.00	99.90	6.00
2015	3900 F	0	0	9.00	99.90	7.20
2014	3800 C	W 3800	0	9.00	99.90	5.70

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
 S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
 V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

FLORIDA DEPARTMENT OF TRANSPORTATION
 TRANSPORTATION STATISTICS OFFICE
 2021 HISTORICAL AADT REPORT

COUNTY: 75 - ORANGE

SITE: 2156 - RAMP FROM SR-408 WB TO SOUTH STREET

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2021	5000 S	0	0	8.00	99.90	6.20
2020	5100 F	0	0	8.00	99.90	5.50
2019	5400 C	W 5400	0	8.00	99.90	4.10
2018	12000 S	0	0	9.00	99.90	5.80
2017	12000 F	0	0	9.00	99.90	6.20
2016	11500 C	W 11500	0	9.00	99.90	6.00
2015	12000 F	0	0	9.00	99.90	7.20
2014	12000 C	W 12000	0	9.00	99.90	5.70

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
 S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
 V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

FLORIDA DEPARTMENT OF TRANSPORTATION
 TRANSPORTATION STATISTICS OFFICE
 2021 HISTORICAL AADT REPORT

COUNTY: 75 - ORANGE

SITE: 2158 - RAMP FROM SOUTH STREET TO SR-408 WB

YEAR	AADT	DIRECTION 1		DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2021	8200 S		0	0	8.00	99.90	6.20
2020	8400 F		0	0	8.00	99.90	5.50
2019	8800 C	W	8800	0	8.00	99.90	4.10
2018	7800 S		0	0	9.00	99.90	5.80
2017	7700 F		0	0	9.00	99.90	6.20
2016	7500 C	W	7500	0	9.00	99.90	6.00
2015	6700 F		0	0	9.00	99.90	7.20
2014	6600 C	W	6600		9.00	99.90	5.70

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
 S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
 V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

FLORIDA DEPARTMENT OF TRANSPORTATION
 TRANSPORTATION STATISTICS OFFICE
 2021 HISTORICAL AADT REPORT

COUNTY: 75 - ORANGE

SITE: 0585 - SR-408, 0.68 MI. E OF SR-436 (UV)

YEAR	AADT		DIRECTION 1		DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2021	136500	S	E 67000		W 69500	9.00	53.20	3.20
2020	139500	F	E 68500		W 71000	9.00	53.00	3.00
2019	146500	C	E 72000		W 74500	9.00	52.60	4.50
2018	130500	S	E 64000		W 66500	9.00	53.20	4.20
2017	128500	F	E 63000		W 65500	9.00	52.60	4.40
2016	125500	C	E 61500		W 64000	8.50	52.50	3.80
2015	112500	F	E 55000		W 57500	8.50	53.20	6.00
2014	110500	C	E 54000		W 56500	8.50	53.20	7.20
2013	134500	C	E 65500		W 69000	8.50	53.30	4.50
2012	86000	C	E 45000		W 41000	8.50	52.90	5.50
2011	97000	S	E 48000		W 49000	8.50	52.70	4.80
2010	97000	F	E 48000		W 49000	8.87	52.83	4.00
2009	99000	C	E 49000		W 50000	8.79	53.70	3.80
2008	93500	S	E 44500		W 49000	8.80	53.99	9.30
2007	95500	F	E 45500		W 50000	8.63	54.08	5.40
2006	94500	C	E 45000		W 49500	8.59	53.01	6.00

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
 S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
 V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

SR 408 - I-4 to Bumby Ave

Signal 4 Crash Data

REPORT_NUMBER	CRASH_DATE_AND_TIME	ON_STREET_ROAD_HIGHWAY	FROM_INTERSECTION_OF	LIGHT_CONDITION	WEATHER	ROAD_SURFACE	TYPE_OF_I	FIRST_HARMFUL_EVENT	S4_CRASH_S4_CRASH_S4_CRASH_S4_CRASH_S4_DAY_OF_WEEK	S4_INJURY	S4_FATALITY	S4_IS_PEDIS	S4_IS_BICY				
24068500	11/4/2020 9:51	SR 408 WEST	S ROSALIND AVE EXIT RAMP	Daylight	Clear	Dry	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	No Injury	No Injury	DAY	0	0	N	N
24069020	11/4/2020 16:30	SR 408 WBO	I4 WBO/EBO (SR 400) EXIT RAMP	Daylight	Clear	Dry	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	No Injury	No Injury	DAY	0	0	N	N
24424729	7/8/2021 18:35	SR 408 WB	S BUMBY AV ENTRANCE RAMP	Daylight	Clear	Dry	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	No Injury	No Injury	DAY	0	0	N	N
24427999	9/10/2021 15:05	SR 408 WBO	S MILLS AVE3	Daylight	Clear	Dry	Sideswipe	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24425990	9/14/2021 7:30	SR 408 WBO	ROSALIND AVE	Daylight	Clear	Dry	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	No Injury	No Injury	DAY	0	0	N	N
89822970	3/9/2020 7:28	SR 408 WBO	MILLS AV EXIT RAMP	Dawn	Cloudy	Dry	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	No Injury	No Injury	DAY	0	0	N	N
24067009	9/22/2020 7:35	SR 408 WBO	ROSALIND AV EXIT RAMP	Dawn	Cloudy	Dry	Sideswipe	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24744879	11/19/2021 6:25	SR 408 WBO	ROSALIND ST EXIT RAMP	Dawn	Cloudy	Dry	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	No Injury	No Injury	NIGHT	0	0	N	N
86615418	12/15/2016 9:07	SR 408 WBO	ROSALIND AV EXIT RAMP	Daylight	Cloudy	Dry	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	Injury	Possible Inj	DAY	1	0	N	N
86978439	4/17/2017 8:49	SR408 (EW WBO)	S MILLS AVE	Daylight	Cloudy	Dry	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	No Injury	No Injury	DAY	0	0	N	N
87939495	7/20/2018 12:50	SR 408 WEST	INTERSTATE 4 WEST (SR 400) EXITRAMP	Daylight	Cloudy	Dry	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	No Injury	No Injury	DAY	0	0	N	N
88908735	12/27/2018 12:00	SR 408 WBO	SR 408 WBO EXIT RAMP TO I4 WB	Daylight	Cloudy	Dry	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	No Injury	No Injury	DAY	0	0	N	N
88913836	4/19/2019 14:21	408 WBO	ROSALIND AVE	Daylight	Cloudy	Dry	Sideswipe	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24419644	3/18/2021 8:34	SR 408 WBO	BUMBY AV ENTRANCE RAMP	Daylight	Cloudy	Dry	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	No Injury	No Injury	DAY	0	0	N	N
24427522	9/16/2021 17:15	SR 408 WEST	I4 EAST EXIT RAMP	Daylight	Cloudy	Dry	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	No Injury	No Injury	DAY	0	0	N	N
88909735	1/31/2019 8:03	SR 408 (E/W EXPRESSWAY)	SR 400 (INTERSTATE 4)	Dusk	Cloudy	Dry	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	No Injury	No Injury	DAY	0	0	N	N
89215731	9/1/2019 21:29	EAST WEST EXPRESSWAY (S)	ROSALIND AVE (EXIT 11A)	Dark - Light	Clear	Wet	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	Injury	Possible Inj	NIGHT	1	0	N	N
89213865	6/29/2019 17:20	EAST WEST EXPRESSWAY (N)	S ROSALIND AVE	Daylight	Clear	Wet	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	Injury	Possible Inj	DAY	1	0	N	N
84481643	10/4/2018 15:35	SR408 WB	INTERSTATE 4	Daylight	Cloudy	Wet	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	Injury	Possible Inj	DAY	5	0	N	N
86977390	3/14/2017 8:40	SR 408 WBO	MILLS AVE EXIT RAMP	Daylight	Cloudy	Wet	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	No Injury	No Injury	DAY	0	0	N	N
86404971	3/24/2016 21:34	SR 408	I4 EASTBOUND ON RAMP	Dark - Light	Rain	Wet	Sideswipe	Motor Vehicle in Transport	Single Vehi	Other	Injury	Possible Inj	NIGHT	1	0	N	N
86119086	2/6/2016 18:22	EW WBO	S MILLS AV	Dark - Light	Rain	Wet	Sideswipe	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
87939692	7/25/2018 19:50	EW WBO	MILLS AV	Dark - Light	Rain	Wet	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	No Injury	No Injury	NIGHT	0	0	N	N
89213834	7/12/2019 21:45	SR 408 WESTBOUND	ROSALIND AVENUE EXIT RAMP	Dark - Light	Rain	Wet	Sideswipe	Motor Vehicle in Transport	Single Vehi	Other	No Injury	No Injury	NIGHT	0	0	N	N
24066535	9/27/2020 20:50	S.R 408	MILLS AVE	Dark - Light	Rain	Wet	Sideswipe	Motor Vehicle in Transport	Single Vehi	Other	No Injury	No Injury	NIGHT	0	0	N	N
24066866	9/20/2020 14:10	SR 408 WESTBOUND	I-4 ENTRANCE RAMP	Daylight	Rain	Wet	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	Injury	Possible Inj	DAY	1	0	N	N
24743838	10/28/2021 11:37	SR 408 WEST	ROSALIND AVE	Daylight	Rain	Wet	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	Injury	Possible Inj	DAY	1	0	N	N
87735402	4/15/2018 15:40	EAST/WEST EXPRESSWAY (S)	ROSALIND AVENUE OFF RAMP EXIT	Daylight	Rain	Wet	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	No Injury	No Injury	DAY	0	0	N	N
88916420	5/14/2019 14:15	EAST/WEST EXPRESSWAY (S)	MILLS AVE	Daylight	Rain	Wet	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	No Injury	No Injury	DAY	0	0	N	N
89824435	4/24/2020 17:54	SR 408 WEST	EXIT RAMP TO I4 WEST	Daylight	Rain	Wet	Sideswipe	Motor Vehicle in Transport	Same Direc	Sideswipe	No Injury	No Injury	DAY	0	0	N	N
24426494	8/25/2021 18:37	SR 408 WEST BOUND		Daylight	Clear	Dry	Sideswipe	Parked Motor Vehicle	Single Vehi	Other	No Injury	No Injury	DAY	0	0	N	N
24067711	11/15/2020 18:59	SOUTH ST	408 W	Dark - Light	Clear	Dry	Unknown	Motor Vehicle in Transport	Unknown	Unknown	No Injury	No Injury	DAY	0	0	N	N

