



CENTRAL FLORIDA **EXPRESSWAY AUTHORITY**

**Final Alternative Corridor Evaluation Report
December 2018**

**Lake/Orange County Connector (US 27 to SR 429)
Feasibility/Project Development & Environment Study
CFX Project No. 599-225**

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1. INTRODUCTION

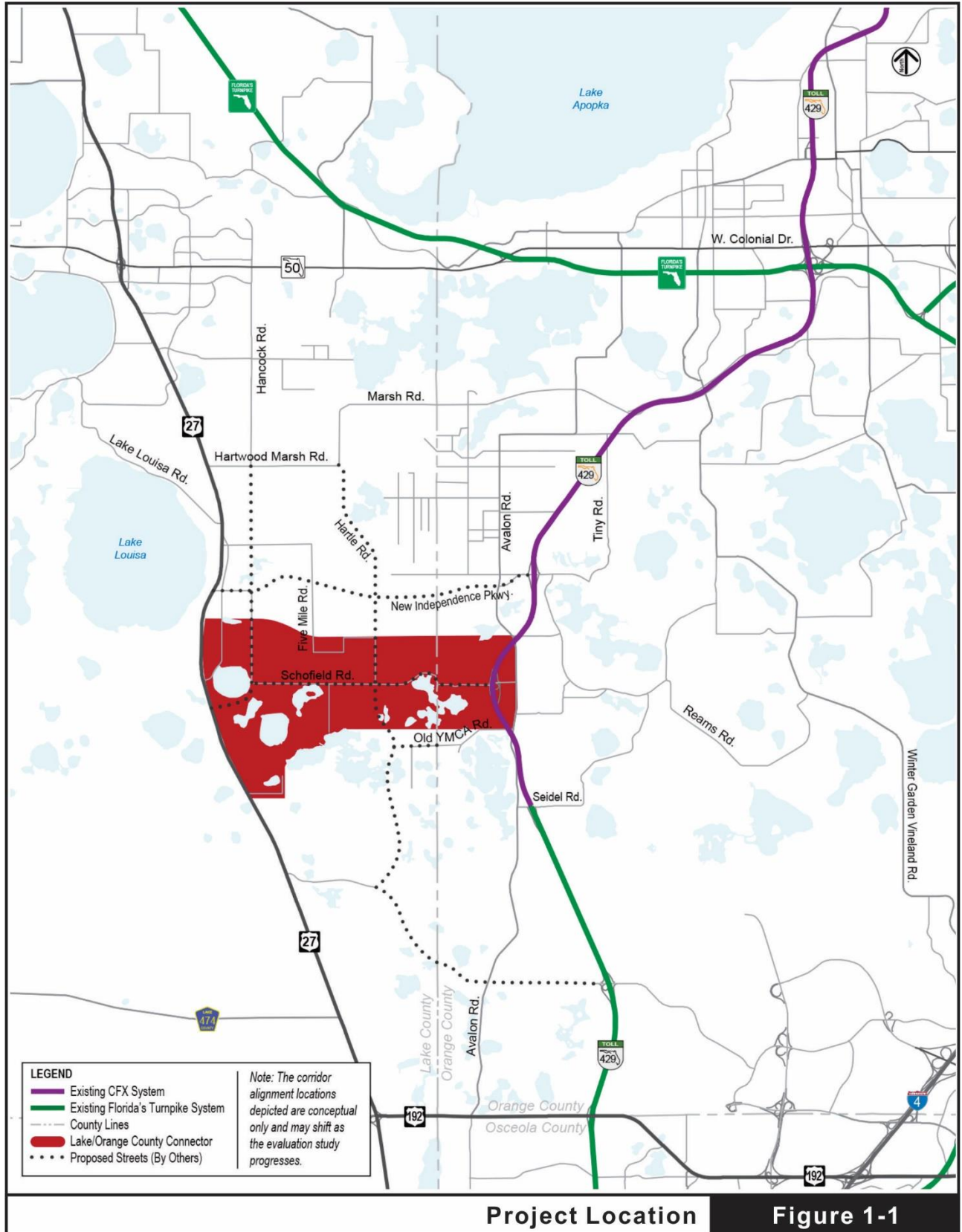
1.1 Project Information

The proposed Lake/Orange County Connector is a strategic transportation investment aimed at supporting existing and future growth in south Lake and west Orange counties. It has been identified as a system expansion project need in the last four consecutive Central Florida Expressway Authority (CFX) master plans, the most current being the 2040 CFX Master Plan. The Orlando-Orange County Expressway Authority (OOCEA), now CFX, completed the 2007 SR 429 to US 27 Connector Concept Development and Evaluation Study which developed various viable corridors/alternatives and identified an unmet need for an east-west connection between US 27 and SR 429. This study will confirm the feasibility of the connector and will conduct a Project Development and Environment (PD&E) Study on defined alignments. **Figure 1-1** illustrates the location of the project.

1.2 Project Description/Background

The purpose of the Lake/Orange County Connector PD&E Study is to develop a proposed improvement strategy that is technically sound, environmentally sensitive and publicly acceptable. As with every PD&E Study, emphasis has been placed on the development, evaluation and documentation of detailed engineering and environmental studies including data collection, conceptual design, environmental analyses, project documentation and the preparation of a Preliminary Engineering Report (PER).

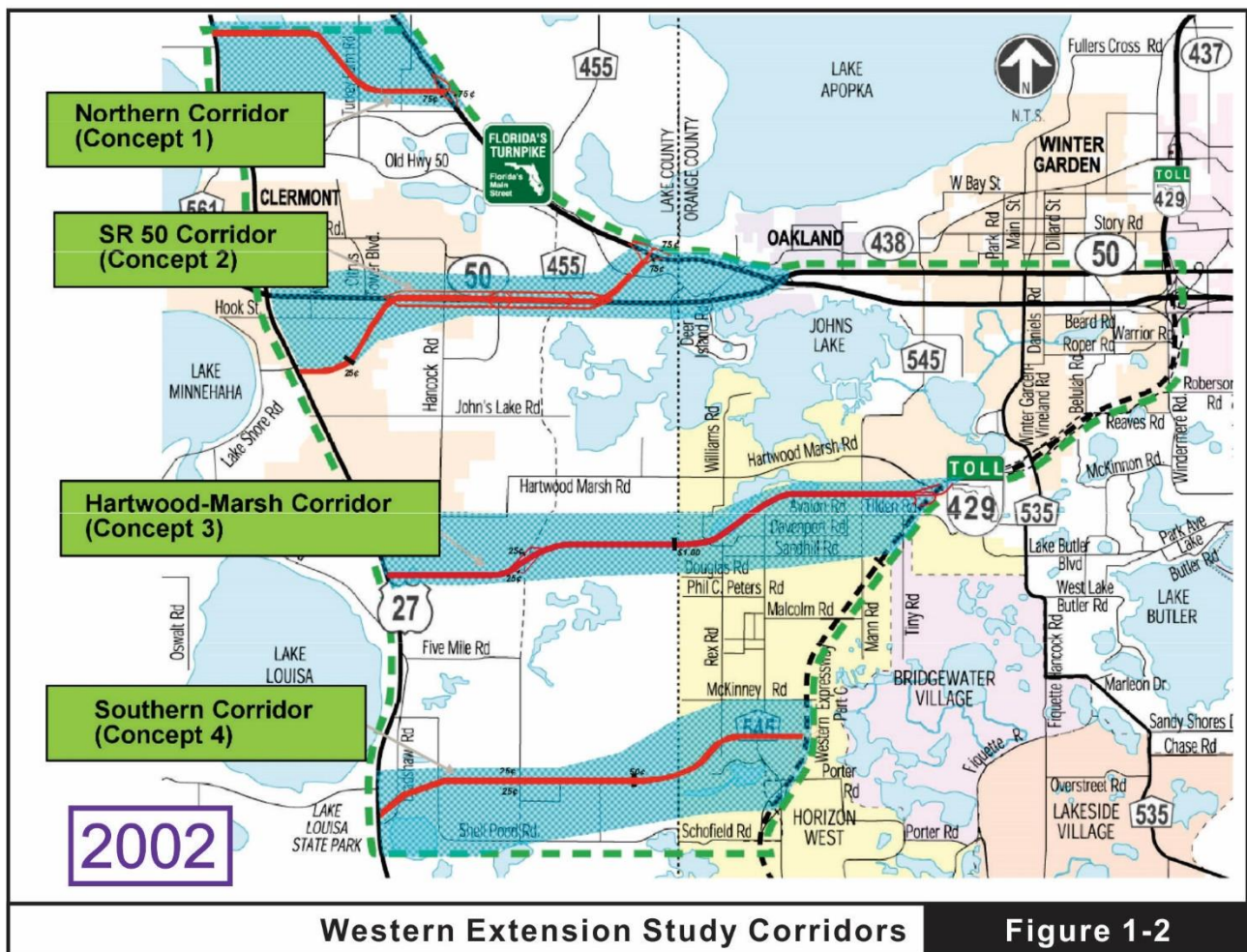
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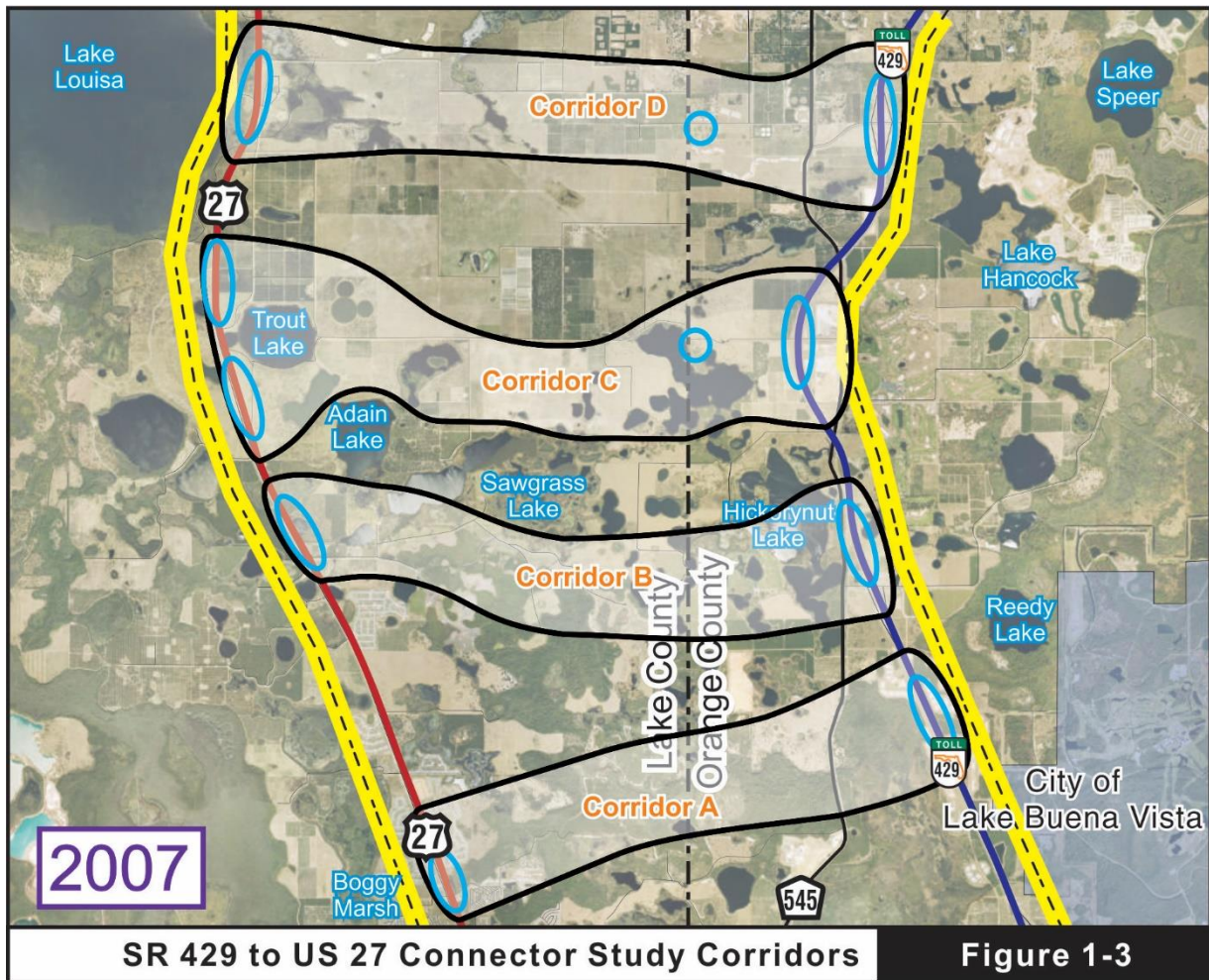
Project Location **Figure 1-1**

Project Background

The vision of this critical east-west corridor has been documented in prior concept studies. In 2002, the OOCEA first investigated the potential to extend SR 408 (East-West Expressway) to the west to address the transportation needs of west Orange and east Lake counties. A report titled “Western Extension Concept Development and Feasibility Study” was prepared which investigated the feasibility of a limited-access toll road. Four primary corridors were identified (see **Figure 1-2**): a “Northern Corridor”, a “SR 50 Corridor”, a “Hartwood-Marsh Corridor” and a “Southern Corridor”. The study concluded that only the “Southern Corridor” connecting SR 429 with US 27 in the general area of Schofield Road offered any long-term opportunity for Expressway Authority participation.



In 2007, a Concept Development and Evaluation Study for a potential SR 429 to US 27 Connector was prepared by the OOCEA. The purpose of the study was to determine the feasibility and viability of a potential SR 429 to US 27 expressway connection within an area south of Hartwood Marsh Road and north of US 192. Four distinct corridors were investigated (see **Figure 1-3**). The study found that Corridor B was not viable due to significant wetland and surface water impacts and relatively low traffic attraction. Corridor A (the southernmost option) had the largest traffic attraction but extended through an environmentally sensitive area while Corridor D (the northernmost option) had the lowest traffic attraction. Corridor C, which generally traversed the area adjacent to Schofield Road within the central portion of the study area, offered a potential balance between traffic attraction and minimization of environmental impacts.



1.3 Purpose of this Report

The purpose of the Alternative Corridor Evaluation Report (ACER) is to document and link activities for use in the environmental analysis in accordance with the Planning and Environment Linkages described under Fixing America's Surface Transportation (FAST) Act. The goal of the Alternative Corridor Evaluation (ACE) is to eliminate unreasonable corridors based on factors such as: not meeting the purpose and need, travel demand, and disproportionate and/or significant impacts.

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2. PURPOSE AND NEED

2.1 Purpose

The primary objectives of this transportation improvement project are to: expand regional system linkage and connectivity in Lake and Orange counties; enhance mobility between US 27 and SR 429; and accommodate the expected increase in traffic due to population and employment growth within the study area, while being consistent with accepted local and regional plans. As such, the proposed improvements include the construction of a limited-access facility that provides a new east-west connection from US 27 in south Lake County to SR 429 in west Orange County.

2.2 Need

There are six project needs that serve as justification for the proposed improvements. These needs are: 1) Provide improved system connectivity/linkage; 2) Accommodate anticipated transportation demand; 3) Provide consistency with local and regional plans; 4) Support economic viability and job creation; 5) Support intermodal opportunities; and 6) Enhance evacuation and emergency service. The following sections describe the needs in more detail.

2.2.1 System Connectivity/Linkage

System linkage is defined as linking two or more existing transportation facilities or types of modal facilities between geographic areas or regional traffic generators.

Figure 1-1 illustrates the existing roadway network within the vicinity of the proposed project. There are two major north-south facilities serving the project area, SR 429, a four-lane limited-access rural toll road at the eastern project terminus and US 27, a four-lane divided rural arterial at the western project terminus. In the east-west direction, SR 50, a six-lane urban arterial facility located approximately 7 miles to the north, and US 192, a six-lane urban divided arterial located approximately 7 miles south, connect Lake County to the Orlando urban core. These existing east-west facilities not only serve through traffic but also provide significant local access, thus limiting their ability to provide effective overall mobility.

At the present time, the east-west connectivity within the study area is deficient with Schofield Road, an unpaved 20-foot wide rural facility, providing the only connection

between US 27 on the west and SR 429 on the east. A new limited-access, direct connection expressway facility would not only provide the much-needed connectivity in the area but would also significantly improve regional mobility and travel time.

A PER was completed in 2016 for Wellness Way, a new four-lane divided arterial extending from US 27 and connecting to New Independence Parkway in the vicinity of SR 429. It should be noted that the 2007 SR 429 to US 27 Connector Concept Development and Evaluation Study prepared by the OOCEA stated that a network of east-west six-lane roadway arterials could also meet the capacity need of the study area. The proposed Wellness Way facility alone will not be sufficient to provide the necessary east-west linkage to meet the anticipated growth of the area when compared to a new limited-access, direct connection expressway facility.

Interchanges are proposed at US 27 in Lake County, SR 429 in Orange County, and the future extension of CR 455 in Lake County. Lake County's Visionary Map shows a southerly extension of CR 455 from its current terminus to the future extension of Sawgrass Bay Boulevard.

2.2.2 Anticipated Transportation Demand

According to the Central Florida Expressway Authority's 2040 Master Plan, Lake County's population is projected to increase by 56% (to 493,000 residents) and employment is projected to increase by 60% (to 212,700) by 2040. During the same time period, the population and employment growth within Orange County are expected to each increase by more than 50%. Two of the main areas of development generating additional population are the Wellness Way Area Plan (WWAP) in south Lake County and the Horizon West Special Planning Area (HWSPA) in southwestern Orange County. The WWAP includes more than 16,000 acres. Horizon West is a growing community of several villages occupying more than 20,000 acres and projected to house over 60,000 residents when completed. Horizon West also features the future site of a Valencia College satellite campus.

The January 2018 Bureau of Economic and Business Research (BEBR) population projections show from 2017 to 2045 a 54% growth in population is anticipated for both Lake and Orange counties.

The study area traverses all five of the WWAP Future Land Use Categories (FLUC); Town Center and Wellness Way 1, 2, 3 and 4. The planning horizon for the WWAP is projected to be 2040 with a build-out of 16,500 dwelling units and a projected employment of 36,000. CEMEX, a multinational building materials supply company, submitted an updated permit for the proposed Four Corners Sand Mine in August 2017. They propose to operate on 1,200 acres within the WWAP, on property divided by Schofield Road. The permit allows mining approximately 525 acres over a 22-year period.

The study area also falls within the Town Center and Village H (Hickory Nut) of Horizon West. The Town Center will be a regional employment center with a projected employment force of over 27,000 and home to a host of new developments including a satellite campus of Valencia College and Orlando Health hospital. Overall, Horizon West has an anticipated build-out of 40,000 dwelling units and a projected commercial area of 9.5 million square feet.

An origin and destination (OD) study conducted by CDM Smith in 2017 for CFX revealed that much of the potential traffic for a new toll road would come from planned developments. In the year 2045, there is a potential for 34,000 daily trips traveling between US 27 and SR 429 in the vicinity of Schofield Road. With the proposed project as a tolled expressway, approximately 19,000 daily trips would be diverted from local roadways.

The proposed connector is anticipated to help accommodate the expected increase in traffic due to population and employment growth within the study area by expanding the limited-access expressway system.

2.2.3 Consistency with Local and Regional Plans

Planning consistency of the proposed project is documented in various local comprehensive plans (see **Table 2-1**). A brief explanation of each follows.

CFX 2040 Master Plan and Five-Year Work Plan: The subject project is a major component of the Authority's plan to provide additional capacity to address the area's increasing projected population and employment growth. The Lake/Orange County Connector would support the economic vitality of the WWAP and the HWSPA developments and is widely supported among local landowners and community leaders. The project is listed in the five-year work plan and funded for PD&E in years 2018/2019 and for potential design in years

2021/2022 and 2022/2023.

Lake-Sumter Metropolitan Planning Organization (MPO) – 2040 Long Range Transportation Plan (LRTP): The Lake-Sumter MPO provides a forum for cooperative decision making concerning transportation issues throughout the urbanized area of Lake and Sumter counties. The latest draft list of priority projects (May 2018) shows that a “New Road Alternative Corridor Evaluation” between US 27 and SR 429 is listed as priority #20 under the Preliminary Engineering projects. In addition, the portion of the Lake/Orange Parkway project extending from US 27 to the Lake/Orange County line is included in the Lake-Sumter 2040 LRTP as a cost feasible element and as an Emerging Regional Significant Corridor.

West Orange South Lake Transportation and Economic Development Task Force (WOSLTED): This task force was initiated in 2000 with the goal of promoting transportation in the West Orange/South Lake (WOSL) region. In 2008, the task force started a planning process to ensure coordinated transportation and housing development which eventually resulted in a proposed system of new roadways and roadway improvements which included the provision of a proposed east-west connector from US 27 to SR 429. This connector has always been a main focus of this organization.

MetroPlan Orlando: MetroPlan Orlando is the metropolitan planning organization for the greater Orlando area. It coordinates and leads transportation planning efforts in Orange, Osceola and Seminole Counties. The subject project is listed on the 2040 LRTP Plan Development Cost Feasible projects (updated June 2017) as a funded project for both PD&E and design.

Table 2-1 – Local Planning Consistency

| Agency | Remarks |
|---|---|
| Central Florida Expressway Authority (CFX) | Included in the 2040 Master Plan and the Five-Year Work Plan |
| Lake-Sumter MPO | Identified the proposed project in the 2040 LRTP Needs Plan |
| West Orange/South Lake Transportation and Economic Development Task Force | Identified a connection between US 27 to Orange County in its Transportation Plan |
| MetroPlan Orlando | Identified in its Technical Report 3: “Plan Development and Cost Feasible Projects” |

2.2.4 Economic Viability and Job Creation

The proposed facility is needed to further support the economic viability of the WWAP. This 16,000-acre service area has been recognized for many years as having significant potential for economic development in southeast Lake County. It is projected to be an economic engine for job creation in the region and is envisioned to strengthen its connectivity with other regional economic hubs. With an anticipated buildout of over 16,000 residential units, this important planned development is expected to generate over 26,800 jobs in the future.

The proposed connector will also directly benefit the economic and job creation potential of the Horizon West development by expediting the efficient delivery of goods and services in this developing area of west Orange County.

2.2.5 Support Intermodal Opportunities

The Horizon West Town Center is proposed as an intermodal and freight staging facility potentially providing access to trucks, rails, airports and/or ports. Its presence enhances the integration and connectivity of the multimodal transportation system. The proposed connector would link this freight staging facility with two major Strategic Intermodal System (SIS) highways (US 27 and SR 429) and thus connect Lake County to a network of limited-access facilities that provide access to the Orlando International Airport and Port Canaveral. In addition, the MetroPlan Orlando's "Regional Freight and Goods Movement Facilities Profile" noted that there is "limited existing east-west highway and rail connectivity within the region – which provides logistical challenges for some shippers". The proposed project will add a valuable east-west mobility link to the area's transportation network.

2.2.6 Evacuation and Emergency Services

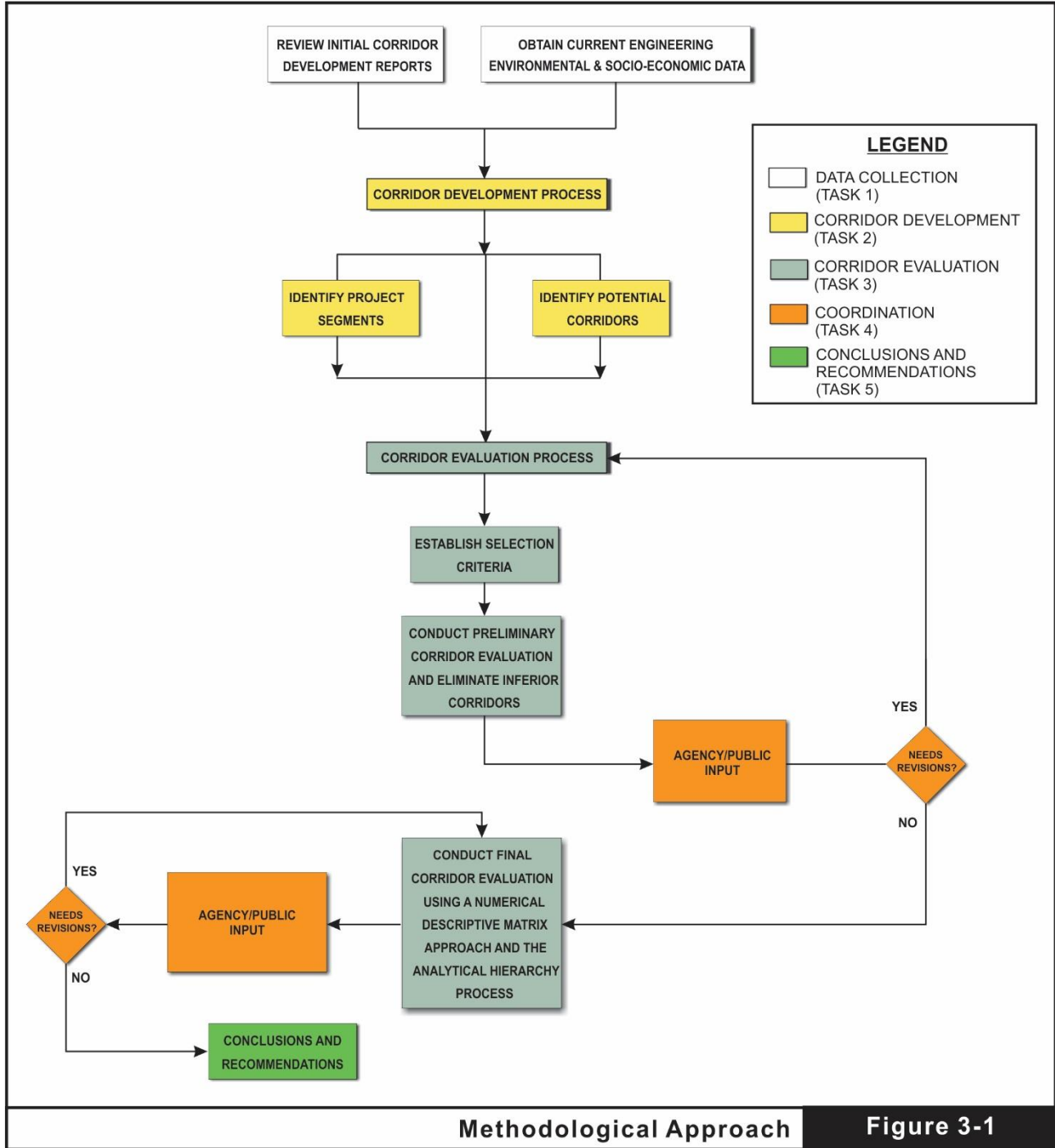
The East Central Florida Region has been identified by the National Oceanic and Atmospheric Administration (NOAA) as a high hurricane-vulnerable area within the United States and thus requires sufficient and efficient evacuation routes. There are no existing designated east-west evacuation routes within the immediate project area. Only SR 50, approximately 7 miles to the north, and US 192 (SR 530), approximately 7 miles to the south, provide effective east-west evacuation connection to important north-south SIS routes in the area (US 27 and SR 429). The provision of an additional high-speed, limited-access east-

west facility will afford desirable redundancy of the highway network to accommodate diverted local and regional traffic during times of natural or man-made emergencies.

Another critical issue deals with potential delays of fire and emergency services. There are two fire stations just north and south of the study area along US 27 but their linkage to the east is ineffective due to the lack of a paved or limited-access facility connecting to SR 429, potentially resulting in additional delays. The proposed connector would facilitate prompt fire and emergency response.

3. METHODOLOGICAL APPROACH

Figure 3-1 illustrates the proposed methodological approach involving five distinct tasks. A brief description of each task is included in the following pages.



3.1 Task 1 – Data Collection

The initial task included the collection and review of pertinent data within the study area. It involved an on-site and desktop inventory and verification of existing conditions as well as the collection of data that would serve as the basis for evaluation.

The data used to evaluate the social, cultural, natural and physical environmental impacts of each corridor was derived from Geographic Information System (GIS) datasets, literature and field reviews where appropriate. Various GIS datasets within the Florida Geographical Data Library (FGDL), the Florida Fish and Wildlife Conservation Commission (FWC) and County data sources were utilized. A list of GIS data layers which were used in the assessment of the project study area is provided in **Appendix A**.

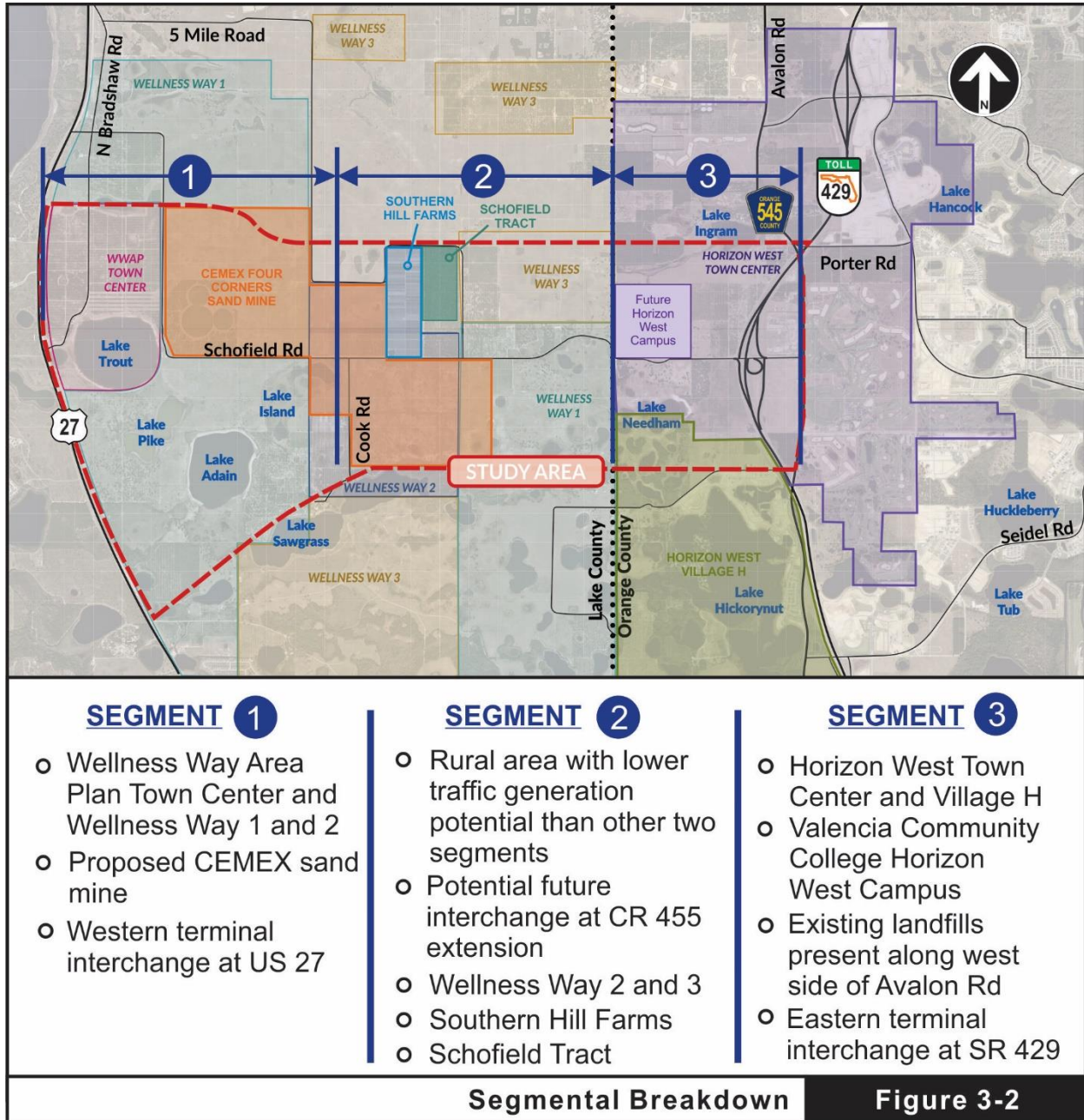
The following features were identified as important considerations: potential land use changes, well-field impacts, socio-economic impacts, and impacts to potential historic/archaeological sites, recreational areas, wetlands, water quality, floodplains, wildlife and habitat, conservation areas, and planned developments, among others.

3.2 Task 2 – Corridor Development Process

This corridor development process is inherently dynamic in nature and generally requires frequent modifications resulting from the identification of new constraints and opportunities, input from agencies, etc. The following sections provide specific details concerning the distinct components of the corridor development process.

3.2.1 Identification of Project Segments

Initially, the study area was divided into three segments to facilitate the analysis. The segmental breakdown approach ensures that the generated corridor alternatives are more responsive to the needs of each segment rather than only to the generalized project needs. **Figure 3-2** illustrates the study segments and provides a description of each. Each segment has unique characteristics as well as differences in environmental, engineering and socio-economic features.



Segment 1 comprises the project’s western 2 miles and generally extends from US 27, a rural four-lane north-south facility, to just west of Cook Road, a minor north-south rural road just east of Lake Island. Some of the main features within this first segment include various lakes (e.g., Trout, Pike, Adain, Island), the WWAP Town Center, Wellness Way 1, the proposed CEMEX Four Corners Sand Mine and portions of Wellness Way 2.

Segment 2 comprises the central portion of the study area and extends from Cook Road to the Lake/Orange county line for a total length of approximately 1.8 miles. This generally

rural segment exhibits lower traffic generation potential than the other two segments. Some of the main features within this segment include the Schofield Tract, portions of Wellness Way 2 and 3 and Southern Hill Farms north of Schofield Road, a rural two-lane east-west facility projected to be widened to four lanes in the future.

Segment 3 extends for approximately 1 mile from the Lake/Orange county line to the study's eastern terminus at SR 429, a four-lane CFX north-south toll facility. Some of the principal features within Segment 3 include the Horizon West Town Center and Village H, the proposed Valencia Community College Horizon West Campus, Zanzibar Planned Development, and Lake Needham.

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3.2.2 Identification of Preliminary Segmental Corridors

Next, preliminary segmental corridor options were developed for the proposed Lake/Orange County Connector (see **Figure 3-3**). These corridors were developed based on constraint mapping, and local agency, stakeholder and public input. Each corridor is 800 feet wide for the purpose of assessing the potential social, cultural, natural, and physical impacts of each corridor option. As shown on **Figure 3-3**, seven distinct corridor options were generated within Segment 1, six within Segment 2, and four within Segment 3. A brief description of all the preliminary corridor options follows:

Segment 1: As previously stated, there are seven preliminary corridors within Segment 1.