SR 408 - Semoran Blvd to Goldenrod Road

Signal 4 Crash Data

CRASH_DATE_AND_TIME	ON_STREET_ROAD_HIGHWAY	DIRECTION FROM_INTERSECTION_OF	LIGHT_CONDITION	WEATHER	ROAD_SURFACE	TYPE_OF_IMPACT	FIRST_HARMFUL_EVENT	WORK_ZONE	S4_CRASH_S4_CRASH_S4_CRASH_S4_DAY_OIS4_INJURY_S4_FATALIS4_IS_PEDIS4_IS_BICY
5/12/2018 20:46	SR-551 (GOLDENROD RD)	West SR 408	Dark - Light	Clear	Dry	Angle	Motor Vehicle in Transport	N	Left Enterir Left Turn No Injury NIGHT 0 0 N N
9/27/2016 14:52	GOLDENROD ROAD	South STATE ROAD 408	Daylight	Clear	Dry	Angle	Motor Vehicle in Transport	N	Left Enterir Left Turn No Injury DAY 0 0 N N
10/1/2016 8:30	STATE ROAD 551	West STATE ROAD 408	Daylight	Clear	Dry	Angle	Motor Vehicle in Transport	N	Left Enterir Left Turn No Injury DAY 0 0 N N
2/20/2018 10:30	STATE ROAD 551 (GOLDENROD ROAD)	South STATE ROAD 408(EAST-WEST EXPRESSWAY)	Daylight	Clear	Dry	Angle	Motor Vehicle in Transport	N	Left Enterir Left Turn No Injury DAY 0 0 N N
6/10/2018 12:13	GOLDENROD RD	West STATE ROAD 408 WESTBOUND OFF RAMP	Daylight	Clear	Dry	Angle	Motor Vehicle in Transport	N	Left Rear Left Turn No Injury DAY 0 0 N N
8/3/2018 6:30	GOLDENROD RD	East STATE ROAD 408 EASTBOUND RAMP	Daylight	Clear	Dry	Angle	Motor Vehicle in Transport	N	Left Enterir Left Turn No Injury NIGHT 0 0 N N
12/5/2018 9:27	STATE ROAD 551 (GOLDENROD ROAD)	STATE ROAD 408 (EAST WEST EXPRESSWAY)	Daylight	Clear	Dry	Angle	Motor Vehicle in Transport	N	Left Enterir Left Turn No Injury DAY 0 0 N N
6/6/2016 4:14	EW WBO	West S SEMORAN BV	Dark - Light	Clear	Dry	Angle	Motor Vehicle in Transport	N	Single Vehi Other No Injury NIGHT 0 0 N N
8/22/2019 6:19	STATE ROAD 408 WB MM16	East STATE ROAD 551	Dawn	Clear	Dry	Angle	Motor Vehicle in Transport	N	Backed Intc Other Injury NIGHT 1 0 N N
10/1/2017 19:56	STATE ROAD 408 WB MM16	West STATE ROAD 551	Dark - Light	Clear	Dry	Angle	Motor Vehicle in Transport	N	Same Direc Sideswipe No Injury NIGHT 0 0 N N
3/2/2016 10:23	SR 408 (EW WBO)	West SR 436 (S SEMORAN BV) EXIT RAMP	Daylight	Clear	Dry	Angle	Motor Vehicle in Transport	N	Same Direc Sideswipe Injury DAY 1 0 N N
6/26/2019 8:52	SR 408 WEST	East ENTRANCE RAMP FROM SR 436 (S SEMORAN BV)	Daylight	Clear	Dry	Angle	Motor Vehicle in Transport	N	Same Direc Sideswipe Injury DAY 1 0 N N
2/28/2016 12:45	STATE ROAD 551 (GOLDENROD ROAD)	South STATE ROAD 408 (EAST-WEST EXPY)	Daylight	Clear	Dry	Angle	Motor Vehicle in Transport	N	Same Direc Sideswipe No Injury DAY 0 0 N N
5/24/2016 10:14	STATE RD 408	East STATE RD 436	Daylight	Clear	Dry	Angle	Motor Vehicle in Transport	N	Same Direc Sideswipe No Injury DAY 0 0 N N
5/9/2019 6:22	SR 528 WBO	East S SEMORAN EXIT RAMP	Daylight	Clear	Dry	Angle	Motor Vehicle in Transport	N	Same Direc Sideswipe No Injury NIGHT 0 0 N N
1/20/2021 13:59	SR-408	East SR-436	Daylight	Clear	Dry	Angle	Motor Vehicle in Transport	N	Same Direc Sideswipe No Injury DAY 0 0 N N
2/17/2016 6:27	STATE RD 408	West COSMOS DR	Dusk	Clear	Dry	Angle	Motor Vehicle in Transport	N	Same Direc Sideswipe Injury NIGHT 1 0 N N
2/27/2019 6:57	STATE ROAD 408 WB MM16	West STATE ROAD 551	Daylight	Cloudy	Wet	Angle	Motor Vehicle in Transport	N	Same Direc Sideswipe No Injury NIGHT 0 0 N N
2/16/2016 8:09	SR408	East S SEMORAN BLVD	Daylight	Rain	Wet	Angle	Motor Vehicle in Transport	N	Same Direc Sideswipe Injury DAY 1 0 N N
10/12/2019 19:38	STATE ROAD 408 MM16	West STATE ROAD 551	Dark - Light	Clear	Dry	Angle	Motor Vehicle in Transport	N	Unknown Unknown Injury NIGHT 2 0 N N
4/16/2018 9:39	SR-408	East MM14	Daylight	Clear	Dry	Angle	Motor Vehicle in Transport	N	Unknown Unknown Injury DAY 2 0 N N
7/31/2018 7:42	SR-408	West MM15	Daylight	Clear	Dry	Angle	Motor Vehicle in Transport	N	Unknown Unknown No Injury DAY 0 0 N N
12/11/2019 7:01	SR 408 WBO	East S SEMORAN BV	Daylight	Clear	Dry	Angle	Motor Vehicle in Transport	N	Unknown Unknown No Injury DAY 0 0 N N
3/31/2018 10:29	SR 408 EBO	West SR 436 (SEMORAN BV) EXIT RAMP	Daylight	Cloudy	Dry	Angle	Motor Vehicle in Transport	N	Unknown Unknown No Injury DAY 0 0 N N
12/17/2019 7:39	SR-408 (MM16)	East GOLDENROD ROAD	Daylight	Cloudy	Dry	Angle	Motor Vehicle in Transport	N	Unknown Unknown No Injury DAY 0 0 N N
8/14/2016 13:15	STATE ROAD 551 (GOLDENROD ROAD)	West SR 408 (EAST-WEST EXPRESSWAY)	Daylight	Clear	Dry	Front to Fr	Motor Vehicle in Transport	N	Right Angle Angle Injury DAY 2 0 N N
8/5/2018 6:17	STATE ROAD 408 EB MM16	West STATE ROAD 551 (GOLDENROD RD)	Dawn	Clear	Dry	Front to Fr	Motor Vehicle in Transport	N	Head On Head On Injury NIGHT 2 0 N N
11/10/2020 23:07	SR 408	East LAKE UNDERHILL RD	Dark - Light	Rain	Wet	Front to Fr	Motor Vehicle in Transport	N	Single Vehi Other Injury NIGHT 1 0 N N
9/4/2018 8:20	WB -408	West SR-551	Daylight	Cloudy	Wet	Front to Re	Motor Vehicle in Transport	N	Right Angle Angle No Injury DAY 0 0 N N
9/29/2016 21:05	SR-408	West COSMOS DR	Dark - Light	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End Injury NIGHT 2 0 N N
3/1/2018 18:42	EB SR-408	East SR-551	Dark - Light	Clear	Dry	Front to Re	Motor Vehicle in Transport	Y	Rear End Rear End Injury DAY 1 0 N N
6/16/2018 5:20	STATE ROAD 551 (GOLDENROD ROAD)	South STATE ROAD 408 (EAST WEST EXPRESSWAY)	Dark - Light	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End Injury NIGHT 1 0 N N
9/9/2019 0:22	STATE ROAD 408	East STATE ROAD 436	Dark - Light	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End Injury NIGHT 4 0 N N
1/19/2020 19:13	STATE ROAD 408	West STATE ROAD 551 (GOLDENROD ROAD)	Dark - Light	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End Injury NIGHT 1 0 N N
8/31/2016 1:28	BEELINE WBO	West S SEMORAN BV	Dark - Light	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End No Injury NIGHT 0 0 N N
10/22/2016 23:28	SR 551	West SR 408 OVERPASS	Dark - Light	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End No Injury NIGHT 0 0 N N
2/2/2017 22:00	SR 408 EASTBOUND	East SR 436 EXIT	Dark - Light	Clear	Dry	Front to Re	Motor Vehicle in Transport	Y	Rear End Rear End No Injury NIGHT 0 0 N N
3/5/2018 0:17	SR-408	South MM16	Dark - Light	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End No Injury NIGHT 0 0 N N
3/29/2018 22:54	SR 408 EASTBOUND	West SR 436 TOLL	Dark - Light	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End No Injury NIGHT 0 0 N N
12/3/2019 18:00	SR 408 EAST-WEST EXPY RAMP	East MM17	Dark - Light	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End No Injury DAY 0 0 N N
12/14/2019 19:15	S GOLDENROD RD	East SR 408	Dark - Light	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End No Injury NIGHT 0 0 N N
11/19/2016 0:55	STATE ROAD 408 WESTBOUND	MM 16	Dark - Light	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End Serious Injt NIGHT 2 0 N N
9/11/2021 3:00	STATE ROAD 408 (EAST WEST EXPRESSWAY)	East MILE MARKER 14	Dark - Light	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End Serious Injt NIGHT 1 0 N N
8/24/2016 5:53	STATE ROAD 551 (GOLDENROD ROAD)	South STATE ROAD 408	Dawn	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End No Injury NIGHT 0 0 N N
7/18/2019 8:24	SR 408 WBO	West S SEMORAN EXIT RAMP	Dawn	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End No Injury DAY 0 0 N N
8/18/2016 7:44	EW WBO	West S SEMORAN BV	Daylight	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End Injury DAY 2 0 N N
8/23/2016 12:41	SR 408 EXIT RAMP	West SR 551	Daylight	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End Injury DAY 1 0 N N
2/10/2017 9:05	STATE ROAD 408 WB	East STATE ROAD 436	Daylight	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End Injury DAY 1 0 N N
2/1/2018 7:30	SR 408 (EAST-WEST EXPY)	West SR 551 (GOLDENROD RD.)	Daylight	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End Injury DAY 1 0 N N
3/30/2018 7:56	SR-408	East MM14	Daylight	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End Injury DAY 4 0 N N
4/13/2018 9:47	SR 408 WBO	East SR 436 (S SEMORAN BV)	Daylight	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End Injury DAY 4 0 N N
6/8/2018 7:51	S R 528 (EAST/WEST EXPRESSWAY)	East S R 551 (S GOLDENROD RD)	Daylight	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End Injury DAY 3 0 N N
7/2/2018 17:00	STATE ROAD 408 (EAST-WEST EXPY)	East CHICKASAW TRAIL	Daylight	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End Injury DAY 2 0 N N
10/23/2018 8:01	SR-408 (MM16)	West GOLDENROD ROAD	Daylight	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End Injury DAY 2 0 N N
5/2/2019 7:35	SR408 WB	West SR551 (GOLDENROD RD)	Daylight	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End Injury DAY 1 0 N N
5/16/2019 9:35	EW WBO	East S SEMORAN BV	Daylight	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End Injury DAY 1 0 N N
7/17/2019 8:21	EW WBO	West S SEMORAN BV	Daylight	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End Injury DAY 3 0 N N
10/29/2019 7:25	STATE ROAD 408 (EAST-WEST EXPY)	West GOLDENROD ROAD (SR 551)	Daylight	Clear	Dry	Front to Re	Motor Vehicle in Transport	N	Rear End Rear End Injury DAY 2 0 N N