Corridor 1-1: This corridor commences in the immediate vicinity of the Lake Louisa State Park entrance on US 27. This corridor extends southeasterly generally bordering the north edge of Lake Trout, and then easterly within the vicinity of Schofield Road and north of Lake Island.

Corridor 1-2: This corridor commences approximately 2,000 feet north of the southern terminus of the South Bradshaw Road intersection on US 27 and extends northeasterly between Lake Trout and Lake Pike before merging into Corridor 1-1.

Corridor 1-3: This corridor begins approximately one mile north of Frank Jarrell Road on US 27 and proceeds northeasterly between Lake Pike and Lake Adain turning due east and merging into Corridor 1-1.

Corridor 1-4: This corridor is similar to Corridor 1-3 from its begin point on US 27 to the area just north of Lake Adain where it turns due east crossing Lake Adain approximately 2,500 feet south of Schofield Road.

Corridor 1-5: This corridor begins on US 27 just north of the Frank Jarrell Road intersection and proceeds northeasterly between Lake Adain and Lake Sawgrass before merging into Corridor 1-4.

Corridor 1-6: This corridor is similar to Corridor 1-5 from its begin point on US 27 to the area between Lake Adain and Lake Sawgrass where it then turns more easterly, generally bordering the southern limit of the study area.



Preliminary Segmental Corridors

Figure 3-3

Corridor 1-7: This corridor was generated in order to consider an option with maximum directness within the first segment. This option begins in the same general vicinity as Corridor 1-2 on US 27 and extends due east just north of Lake Adain where it merges with Corridor 1-4.

Segment 2: This central segment features six distinct corridors as follows:

Corridor 2-1: This east-west corridor generally follows the existing Schofield Road alignment except in the vicinity of the Schofield Tract, an environmentally sensitive site, where this option dips farther south in order to avoid impacting the site (see **Section 3.3.2.5**).

Corridor 2-2: This corridor starts in the same location as Corridor 2-1 and continues in a southeasterly direction eventually merging with Corridor 2-4.

Corridor 2-3: This corridor starts at a point approximately 2,500 feet south of Schofield Road then it veers northeasterly and eventually merges with Corridor 2-1.

Corridor 2-4: This east-west corridor alternative is initially similar to Corridor 2-3 but then continues eastward along the central portion of Segment 2.

Corridor 2-5: This corridor generally borders the southern study area limits just north of Lake Sawgrass.

Corridor 2-6: This corridor is similar to Corridor 2-5 from Cook Road to just west of the Lake/Orange county line, where it veers northeasterly and merges with Corridor 2-4.

Segment 3: There are four preliminary alternative corridors as follows:

Corridor 3-1: This corridor extends northeasterly from the Lake/Orange county line in the vicinity of Schofield Road to just southeast of the existing SR 429/Avalon Road overpass.

Corridor 3-2: This east-west corridor generally follows the existing Schofield Road alignment from the Lake/Orange county line to the existing SR 429/Schofield Road interchange.

Corridor 3-3: Corridor 3-3 extends from the Lake/Orange county line at a point approximately 1,500 feet south of Schofield Road and veers northeast terminating at the existing SR 429/Schofield Road interchange.

Corridor 3-4: This corridor alternative extends from the Lake/Orange county line just north of the southern study area limits to just south of the existing SR 429/Schofield Road interchange.

3.3 Task 3 – Alternative Corridor Evaluation

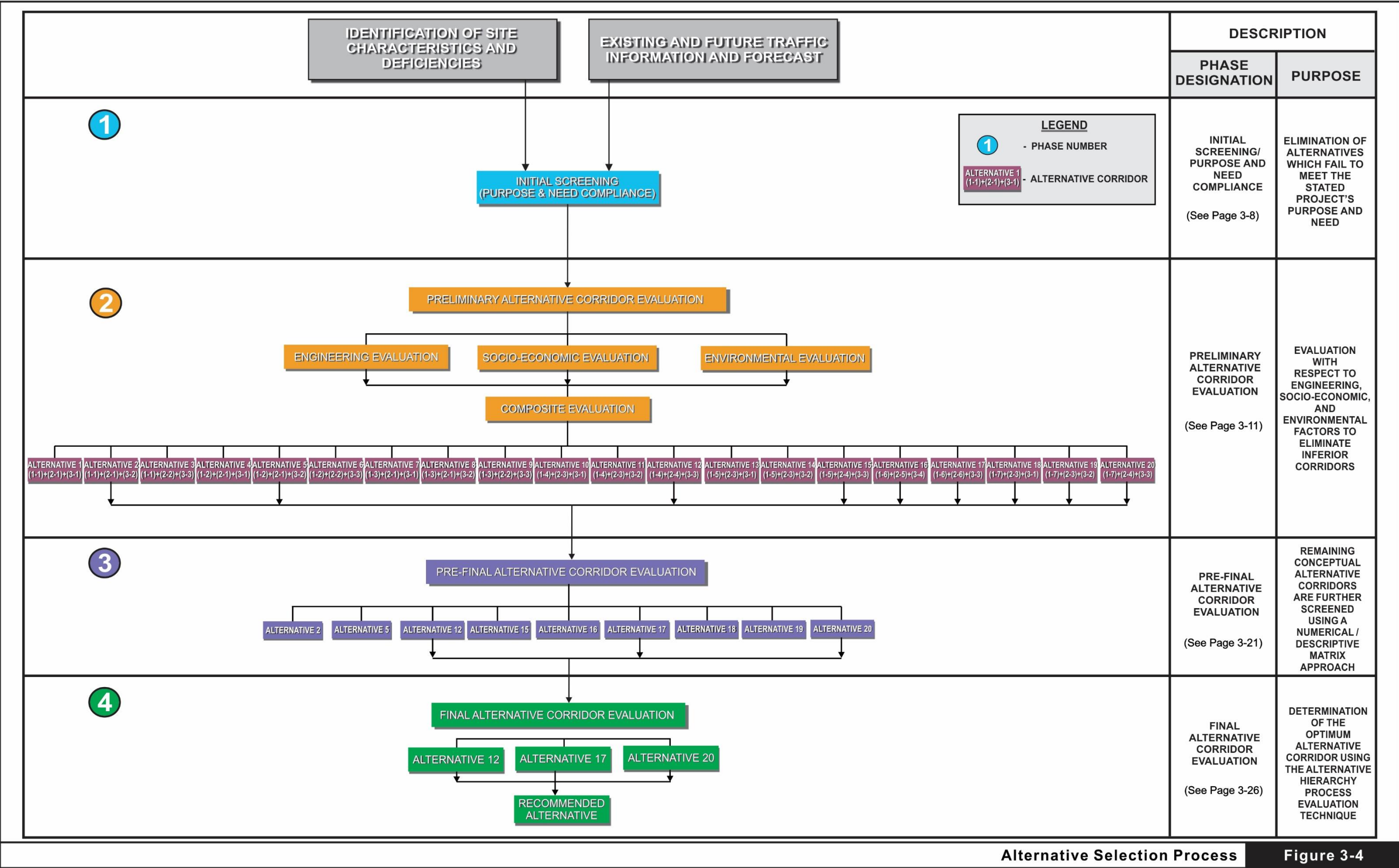
The objective of this task is to eliminate all inferior or suboptimal alternatives. As illustrated on **Figure 3-4**, a multi-phase corridor evaluation and selection process was employed to properly assess all possible alternative corridors within the study area.

3.3.1 Initial Screening/Purpose and Need Compliance

An initial screening to assess how well each alternative corridor satisfies the previously established project’s purpose and need was conducted. An alternative that does not satisfy the project’s purpose and need may be eliminated from further consideration.

In order to avoid elimination, each corridor alternative would need to provide improved connectivity/linkage as compared to the No-Build (or No Action) Alternative. In addition, each corridor option was evaluated for traffic volume accommodated, planning consistency, support of economic development and job creation, and enhanced intermodal opportunities and emergency services.

Table 3-1 provides the screening criteria and results related to the purpose and need compliance. In order to better appreciate the obtained outcome, color values were assigned to the results as follows: Green cells (generally high compliance); Yellow cells (generally moderate compliance) and Orange cells (generally low compliance). In addition, the evaluation was conducted by segments in order to more clearly judge the performance of each corridor option within each individual segment it traverses rather than its “overall” performance. This approach provides a more in-depth evaluation by showing where the corridor ranks higher and lower segmentally. The results from **Table 3-1** show that, generally, all the corridors have green cells except for three corridors with yellow cells. Corridor 1-1 crosses over the Ridgeview PUD within Segment 1. Corridors 3-1 and 3-4 impact the Valencia Community College Horizon West Campus and the Zanzibar PUD, respectively, within Segment 3. These potential impacts could affect the support of economic vitality and job creation.



Alternative Selection Process **Figure 3-4**

TABLE 3-1

PURPOSE AND NEED EVALUATION

| <div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="margin-bottom: 5px;">RATING</div> <div style="display: flex; gap: 10px;"> <div style="display: flex; align-items: center; gap: 5px;"> GOOD </div> <div style="display: flex; align-items: center; gap: 5px;"> FAIR </div> <div style="display: flex; align-items: center; gap: 5px;"> POOR </div> </div> <div style="margin-top: 5px;"> HIGH COMPLIANCE MEDIUM COMPLIANCE LOW COMPLIANCE </div> </div> | | SEGMENT 1 - CORRIDORS | | | | | | | SEGMENT 2 - CORRIDORS | | | | | | SEGMENT 3 - CORRIDORS | | | |
|--|--|-----------------------|-----|-----|-----|-----|-----|-----|-----------------------|-----|-----|-----|-----|-----|-----------------------|-----|-----|-----|
| | | ALTERNATIVES | 1-1 | 1-2 | 1-3 | 1-4 | 1-5 | 1-6 | 1-7 | 2-1 | 2-2 | 2-3 | 2-4 | 2-5 | 2-6 | 3-1 | 3-2 | 3-3 |
| Improved Connectivity/ Linkage A | | | | | | | | | | | | | | | | | | |
| Traffic Volume Accomodated B | | | | | | | | | | | | | | | | | | |
| Planning Consistency C | | | | | | | | | | | | | | | | | | |
| Support Economic Vitality and Job Creation D | | | | | | | | | | | | | | | | | | |
| Enhanced Intermodal Opportunities E | | | | | | | | | | | | | | | | | | |
| Enhanced Emergency Services F | | | | | | | | | | | | | | | | | | |

Basis of Evaluation

- A - Based on the provision of effective connection to the existing/proposed major transportation facility/network within the project area
- B - Projected traffic volume diverted from existing/projected congested transportation facilities
- C - Consistency with existing/proposed local/regional transportation plan
- D - Based on the perceived likelihood of desirable economic development adjacent to the proposed interchange locations and their compatibility with existing/proposed abutting land use
- E - Based on typical section design speed, high speed facility and strategic intermodal system criteria
- F - Based on access, safety and design measures

In summary, although some corridors address the purpose and need more efficiently than others, it was determined that all of the established corridors do generally address the purpose and need.

3.3.2 Preliminary Alternative Corridor Evaluation

The preliminary alternative corridor evaluation was based on their potential impact with respect to engineering, socio-economic, and environmental issues. As previously stated, the objective of this preliminary evaluation is to eliminate inferior or suboptimal alternatives. In order to simplify the nomenclature of the various corridor options, the previous segmental corridors were aggregated to produce alternative corridors spanning all three project segments. According to **Table 3-2**, twenty different aggregated corridors extending from US 27 to SR 429 resulted from these combinations.

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Table 3-2 – Preliminary Project Corridors

| Segment 1 Corridors | | Segment 2 Corridors | | Segment 3 Corridors | | Preliminary Corridor Alternatives |
|---------------------|---|---------------------|---|---------------------|---|-----------------------------------|
| 1-1 | + | 2-1 | + | 3-1 | = | Alternative 1 |
| | | | + | 3-2 | = | Alternative 2 |
| | + | 2-2 | + | 3-3 | = | Alternative 3 |
| 1-2 | + | 2-1 | + | 3-1 | = | Alternative 4 |
| | | | + | 3-2 | = | Alternative 5 |
| | + | 2-2 | + | 3-3 | = | Alternative 6 |
| 1-3 | + | 2-1 | + | 3-1 | = | Alternative 7 |
| | | | + | 3-2 | = | Alternative 8 |
| | + | 2-2 | + | 3-3 | = | Alternative 9 |
| 1-4 | + | 2-3 | + | 3-1 | = | Alternative 10 |
| | | | + | 3-2 | = | Alternative 11 |
| | + | 2-4 | + | 3-3 | = | Alternative 12 |
| 1-5 | + | 2-3 | + | 3-1 | = | Alternative 13 |
| | | | + | 3-2 | = | Alternative 14 |
| | + | 2-4 | + | 3-3 | = | Alternative 15 |
| 1-6 | + | 2-5 | + | 3-4 | = | Alternative 16 |
| | + | 2-6 | + | 3-3 | = | Alternative 17 |
| 1-7 | + | 2-3 | + | 3-1 | = | Alternative 18 |
| | | | + | 3-2 | = | Alternative 19 |
| | + | 2-4 | + | 3-3 | = | Alternative 20 |

In order to better appreciate the obtained results, numerical values/scores were assigned to the results of the evaluation tables (**Tables 3-3** through **3-5**) as follows: Green cells (generally desirable or positive impacts = +2); Yellow cells (generally minor or moderate impacts = +1) and Orange cells (generally undesirable or negative impacts = 0). In addition, each evaluation component was assigned a percentage value (weight) depending on its perceived degree of importance. For example, the importance of the total engineering component was judged to merit 37% (see **Table 3-3**) of the total decision while the environmental (see **Table 3-4**) and socio-economic components (see **Table 3-5**) were assigned relative weights of 25% and 38%, respectively. These parameter weightings were developed from the average of individual weighting sets prepared by members of the consultant’s team, reflecting a broad range of professional backgrounds. A more complete description of the evaluation criteria used in the analyses is included in **Appendix B**.

3.3.2.1 Engineering Evaluation

The engineering considerations used to screen the corridor alternatives are listed in **Table 3-3**. Engineering factors such as major utility conflicts, geometric considerations, floodplain encroachment, and traffic considerations were evaluated.

3.3.2.1.1 Traffic Forecasting

The design traffic forecasted for the Lake/Orange County Connector PD&E Study ACE was developed using the CFX 3.0 model that was created for the purpose of evaluating the Osceola County Master Plan projects: Osceola Parkway Extension, Northeast Connector Expressway, Southport Connector Expressway, and the Poinciana Parkway/I-4 Connector projects. The CFX 3.0 model was based on the Central Florida Regional Planning Model (CFRPM) v6.1 model. CFX 3.0 was validated for a 2015 base year with a concentration on the sub-area of Osceola County and south Orange County. This model covers all of Orange, Seminole, Osceola, Lake Sumter, Marion, Volusia, Flagler, Polk, Brevard counties, as well as connected portions of Indian River County. The future (or forecast) years for CFX 3.0 are 2025, 2035 and 2045, and comprises a total of 5,406 traffic analysis zones (TAZs) including the 56 external zones.