SR 408 - Semoran Blvd to Goldenrod Road

Signal 4 Crash Data

CRASH_DATE_AND_TIME	ON_STREET_ROAD_HIGHWAY	DIRECTION FROM_INTERSECTION_OF	LIGHT_CON	WEATHER	ROAD_SURTYPE_OF	IFIRST_HARMFUL_EVENT	WORK_ZOI	S4_CRASH_S4_CRASH_S4_CRASH_S4_DAY_OI	S4_INJURY_S4_FATALI	S4_IS_PEDIS4_IS_BICY
8/16/2018 7:33	STATE ROAD 408	West STATE ROAD 551	Daylight	Clear	Dry	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
8/31/2018 14:33	STATE ROAD 408 EASTBOUND EXIT RAMP	South GOLDENROD ROAD	Daylight	Clear	Dry	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
9/6/2018 18:17	STATE ROAD 417 WB MM14	West STATE ROAD 436	Daylight	Clear	Dry	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
2/26/2019 15:44	STATE ROAD 408 WB MM16	West STATE ROAD 551	Daylight	Clear	Dry	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
9/11/2019 16:48	STATE RD 408	West STATE RD 436	Daylight	Clear	Dry	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
9/30/2019 7:42	STATE ROAD 408	East SEMORAN BOULEVARD	Daylight	Clear	Dry	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
10/11/2019 10:35	STATE RD 408	East STATE RD 436	Daylight	Clear	Dry	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
10/31/2019 8:17	STATE ROAD 408 WEST BOUND	West SEMORAN BOULEVARD EXIT RAMP	Daylight	Clear	Dry	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
8/11/2020 16:50	STATE ROAD 408	West STATE ROAD 551	Daylight	Clear	Dry	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
4/13/2021 15:39	STATE ROAD 408 WESTBOUND	East SEMORAN BLVD	Daylight	Clear	Dry	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
5/24/2021 7:53	STATE ROAD 408	East STATE ROAD 436	Daylight	Clear	Dry	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
9/21/2021 15:17	STATE ROAD 408 (WEST BOUND)	East S SEMORAN BOULEVARD	Daylight	Clear	Dry	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
2/9/2020 16:20	STATE ROAD 408 (EAST-WEST EXPY)	East MILE MARKER 16 (GOLDENROD ROAD)	Daylight	Clear	Dry	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe Serious Injt	DAY 2 0 N N
10/4/2016 16:55	S GOLDENROD RD	South STATE ROAD 408	Daylight	Cloudy	Dry	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
8/15/2017 10:40	WB SR-408	West SR-551	Daylight	Cloudy	Dry	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
6/6/2018 10:30	GOLDENROD RD (SR 551)	South SR 408 EASTBOUND EXIT RAMP	Daylight	Cloudy	Dry	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
11/6/2019 7:54	STATE ROAD 408 WB MM16	West STATE ROAD 551	Daylight	Cloudy	Dry	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
2/16/2016 8:58	EW WBO SR408	West S SEMORAN BV SR436 ENTRANCE RAMP	Daylight	Clear	Wet	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
7/25/2019 23:45	STATE ROAD 408 (EAST-WEST EXPRESSWAY)	West STATE ROAD 551 (GOLDENROD ROAD)	Dark - Light	Cloudy	Wet	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe Injury	NIGHT 1 0 N N
8/12/2016 17:38	STATE ROAD 408 WB MM16	West STATE ROAD 551	Daylight	Cloudy	Wet	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
9/7/2017 16:20	STATE ROAD 408 W	West MM15	Daylight	Cloudy	Wet	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
4/24/2018 7:50	STATE ROAD 408	West STATE ROAD 436	Daylight	Cloudy	Wet	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
1/10/2018 7:10	SR 408 WB	West COSMO DR	Dark - Light	Rain	Wet	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
11/10/2021 18:34	STATE ROAD 408	West STATE ROAD 436	Daylight	Rain	Wet	Sideswipe, Motor Vehicle in Transport	N	Same Direc	Sideswipe No Injury	DAY 0 0 N N
9/8/2017 11:39	STATE ROAD 408 W	West MM15	Daylight	Rain	Wet	Unknown Concrete Traffic Barrier	N	Off Road	Off Road Injury	DAY 1 0 N N
7/28/2016 10:15	SR 408 WEST	East SR 436 (S. SEMORAN BV. EXIT RAMP)	Daylight	Clear	Dry	Unknown Struck by Falling, Shifting Cargc	N	Rear End	Rear End No Injury	DAY 0 0 N N

FLORIDA DEPARTMENT OF TRANSPORTATION
TRANSPORTATION STATISTICS OFFICE
2021 HISTORICAL AADT REPORT

COUNTY: 75 - ORANGE

SITE: 2180 - RAMP FROM SR-408 WB TO SR-436

YEAR	AADT	DIRECTION 1		DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2021	5600 S		0	0	8.00	99.90	6.20
2020	5700 F		0	0	8.00	99.90	5.50
2019	6000 C	W	6000	0	8.00	99.90	4.10
2018	5800 S		0	0	9.00	99.90	5.80
2017	5700 F		0	0	9.00	99.90	6.20
2016	5600 C	W	5600	0	9.00	99.90	6.00
2015	5400 C	W	5400	0	9.00	99.90	7.20
2014	4900 C	W	4900		9.00	99.90	5.70

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

FLORIDA DEPARTMENT OF TRANSPORTATION
 TRANSPORTATION STATISTICS OFFICE
 2021 HISTORICAL AADT REPORT

COUNTY: 75 - ORANGE

SITE: 2163 - RAMP FROM SR-436 SB TO SR-408 WB

YEAR	AADT	DIRECTION 1		DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2021	6500 S		0	0	8.00	99.90	6.20
2020	6600 F		0	0	8.00	99.90	5.50
2019	6900 C	W	6900	0	8.00	99.90	4.10
2018	6700 T		0	0	9.00	99.90	5.80
2017	6600 S		0	0	9.00	99.90	6.20
2016	6500 F		0	0	9.00	99.90	6.00
2015	6400 C	W	6400	0	9.00	99.90	7.20
2014	5800 C	W	5800		9.00	99.90	5.70

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
 S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
 V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

FLORIDA DEPARTMENT OF TRANSPORTATION
 TRANSPORTATION STATISTICS OFFICE
 2021 HISTORICAL AADT REPORT

COUNTY: 75 - ORANGE

SITE: 2179 - RAMP FROM SR-436 NB TO SR-408 WB

YEAR	AADT	DIRECTION 1		DIRECTION 2		*K FACTOR	D FACTOR	T FACTOR
2021	6200 S		0		0	8.00	99.90	6.20
2020	6300 F		0		0	8.00	99.90	5.50
2019	6600 C	W	6600		0	8.00	99.90	4.10
2018	6600 S		0		0	9.00	99.90	5.80
2017	6500 F		0		0	9.00	99.90	6.20
2016	6400 C	W	6400		0	9.00	99.90	6.00
2015	5900 F		0		0	9.00	99.90	7.20
2014	5800 C	W	5800			9.00	99.90	5.70

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
 S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
 V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

FLORIDA DEPARTMENT OF TRANSPORTATION
TRANSPORTATION STATISTICS OFFICE
2021 HISTORICAL AADT REPORT

COUNTY: 75 - ORANGE

SITE: 2165 - RAMP FROM SR-551 (GOLDENROD ROAD) TO SR-408 WB

YEAR	AADT	DIRECTION 1		DIRECTION 2		*K FACTOR	D FACTOR	T FACTOR
2021	6300 S		0		0	8.00	99.90	6.20
2020	6400 F		0		0	8.00	99.90	5.50
2019	6700 C	W	6700		0	8.00	99.90	4.10
2018	7800 S		0		0	9.00	99.90	5.80
2017	7700 F		0		0	9.00	99.90	6.20
2016	7500 C	W	7500		0	9.00	99.90	6.00
2015	7200 F		0		0	9.00	99.90	7.20
2014	7100 C	W	7100		0	9.00	99.90	5.70

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

Appendix C – SignalFour Analytics Crash Data

SR 408 - I-4 to Bumby Ave
Signal 4 Crash Data

REPORT_NUMBER	CRASH_DATE_AND_TIME	ON_STREET_ROAD_HIGHW	FROM_INTERSECTION_OF	LIGHT_CONDITION	WEATHER	ROAD_SURF	TYPE_OF_I	FIRST_HARMFUL_EVENT	S4_CRASH	S4_CRASH	S4_CRASH	S4_CRASH	S4_CRASH	S4_DAY_OF_WEEK	S4_INJURY	S4_FATALITY	S4_IS_PEDIS	S4_IS_BICY
86607008	7/19/2016 8:35	SR 408	S MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86608667	7/24/2016 15:45	SR408	I4 EBO ON RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86609095	7/26/2016 15:20	SR 408 WEST	ROSALIND AV EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86608674	7/27/2016 7:17	SR408 WEST	S ROSALIND AV EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86608715	8/16/2016 8:05	EW WBO	SR 400	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86610160	8/19/2016 7:59	EW WBO	I4 WBO	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86612104	10/3/2016 8:41	EW WBO	I4 EBO	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86615587	11/1/2016 7:15	SR 408 W (EAST WEST EXP	ROSALIND AVENUE EXIT	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86615441	12/1/2016 8:06	SR 408 WBO	INTERSTATE 4 EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86615369	12/1/2016 9:09	SR 408 WBO	S BUMBY AV ENTRANCE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86615794	12/15/2016 7:51	EW WBO	I4 EBO	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86616002	1/12/2017 9:37	SR 408	S ROSALIND AV	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86929479	1/19/2017 8:05	EW WBO (SR 408)	I4 EBO (SR 400) ENTRANCE RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86929530	1/20/2017 9:01	SR 408	CRYSTAL LAKE DR	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
81897645	2/10/2017 7:42	SR 408	ROSALIND AVE.	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
81899198	2/23/2017 9:20	SR 408	ON RAMP TO I-4 WBO	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86977953	3/28/2017 7:07	SR 408 WBO	S MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
82198481	4/6/2017 7:15	EW WBO	MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86978133	4/10/2017 6:56	EW WBO	I4 EBO	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Single Vehi	Other	No Injury	No Injury	NIGHT	0	0	N	N	
86928648	4/14/2017 7:46	SR 408 WEST	I-4 EAST ENTRANCE RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86977844	4/14/2017 8:00	SR408	I4EBO	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86978233	4/23/2017 15:19	EW WBO	S MILLS AV	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86979696	5/3/2017 8:45	SR 408 WBO	S BUMBY AV ENTRANCE TO SR 408 WBO	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86979062	5/8/2017 7:30	EAST/WEST EXPRESSWAY (BUMBY AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86978309	6/9/2017 7:25	EW WBO	MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87051106	6/30/2017 8:04	SR 408 WBO	I4 WBO (SR400) EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87052382	7/28/2017 8:54	SR 408	ROSALIND AV EXIT	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87052383	7/28/2017 9:00	SR 408	ROSALIND AV EXIT	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87052841	8/7/2017 7:50	SR 408 WBO	SR 15 (N MILLS AVE)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87437943	9/20/2017 8:02	SR 408 WBO	S MILLS AV EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87053171	9/23/2017 17:45	SR 408 WEST	SR 400 EAST	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87438189	9/28/2017 8:16	WB 408	MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87438301	10/3/2017 6:55	SR 408 WEST	S. MILLS AV.	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	NIGHT	0	0	N	N	
87437175	10/3/2017 7:03	SR 408 WEST	I4 WBO (SR 400)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87438096	10/3/2017 7:08	SR 408 WBO	MILLS AV EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87437829	10/10/2017 18:09	EW WBO	I4 WBO	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87438441	10/12/2017 18:06	SR 408 EAST/WEST EXPRES	INTERSTATE 4 EBO	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87053446	10/18/2017 7:01	SR 408 WBO	MILLS AVE EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87439437	10/20/2017 8:41	SR 408 WBO	MILLS AV EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87439523	11/10/2017 8:43	STATE ROAD 408 (EAST/WE	STATE ROAD 400 (INTERSTATE 4 EXIT)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87440308	11/29/2017 9:39	EW WBO	I4 EBO	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87440001	12/2/2017 14:45	EW WBO	I4WBO	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87441694	12/5/2017 8:30	STATE ROAD 408	STATE ROAD 400 (INTERSTATE 4) EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87441338	1/27/2018 11:37	SR 408	ROSALIND AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87442775	2/18/2018 11:42	EW WBO	S MILLS AV	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87445758	3/2/2018 7:01	SR 408 W	I4 EBO (SR 400) EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86615193	3/8/2018 8:20	S.R. 408 WESTBOUND	MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87733509	3/14/2018 8:28	SR408 WEST	S ROSALIND AVE EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87735410	4/25/2018 8:24	SR 408 WBO	INTERSTATE 4 EBO EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87736726	5/25/2018 8:20	SR408	S MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Same Direc	Sideswipe	No Injury	No Injury	DAY	0	0	N	N	
87444372	5/29/2018 9:02	SR 408 WEST	S MILLS AV EXIT	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87939197	7/17/2018 8:27	SR 408 WEST	SOUTH BUMBY STREET ENTRANCE RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87939238	7/17/2018 10:01	SR 408	SR 400	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87939199	7/22/2018 13:13	I4 WBO (SR 400)	EW EXPRESSWAY (SR 408)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87738276	8/8/2018 8:43	EW WBO (SR 408)	I4 (SR 400)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87735165	8/20/2018 8:34	(S.R. 408) EAST-WEST EXPY.	ROSALIND AV. (EXIT 11A)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87944786	10/31/2018 7:01	SR 408 WEST	VICTOR AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	