- **2045 Design Network**

The future year networks in the model contain the transportation improvements identified in the CFX, FDOT and county work programs, as well as the improvements included in the cost feasible plan from the LRTP for year 2040. In addition to these improvements, additional network links were added, specifically in the high growth areas and the study area. As previously mentioned, to ensure proper loading and distribution of trips on the Lake/Orange County Connector, there was zonal disaggregation in the study area. These zones are supported in part by a network of “development” roads or roads not considered in the 2040 LRTP or County transportation plans. The 2045 network improvements of note include:

**TABLE 3-3
PRELIMINARY ENGINEERING EVALUATION**

| EVALUATION COMPONENTS | | QUANTITATIVE MEASURE | SEGMENT | Alternative 1 | Alternative 2 | Alternative 3 | Alternative 4 | Alternative 5 | Alternative 6 | Alternative 7 | Alternative 8 | Alternative 9 | Alternative 10 | Alternative 11 | Alternative 12 | Alternative 13 | Alternative 14 | Alternative 15 | Alternative 16 | Alternative 17 | Alternative 18 | Alternative 19 | Alternative 20 | | | |
|---|-------------------|--|---------|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|------|-------|--|
| Component Weight | (1-1)+(2-1)+(3-1) | | | (1-1)+(2-1)+(3-2) | (1-1)+(2-2)+(3-3) | (1-2)+(2-1)+(3-1) | (1-2)+(2-1)+(3-2) | (1-2)+(2-2)+(3-3) | (1-3)+(2-1)+(3-1) | (1-3)+(2-1)+(3-2) | (1-3)+(2-2)+(3-3) | (1-4)+(2-3)+(3-1) | (1-4)+(2-3)+(3-2) | (1-4)+(2-4)+(3-3) | (1-5)+(2-3)+(3-1) | (1-5)+(2-3)+(3-2) | (1-5)+(2-4)+(3-3) | (1-6)+(2-5)+(3-4) | (1-6)+(2-6)+(3-3) | (1-7)+(2-3)+(3-1) | (1-7)+(2-3)+(3-2) | (1-7)+(2-4)+(3-3) | | | | |
| Major Utility Conflicts | 7% | No. of potential impacts | 1 | 18 PP, 2 WPS, & 1 LS | 18 PP, 2 WPS, & 1 LS | 18 PP, 2 WPS, & 1 LS | 14 PP, 1 WPS, & 1 LS | 14 PP, 1 WPS, & 1 LS | 14 PP, 1 WPS, & 1 LS | 14 PP, 1 WPS, & 1 LS | 14 PP, 1 WPS, & 1 LS | 14 PP, 1 WPS, & 1 LS | 4 PP | 4 PP | 4 PP | 4 PP | 4 PP | 4 PP | 4 PP | 4 PP | 4 PP | 4 PP | 4 PP | | | |
| | | | 2 | 1 WPS | 1 WPS | 1 WPS | 1 WPS | 1 WPS | 1 WPS | 1 WPS | 1 WPS | 1 WPS | 1 WPS | 1 WPS | 4 PP | 4 PP | 4 PP | 4 PP | 4 PP | 4 PP | 4 PP | 4 PP | 4 PP | 4 PP | 4 PP | |
| | | | 3 | 11 PP | 26 PP, 1 WPS | 8 PP | 11 PP | 26 PP, 1 WPS | 8 PP | 11 PP | 26 PP, 1 WPS | 8 PP | 11 PP | 26 PP, 1 WPS | 8 PP | 11 PP | 26 PP, 1 WPS | 8 PP | 11 PP | 26 PP, 1 WPS | 8 PP | 11 PP | 26 PP, 1 WPS | 8 PP | 11 PP | |
| Geometric Considerations | 11% | Interchange Location & Potential Effects | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| FloodPlain Encroachment | 7% | Acres | 1 | 9.91 | 9.91 | 9.91 | 15.58 | 15.58 | 15.58 | 32.90 | 32.90 | 32.90 | 35.06 | 35.06 | 35.06 | 41.22 | 41.22 | 41.22 | 37.52 | 37.52 | 44.17 | 44.17 | 44.17 | | | |
| | | | 2 | 43.53 | 43.53 | 18.24 | 43.53 | 43.53 | 18.24 | 43.53 | 43.53 | 18.24 | 41.78 | 41.78 | 20.62 | 41.78 | 41.78 | 20.62 | 51.78 | 45.64 | 41.78 | 41.78 | 20.62 | | | |
| | | | 3 | 1.87 | 3.20 | 46.30 | 1.87 | 3.20 | 46.30 | 1.87 | 3.20 | 46.30 | 1.87 | 3.20 | 46.30 | 1.87 | 3.20 | 46.30 | 47.05 | 46.30 | 1.87 | 3.20 | 46.30 | | | |
| Traffic Considerations | 12% | Traffic Volumes | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Total Engineering Weight | | 37% | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Engineering Score for each Alternative Corridor (higher score = higher performing alternative corridor) | | | | 1.50 | 1.65 | 1.61 | 1.65 | 1.44 | 1.47 | 1.54 | 1.33 | 1.29 | 1.68 | 1.47 | 1.47 | 1.32 | 1.47 | 1.47 | 1.61 | 1.47 | 1.79 | 1.58 | 1.58 | | | |
| REMARKS | | | | • Highest scoring Alternatives 18 and 10 are generally highest in all criteria with the exception of the interchange location considerations within segment 3. • Lowest scoring Alternatives 9 and 13 had generally the lowest scores due to potential utility conflict issues and somewhat lower traffic attractions. | | | | | | | | | | | | | | | | | | | | | | |

Sample Calculation for Alternative 1 (Segment 2) under Major Utility Conflicts

Relative Segmental Score = Segmental Rating **2 (Points)** x Major Utility Conflicts Component Weight **7%** = **0.14**

Legend

WPS Water Pump Station
 LS Lift Station
 PP Power Poles

- 6-lane SR 429 from Seidel Road to SR 414
- 6-lane US 27 from Hartwood Marsh Road to Green Cove Boulevard
- 2-lane New Independence Parkway Extension to US 27
- 4-lane CR 455 extended to Western Way Extension
- 2-lane Schofield Road from SR 429 to US 27
- 4-lane Avalon Road from US 192 to New Independence Parkway
- 4-lane Lake/Orange County Connector Project, and;
- 4-lane Western Way Extension to Sawgrass Bay Boulevard

The future Schofield Road Spur to US 27 was not included. Build and No-Build networks were created using the corridor alternative alignments and include the other improvements and development roads.

- **Tolls**

For the analysis, the toll rate was set to \$0.18 per mile in 2017 for design traffic, consistent with the toll rate established for other planning studies. Toll rates were escalated at 1.5% per year according to the CFX Customer First Toll Policy. **Appendix B** includes the results of the traffic modeling efforts conducted for this evaluation.

3.3.2.1.2 Results of Engineering Evaluation

Based on the results of the preliminary engineering evaluation (**Table 3-3**), Alternative 18 with a score of 1.79 and Alternative 10 with a score of 1.68 generally scored the highest in most criteria. Alternative 9 was the least effective option with a score of 1.29.

3.3.2.2 Environmental Evaluation

The potential direct, indirect, and cumulative effects on the environment of all competing corridors were considered next. The following parameters were evaluated: impacts to wetlands, wildlife and habitat, conservation lands/mitigation banks, farmlands, and contamination. **Table 3-4** illustrates the results of the evaluation of these environmental parameters. According to the results obtained, Corridor 5 had the highest ranking with a score of 1.29 closely followed by Corridors 2 and 4, both with a score of 1.27. Corridor 16 was the least effective option with a score of 0.96.

**TABLE 3-4
PRELIMINARY ENVIRONMENTAL EVALUATION**

| EVALUATION COMPONENTS | | QUANTITATIVE MEASURE | SEGMENT | Alternative 1 | Alternative 2 | Alternative 3 | Alternative 4 | Alternative 5 | Alternative 6 | Alternative 7 | Alternative 8 | Alternative 9 | Alternative 10 | Alternative 11 | Alternative 12 | Alternative 13 | Alternative 14 | Alternative 15 | Alternative 16 | Alternative 17 | Alternative 18 | Alternative 19 | Alternative 20 | | |
|---|----|---|---------|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------|------|
| Component Weight | | | | (1-1)+(2-1)+(3-1) | (1-1)+(2-1)+(3-2) | (1-1)+(2-2)+(3-3) | (1-2)+(2-1)+(3-1) | (1-2)+(2-1)+(3-2) | (1-2)+(2-2)+(3-3) | (1-3)+(2-1)+(3-1) | (1-3)+(2-1)+(3-2) | (1-3)+(2-2)+(3-3) | (1-4)+(2-3)+(3-1) | (1-4)+(2-3)+(3-2) | (1-4)+(2-4)+(3-3) | (1-5)+(2-3)+(3-1) | (1-5)+(2-3)+(3-2) | (1-5)+(2-4)+(3-3) | (1-6)+(2-5)+(3-4) | (1-6)+(2-6)+(3-3) | (1-7)+(2-3)+(3-1) | (1-7)+(2-3)+(3-2) | (1-7)+(2-4)+(3-3) | | |
| Wetlands (using Land Use Data) | 7% | Acres | 1 | 7.94 | 7.94 | 7.94 | 10.89 | 10.89 | 10.89 | 23.34 | 23.34 | 23.34 | 25.74 | 25.74 | 25.74 | 32.29 | 32.29 | 32.29 | 29.92 | 29.92 | 20.59 | 20.59 | 20.59 | | |
| | | | 2 | 14.36 | 14.36 | 1.52 | 14.36 | 14.36 | 1.52 | 14.36 | 14.36 | 1.52 | 14.36 | 15.45 | 15.45 | 3.39 | 15.45 | 15.45 | 3.39 | 10.51 | 10.52 | 15.45 | 15.45 | 3.39 | |
| | | | 3 | 0.77 | 0.8 | 11.88 | 0.77 | 0.8 | 11.88 | 0.77 | 0.8 | 11.88 | 0.77 | 0.8 | 11.88 | 0.77 | 0.8 | 11.88 | 3.53 | 11.88 | 0.77 | 0.80 | 11.88 | | |
| Wildlife and Habitat | 5% | Average Wildlife Index Ranking; Ranked 1-10, 10 is the most important | 1 | 2.18 | 2.18 | 2.18 | 2.48 | 2.48 | 2.48 | 2.57 | 2.57 | 2.57 | 2.54 | 2.54 | 2.54 | 2.89 | 2.89 | 2.89 | 2.92 | 2.92 | 2.59 | 2.59 | 2.59 | | |
| | | | 2 | 1.91 | 1.91 | 2.06 | 1.91 | 1.91 | 2.06 | 1.91 | 1.91 | 2.06 | 1.91 | 1.91 | 2.08 | 1.91 | 1.91 | 2.08 | 1.91 | 1.95 | 1.91 | 1.91 | 2.08 | | |
| | | | 3 | 2.33 | 2.28 | 2.13 | 2.33 | 2.28 | 2.28 | 2.33 | 2.28 | 2.13 | 2.33 | 2.28 | 2.13 | 2.28 | 2.13 | 2.28 | 2.13 | 1.69 | 2.13 | 2.33 | 2.28 | 2.13 | |
| Conservation Lands/Mitigation Banks | 8% | Acres | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 3 | 0 | 0 | 3.72 | 0 | 0 | 3.72 | 0 | 0 | 3.72 | 0 | 0 | 3.72 | 0 | 0 | 3.72 | 0 | 3.72 | 8.46 | 3.72 | 0 | 0 | 3.72 |
| Farmlands (NRCS Data, Prime Farmland) | 2% | Acres | 1 | 170.7 | 170.7 | 170.7 | 151.24 | 151.24 | 151.24 | 153.26 | 153.26 | 153.26 | 119.56 | 119.56 | 119.56 | 139.27 | 139.27 | 139.27 | 126.73 | 126.73 | 129.75 | 129.75 | 129.75 | | |
| | | | 2 | 134.87 | 134.87 | 134.87 | 154.56 | 134.87 | 154.56 | 134.87 | 134.87 | 154.56 | 134.87 | 144.72 | 144.72 | 149.63 | 144.72 | 144.72 | 149.63 | 118.57 | 126.53 | 144.72 | 144.72 | 149.63 | |
| | | | 3 | 108.82 | 81.77 | 47.35 | 108.82 | 81.77 | 47.35 | 108.82 | 81.77 | 47.35 | 108.82 | 81.77 | 47.35 | 108.82 | 81.77 | 47.35 | 108.82 | 81.77 | 47.35 | 108.82 | 81.77 | 47.35 | |
| Contamination | 3% | No. of Sites | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | |
| | | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | |
| | | | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Total Environmental Weight | | 25% | | | | | | | | | | | | | | | | | | | | | | | |
| Total Environmental Score for each Alternative Corridor (higher score = higher performing alternative corridor) | | | | 1.25 | 1.27 | 1.19 | 1.27 | 1.29 | 1.21 | 1.20 | 1.22 | 1.14 | 1.14 | 1.16 | 1.08 | 1.14 | 1.16 | 1.08 | 0.96 | 1.07 | 1.14 | 1.16 | 1.08 | | |
| REMARKS | | | | <ul style="list-style-type: none"> Alternative 5 generally scored the highest in all criteria, closely followed by Alternatives 2 and 4. On the other hand Alternative 16 was the least desirable with significant wetland impacts within segment 1 and conservation lands/mitigation banks impacts within Segment 3 Initial wetland impacts are based on Land Use Data and/or NWI and may change as wetlands are surveyed and assessed. | | | | | | | | | | | | | | | | | | | | | |

Sample Calculation for Alternative 1 (Segment 2) under Wetlands

Relative Segmental Score = Segmental Rating **1 (Point)** x Wetlands Component Weight **7%** = **0.07**

3.3.2.3 Socio-Economic Evaluation

The potential short and long-term effects of each corridor alternative on the adjacent communities and their resources are of vital importance. The following parameters were evaluated: impacts to approved developments/future land use, historical/archaeological, parks/recreational facilities, and right-of-way impacts. **Table 3-5** illustrates the results of the preliminary socio-economic evaluation. According to the results obtained, Corridor 12 had the highest ranking with a score of 1.41 closely followed by Corridors 15 and 17 both with a score of 1.34. Corridor 7 was the least effective option with a score of 0.76.

3.3.2.4 Preliminary Evaluation Elimination Process

Table 3-6 summarizes the results obtained previously on **Tables 3-3** (engineering evaluation), **3-4** (environmental evaluation), and **3-5** (socio-economic evaluation). The resulting total scores of these previous tables are shown in the last row of **Table 3-6**. The higher ranking “superior” alternative corridors are highlighted in yellow in **Table 3-7**.

According to **Table 3-7**, Alternative Corridors 2, 5, 12, 15, 16, 17, 18, 19 and 20 were selected for further evaluation based on the criteria that they exceeded the group median value of 3.77 and are within the standard deviation of 0.19. As previously noted, the objective of this phase is not necessarily to determine which options are the best but rather to identify which alternatives are clearly inferior so that they can be eliminated before even more stringent evaluation criteria and procedures are used during the next evaluation phase. The results obtained show that Alternative Corridors 1, 3, 4, 6, 7, 8, 9, 10, 11, 13, and 14 are clearly inferior and were thus eliminated from further consideration.