SR 408 - I-4 to Bumby Ave

Signal 4 Crash Data

REPORT_NUMBER	CRASH_DATE_AND_TIME	ON_STREET_ROAD_HIGHWAY	FROM_INTERSECTION_OF	LIGHT_CONDITION	WEATHER	ROAD_SURFACE	TYPE_OF_INTERSECTION	FIRST_HARMFUL_EVENT	S4_CRASH	S4_CRASH	S4_CRASH	S4_CRASH	S4_CRASH	S4_DAY_OF_WEEK	S4_INJURY	S4_FATALITY	S4_IS_PEDICAN	S4_IS_BICYCLIST
88910495	12/20/2018 8:55	SR408 (EAST WEST EXPRESSWAY)	ROSALIND EXIT	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88910161	1/17/2019 8:25	SR 408 WBO	MILLS AV EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88910541	1/24/2019 15:40	SR408 WEST	S MILLS AVE EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88909548	2/11/2019 8:30	EW WBO	REEVES CT	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88912130	2/21/2019 8:35	SR 408	MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88911415	2/21/2019 8:47	SR 408 (EW WBO)	S MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88912678	3/7/2019 7:27	SR 408	S MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88913267	3/21/2019 8:46	SR 408 WBO	ENTRANCE RAMP TO I4 EBO	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88909745	3/22/2019 7:50	EW WBO	MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88914132	4/3/2019 8:59	SR 408 WEST	N BUMBY AV. (ENTRANCE RAMP)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88914383	4/12/2019 7:48	STATE ROAD 408	SOUTH BUMBY AVENUE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88912310	4/16/2019 10:30	SR 408	S SUMMERLIN AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88914518	4/25/2019 12:12	SR 408 WBO	MILLS AVE EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88915531	5/2/2019 8:23	SR 408 WBO	S MILLS AVE EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88916108	5/9/2019 8:45	SR 408 WBO	SR 408 WBO EXIT RAMP TO ROSALIND AV	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88916644	5/24/2019 8:32	SR 408	S ORANGE AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88915566	6/3/2019 8:33	SR 408	S ROSALIND AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88918106	6/23/2019 8:59	SR 408	I4 WBO (SR 400)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88914650	6/28/2019 8:27	SR 408	ROSALIND AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89213561	7/2/2019 7:51	SR 408 W	N MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88916126	7/8/2019 8:27	EW WBO	S MILLS AV	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88917830	7/11/2019 8:05	SR 408	SR 400 (I4)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89214345	7/11/2019 8:35	SR 408 WEST	N. MILLS AV. (EXIT RAMP)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89213249	7/11/2019 9:26	SR 408	SR 400 (I-4)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89214764	7/22/2019 7:50	EW WBO	S ROSALIND AV	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89215415	7/28/2019 18:30	EW WBO	S SUMMERLIN AV	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89215021	7/29/2019 7:29	SR 408 WBO	S ROSALIND EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89214017	8/8/2019 9:14	SR 408	S MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89215932	8/14/2019 8:16	SR 408 WBO	I4 EBO EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89218223	9/17/2019 8:25	408 EASTBOUND	E SOUTH ST	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89214687	9/18/2019 12:50	408 WBO (SR 408 WBO)	S MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Same Direction Sideswipe	Sideswipe	No Injury	No Injury	DAY	0	0	N	N	
89218670	9/27/2019 18:33	SR 408 WEST	SR 527 (S ROSALIND AV EXIT RAMP)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89217648	10/2/2019 8:14	S ROSALIND AV	408 WBO (SR 408 WBO)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89219228	10/29/2019 7:20	SR 408 WBO	MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89219371	11/2/2019 15:45	SR 408 WBO	S ROSALIND AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89218898	11/3/2019 9:42	STATE ROAD 408	ROSALIND AVENUE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89221264	11/19/2019 8:59	SR 408 WEST	INTERSTATE 4 (SR 400) EAST EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89221519	11/22/2019 8:40	SR 408 WESTBOUND	S BUMBY AV ENTRANCE RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89221386	12/5/2019 7:45	SR 408 WBO	MILLS AVE EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89222469	12/16/2019 8:00	SR408	N MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89222515	12/17/2019 7:10	SR408	MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89221316	1/31/2020 7:00	408 WBOUND	I4 EASTBOUND	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89819203	1/31/2020 8:15	SR 408 (WEST)	N MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89819978	2/14/2020 9:30	EW WBO	ROSALIND EXIT	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89821500	3/6/2020 7:16	SR 408 WBO	S ROSALIND AVE EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89822969	3/10/2020 7:29	SR 408 WEST	MILLS AV. (EXIT RAMP)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89822346	3/11/2020 9:35	SR408 WESTBOUND	S MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24064986	8/8/2020 10:16	EAST WEST EXPRESSWAY	I4EB	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89826377	8/10/2020 9:08	SR 408 WBO EXIT 10B	I4 (SR 400)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24064183	8/11/2020 9:00	SR 408 W	I4 WESTBOUND EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24064886	8/24/2020 9:00	SR 408 WBO	ROSALIND AV EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24065057	8/31/2020 7:45	SR 408 (EAST WEST EXPRESSWAY)	ROSALIND AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24066178	9/10/2020 8:48	EW WBO	I4 EBO	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24066267	9/10/2020 9:00	SR 408 WBO	I4 EBO (SR 400 EXIT RAMP)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24066927	9/21/2020 8:20	SR 408 WEST	S ROSALIND AV EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24067402	9/30/2020 9:23	SR 408 WBO	INTERSTATE 4 EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24066468	10/28/2020 8:35	EW WBO	I4 EBO	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	

SR 408 - I-4 to Bumby Ave

Signal 4 Crash Data

REPORT_NUMBER	CRASH_DATE_AND_TIME	ON_STREET_ROAD_HIGHWAY	FROM_INTERSECTION_OF	LIGHT_CONDITION	WEATHER	ROAD_SURFACE	TYPE_OF_COLLISION	FIRST_HARMFUL_EVENT	S4_CRASH	S4_CRASH	S4_CRASH	S4_CRASH	S4_DAY_OF_WEEK	S4_INJURY	S4_FATALITY	S4_IS_PED	S4_IS_BICY
24068447	10/30/2020 9:08	SR 408 WBO	I4 EBO (SR 400) EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24068847	11/3/2020 7:50	SR 408 WEST	S. MILLS AV (EXIT RAMP)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24068522	11/19/2020 6:45	W SR 408	SOUTH STREET	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	NIGHT	0	0	N	N
24069706	11/24/2020 9:20	SR 408 WBO	S ROSALIND ST EXIT	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24069771	12/6/2020 6:00	I4 WBO	W SOUTH ST	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	NIGHT	0	0	N	N
24069173	12/15/2020 16:47	408 WEST BOUND	I-4 E/W ONRAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24072411	2/3/2021 16:09	SR 408 WBO	ROSA LIND AV EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24071203	3/2/2021 7:30	STATE ROAD 408	MILLS AVENUE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24072802	3/8/2021 7:22	SR 408 (TOLL RD)	N. MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24071581	4/1/2021 14:51	SR 408 (EAST/WEST EXPRES	INTERSTATE 4 EXIT (EXIT 10)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24420462	4/12/2021 14:40	S.R. 408 WEST (EAST-WEST	ROSA LIND AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24420375	4/12/2021 15:50	SR 408 WBO	S ROSALIND AV EXIT	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24419180	4/12/2021 16:33	SR408 (HOLLAND EASTWES	MILLS AV	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24420972	4/15/2021 7:45	SR 408 WBO	SR 15 (S MILLS AV) EXIT	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24421699	5/7/2021 7:35	EW WBO (SR 408)	MILLS AVENUE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24421429	5/8/2021 8:30	SR 408 W EXIT RAMP	N MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24421453	5/21/2021 8:38	S.R. 408 (EAST/WEST EXPRE	EXIT RAMP TO ROSALAND AVENUE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24424178	6/28/2021 8:55	SR 408 W	S MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24425372	7/15/2021 7:38	SR 408 WEST	S MILLS AVE EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24426314	8/5/2021 7:51	SR 408 WBO	W MILLS AV EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24426329	8/11/2021 9:00	SR 408 WEST	N BUMBY AV. (ENTRANCE RAMP)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24423753	8/17/2021 9:00	SR 408 WBO	EXIT 10A - INTERSTATE 4 EAST OR WEST	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24426272	8/25/2021 6:59	SR 408 WEST EXIT RAMP	I4 WEST	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	NIGHT	0	0	N	N
24427546	9/8/2021 7:30	EW WBO	S ROSALIND AV	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24427192	9/9/2021 6:52	EW WBO	S ROSALIND AV	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	NIGHT	0	0	N	N
24428728	10/13/2021 8:05	SR 408 WESTBOUND	S ROSALIND AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24742698	10/15/2021 10:39	SR 408 WBO	MILLS AVE EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24428387	10/21/2021 9:00	408 ROSALIND AVE.		Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24744253	11/10/2021 9:00	SR 408 WEST	SR 15 (N. MILLS AVENUE)	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24744389	12/3/2021 6:50	STATE ROAD 408 WESTBOU	I4 OFF RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	NIGHT	0	0	N	N
24744120	12/9/2021 8:10	SR 408 WBO	S MILLS AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24746249	12/17/2021 12:56	SR 408 WEST	ROSA LIND AVENUE EXIT RAMP	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
24744889	12/10/2021 7:34	SR 408 WB	S BUMBY AVE	Daylight	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Serious Inj	Incapacitat	DAY	1	0	N	N
86110717	1/13/2016 17:10	SR 408 WEST	I4 WEST ENTRANCE RAMP	Dusk	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	1	0	N	N
81899195	2/13/2017 6:59	SR408 WBO	I-4 EBO	Dusk	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	NIGHT	0	0	N	N
86928720	1/6/2017 17:07	EW WBO	S MILLS AV	Dusk	Clear	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Serious Inj	Incapacitat	DAY	1	0	N	N
87441440	11/21/2017 9:10	SR 408 WEST BOUND	INTERSTATE 4 / SR 400	Dawn	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Injury	Non-Incapac	DAY	1	0	N	N
86403844	2/23/2016 8:32	SR 408 WBO	S ROSALIND AV EXIT RAMP	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	1	0	N	N
87438082	10/2/2017 9:49	SR 408 WEST	S. ROSALIND AVE. EXIT RAMP	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	1	0	N	N
87442671	1/9/2018 7:30	SR408 (EW WBO)	S MILLS AV	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	1	0	N	N
87438725	2/10/2018 12:30	I4 WBO (SR 400)	W ANDERSON ST EXIT	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	1	0	N	N
87733976	5/16/2018 7:20	SR 408 (WESTBOUND)	ROSA LIND AVE EXIT RAMP	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	1	0	N	N
87736500	5/25/2018 8:12	SR 408 WEST	I4 WEST (SR 400) EXIT RAMP	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	2	0	N	N
88913759	3/27/2019 6:51	SR 408 WBO	I4 EBO EXIT RAMP	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	NIGHT	1	0	N	N
88915171	4/30/2019 7:16	SR 408 WBO	S ROSALIND AVE (EXIT RAMP)	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	1	0	N	N
88918251	6/17/2019 7:29	SR 408 WEST	I4 WEST (SR 400) EXIT RAMP	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	1	0	N	N
89213582	6/27/2019 9:06	SR 408 WEST	S ROSALIND AV EXIT	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Injury	Non-Incapac	DAY	2	0	N	N
89218472	10/15/2019 7:29	SR400 (EW WBO)	S MILLS AV	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Injury	Non-Incapac	DAY	2	0	N	N
89219298	10/15/2019 8:37	SR 408 WBO	SR 408 WBO MILLS AV EXIT RAMP	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	1	0	N	N
89819520	1/7/2020 10:06	SR 408 WBO (SR 15 S MILLS	SR 408 WBO	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	1	0	N	N
24065593	8/24/2020 7:33	SR 408 WEST	I4 WEST (SR 400) EXIT RAMP	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	1	0	N	N
24066615	9/17/2020 8:50	SR 408 WEST	I4 EAST EXIT RAMP	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	1	0	N	N
24742996	10/14/2021 8:32	SR 408 WBO	S MILLS AV EXIT RAMP	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	1	0	N	N
86111018	1/7/2016 7:52	SR 408 WBO	ROSA LIND AV EXIT RAMP	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
86411156	6/8/2016 6:48	SR 408 WBO	S MILLS AVE EXIT RAMP	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	NIGHT	0	0	N	N
86607608	6/29/2016 8:56	SR 408 WBO	I4 EBO (SR 400) EXIT RAMP	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N
86608864	7/27/2016 8:24	SR 408 WEST	S. ROSALIND AVE. EXIT RAMP	Daylight	Cloudy	Dry	Front to Rear	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N