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**TABLE 3-5
PRELIMINARY SOCIO-ECONOMIC EVALUATION**

| EVALUATION COMPONENTS | | QUANTITATIVE MEASURE | SEGMENT | Alternative 1 | Alternative 2 | Alternative 3 | Alternative 4 | Alternative 5 | Alternative 6 | Alternative 7 | Alternative 8 | Alternative 9 | Alternative 10 | Alternative 11 | Alternative 12 | Alternative 13 | Alternative 14 | Alternative 15 | Alternative 16 | Alternative 17 | Alternative 18 | Alternative 19 | Alternative 20 | | |
|--|-----|---|---------|--|---|--|---|---|--|--|--|--|--|--|--|---|--|--|--|--|--|---|---|---|---|
| Component Weight | | | | (1-1)+(2-1)+ (3-1) | (1-1)+(2-1)+ (3-2) | (1-1)+(2-2)+ (3-3) | (1-2)+(2-1)+ (3-1) | (1-2)+(2-1)+ (3-2) | (1-2)+(2-2)+ (3-3) | (1-3)+(2-1)+ (3-1) | (1-3)+(2-1)+ (3-2) | (1-3)+(2-2)+ (3-3) | (1-4)+(2-3)+ (3-1) | (1-4)+(2-3)+ (3-2) | (1-4)+(2-4)+ (3-3) | (1-5)+(2-3)+ (3-1) | (1-5)+(2-3)+ (3-2) | (1-5)+(2-4)+ (3-3) | (1-6)+(2-5)+ (3-4) | (1-6)+(2-6)+ (3-3) | (1-7)+(2-3)+ (3-1) | (1-7)+(2-3)+ (3-2) | (1-7)+(2-4)+ (3-3) | | |
| Approved Developments/Future Land Use | 15% | Acres | 1 | 109.95 | 109.95 | 109.95 | 43.27 | 43.27 | 43.27 | 24.35 | 24.35 | 24.35 | 3.68 | 3.68 | 3.68 | 1.09 | 1.09 | 1.09 | 0.00 | 0.00 | 3.68 | 3.68 | 3.68 | | |
| | | | 2 | 69.83 | 69.83 | 70.72 | 69.83 | 69.83 | 76.17 | 69.83 | 69.83 | 70.72 | 75.28 | 75.28 | 72.64 | 75.28 | 75.28 | 72.64 | 72.63 | 72.4 | 75.28 | 75.28 | 72.64 | | |
| | | | 3 | 36.82 | 16.36 | 0 | 36.82* | 16.36 | 0 | 36.82* | 16.36 | 0 | 36.82* | 16.36 | 0 | 36.82* | 16.36 | 0 | 44.71 | 0 | 36.82* | 16.36 | 0 | | |
| Historical/Archaeological | 7% | Number of Sites | 1 | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | 1 small archaeological site intersecting (not eligible) | 1 small archaeological site intersecting (not eligible) | 1 small archaeological site intersecting (not eligible) | 1 small archaeological site intersecting (not eligible) | 1 small archaeological site intersecting (not eligible) | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | | |
| | | | 2 | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 medium archaeological site intersecting (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 medium archaeological site intersecting (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 medium archaeological site intersecting (not eligible) | 1 medium archaeological site intersecting (not eligible) | 1 medium archaeological site intersecting (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 medium archaeological site intersecting (not eligible) | 1 medium archaeological site intersecting (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 2 medium archaeological sites intersecting (not eligible) | 2 medium archaeological sites intersecting (not eligible) | 1 medium archaeological site intersecting (not eligible) | 1 medium archaeological site intersecting (not eligible) | 1 historic structure within 100m/330ft (not eligible) |
| | | | 3 | 1 small archaeological site intersecting (not eligible) | 1 small archaeological site intersecting (not eligible) | No previously recorded cultural resources intersecting | 1 small archaeological site intersecting (not eligible) | 1 small archaeological site intersecting (not eligible) | No previously recorded cultural resources intersecting | 1 small archaeological site intersecting (not eligible) | 1 small archaeological site intersecting (not eligible) | No previously recorded cultural resources intersecting | 1 small archaeological site intersecting (not eligible) | 1 small archaeological site intersecting (not eligible) | No previously recorded cultural resources intersecting | 1 small archaeological site intersecting (not eligible) | 1 small archaeological site intersecting (not eligible) | No previously recorded cultural resources intersecting | 1 small archaeological site intersecting (not eligible) | 1 small archaeological site intersecting (not eligible) | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | 1 small archaeological site intersecting (not eligible) | 1 small archaeological site intersecting (not eligible) |
| Parks/Recreational Facilities | 7% | Interaction with Planned Recreational Trail or State Park | 1 | YES | YES | YES | YES | YES | YES | YES | YES | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | | |
| | | | 2 | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | NO | YES | YES | NO | NO | NO | YES | YES | NO | | |
| | | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Right-of-way Impacts | 9% | Acres per land use type; hydric (wetlands and waterbodies) | 1 | AGRICULTURE 86.64 NATURAL 3.77 HYDRIC 4.15 TOTAL 94.56 | AGRICULTURE 86.64 NATURAL 3.77 HYDRIC 4.15 TOTAL 94.56 | AGRICULTURE 86.64 NATURAL 3.77 HYDRIC 4.15 TOTAL 94.56 | AGRICULTURE 86.95 NATURAL 48.96 HYDRIC 8.62 TOTAL 144.53 | AGRICULTURE 86.95 NATURAL 48.96 HYDRIC 8.62 TOTAL 144.53 | AGRICULTURE 86.95 NATURAL 48.96 HYDRIC 8.62 TOTAL 144.53 | AGRICULTURE 93.63 NATURAL 49.34 HYDRIC 26.10 TOTAL 172.07 | AGRICULTURE 93.63 NATURAL 49.34 HYDRIC 26.10 TOTAL 172.07 | AGRICULTURE 93.63 NATURAL 49.34 HYDRIC 26.10 TOTAL 172.07 | AGRICULTURE 95.62 NATURAL 49.37 HYDRIC 32.81 TOTAL 177.80 | AGRICULTURE 95.62 NATURAL 49.37 HYDRIC 32.81 TOTAL 177.80 | AGRICULTURE 95.62 NATURAL 49.37 HYDRIC 32.81 TOTAL 177.80 | AGRICULTURE 98.62 NATURAL 42.29 HYDRIC 37.18 TOTAL 178.09 | AGRICULTURE 98.62 NATURAL 42.29 HYDRIC 37.18 TOTAL 178.09 | AGRICULTURE 98.62 NATURAL 42.29 HYDRIC 37.18 TOTAL 178.09 | AGRICULTURE 82.25 NATURAL 42.12 HYDRIC 34.62 TOTAL 158.99 | AGRICULTURE 82.25 NATURAL 42.12 HYDRIC 34.62 TOTAL 158.99 | AGRICULTURE 79.34 NATURAL 56.34 HYDRIC 40.5 TOTAL 176.18 | AGRICULTURE 79.34 NATURAL 56.34 HYDRIC 40.5 TOTAL 176.18 | AGRICULTURE 79.34 NATURAL 56.34 HYDRIC 40.5 TOTAL 176.18 | | |
| | | | 2 | AGRICULTURE 85.87 NATURAL 1.92 HYDRIC 21.75 TOTAL 109.54 | AGRICULTURE 85.87 NATURAL 1.92 HYDRIC 21.75 TOTAL 109.54 | AGRICULTURE 105.02 NATURAL 4.91 HYDRIC 12.49 TOTAL 122.42 | AGRICULTURE 85.87 NATURAL 1.92 HYDRIC 21.75 TOTAL 109.54 | AGRICULTURE 85.87 NATURAL 1.92 HYDRIC 21.75 TOTAL 109.54 | AGRICULTURE 105.02 NATURAL 4.91 HYDRIC 12.49 TOTAL 122.42 | AGRICULTURE 85.87 NATURAL 1.92 HYDRIC 21.75 TOTAL 109.54 | AGRICULTURE 85.87 NATURAL 1.92 HYDRIC 21.75 TOTAL 109.54 | AGRICULTURE 105.02 NATURAL 4.91 HYDRIC 12.49 TOTAL 122.42 | AGRICULTURE 84.21 NATURAL 1.92 HYDRIC 21.78 TOTAL 107.91 | AGRICULTURE 84.21 NATURAL 1.92 HYDRIC 21.78 TOTAL 107.91 | AGRICULTURE 84.21 NATURAL 1.92 HYDRIC 21.78 TOTAL 107.91 | AGRICULTURE 96.86 NATURAL 5.92 HYDRIC 12.49 TOTAL 115.27 | AGRICULTURE 84.21 NATURAL 1.92 HYDRIC 21.78 TOTAL 107.91 | AGRICULTURE 84.21 NATURAL 1.92 HYDRIC 21.78 TOTAL 107.91 | AGRICULTURE 96.86 NATURAL 5.92 HYDRIC 12.49 TOTAL 115.27 | AGRICULTURE 82.36 NATURAL 22.16 HYDRIC 17.04 TOTAL 121.56 | AGRICULTURE 91.12 NATURAL 17.04 HYDRIC 10.81 TOTAL 119.07 | AGRICULTURE 84.21 NATURAL 1.92 HYDRIC 21.78 TOTAL 107.91 | AGRICULTURE 84.21 NATURAL 1.92 HYDRIC 21.78 TOTAL 107.91 | AGRICULTURE 96.86 NATURAL 5.92 HYDRIC 12.49 TOTAL 115.27 | |
| | | | 3 | AGRICULTURE 51.95 NATURAL 18.37 HYDRIC 0.77 TOTAL 71.09 | AGRICULTURE 46.45 NATURAL 17.49 HYDRIC 0.8 TOTAL 64.74 | AGRICULTURE 47.25 NATURAL 26.46 HYDRIC 12.49 TOTAL 86.2 | AGRICULTURE 51.95 NATURAL 18.37 HYDRIC 0.77 TOTAL 71.09 | AGRICULTURE 46.45 NATURAL 17.49 HYDRIC 0.8 TOTAL 64.74 | AGRICULTURE 47.25 NATURAL 26.46 HYDRIC 12.49 TOTAL 86.2 | AGRICULTURE 51.95 NATURAL 18.37 HYDRIC 0.77 TOTAL 71.09 | AGRICULTURE 46.45 NATURAL 17.49 HYDRIC 0.8 TOTAL 64.74 | AGRICULTURE 47.25 NATURAL 26.46 HYDRIC 12.49 TOTAL 86.2 | AGRICULTURE 51.95 NATURAL 18.37 HYDRIC 0.77 TOTAL 71.09 | AGRICULTURE 46.45 NATURAL 17.49 HYDRIC 0.8 TOTAL 64.74 | AGRICULTURE 47.25 NATURAL 26.46 HYDRIC 12.49 TOTAL 86.2 | AGRICULTURE 53.28 NATURAL 26.45 WETLANDS 12.48 TOTAL 92.21 | AGRICULTURE 51.95 NATURAL 18.37 HYDRIC 0.77 TOTAL 71.09 | AGRICULTURE 46.45 NATURAL 17.49 HYDRIC 0.8 TOTAL 64.74 | AGRICULTURE 47.25 NATURAL 26.46 HYDRIC 12.49 TOTAL 86.2 | AGRICULTURE 40.62 NATURAL 0.08 HYDRIC 5.72 TOTAL 46.42 | AGRICULTURE 47.25 NATURAL 26.46 HYDRIC 12.49 TOTAL 86.2 | AGRICULTURE 51.95 NATURAL 18.37 HYDRIC 0.77 TOTAL 71.09 | AGRICULTURE 46.45 NATURAL 17.49 HYDRIC 0.8 TOTAL 64.74 | AGRICULTURE 47.25 NATURAL 26.46 HYDRIC 12.49 TOTAL 86.2 | |
| Total Socio-Economic Weight | | 38% | | | | | | | | | | | | | | | | | | | | | | | |
| Total Socio-Economic Score for each Alternative Corridor (higher score = higher performing alternative corridor) | | | | 0.85 | 0.94 | 0.92 | 0.85 | 1.09 | 1.07 | 0.76 | 1.00 | 0.98 | 0.90 | 1.14 | 1.41 | 0.83 | 1.07 | 1.34 | 1.28 | 1.34 | 0.90 | 1.14 | 1.41 | | |
| REMARKS | | | | * Alternative 12 had the highest total score generally due to its avoidance of significant impacts in two of the three segments to approved developments, historical/archaeological, and park and recreational facilities. * Alternative 1 on the other hand ranked the lowest with potential significant land use impacts within segment 1 and potential impacts to parks and recreational facilities within the first two segments. | | | | | | | | | | | | | | | | | | | | | |

* Major impacts to to the Future Valencia College West Campus and Horizon West Town Center

Sample Calculation for Alternative 1 (Segment 2) under Approved Developments/Future Land Use

Relative Segmental Score = Segmental Rating **1 (Point)** x Approved Developments/Future Land **15%** = **0.15**

**TABLE 3-6
PRELIMINARY COMPOSITE RESULTS**

| ALTERNATIVES | Alternative 1 | Alternative 2 | Alternative 3 | Alternative 4 | Alternative 5 | Alternative 6 | Alternative 7 | Alternative 8 | Alternative 9 | Alternative 10 | Alternative 11 | Alternative 12 | Alternative 13 | Alternative 14 | Alternative 15 | Alternative 16 | Alternative 17 | Alternative 18 | Alternative 19 | Alternative 20 |
|----------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | (1-1)+(2-1)+ (3-1) | (1-1)+(2-1)+ (3-2) | (1-1)+(2-2)+ (3-3) | (1-2)+(2-1)+ (3-1) | (1-2)+(2-1)+ (3-2) | (1-2)+(2-2)+ (3-3) | (1-3)+(2-1)+ (3-1) | (1-3)+(2-1)+ (3-2) | (1-3)+(2-2)+ (3-3) | (1-4)+(2-3)+ (3-1) | (1-4)+(2-3)+ (3-2) | (1-4)+(2-4)+ (3-3) | (1-5)+(2-3)+ (3-1) | (1-5)+(2-3)+ (3-2) | (1-5)+(2-4)+ (3-3) | (1-6)+(2-5)+ (3-4) | (1-6)+(2-6)+ (3-3) | (1-7)+(2-3)+ (3-1) | (1-7)+(2-3)+ (3-2) | (1-7)+(2-4)+ (3-3) |
| Engineering | 1.50 | 1.65 | 1.61 | 1.65 | 1.44 | 1.47 | 1.54 | 1.33 | 1.29 | 1.68 | 1.47 | 1.47 | 1.32 | 1.47 | 1.47 | 1.61 | 1.47 | 1.79 | 1.58 | 1.58 |
| Environmental | 1.25 | 1.27 | 1.19 | 1.27 | 1.29 | 1.21 | 1.20 | 1.22 | 1.14 | 1.14 | 1.16 | 1.08 | 1.14 | 1.16 | 1.08 | 0.96 | 1.07 | 1.14 | 1.16 | 1.08 |
| Socio-Economic | 0.85 | 0.94 | 0.92 | 0.85 | 1.09 | 1.07 | 0.76 | 1.00 | 0.98 | 0.90 | 1.14 | 1.41 | 0.83 | 1.07 | 1.34 | 1.28 | 1.34 | 0.90 | 1.14 | 1.41 |
| TOTAL | 3.60 | 3.86 | 3.72 | 3.77 | 3.82 | 3.75 | 3.50 | 3.55 | 3.41 | 3.72 | 3.77 | 3.96 | 3.29 | 3.70 | 3.89 | 3.85 | 3.88 | 3.83 | 3.88 | 4.07 |

**TABLE 3-7
PRELIMINARY ALTERNATIVE CORRIDOR ELIMINATION**

| Alternative | SCORE | MEDIAN | STANDARD DEVIATION | REASONS FOR ELIMINATION |
|-------------|-------|--------|--------------------|-------------------------|
| 1 | 3.60 | 3.77 | 0.19 | Failed Criterion #1 |
| 2 | 3.86 | | | Remains Viable |
| 3 | 3.72 | | | Failed Criterion #1 |
| 4 | 3.77 | | | Failed Criterion #1 |
| 5 | 3.82 | | | Remains Viable |
| 6 | 3.75 | | | Failed Criterion #1 |
| 7 | 3.50 | | | Failed Criterion #1 |
| 8 | 3.55 | | | Failed Criterion #1 |
| 9 | 3.41 | | | Failed Criterion #1 |
| 10 | 3.72 | | | Failed Criterion #1 |
| 11 | 3.77 | | | Failed Criterion #1 |
| 12 | 3.96 | | | Remains Viable |
| 13 | 3.29 | | | Failed Criterion #1 |
| 14 | 3.70 | | | Failed Criterion #1 |
| 15 | 3.89 | | | Remains Viable |
| 16 | 3.85 | | | Remains Viable |
| 17 | 3.88 | | | Remains Viable |
| 18 | 3.83 | | | Remains Viable |
| 19 | 3.88 | | | Remains Viable |
| 20 | 4.07 | | | Remains Viable |

Selection Criteria

- #1 - Only those alternatives which score higher than the median value for the group will be selected
- #2 - The maximum gap between the last selected alternative and the next must not be greater than one standard deviation

3.3.2.5 Initial Agency/Public Presentation and Modifications

At this juncture of the project schedule, a presentation of preliminary findings was conducted to seek additional input from various agencies, stakeholders and the public in general. Details concerning this presentation and the results of the public involvement effort are shown in **Section 3.4** of this report. As a result of this meeting, the following segmental alternative modifications were implemented.

Modification #1: The original western terminus of segmental alternatives 1-5 and 1-6 was near the project's southwestern limit very close to Frank Jarrell Road. This close proximity created access management problems for the potential placement of an interchange at this site. It was thus recommended to modify the terminus of both alternatives slightly to the north around Lake Adain and away from Frank Jarrell Road.

Modification #2: Although the original alignment of Corridor 2-1 generally followed Schofield Road, it introduced a significant curve around the Schofield Tract in order to avoid potential impacts to that Florida Forever conservation resource. Additional research revealed that the parcel abutting Schofield Road is not part of the Schofield Tract. In view of this fact, Corridor 2-1 was modified to provide a straighter and more direct alignment closely following Schofield Road.

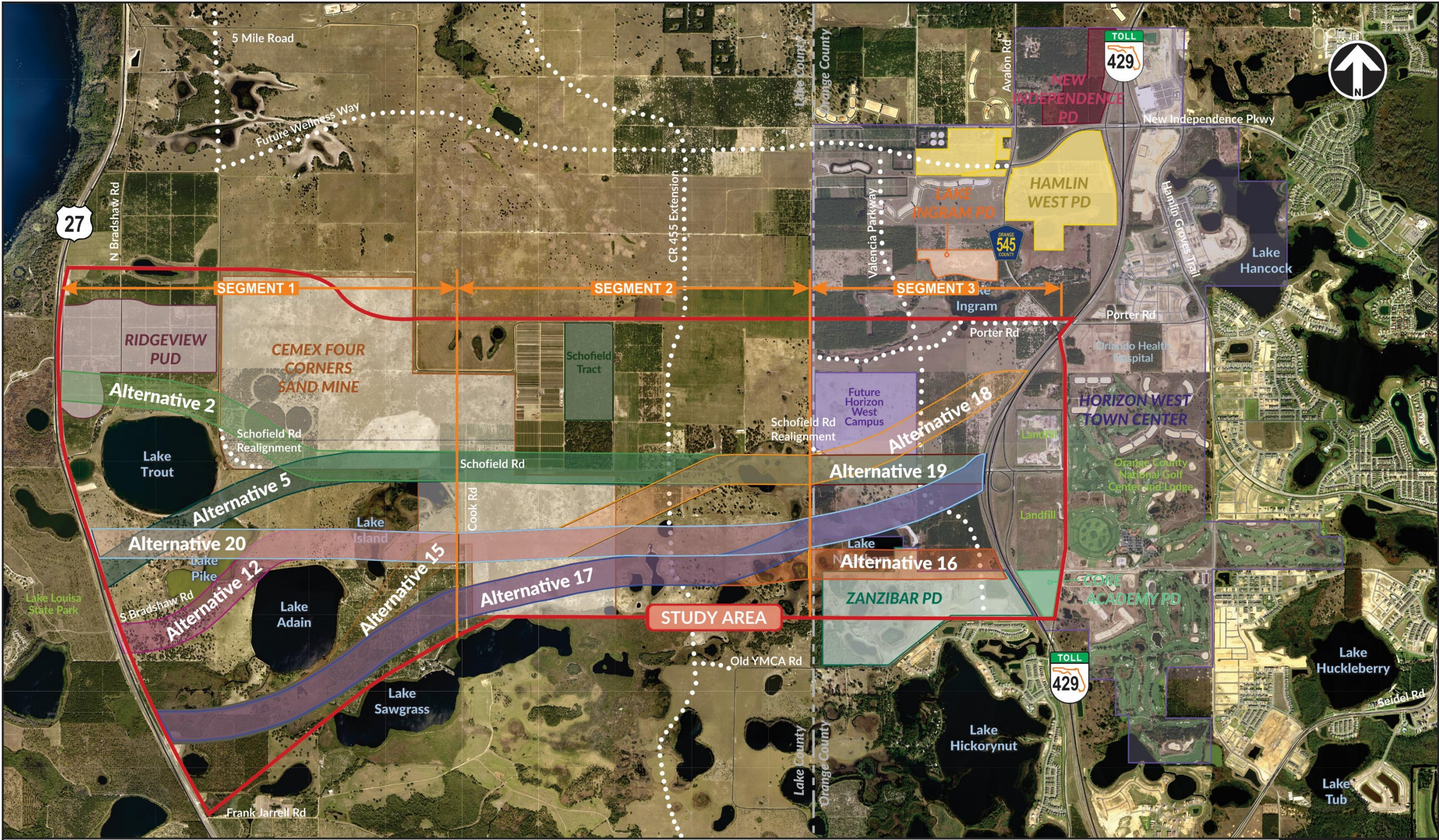
It should be noted that these relatively minor modifications do not appreciably change any of the results previously presented in this report.

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3.3.3 Pre-Final Alternative Corridor Evaluation

In order to refine the previous analysis, a multi-objective approach using a weighted numerical/descriptive technique was used for the remaining alternative corridors. **Table 3-8** is a numerical/descriptive matrix, which describes and evaluates the features of the remaining corridor alternatives (see **Figure 3-5**). The evaluation used involved the generation of a weighting scheme for each of the evaluation parameters. The evaluation parameters generally fall within three general criteria categories: engineering, environmental and socio-economic. Ten (10) different evaluation sub-criteria were used. Each sub-criteria was assigned a value depending on its perceived degree of importance. These criteria and sub-criteria weightings were developed from the average of individual weighting sets prepared by members of the consultant team reflecting a broad range of professional backgrounds. In addition, the alternative performance with respect to each parameter was compared using two benchmarks: 1) the overall effect on the specified parameter and/or; 2) the relative effect between the competing alternatives. The overall effect received one of the five judgmental values (++ = 1.00, + = 0.80, o = 0.60, - = 0.40, - - = 0.20). If, however, any of the alternatives had an overall negative effect, then the worst alternative received a (- -) and the relatively better alternative received a higher score (-). If any two values were approximately equal then they both received the relatively lowest score. If the alternatives had an overall positive effect then the best alternative received a (++) and the relatively worse alternative received a lower score (+). A common value, therefore, signifies an equal overall and relative effect. This evaluation involves a combination of both qualitative and quantitative values resulting in an overall score. Each score indicated on the matrix is the result of multiplying the judgmental analysis rating times the relative weight for that parameter. For example, on **Table 3-8**, Corridor 2 under the "Geometric Features" parameter was given a (-) designation (judgmental value = 0.4) due to the potential access management issue resulting from its close proximity to Lake Louisa State Park's main entrance and the potential operational issues due to the close proximity of the proposed CR 455 interchange to Schofield Road. This judgmental value of 0.4 was then multiplied by the relative weight of the "Geometric Features" parameter (12.0) resulting in an overall score of 4.8. Those alternative options found most feasible, which merited further development and evaluation, are shown in yellow.

| LEGEND | | | | | | | | | | | | |
|--|---|---|--|--|---|---|---|---|--|--|--------|-------------|
| ++ | SUBSTANTIALLY POSITIVE EFFECT OR BEST ALTERNATIVE | | | | | | | | | | 1.0 | |
| + | GENERALLY POSITIVE EFFECT OR GOOD ALTERNATIVE | | | | | | | | | | 0.8 | |
| O | GENERALLY NO EFFECT OR MODERATE ALTERNATIVE | | | | | | | | | | 0.6 | |
| - | GENERALLY NEGATIVE EFFECT OR INFERIOR ALTERNATIVE | | | | | | | | | | 0.4 | |
| -- | GENERALLY NEGATIVE EFFECT OR WORST ALTERNATIVE | | | | | | | | | | 0.2 | |
| TABLE 3-8 PRE-FINAL ALTERNATIVE CORRIDOR EVALUATION | | | | | | | | | | | | |
| ALTERNATIVES | ENGINEERING | | | | ENVIRONMENTAL | | | | SOCIO-ECONOMIC | | | TOTAL SCORE |
| | GEOMETRIC FEATURES | TRAFFIC ATTRactions | CONNECTIVITY/ DIRECTNESS | UTILITY IMPACTS | CONSERVATION LANDS | WETLAND IMPACTS | RECREATIONAL RESOURCES | APPROVED DEVELOPMENT IMPACTS | CONTROVERSY POTENTIAL | RIGHT-OF-WAY IMPACTS | | |
| 2 (1-1) + (2-1) + (3-2) | Potential access management issue due to the close proximity of Lake Louisa State Park main entrance. Potential operational issues due to the close proximity of the proposed CR 455 interchange to Schofield Road. | - Projected to attract 24,300 AADT (generally higher). | + Provides systems connectivity / Good directness. | + Potential to impact 3.5 miles of major utilities along Schofield Road and other minor utilities (highest overall). | -- No direct impacts to conservation lands. | + Potentially 30.29 acres of wetland impacts (least overall). | + Potentially minor visual and noise impacts due to close proximity to Lake Louisa State Park cabins. | o Potential impacts to Ridgeview PUD (moderate), CEMEX sand mine (minor) and Valencia College campus (minor). | - Highest controversy caused by the potential impacts to the Ridgeview PUD, to the parcels that are located in the Horizon West Town Center that front Schofield Road, the Southern Hills Farms, and a limited access facility located in close proximity to Schofield Road. | -- Potentially 334.46 acres of right-of-way impacts (moderate). | + 56.8 | |
| 5 (1-2) + (2-1) + (3-2) | Potential operational issues due to the close proximity of the proposed CR 455 interchange to Schofield Road. | o Projected to attract 23,700 AADT (generally medium). | o Provides systems connectivity / Good directness. | + Potential to impact 3.5 miles of major utilities along Schofield Road and other minor utilities (highest overall). | -- No direct impacts to conservation lands. | + Potentially 33.24 acres of wetland impacts (relatively minor). | + Potentially minor visual and noise impacts due to close proximity to Lake Louisa State Park cabins. | o Potential impacts to CEMEX sand mine (minor) and Valencia College campus (minor). | o High controversy potential due to the potential impacts to the parcels that are located in the Horizon West Town Center that front Schofield Road, the Southern Hills Farms, and a limited access facility located in close proximity to Schofield Road. | - Potentially 384.43 acres of right-of-way impacts (moderate). | o 59.0 | |
| 12 (1-4) + (2-4) + (3-3) | Potential access management issue on US 27 with S Bradshaw Road and potential geometric issues due to the S-Curve around Lake Pike approaching US 27 in Segment 1. | o Projected to attract 23,700 AADT (generally medium). | o Provides systems connectivity / Good directness. | + Potential to impact minor utilities. | + Potentially 3.72 acres of impacts to conservation lands (moderate). | o Potentially 41.01 acres of wetland impacts (moderate). | o Potentially minor visual and noise impacts due to close proximity to Lake Louisa State Park cabins. | o Potential impacts to CEMEX sand mine (moderate). | - Moderate controversy potential due to the potential impacts through the middle of the CEMEX Four Corners Sand Mine. Lower controversy potential with reduced impacts to the parcels that front Schofield Rd in the Horizon West Town Center. | o Potentially 372.79 acres of right-of-way impacts (moderate). | o 61.4 | |
| 15 (1-5) + (2-4) + (3-3) | Low potential for geometric issues due to the S-Curve around Lake Pike approaching US 27 in Segment 1. | + Projected to attract 23,100 AADT (generally medium). | o Provides systems connectivity / Low directness. | - Potential to impact minor utilities. | + Potentially 3.72 acres of impacts to conservation lands (moderate). | o Potentially 68.25 acres of wetland impacts (relatively high). | - No impacts to recreational resources. | + Potential impacts to CEMEX sand mine (moderate). | - Moderate controversy potential due to the potential impacts through the middle of the CEMEX Four Corners Sand Mine. Lower controversy potential with reduced impacts to the parcels that front Schofield Rd in the Horizon West Town Center. | o Potentially 370.11 acres of right-of-way impacts (moderate). | o 60.6 | |
| 16 (1-6) + (2-5) + (3-4) | Potential interchange spacing issue at SR 429. | - Projected to attract 24,100 AADT (generally higher). | + Provides systems connectivity / Low directness. | - Potential to impact minor utilities. | + Potentially 8.46 acres of impact to conservation lands (highest overall). | - Potentially 65.02 acres of wetland impacts (relatively high). | - No impacts to recreational resources. | + Potential impacts to CEMEX sand mine (moderate) and Zanzibar PD (minor). | - Moderate controversy potential due to the potential impacts to the Zanzibar PD (currently under construction), but impacting the CEMEX Four Corners Sand Mine in the south. Lower controversy potential with reduced impacts to the parcels that front Schofield Rd in the Horizon West Town Center. | o Potentially 323.76 acres of right-of-way impacts (lowest overall). | + 58.2 | |
| 17 (1-6) + (2-6) + (3-3) | Low potential for geometric issues due to the S-Curve around Lake Pike approaching US 27 in Segment 1. | + Projected to attract 23,100 AADT (generally medium). | o Provides systems connectivity / Low directness. | - Potential to impact minor utilities. | + Potentially 3.72 acres of impacts to conservation lands (moderate). | o Potentially 72.98 acres of wetland impacts (highest overall). | - No impacts to recreational resources. | + Potential impacts to CEMEX sand mine (minor). | o Low controversy potential due to potential impacts to the CEMEX Four Corners Sand Mine in the south. Lower controversy potential with reduced impacts to the parcels that front Schofield Rd in the Horizon West Town Center. | + Potentially 356.18 acres of right-of-way impacts (moderate). | o 64.8 | |
| 18 (1-7) + (2-3) + (3-1) | Potential operational issues due to the close proximity of the proposed CR 455 interchange to Schofield Road. Potential interchange spacing issue at SR 429. | - Projected to attract 23,700 AADT (generally medium). | o Provides systems connectivity / slightly better than low directions. | o Potential to impact 1 mile of major utilities along Schofield Road and other minor utilities. | - No direct impacts to conservation lands. | + Potentially 36.81 acres of wetland impacts (relatively minor). | + No impact to recreational resources. | + Potential impacts to CEMEX sand mine (moderate) and Valencia College campus (major). | - Highest controversy potential due to the potential impacts to the parcels that are located in the Horizon West Town Center that front Schofield Road, the Valencia College Future Campus, the Southern Hills Farms, and a limited access facility located in close proximity to Schofield Road. | -- Potentially 355.18 acres of right-of-way impacts (moderate). | o 52.2 | |
| 19 (1-7) + (2-3) + (3-2) | Low potential for detrimental geometric issues on US 27 but potential operational issues due to close proximity of the proposed CR 455 interchange to Schofield Road. | - Projected to attract 23,700 AADT (generally medium). | o Provides systems connectivity / Good directness. | + Potential to impact 1.5 miles of major utilities along Schofield Road and other minor utilities. | - No direct impacts to conservation lands. | + Potentially 36.84 acres of wetland impacts. (relatively minor). | + No impacts to recreational resources. | + Potential impacts to CEMEX sand mine (moderate) and Valencia college campus (minor). | - High controversy potential due to the potential impacts to the parcels that are located in the Horizon West Town Center that front Schofield Road, and through the middle of the CEMEX Four Corners Sand Mine. | - Potentially 348.74 acres of right-of-way impacts (moderate). | o 58.0 | |
| 20 (1-7) + (2-4) + (3-3) | Lowest potential for geometric issues. | ++ Projected to attract 23,700 AADT (generally medium). | o Provides systems connectivity / Good directness. | + Potential to impact minor utilities. | + Potentially 3.72 acres of impacts to conservation lands (moderate). | o Potentially 35.86 acres of wetland impacts (relatively minor). | + Potentially minor visual and noise impacts due to close proximity to Lake Louisa State Park cabins. | o Potential impacts to CEMEX sand mine (moderate). | - Moderate controversy potential due to the potential impacts through the middle of the CEMEX Four Corners Sand Mine. Lower controversy potential with reduced impacts to the parcels that front Schofield Rd in the Horizon West Town Center. | o Potentially 365.4 acres of right-of-way impacts (moderate). | o 67.8 | |



Remaining Superior Corridors Figure 3-5

According to **Table 3-9**, both the group median scores and standard deviation were initially used as the basis for elimination of inferior options. The results obtained show that Alternative Corridors 2, 5, 16, 18 and 19 are clearly inferior since they do not meet selection criterion #1. In addition, Alternative 15 was eliminated for further consideration due to failing Criterion #3.

Table 3-9 – Pre-Final Alternative Corridor Elimination

| Corridor | Score | Median | Standard Deviation | Reasons for Elimination |
|-----------------|--------------|---------------|---------------------------|--------------------------------|
| 2 | 56.8 | 59.0 | 4.09 | Failed Criterion #1 |
| 5 | 59.0 | | | Failed Criterion #1 |
| 12 | 61.4 | | | Remains Viable |
| 15 | 60.6 | | | Failed Criterion #3 |
| 16 | 58.2 | | | Failed Criterion #1 |
| 17 | 64.8 | | | Remains Viable |
| 18 | 54.6 | | | Failed Criterion #1 |
| 19 | 58.0 | | | Failed Criterion #1 |
| 20 | 67.8 | | | Remain Viable |

Selection Criteria

- #1 – Only those alternatives which score higher than the median value for the group will be selected.
- #2 – The maximum gap between the last selected alternative and the next must not be greater than one standard deviation.
- #3 – Only the top three alternatives which comply with the previous criteria (#1 and #2) will be selected for further consideration.

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Table 3-10 illustrates the general performance of the three top remaining alternatives. According to the table, Alternative 20 is the best option in terms of engineering features, but only “fair” (i.e. - moderately effective) in terms of avoiding potential environmental and socio-economic impacts. Alternative 12 is generally “fair” in all three decisional components and Alternative 17 is “fair” in terms of engineering features and avoidance of potential environmental impacts but is the highest ranked in terms of socio-economic issues. In summary, the total resulting scores of these three top alternatives are indeed very close and indicate that each could potentially provide a superior solution with an adequate balance between the three decisional components (engineering, environmental and socio-economic).

Table 3-10 – Pre-Final Alternative Corridor Summary Results

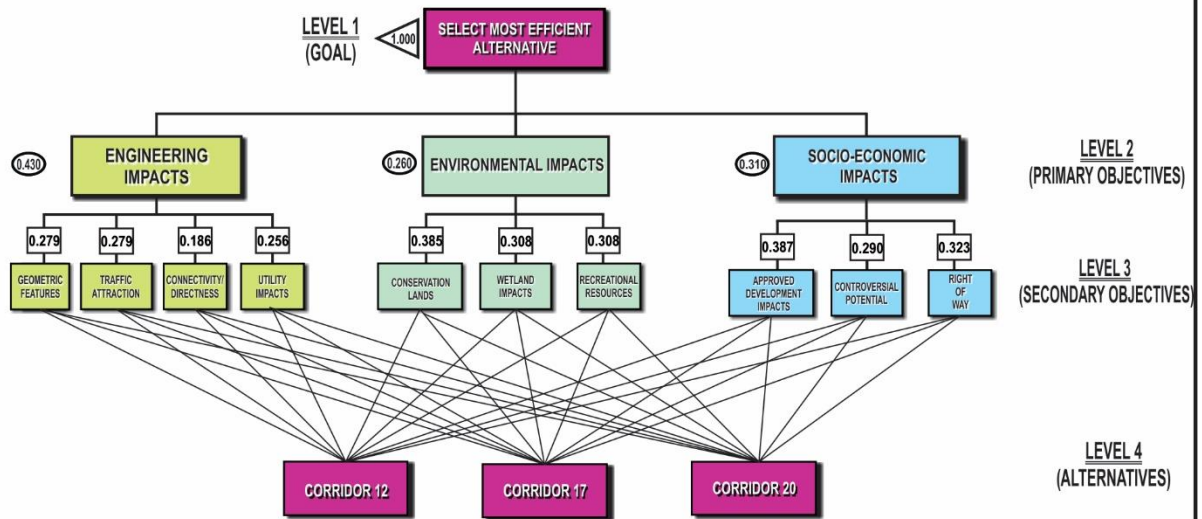
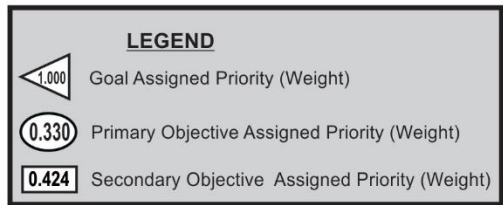
| DECISIONAL COMPONENTS ALTERNATIVES | ENGINEERING | ENVIRONMENTAL | SOCIO-ECONOMIC | SUMMARY |
|---------------------------------------|--|--|---|--|
| 12 | <ul style="list-style-type: none"> Provides medium traffic attraction (23,700 AADT). Minor potential utility impacts generally similar to alternatives 17 and 20. Provides systems connectivity/moderate directness. Potential access management issues with US 27 and S. Bradshaw Road. | <ul style="list-style-type: none"> Generally minor visual and noise impacts due to its close proximity to Lake Louisa State Park cabins. 41.01 acres of potential wetland impacts. Only moderate impacts (3.72 acres) of impacts to conservation lands. | <ul style="list-style-type: none"> Moderate controversy potential due to the potential impacts through the middle of the CEMEX Four Corners Sand Mine. Potential right-of-way impact = 373 acres± | <ul style="list-style-type: none"> Although this alternative was not the best in any of the 3 decisional categories (engineering, environmental and socio-economic) it was the second best in engineering, resulting in a relatively high total score. |
| 17 | <ul style="list-style-type: none"> Provides medium traffic attraction (23,100 AADT). Minor potential utility impacts generally similar to Alternatives 12 and 20. Not as direct as Alternatives 12 and 20. | <ul style="list-style-type: none"> Moderate impacts to conservation lands (3.72 acres) and no impacts to recreational resources but with higher wetland impacts (72.98 acres). | <ul style="list-style-type: none"> Good alternative with only minor potential impacts to approved developments and the CEMEX Four Corners Sand Mine Potential right-of-way impact = 356 acres± | <ul style="list-style-type: none"> Good alternative but not as direct as some of the other corridors. Good option in terms of potential avoidance of impacts to approved developments (only minor impacts). |
| 20 | <ul style="list-style-type: none"> Provides medium traffic attraction (23,700 AADT) generally similar to alternatives 12 and 17. Minor potential utility impacts generally similar to the other two alternatives. Most direct of all alternatives. | <ul style="list-style-type: none"> Adequate alternative with only relatively minor impacts to wetlands (36 acres ±) and conservation lands (3.7 acres). | <ul style="list-style-type: none"> Similar to Alternative 12 with moderate controversy potential due to the impacts to the middle of the CEMEX Four Corners Sand Mine. Potential right-of-way impact = 365 acres± | <ul style="list-style-type: none"> Generally best solution in terms of engineering issues (most direct, minimal utility conflicts no significant problems in terms of future interchange locations). Tied with other two options in terms of environmental issues with moderate potential impacts to conservation lands and wetlands |

3.3.4 Final Alternative Corridor Evaluation

In order to further test the validity of the results previously obtained in **Table 3-9**, the use of a more detailed evaluation procedure is necessary. The core decision-making tool used for the evaluation was the "Expert Choice" computer software, which utilizes the Analytical Hierarchy Process (AHP) procedure. The AHP method is based on the breakdown of each problem into a system of stratified levels of hierarchies where each level consists of criteria or objectives to be compared. The relative importance or priority for all the criteria in a given level is then established through a sequence of pair-wise comparisons, which will ultimately lead to the derivation of priorities (i.e., weights or importance) for each criterion. Each alternative is then compared in a series of pair-wise comparisons in relation to each of the evaluation criteria that leads to the determination of the recommended corridor alternative. A complete description of the project evaluation criteria and AHP methodology, as well as the AHP computer run results, are included in **Appendix C**. The results from the final alternative evaluation confirm that Corridor 20 is the top-ranked alternative but only by a small margin (see **Figure 3-6**). In order to further reduce potential individual bias and investigate any sensitive criterion that could yield a different alternative ranking, a thorough sensitivity analysis of the AHP evaluation results was conducted. This feature investigates the effect on the ranking of the top priority alternative if the criteria take on other possible weight values.