SR 408 - I-4 to Bumby Ave

Signal 4 Crash Data

REPORT_NUMBER	CRASH_DATE_AND_TIME	ON_STREET_ROAD_HIGHWAY	FROM_INTERSECTION_OF	LIGHT_CONDITION	WEATHER	ROAD_SURFACE	TYPE_OF_I	FIRST_HARMFUL_EVENT	S4_CRASH	S4_CRASH	S4_CRASH	S4_CRASH	S4_CRASH	S4_DAY_OF_WEEK	S4_INJURY	S4_FATALITY	S4_IS_PEDIS	S4_IS_BICY
86611726	9/15/2016 9:20	SR 408 WEST	INTERSTATE 4 EAST ENTRANCE RAMP	Daylight	Cloudy	Dry	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86615274	12/12/2016 9:52	SR 408 (EW WBO)	S MILLS AV	Daylight	Cloudy	Dry	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87050135	6/12/2017 7:16	EW WBO	S ROSALIND AV	Daylight	Cloudy	Dry	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87440709	11/10/2017 9:23	SR 408 WBO	I4 WBO (SR 400) EXIT RAMP	Daylight	Cloudy	Dry	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87943037	9/20/2018 9:00	SR 408 WBO	S MILLS AV EXIT RAMP	Daylight	Cloudy	Dry	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89218245	10/19/2019 14:57	EW WBO	I4 EBO	Daylight	Cloudy	Dry	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89220157	11/5/2019 8:50	SR 408 WBO	SR 408 WBO ENTRANCE FROM S BUMBY AV	Daylight	Cloudy	Dry	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89220193	11/5/2019 9:00	SR 408 WBO	SR 408 WBO ENTRANCE FROM S BUMBY AV	Daylight	Cloudy	Dry	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24064167	7/29/2020 8:59	SR 408 WBO	I4 EBO/WBO ENTRANCE RAMP	Daylight	Cloudy	Dry	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24066869	9/22/2020 11:48	SR 408 WEST EXIT RAMP	E SOUTH ST	Daylight	Cloudy	Dry	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24069405	11/17/2020 8:43	SR 408 WBO	I4 EBO/WBO ENTRANCE RAMP	Daylight	Cloudy	Dry	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24424383	6/25/2021 7:45	SR 408 WBO	MILLS AV EXIT RAMP	Daylight	Cloudy	Dry	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24424487	8/2/2021 7:32	SR 408 WEST	INTERSTATE 4 (SR 400) WEST EXIT RAMP	Daylight	Cloudy	Dry	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24425433	8/2/2021 8:55	SR 408 WEST	INTERSTATE 4 EAST (SR 400) EXIT RAMP	Daylight	Cloudy	Dry	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24426317	8/5/2021 7:51	SR 408 WBO	S MILLS AV EXIT RAMP	Daylight	Cloudy	Dry	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87735053	4/24/2018 6:40	EW WBO	I4 EBO	Daylight	Clear	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	NIGHT	1	0	N	N	
86407150	4/14/2016 7:51	SR 408 (EW WBO)	I4 EBO EXIT RAMP	Daylight	Clear	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
81897079	3/14/2017 7:21	SR 408 WBO	BUMBY ON RAMP	Daylight	Clear	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	Serious Inj	Incapacitat	DAY	2	0	N	N	
87443314	3/7/2018 6:26	STATE ROAD 408 (EAST/WE	STATE ROAD 400 (INTERSTATE4)	Dusk	Clear	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	NIGHT	0	0	N	N	
85302495	3/27/2016 1:13	STATE ROAD 15 (NARCOOSI	STATE ROAD 408 WESTBOUND EXIT RAMP	Dark - Light	Cloudy	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	NIGHT	0	0	N	N	
86611578	9/13/2016 7:19	SR 408 WBO	S MILLS AVE	Dawn	Cloudy	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	1	0	N	N	
24427307	9/9/2021 6:29	SR 408 WESTBOUND	S MILLS AVE	Dawn	Cloudy	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	NIGHT	0	0	N	N	
86608881	7/21/2016 16:40	SR 408 WBO	I4 WBO	Daylight	Cloudy	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	1	0	N	N	
86611070	9/1/2016 7:24	SR 408 WBO	S ROSALIND AV EXIT	Daylight	Cloudy	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	1	0	N	N	
87049749	6/2/2017 8:49	SR 408 (EAST WEST EXPRES	BUMBY STREET ENTRANCE RAMP	Daylight	Cloudy	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	4	0	N	N	
86113795	1/10/2016 12:45	EW WBO	MILLS AVENUE	Daylight	Cloudy	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86406170	4/7/2016 6:55	EAST-WEST EXPRESSWAY (S	ROSALIND AVE	Daylight	Cloudy	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	NIGHT	0	0	N	N	
81899600	2/23/2017 7:50	SR 408 WBO	MILLS AVE EXIT RAMP	Daylight	Cloudy	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88911903	3/20/2019 8:51	EW WBO/SR 408	N MILLS AVE	Daylight	Cloudy	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24424318	8/14/2021 17:05	SR 408 WEST	I 4 EAST	Daylight	Cloudy	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24426629	8/26/2021 8:48	SR 408 WBO	SR 15 (MILLS ST) EXIT RAMP	Daylight	Cloudy	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86410751	6/7/2016 8:43	SR 408 WBO	S ROSALIND AV EXIT RAMP	Dark - Light	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	1	0	N	N	
87053303	10/28/2017 18:32	SR 408 WESTBOUND	S MILLS AVE EXIT RAMP	Dark - Light	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	4	0	N	N	
24070284	12/7/2020 0:34	STATE ROAD 408	S MILLS AVE	Dark - Light	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	NIGHT	7	0	N	N	
24425868	8/21/2021 17:32	SR 408 (WBO)	SOUTH BUMBY AVENUE	Dark - Light	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24743300	12/15/2021 19:00	STATE ROAD 408	MILLS AVE	Dark - Light	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	NIGHT	0	0	N	N	
89219452	10/19/2019 0:01	EAST WEST EXPRESSWAY W	S. MILLS AVE	Dark - Unkr	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	NIGHT	0	0	N	N	
86609864	9/2/2016 7:16	SR 408 WEST	S MILLS AVE	Daylight	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	1	0	N	N	
24073056	3/22/2021 8:18	E/W EXPRESSWAY (SR408)	MILLS AVE (SR15)	Daylight	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	2	0	N	N	
24423698	6/15/2021 7:50	SR 408 WEST	EXIT RAMP TO I4 (SR 400 WEST)	Daylight	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	DAY	1	0	N	N	
86403312	2/6/2016 15:35	SR 408 WEST	INTERSTATE 4 WEST	Daylight	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
86608788	7/21/2016 17:10	SR 408 WEST	ROSALIND AVE EXIT RAMP	Daylight	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87051870	7/20/2017 17:42	SR 408 (EAST/WEST EXPRES	MILLS AVE	Daylight	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87438025	10/5/2017 7:20	SR 408 WEST	S BUMBY AV ENTRANCE RAMP	Daylight	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87736322	5/14/2018 17:06	INTERSTATE 4 WBO	ANDERSON ST.	Daylight	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
87947817	12/20/2018 7:35	EW WBO	S BUMBY AVE	Daylight	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88913398	3/19/2019 7:55	SR 408 WEST	S MILLS AVE EXIT RAMP	Daylight	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89216396	8/23/2019 16:12	SR 408 WEST BOUND	I4 EXIT	Daylight	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89216626	9/14/2019 11:16	SR408	BUMBY AVE	Daylight	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
89221997	12/13/2019 12:25	STATE ROAD 408	S SUMMERLIN AVENUE	Daylight	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24067621	11/10/2020 6:55	STATE ROAD 408	ROSALIND AVENUE EXIT RAMP	Daylight	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	NIGHT	0	0	N	N	
24424386	7/1/2021 8:28	SR 408 WEST	MILLS AV. (EXIT RAMP)	Daylight	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24743417	10/25/2021 16:27	SR 408 WEST	S ROSALIND AV EXIT RAMP	Daylight	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24743505	10/28/2021 11:35	SR 408 WBO	S CRYSTAL LAKE DR	Daylight	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
24745007	11/19/2021 16:40	SR 408 WEST		Daylight	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	
88917746	7/28/2019 19:06	S.R. 408 WEST (EAST WEST	S. ROSALIND AVENUE EXIT RAMP	Dusk	Rain	Wet	Front to Re	Motor Vehicle in Transport	Rear End	Rear End	Injury	Possible Inj	NIGHT	4	0	N	N	
24063684	8/8/2020 11:36	SR 408 WESTBOUND	FROM EXIT RAMP TO I-4 WEST	Daylight	Clear	Dry	Front to Re	Other Non-Collision	Rear End	Rear End	No Injury	No Injury	DAY	0	0	N	N	

Appendix D – Sunshine 811 Utility Information

Ticket : 290205664 Rev:000 Taken: 10/17/22 14:25ET

State: FL Cnty: ORANGE GeoPlace: ORLANDO
CallerPlace: ORLANDO
Subdivision:

Address :
Street : SR 408 TOLL
Cross 1 : S BUMBY AVE
Within 1/4 mile: Y
Cross 2 : I 4

Locat: LOCATE THE WESTBOUND SIDE OF SR 408 TOLL FROM S BUMBY RD TO I 4.

Remarks : IN RESPONSE TO RECEIPT OF A DESIGN TICKET, SSOCOF PROVIDES THE ORIGINATOR OF THE DESIGN TICKET WITH A LIST OF SSOCOF MEMBERS IN THE VICINITY OF THE DESIGN PROJECT. SSOCOF DOES NOT NOTIFY SSOCOF MEMBERS OF THE RECEIPT BY SSOCOF OF A DESIGN TICKET. IT IS THE SOLE RESPONSIBILITY OF THE DESIGN ENGINEER TO CONTACT SSOCOF MEMBERS TO REQUEST INFORMATION ABOUT THE LOCATION OF SSOCOF MEMBERS' UNDERGROUND FACILITIES. SUBMISSION OF A DESIGN TICKET WILL NOT SATISFY THE REQUIREMENT OF CHAPTER 556, FLORIDA STATUTES, TO NOTIFY SSOCOF OF AN INTENT TO EXCAVATE OR DEMOLISH. THAT INTENT MUST BE MADE KNOWN SPECIFICALLY TO SSOCOF IN THE MANNER REQUIRED BY LAW. IN AN EFFORT TO SAVE TIME ON FUTURE CALLS, SAVE YOUR DESIGN TICKET NUMBER IF YOU INTEND TO BEGIN EXCAVATION WITHIN 90 DAYS OF YOUR DESIGN REQUEST. THE DESIGN TICKET CAN BE REFERENCED, AND THE INFORMATION ON IT CAN BE USED TO SAVE TIME WHEN YOU CALL IN THE EXCAVATION REQUEST.

10/17/2022 2:25:11 PM AT1138, CNTL01, C00600, CVCFTV, FLW941, L3C900, OC2076, OTC811 HAS DECLARED EXTRAORDINARY CIRCUMSTANCES

*** LOOKUP BY BETWEEN ***

Grids : 2832C8121A 2832C8121B 2832C8121C 2832C8121D 2832C8122B
Grids : 2832C8122C 2832C8122D 2832D8121A 2832D8121B 2832D8122A
Grids : 2832D8122B 2832D8122C 2832D8122D 2832D8123D

Work date: 10/17/22 Time: 14:21ET Hrs notc: 000 Category: 6 Duration: UNKNOWN
Due Date : 10/19/22 Time: 23:59ET Exp Date : 11/16/22 Time: 23:59ET
Work type: DESIGN Boring: N White-lined: N
Ug/Oh/Both: U Machinery: N Depth: UNK Permits: N N/A
Done for : DESIGN

Company : KIMLEY-HORN & ASSOCIATES Type: OTHR
Co addr : 8201 PETERS RD
Co addr2: SUITE 2200
City : PLANTATION State: FL Zip: 33324
Caller : ERIKA SHELLENBERGER Phone: 407-898-1511
BestTime: ANYTIME
Mobile : 689-206-9002
Email : ERIKA.SHELLENBERGER@KIMLEY-HORN.COM

Submitted: 10/17/22 14:25ET Oper: ADR

Mbrs : AT1138 ATTF01 BV2269 CNTL01 C00600 CVCFTV FLW941 L3C900 MCIU01 NN1882
Mbrs : OC2076 OCE979 OTC811 OU1075 OUC553 OUC582 OUC613 PGSORL SBF02 SL2333
Mbrs : SMN407 TC2045 USSP01

* Responses are current as of 10/17/2022 04:22 PM

<u>Ex. Circum</u>	<u>Service Area</u>	<u>Utility Type(s)</u>	<u>Contact</u>	<u>Alternate Contact</u>	<u>Emergency Contact</u>	<u>Positive Response</u>
Yes	WINDSTREAM COMMUNICATION AT1138	TELEPHONE	LOCATE DESK (800) 289-1901		LOCATE DESK (800) 289-1901	Extraordinary circumstances per 556.10 5(8)(a), F.S. exist, call utility owner / operator provider for this location.
No	AT T ATTF01	COMMUNICATION LINES, FIBER	KEVIN TALECKI / MIKE GAMBOA (610) 200-3365	THE NATIONAL DISPATCH CENTER (866) 460-6324 x5	THE NATIONAL DISPATCH CENTER (866) 460-6324 x5	
No	BLACK & VEATCH ORLANDO 1F BV2269	FIBER	CHAD ARNETT (813) 207-7931	TAYLOR BARROW (407) 419-8002	CHAD ARNETT (813) 207-7931	
Yes	CENTURYLINK CNTL01	FIBER, TELEPHONE	BILL MCCLLOUD (850) 599-1444	RYAN EGAN (918) 547-0063	CABLE PROTECTION CENTER (877) 366-8344 x3	Extraordinary circumstances per 556.10 5(8)(a), F.S. exist, call utility owner / operator provider for this location.
Yes	CITY OF ORLANDO WATER RECLAMATION COO600	RECLAIMED WATER, WASTEWATER	MICHAEL ZENO (407) 246-3924	KENNETH BIVINS (407) 246-3619	KENNETH BIVINS (407) 246-3619	Extraordinary circumstances per 556.10 5(8)(a), F.S. exist, call utility owner / operator provider for this location.
Yes	CHARTER COMMUNICATIONS CVCFTV	CATV, FIBER, TELEPHONE	JOHN SMITH (407) 532-8520	JOHN SMITH (407) 532-8520	JOHN SMITH (407) 532-8520	Extraordinary circumstances per 556.10 5(8)(a), F.S. exist, call utility owner / operator provider for this location.
Yes	ZAYO GROUP / FORMERLY LIGHTWAVE, LLC FLW941	FIBER	HENRY KLOBUCAR (406) 496-6510	STAKE CENTER / LOUIS SIMONE (772) 579-8956	JON RAY (813) 417-2184	Extraordinary circumstances per 556.10 5(8)(a), F.S. exist, call utility owner / operator provider for this location.
Yes	CENTURYLINK L3C900	FIBER	NETWORK RELATIONS (877) 366-8344 x2	TECH ON DUTY (877) 366-8344 x3	TECH ON DUTY (877) 366-8344 x3	Extraordinary circumstances per 556.10 5(8)(a), F.S. exist, call utility owner / operator provider for this location.
No	MCI MCIU01	COMMUNICATION LINES, FIBER	ASG INVESTIGATIONS TEAM (800) 624-9675 x2	NATIONAL FIBER SECURITY DEPARTMENT (800) 624-9675	NATIONAL FIBER SECURITY DEPARTMENT (800) 624-9675	
No	CROWN CASTLE NG NN1882	FIBER	FIBERDIG TEAM (888) 632-0931 x2		CROWN CASTLE FIBER NOC (855) 933-4237 x1	
Yes	CITY OF ORLANDO FIBER OC2076	ELECTRIC, FIBER, TRAFFIC SIGNALS	BENTON BONNEY (407) 246-2636	JOHN W FALANGO (407) 246-2617	JOHN W FALANGO (407) 246-2617	Extraordinary circumstances per 556.10 5(8)(a), F.S. exist, call utility owner / operator provider for this location.

						I utility owner / operator provider for this location.
No	CENTRAL FLORIDA EXPRESSWAY AUTHORITY OCE979	FIBER	WILL HAWTHORNE (407) 690-5337	CHIRAYU AMIN (407) 992-5790	WILLIAM COLLINS (407) 832-9626	
Yes	SUMMIT BROADBAND OTC811	FIBER, TELEPHONE	MICHELLE DANIEL (407) 996-1183	KEITH DENNISON (615) 651-2566	NETWORK OPERATION CENTER (407) 996-1188	Extraordinary circumstances per 556.105(8)(a), F.S. exist, call utility owner / operator provider for this location.
No	ORLANDO UTILITIES COMMISSION-CHILLED WATER OU1075	CHILLED WATER	RON HAWKINS (407) 434-2569		SERVICE DISPATCH (407) 823-9150	
No	ORLANDO UTILITIES COMMISSION - WATER OUC553	WATER	STEVEN LOCKINGTON (407) 434-2568		SERVICE DISPATCH 613582552 (407) 823-9150	
No	ORLANDO UTILITIES COMMISSION - ELECTRIC OUC582	ELECTRIC	JUAN DIAZ (407) 434-4143		JEFF MANN	
No	ORLANDO UTILITIES COMMISSION - TRANSMISSION OUC613	FIBER, TRANSMISSION		JULIE LEININGER (407) 434-4198	SERVICE DISPATCH 613582552 (407) 823-9150	
No	TECO PEOPLES GAS-ORLANDO PGSORL	GAS	JOAN DOMNING (813) 275-3783	HEATH MCARDLE (407) 420-6674	TECO PEOLPES GAS CUSTOMER SERVICE***	
No	A T & T/ DISTRIBUTION SBF02	TELEPHONE	DINO FARRUGGIO (561) 683-2729	DINO FARRUGGIO (561) 683-2729	DINO FARRUGGIO (561) 683-2729	
No	UNITI FIBER LLC SL2333	FIBER	CHARLIE CROFT (251) 214-7059		NOC UNITI FIBER (877) 652-2321	
No	EMBARQ COMMUNICATION INC. SMN407	FIBER	ROBERT GODEK (407) 830-3421		CHRIS (RICHARD) TIGHE (407) 830-3207	Clear No Facilities
No	TRAFFIC CONTROL DEVICES TC2045	ELECTRIC, FIBER	PATRICIA VICKERS (407) 869-5300 x168	GEORGE HAMIL (407) 869-5300 x118	PATRICIA VICKERS (407) 869-5300 x168	
No	SPRINT USSP01	FIBER	JON BAKER (352) 409-5095	NATHAN BROOKMAN (800) 521-0579	SPRINT DISPATCH (800) 521-0579	

Ticket : 290205608 Rev:000 Taken: 10/17/22 14:21ET

State: FL Cnty: ORANGE GeoPlace: ORLANDO
CallerPlace: ORLANDO
Subdivision:

Address :
Street : SR 408 TOLL
Cross 1 : GOLDENROD RD S
Within 1/4 mile: Y
Cross 2 : SEMORAN BLVD S

Locat: LOCATE THE WESTBOUND SIDE OF SR 408 TOLL FROM GOLDENROD RD S TO SEMORAN BLVD S.