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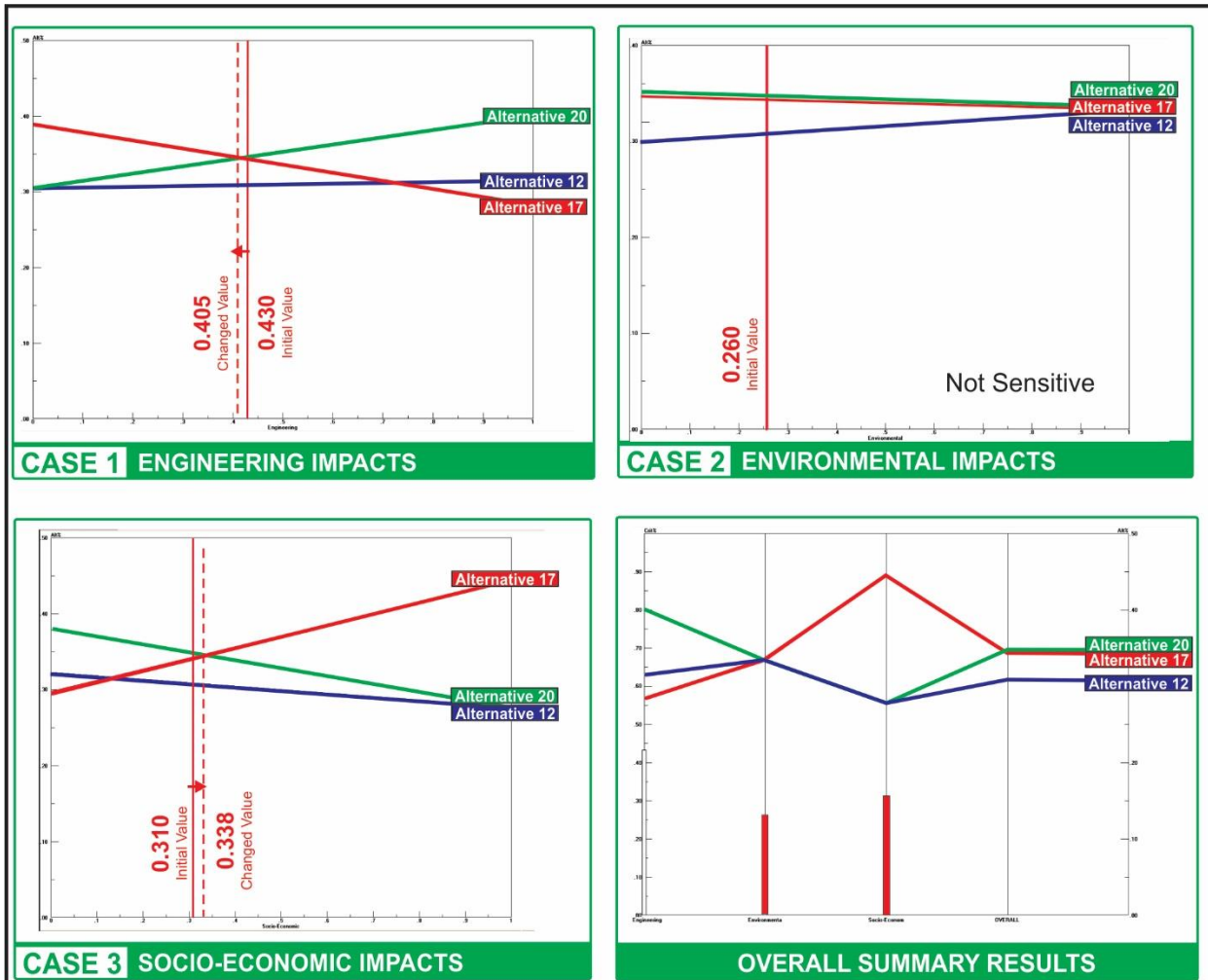
| SCALE OF RELATIVE IMPORTANCE | | |
|----------------------------------|--|--|
| Intensity of Relative Importance | Definition | Explanation |
| 1 | Equal importance | Two activities contribute equally to the objective. |
| 3 | Weak importance of one another | Experience and judgment slightly favor one activity over another. |
| 5 | Essential or strong | Experience and judgment strongly favor one activity over another. |
| 7 | Very strong importance | An activity is strongly favored and its dominance is demonstrated in practice. |
| 9 | Absolute importance | The evidence favoring one activity over another is of the highest possible order of affirmation. |
| 2,4,6,8 | Intermediate values between the two adjacent judgments | When compromise is needed. |



| RESULTING SCORE | |
|-----------------|-------------|
| ALTERNATIVES | FINAL SCORE |
| CORRIDOR 12 | 0.309 |
| CORRIDOR 17 | 0.344 |
| CORRIDOR 20 | 0.348 |

AHP Results **Figure 3-6**

Figure 3-7 illustrates distinct sensitivity analyses or “cases” which explore potential changes in the engineering deficiencies parameter (case 1), environmental impacts parameter (case 2), and socio-economic impacts parameter (case 3). The solid red vertical line shown for each case indicates the originally assigned weight and the arrow pointing to the dashed line, the necessary increase (arrow pointing to the right) or reduction (arrow pointing to the left) in the originally assigned weight that would be required for another alternative to overtake the superior alternative. In terms of case 1 (engineering deficiencies) the originally assigned weight was 0.430. According to **Figure 3-7**, the weight would only need to be slightly decreased to 0.405 for Alternative Corridor 17 to overtake Alternative Corridor 20. As shown on the table at the bottom of the figure, this change would reassign values of 0.271 for the environmental impacts (instead of its original value of 0.260) and 0.324 for socio-economic impacts (instead of 0.310). Under Case 2 (environmental impacts), Corridor 20 maintains its relative superiority regardless of a change in criteria weights since the lines representing the competing alternatives never meet. Lastly, under Case 3 (socio-economic impacts), the originally assigned weight of 0.310 would only have to be increased to 0.338 for Corridor 17 to overtake Corridor 20. This change would also result in relatively minor weight reassignments for the engineering (0.413) and environmental impacts categories (0.250). In summary, the sensitivity analysis confirms that both Corridors 20 and 17 are essentially tied and that the obtained results lack the necessary robustness to affirm that one is superior to the other since a slight shift in criteria weights could alter their final ranking.



| Case No. | 1 | 2 | 3 |
|-----------------------------|-----------------------|-----------------------|----------------|
| Sensitive Criteria | Engineering Impacts | Environmental Impacts | Socio-Economic |
| Initial Value | 0.430 | 0.260 | 0.310 |
| Changed Value | 0.405 | - | 0.338 |
| Resulting Value of Criteria | Engineering Impacts | - | 0.413 |
| | Environmental Impacts | 0.271 | - |
| | Socio-Economic | - | 0.324 |

Sensitivity Analysis Results

Figure 3-7

3.4 TASK 4 – PUBLIC OUTREACH AND AGENCY COORDINATION

Various public outreach and agency coordination activities took place throughout the ACE process to help develop, refine, and evaluate the corridor alternatives. A summary of the outreach efforts and meetings conducted to date are shown in **Table 3-11**. Additional detailed descriptions of specific activities are also provided in this section. A complete summary of the meetings including meeting notifications, presentations and display materials, comments, sign-in sheets, and media coverage is provided in the Comments and Coordination Report available separately.

Table 3-11 – Public Outreach and Agency Coordination Summary

| ITEM | STAKEHOLDER / GOVERNMENT / AGENCY | TOPIC |
|----------|--|-------------------------------|
| 04/03/18 | CEMEX | Coordination Kick-Off Meeting |
| 04/20/18 | Orange County Transportation Planning Division | Coordination Kick-Off Meeting |
| 04/27/18 | Lake County Department of Public Works | Coordination Kick-Off Meeting |
| 05/07/18 | Water Conserv II | Coordination Kick-Off Meeting |
| 05/15/18 | Orange County Transportation Planning Division | CFX Progress Meeting |
| 06/12/18 | Orange County Transportation Planning Division | CFX Progress Meeting |
| 06/14/18 | Lake County Department of Public Works | Coordination Meeting |
| 06/20/18 | Elected and Appointed Officials Kick-Off Letter emailed | |
| 06/20/18 | Advance Notification Package distributed | |
| 07/02/18 | Orange County Commissioner Betsey VenderLey | Project Overview |
| 07/10/18 | Orange County Transportation Planning Division | CFX Progress Meeting |
| 07/30/18 | Project and Environmental Advisory Group meetings | |
| 08/07/18 | Orange County Transportation Planning Division | CFX Progress Meeting |
| 08/08/18 | Lake County MPO Technical Advisory Committee | Project Overview |
| 08/22/18 | Advance Notification comment period ends | |
| 08/22/18 | Lake County MPO Board | Project Overview |
| 08/24/18 | FDOT District Five | Project Overview |
| 08/30/18 | First Public Informational Meeting | |
| 09/04/18 | Orange County Transportation Planning Division | CFX Progress Meeting |
| 09/10/18 | Greater Orlando Builders Association | Project Overview |
| 10/02/18 | Orange County Transportation Planning Division | CFX Progress Meeting |
| 10/16/18 | Lake County Department of Public Works | Coordination Meeting |
| 10/30/18 | Lake County Department of Public Works | CFX Progress Meeting |

3.4.1 Advance Notification

An Advance Notification Package was prepared and sent to the Florida State Clearinghouse on June 20, 2018, where it was then distributed to the appropriate state agencies for review. The State Application Identifier (SAI) number assigned to this project by the Florida State Clearinghouse is FL201806228337. The Advance Notification was also distributed to appropriate non-state agencies and tribal nations. A copy of the Advance Notification Package is provided as **Appendix D** and contains a transmittal list of all recipients. **Table 3-12** provides the summary of comments from the reviewing agency along with responses.

Table 3-12 – Advance Notification Comment Summaries and Responses

| AGENCY | COMMENT SUMMARY | RESPONSE |
|---|--|--|
| National Forest Service | The National Forests in Florida has no comments. The proposed study does not affect any US Forest Service holdings | Thank you for your review and response. |
| National Resources Conservation Service | If you need a Farmland Protection Evaluation for this project please send request form and .shp files. | We anticipate the need for a Farmland Protection Evaluation and will coordinate with NRCS once project alternatives and .shp files are available. |
| Seminole Tribe of Florida | The proposed undertaking does fall within in the STOF [Seminole Tribe of Florida] Area of Interest. We have reviewed the documents provided and would like to provide the following feedback. We would respectfully like to request that once specific alternative corridors are chosen that a Cultural Resources Assessment Survey be conducted and sent to us so that we may complete our review. | A Cultural Resources Assessment Survey is being prepared as part of the Section 106 review process for this project and will be made available for review and comment. |
| State Historic Preservation Officer | Based on the nature of the project (new roadway) and the environmental conditions in the project area, we request that the project area be subjected to a professional cultural resources assessment survey. The resultant survey report should conform to the provisions of Chapter 1A-46, <i>Florida Administrative Code</i> , and should be forwarded to FHWA and our office upon completion. The report will help us complete the Section 106 review process and provide concurrence on federal findings of effect and recommend any necessary avoidance or mitigation measures. | A Cultural Resources Assessment Survey is being prepared as part of the Section 106 review process for this project. |

Table 3-12 – Advance Notification Comment Summaries and Responses (Cont.)

| AGENCY | COMMENT SUMMARY | RESPONSE |
|--------------------------------------|---|--|
| Federal Aviation Administration | Please note that federal requirements that pertain to notifying the FAA of proposed construction and alteration on or nearby a public-use airport should be in accordance with FAR Part 77 Regulation. Any tall permanent structure or temporary equipment near an airport must conform to this regulation | All tall, permanent structures or temporary equipment near any airports will conform with appropriate regulations, including FAR Part 77. |
| U.S. Environmental Protection Agency | The eastern study area of the project lies partially within the Biscayne Aquifer boundaries (NEPAssist https://www.epa.gov/nepa/nepassist). The Biscayne Aquifer is a sole source aquifer and is considered a principal water source for South Florida residents, visitors, and businesses. The aquifer is highly permeable and vulnerable to contamination. The EPA recommends adherence to all federal, state, and local government permits, ordinances, planning designs, construction codes, operation and maintenance requirements, and engineering for avoidance, minimization, and protection of the water source. Additionally, we recommend that avoidance and minimization of any identified jurisdictional waters of the U.S. be avoided during the development of alternatives to the extent practicable. During construction, please consider the vulnerability of the sole source aquifer and protect the drinking water delivered from this source. Also, follow all best management activities for erosion and sedimentation control. The project is a non-federal action. Therefore, concurrence from the EPA is not required according to the Safe Drinking Water Act. Please contact state and county environmental offices to address proper drainage and storm water design. If federal financial assistance does become a source of funding for this project, please contact Region 4, Ground Water and UIC Section, Mr. Khurram Rafi (rafi.khurram@epa.gov) or Larry Cole (cole.larry@epa.gov) for an aquifer impact determination letter. | Impacts to wetlands and jurisdictional waters of the U.S. will be avoided and minimized as much as practicable. Minimization of impacts to the aquifer is also being considered during alternative development. Construction impacts will be minimized by implementing standard Best Management Practices for road construction. |

3.4.2 Project and Environmental Advisory Groups

As a special advisory resource to CFX and the consultant team, the Project Advisory Group (PAG) and Environmental Advisory Group (EAG) will provide input regarding local needs, concerns, and potential physical, natural, social and cultural impacts that will be crucial in the evaluation of corridor and alternative alignments. The first PAG and EAG meetings were held on July 30, 2018, at CFX headquarters. Invitation letters to the first PAG meeting were emailed to 61 project stakeholders within the study area. Thirty-six PAG members and ten staff members attended. Invitation letters to the first EAG meeting were emailed to 61 environmental stakeholders within the study area. Ten EAG members and eight staff members attended. The meeting summaries are included in **Appendix D**.

Two additional PAG and EAG meetings will be held during the study to facilitate open communication and provide a forum for issue identification and resolution with the project and environmental stakeholders.