:

Remarks : IN RESPONSE TO RECEIPT OF A DESIGN TICKET, SSOCOF PROVIDES THE ORIGINATOR OF THE DESIGN TICKET WITH A LIST OF SSOCOF MEMBERS IN THE VICINITY OF THE DESIGN PROJECT. SSOCOF DOES NOT NOTIFY SSOCOF MEMBERS OF THE RECEIPT BY SSOCOF OF A DESIGN TICKET. IT IS THE SOLE RESPONSIBILITY OF THE DESIGN ENGINEER TO CONTACT SSOCOF MEMBERS TO REQUEST INFORMATION ABOUT THE LOCATION OF SSOCOF MEMBERS' UNDERGROUND FACILITIES. SUBMISSION OF A DESIGN TICKET WILL NOT SATISFY THE REQUIREMENT OF CHAPTER 556, FLORIDA STATUTES, TO NOTIFY SSOCOF OF AN INTENT TO EXCAVATE OR DEMOLISH. THAT INTENT MUST BE MADE KNOWN SPECIFICALLY TO SSOCOF IN THE MANNER REQUIRED BY LAW. IN AN EFFORT TO SAVE TIME ON FUTURE CALLS, SAVE YOUR DESIGN TICKET NUMBER IF YOU INTEND TO BEGIN EXCAVATION WITHIN 90 DAYS OF YOUR DESIGN REQUEST. THE DESIGN TICKET CAN BE REFERENCED, AND THE INFORMATION ON IT CAN BE USED TO SAVE TIME WHEN YOU CALL IN THE EXCAVATION REQUEST.

10/17/2022 2:21:02 PM CNTL01, C00600, CVCFTV, FLW941, OC2076, OTC811 HAS DECLARED EXTRAORDINARY CIRCUMSTANCES

*** LOOKUP BY BETWEEN ***

:

Grids : 2832C8117A 2832C8117B 2832C8117C 2832C8117D 2832C8118B
Grids : 2832C8118C 2832C8118D

Work date: 10/17/22 Time: 14:16ET Hrs notc: 000 Category: 6 Duration: UNKNOWN
Due Date : 10/19/22 Time: 23:59ET Exp Date : 11/16/22 Time: 23:59ET
Work type: DESIGN Boring: N White-lined: N
Ug/Oh/Both: U Machinery: N Depth: UNK Permits: N N/A
Done for : DESIGN

Company : KIMLEY-HORN & ASSOCIATES Type: OTHR
Co addr : 8201 PETERS RD
Co addr2: SUITE 2200
City : PLANTATION State: FL Zip: 33324
Caller : ERIKA SHELLENBERGER Phone: 407-898-1511
BestTime: ANYTIME
Mobile : 689-206-9002
Email : ERIKA.SHELLENBERGER@KIMLEY-HORN.COM

Submitted: 10/17/22 14:21ET Oper: ADR

Mbrs : AT1931 CNTL01 C00600 CVCFTV FLW941 FPC322 MCIU01 NN1882 OC1332 OC1420
Mbrs : OC2076 OCE979 OCU596 OTC811 OUC553 OUC582 PGSORL SBF02 SC1284 SL2333
Mbrs : SMN407 USSP01

* Responses are current as of 10/17/2022 04:23 PM

<u>Ex. Circum</u>	<u>Service Area</u>	<u>Utility Type(s)</u>	<u>Contact</u>	<u>Alternate Contact</u>	<u>Emergency Contact</u>	<u>Positive Response</u>
No	AMERICAN TRAFFIC SOLUTIONS AT1931	COMMUNICATION LINES, ELECTRIC	VICTORIA GRASSER (480) 596-4559	IT HELP DESK (866) 382-8689	IT HELP DESK (866) 382-8689	
Yes	CENTURYLINK CNTL01	FIBER, TELEPHONE	BILL MCCLOUD (850) 599-1444	RYAN EGAN (918) 547-0063	CABLE PROTECTION CENTER (877) 366-8344 x3	Ongoing Job - locate technician and excavator have established an agreement on scheduled marking
Yes	CITY OF ORLANDO WATER RECLAMATION COO600	RECLAIMED WATER, WASTEWATER	MICHAEL ZENO (407) 246-3924	KENNETH BIVINS (407) 246-3619	KENNETH BIVINS (407) 246-3619	Extraordinary circumstances per 556.105(8)(a), F.S. exist, call utility owner / operator provider for this location.
Yes	CHARTER COMMUNICATIONS CVCFTV	CATV, FIBER, TELEPHONE	JOHN SMITH (407) 532-8520	JOHN SMITH (407) 532-8520	JOHN SMITH (407) 532-8520	Unmarked - Locate technician and contractor (excavator) have agreed to meet on site on a specified date.
Yes	ZAYO GROUP / FORMERLY LIGHTWAVE, LLC FLW941	FIBER	HENRY KLOBUCAR (406) 496-6510	STAKE CENTER / LOUIS SIMONE (772) 579-8956	JON RAY (813) 417-2184	Extraordinary circumstances per 556.105(8)(a), F.S. exist, call utility owner / operator provider for this location.
No	DUKE ENERGY FPC322	ELECTRIC	DUKE'S CUSTOMER SERVICE CENTER (407) 629-1010	USIC DISPATCH (800) 778-9140	DUKE'S CUSTOMER SERVICE CENTER (407) 629-1010	
No	MCI MCIU01	COMMUNICATION LINES, FIBER	ASG INVESTIGATIONS TEAM (800) 624-9675 x2	NATIONAL FIBER SECURITY DEPARTMENT (800) 624-9675	NATIONAL FIBER SECURITY DEPARTMENT (800) 624-9675	
No	CROWN CASTLE NG NN1882	FIBER	FIBERDIG TEAM (888) 632-0931 x2		CROWN CASTLE FIBER NOC (855) 933-4237 x1	
No	ORANGE COUNTY UTILITIES - WASTE WATER OC1332	WASTEWATER	MARC BROWN (407) 836-6850	DUSTIN PUTNEY HOKE (407) 836-6822	ORANGE COUNTY UTILITIES DISPATCH UNIT ** (407) 836-2777	
No	ORANGE COUNTY PUBLIC WORKS OC1420	FIBER, TRAFFIC SIGNALS	MATTHEW SHIPLEY (407) 836-7814	MICHAEL COLON RODRIGUEZ (407) 836-7987	MATTHEW SHIPLEY (407) 836-7814	
Yes	CITY OF ORLANDO FIBER OC2076	ELECTRIC, FIBER, TRAFFIC SIGNALS	BENTON BONNEY (407) 246-2636	JOHN W FALANGO (407) 246-2617	JOHN W FALANGO (407) 246-2617	Extraordinary circumstances per 556.105(8)(a), F.S. exist, call utility owner / operator provider for this location.
No	CENTRAL FLORIDA EXPRESSWAY AUTHORITY	FIBER	WILL HAWTHORNE (407) 690-5337	CHIRAYU AMIN (407) 992-5790	WILLIAM COLLINS (407) 832-9626	

OCE979

No	ORANGE COUNTY UTILITIES OCU596	WATER	MARC BROWN (407) 836-6850	DUSTIN PUTNEY HOKE (407) 836-6822		
Yes	SUMMIT BROADBAND OTC811	FIBER, TELEPHONE	MICHELLE DANIEL (407) 996-1183	KEITH DENNISON (615) 651-2566	NETWORK OPERATION CENTER (407) 996-1188	Extraordinary circumstances per 556.105(8)(a), F.S. exist, call utility owner / operator provider for this location.
No	ORLANDO UTILITIES COMMISSION - WATER OUC553	WATER	STEVEN LOCKINGTON (407) 434-2568		SERVICE DISPATCH 613582552 (407) 823-9150	Unmarked - Locate technician and contractor (excavator) have agreed to meet on site on a specified date.
No	ORLANDO UTILITIES COMMISSION - ELECTRIC OUC582	ELECTRIC	JUAN DIAZ (407) 434-4143		JEFF MANN	Unmarked - Locate technician and contractor (excavator) have agreed to meet on site on a specified date.
No	TECO PEOPLES GAS- ORLANDO PGSORL	GAS	JOAN DOMNING (813) 275-3783	HEATH MCARDLE (407) 420-6674	TECO PEOLPES GAS CUSTOMER SERVICE***	
No	A T & T/ DISTRIBUTION SBF02	TELEPHONE	DINO FARRUGGIO (561) 683-2729	DINO FARRUGGIO (561) 683-2729	DINO FARRUGGIO (561) 683-2729	
No	SMART CITY TELECOM SC1284	FIBER, TELEPHONE	GUY BOWER (407) 828-6744	KEN CARRERA (407) 828-6672	SMART CITY'S NETWORKS OPERATIONS CENTER (407) 828-6811	
No	UNITI FIBER LLC SL2333	FIBER	CHARLIE CROFT (251) 214-7059		NOC UNITI FIBER (877) 652-2321	
No	EMBARQ COMMUNICATION INC. SMN407	FIBER	ROBERT GODEK (407) 830-3421		CHRIS (RICHARD) TIGHE (407) 830-3207	Clear No Facilities
No	SPRINT USSP01	FIBER	JON BAKER (352) 409-5095	NATHAN BROOKMAN (800) 521-0579	SPRINT DISPATCH (800) 521-0579	

Appendix E – Geotechnical Memorandum

TECHNICAL MEMORANDUM

December 14, 2022

Revised September 18, 2023

From: Daniel C. Stanfill, P.E. and Richard P. McCormick, P.G.

To: Mr. Michael Garau, P.E.

Subject: Existing Geotechnical Conditions Technical Memorandum
SR 408 WB CAPACITY IMPROVEMENTS FROM I-4 TO GOLDENROD ROAD
CFX 408-175
GEC Project No. 5116GE

Based on TWO 2 under Contract Number 001844 dated August 29, 2022, Geotechnical and Environmental Consultants, Inc. (GEC) is pleased to present this Existing Geotechnical Conditions Memorandum for the CFX SR 408 Westbound Capacity Improvements PD&E study. This PD&E Study is split into two sections of SR 408; SR 408 from east of I-4 to Bumby Avenue (Project 1) and SR 408 from SR 436 to Goldenrod Road (Project 2). GEC has reviewed available documents, the USGS Quadrangle Map, the NRCS Orange County Soil Survey and current plans to prepare this Memorandum. **Figures 1 and 2**, which are attached, shows the USGS Quadrangle Map and NRCS Soil Survey for the project location. The following observations are noted.

- Natural ground surface topography varies from +75 to +110 feet NGVD in the Project 1 area (see **Figure 1**) and from +90 to +100 feet NGVD in the Project 2 area.
- Land use in both project areas is primarily residential and light commercial.
- Near surface soils for both projects are primarily poorly drained sand soils. Project 2 contains organic muck soils (soil type 41).
- The muck soils were likely removed for the original SR 408 construction.
- Groundwater depth varies based on topography but is generally within 5 feet of natural grade.
- Review of available plans indicate the bridges were originally supported on 18-inch precast piles extending 50 to 100 feet below natural grade.
- Piles for the inside widening that was performed about 15 years ago utilized steel HP piles, extending 80 to 120 feet below natural grade.

- Geotechnical considerations include exploration for highly compressible organic muck soils, evaluation of variable groundwater conditions and deep Standard Penetration Test (SPT) borings for bridge foundation design.
- Bridges should be supported on a deep driven pile substructure due to Karst environment and likely high Factored Loads required.
- Dry stormwater ponds may be feasible depending on pond location, the presence of the clay confining layer and groundwater levels.

USE OF THIS MEMORANDUM

GEC has prepared this memorandum for the exclusive use of our client, The Balmoral Group, Kimley-Horn, and CFX and for application to our client’s project. GEC will not be held responsible for any other party’s interpretation or use of this report’s data or recommendations without our written authorization.

GEC has performed the services described in this report in a manner consistent with that level of care and skill ordinarily exercised by members of our profession currently practicing in Central Florida. No other representation is made or implied in this document.

The conclusions and recommendations should be disregarded if the final project design differs from the project description in this report. If such changes are contemplated, GEC should be retained to review the new plans to assess the applicability of this report in light of proposed changes.

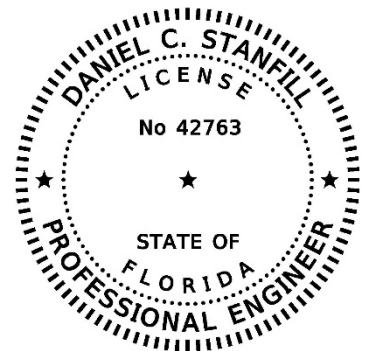
We appreciate the opportunity to work with The Balmoral Group, Kimley-Horn and CFX on this project. If you have any questions concerning this report, or if we may be of further assistance, please contact us.

Sincerely,

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.

Richard P. McCormick, P.G.
 Chief Geologist
 Florida License No. 2096

Daniel C. Stanfill, P.E.
 Senior Vice President
 Florida License No. 42763



This Report has been digitally signed and sealed by Daniel C. Stanfill, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

ATTACHMENTS

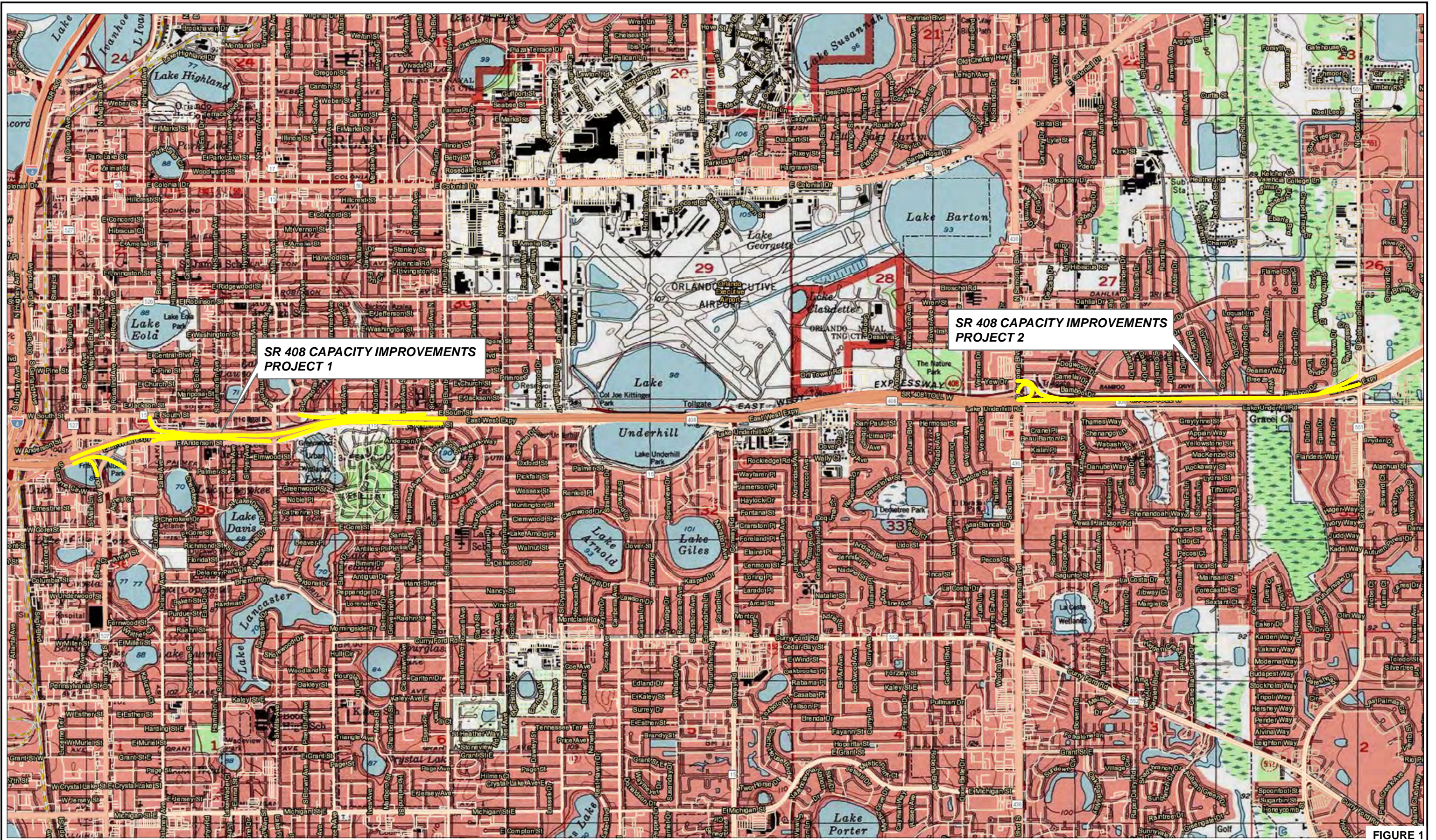
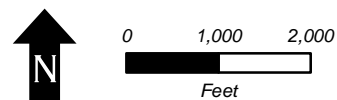


FIGURE 1

USGS Orlando East, FL Quadrangle Map
Dated: 1980



DANIEL C. STANFILL, P.E.
P.E. LICENSE NUMBER 42763
GEOTECHNICAL AND ENVIRONMENTAL
CONSULTANTS, INC.
919 LAKE BALDWIN LANE
ORLANDO, FL. 32814

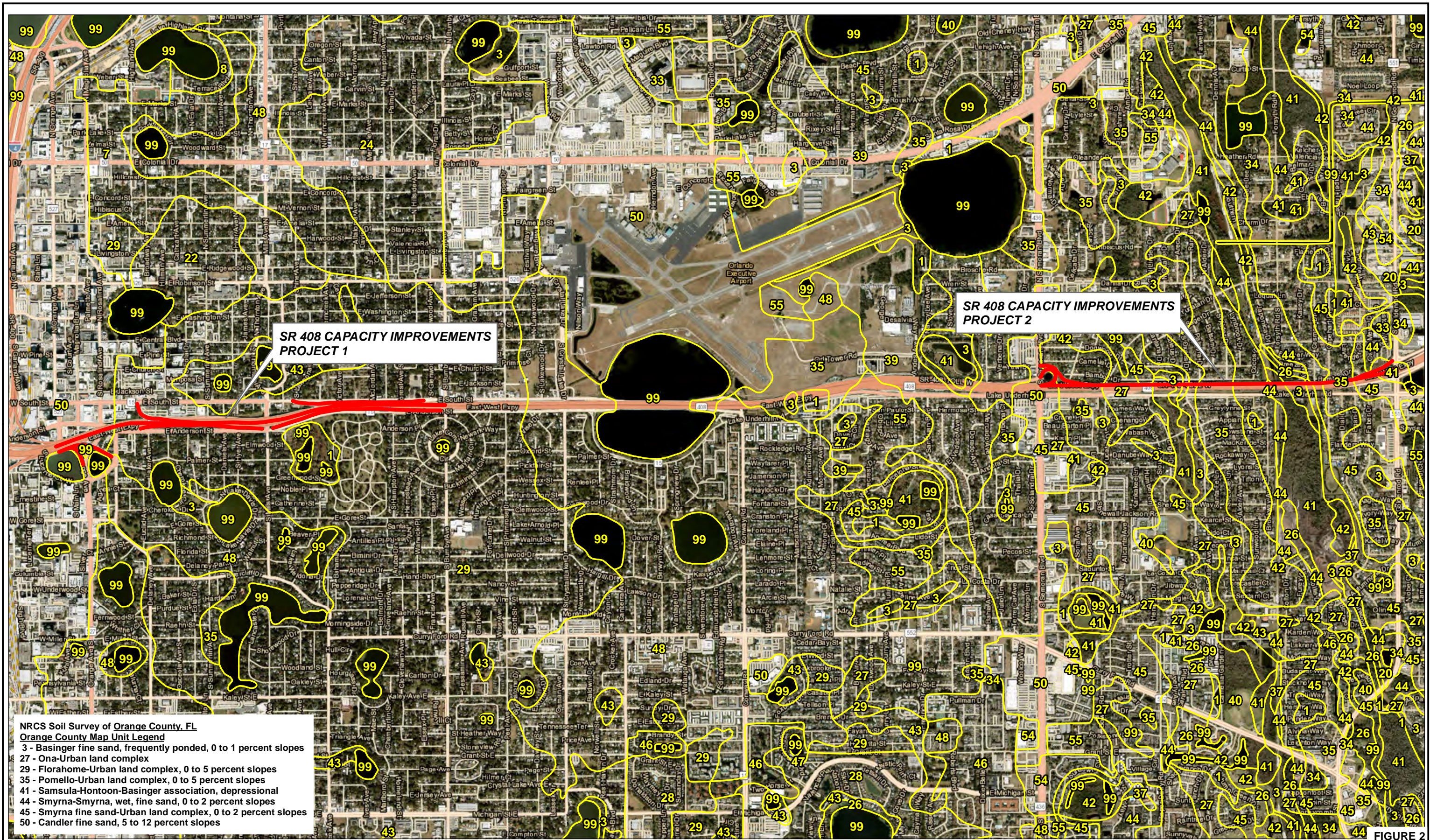
CFX PROJ. NO.:

408-175

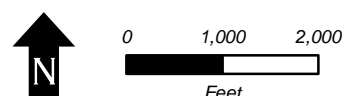
**CENTRAL
FLORIDA
EXPRESSWAY
AUTHORITY**

USGS QUADRANGLE MAP

SHEET
NO.



NRCS Soil Survey of Orange County, FL
Orange County Map Unit Legend
 3 - Basinger fine sand, frequently ponded, 0 to 1 percent slopes
 27 - Ona-Urban land complex
 29 - Florahome-Urban land complex, 0 to 5 percent slopes
 35 - Pomello-Urban land complex, 0 to 5 percent slopes
 41 - Samsula-Hontoon-Basinger association, depressional
 44 - Smyrna-Smyrna, wet, fine sand, 0 to 2 percent slopes
 45 - Smyrna fine sand-Urban land complex, 0 to 2 percent slopes
 50 - Candler fine sand, 5 to 12 percent slopes



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 GEOTECHNICAL AND ENVIRONMENTAL
 CONSULTANTS, INC.
 919 LAKE BALDWIN LANE
 ORLANDO, FL. 32814

CFX PROJ. NO.:
 408-175



NRCS SOIL SURVEY MAP

SHEET NO.

FIGURE 2