3.4.3 Public Informational Meeting

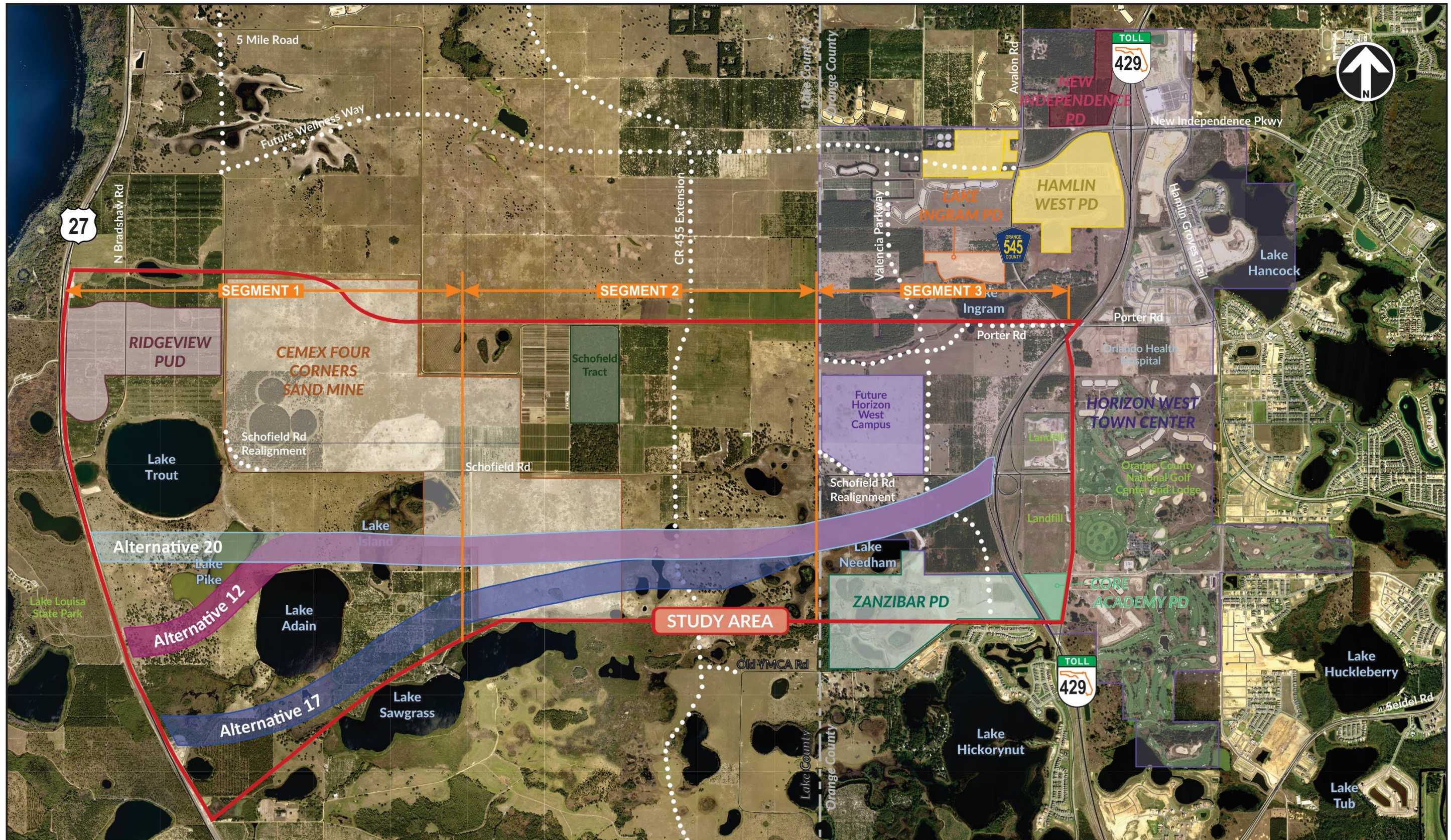
A Public Informational Meeting was held on August 30, 2018, at the Clermont Arts & Recreation Center in Clermont, FL. This meeting provided an opportunity for residents, businesses, stakeholders and other interested parties to view project information, ask questions of the study team and provide comments. Public meeting notices were sent by U.S. mail and published in local newspapers and the Florida Administrative Ad. A total of 126 people signed into the meeting including 104 citizens, four elected officials, and 17 staff members. Nine comments were received during the 10-day comment period:

- Five did not want a limited-access road;
- Three strongly supported the proposed Lake/Orange County Connector; and
- One said it would be helpful to have Lake County staff at the meeting to discuss extensions of Hancock Road and CR 455.

One additional public information meeting and a public hearing will be held during the study to facilitate public participation.

3.5 Task 5 – Conclusions and Recommendations

All alternative corridors were developed to meet the project’s purpose and need; therefore, no alternative corridor was eliminated based on a failure to meet the purpose and need criteria. All alternative corridors were evaluated to the same desk-top level of detail utilizing the methodological approach previously described. The conclusions obtained show that the resulting scores of Alternative Corridors 12, 17 and 20 (see **Figure 3-8**) are very close which indicate that each could provide a superior solution with an adequate balance between the three decisional components (engineering, environmental and socio-economic). **Table 3-13** provides a summary of findings. Based on the above analysis which produced no appreciable difference between Corridors 12, 17 and 20, and to allow for flexibility in the alternatives phase, the recommended corridor encompasses the area that is bordered by Corridor 20 on the north and Corridor 17 on the south (as shown on **Figure 3-9**).

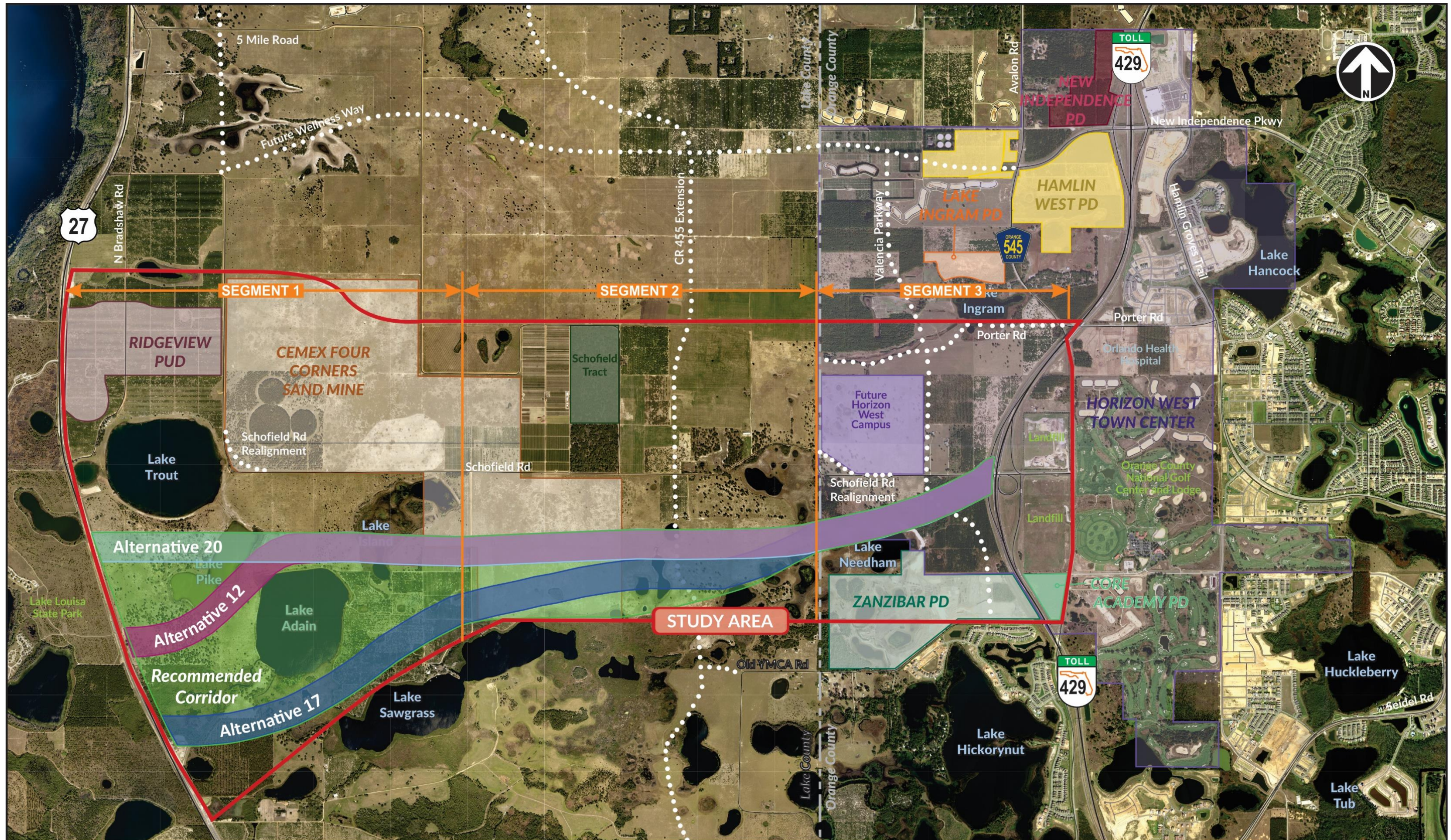


Recommended Top Alternatives

Figure 3-8

Table 3-13 – Summary of Findings

| | | Key Issues | Effect on Recommended Corridor |
|-----------------|---|--|--|
| ENGINEERING | POTENTIAL INTERCHANGE LOCATION | <u>US 27</u> : Generally, the study area north of Lake Trout is less desirable for a future interchange because of its proximity to the main entrance of Lake Louisa State Park and the presence of the Ridgeview PUD. | The recommended corridor is south of Lake Trout and thus avoids conflicts with Lake Louisa State Park’s main entrance and the approved Ridgeview PUD. |
| | | <u>SR 455 Extension</u> : A future interchange in close proximity to Schofield Road would likely be a collocated design to effectively provide all local and express movements. Such a design involves higher geometric and operational complexity. | The distance between the recommended corridor and Schofield Road facilitates the use of a simple and effective interchange configuration. |
| | | <u>SR 429</u> : The proposed eastern terminal interchange must be tied to the existing SR 429/Schofield in order to meet interchange spacing standards. | The recommended corridor eliminates the need for a new access point by co-locating the proposed system interchange with the existing service interchange. |
| | TRAFFIC | Traffic forecasts show no significant difference in 2045 average AADTs between all corridor alternatives. The highest forecasted average AADT is 24,901 while the lowest is 23,144. | The forecasted 2045 average AADTs within the recommended corridor ranged from 24,673 to 23,144. |
| | CONNECTIVITY & DIRECTNESS | The goal of the proposed project is to connect US 27 with SR 429. The directness of a corridor alternative is a measure of operational efficiency, driver convenience and resulting road user cost. The more direct a corridor, the more desirable it is. | The recommended corridor connects US 27 with SR 429 and allows for direct, due east, alignments. |
| UTILITY IMPACTS | There are major utilities concentrated along the existing Schofield Road alignment. Therefore, all corridors within the immediate vicinity of Schofield Road will likely have to contend with major utility issues. | The recommended corridor is not in the vicinity of Schofield Road except at the existing Schofield Road/SR 429 interchange. Proposed improvements in this location are likely to be on structures and can be located to avoid major utilities along the existing Schofield Road alignment. | |
| ENVIRONMENTAL | CONSERVATION LANDS | Conservation lands within the study area are few and include Orange County conservation properties and the Schofield Tract. | The recommended corridor has the potential to impact Orange County conservation properties in the vicinity of Lake Needham. |
| | WETLANDS | Most of the existing wetlands are located in the southern portion of the study area. | The recommended corridor is located in the southern portion of the study area and thus wetland impacts are unavoidable. Impacts to existing wetlands will be minimized to the greatest extent possible. |
| | RECREATIONAL RESOURCES | Most of the potential impacts to recreational resources relate to the Lake Louisa State Park (perceived noise and visual impacts and potential access management issues) and Lake County’s planned recreational trail in the immediate vicinity of Schofield Road. | The recommended corridor avoids impacts to Lake County’s planned recreational trail. Perceived noise and visual impacts may continue due to the presence of park cabins on the west side of US 27, opposite the recommended corridor. |
| SOCIO-ECONOMIC | APPROVED DEVELOPMENT IMPACTS | There are several approved developments associated with the WWAP and the HWSPA, with more expected in the future. In addition, the CEMEX Four Corners Sand Mine will operate on approximately 2,000 acres within the study area. Given the size of the future mine, all corridor alternatives have the potential to impact it. | The recommended corridor avoids impacts to currently approved developments. Impacts to the future CEMEX Four Corners Sand Mine are unavoidable and will be minimized to the greatest extent possible. The study team will continue to coordinate with CEMEX. |
| | CONTROVERSY POTENTIAL | This issue is generally related to disagreements over perceived environmental or operational impacts by the proposed improvements. | The potential for controversy remains and will be minimized with a robust public involvement program. |

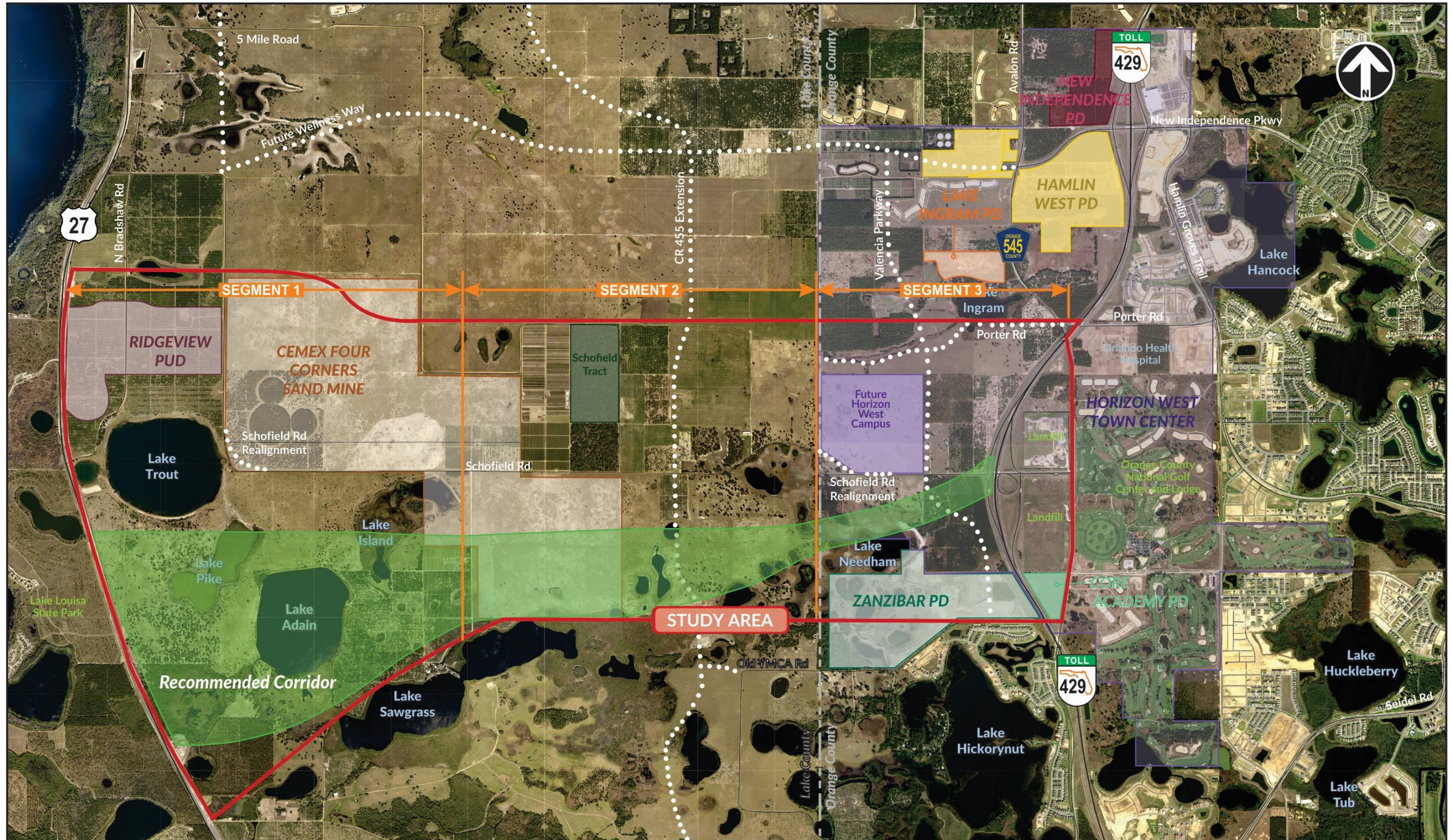


Recommended Corridor Area with Top Alternatives

Figure 3-9

4. RECOMMENDED CORRIDOR AREA

The obtained results indicate that the recommended corridor area as shown on **Figure 4-1** is the best choice to fulfill the project objectives. This area could provide an effective limited-access Lake/Orange County Connector facility from US 27 to SR 429, which would greatly enhance the mobility and linkage needs between south Lake County and west Orange County. The next steps involve the development of various alternatives within the recommended corridor which strive to avoid or minimize potential impacts on the physical, natural, social and cultural environment. A more detailed engineering and environmental analysis will be performed on the alternative alignments and documented in the Project Environmental Impact Report (PEIR), PER and accompanying environmental reports. The No-Action or No-Build option remains viable to consider as a basis for comparison, and possibly selection.



Recommended Corridor Area

Figure 4-1

Appendix A: GIS Data Layers

A. GIS Data Layers

| GIS Layer | Source (Year) |
|---|-----------------------------------|
| SJRWMD - Land Use and Cover | FGDL (2009, 2012 update) |
| SFWMD – Land Use and Cover | FGDL (2008) |
| Cemetery Facilities in Florida | FGDL (2015) |
| Religious Center Facilities in Florida | FGDL (2015) |
| Fire Department and Rescue Station Facilities in Florida | FGDL (2013) |
| Law Enforcement Facilities in Florida | FGDL (2012) |
| Local, State, and Federal Government Buildings in Florida | FGDL (2013) |
| Health Care Facilities in Florida | FDGL (2014) |
| Future Land Use | Orange County (2016) |
| Florida Hydrology and Flowlines | Orange County (2016) |
| USGS National Hydrography Dataset – Waterbody Features | FGDL (2016) |
| Parks and Trails | Orange County (2017) |
| Parks & Trails, FDOT District 5 – Parks | Orange County (2016), FGDL (2007) |
| FDOT District 5 – Conservation Lands | FGDL (2007) |
| FDOT District 5 – School Boundaries | FGDL (2007) |
| Orange County Lands of Interest | Orange County (2017) |
| Green Place Properties | Orange County (2017) |
| Lake County Conservation Easements | Lake County (2014) |
| Floridan Aquifer Recharge | Lake County (2012) |
| Florida Public Lands | FNAI (2011) |
| Florida Managed Areas | FGDL (2016) |
| Parks and Recreational Facilities in Florida | FGDL (2016) |
| National Wildlife Refuge Boundaries in Florida | FGDL (2013) |
| Wildlife Occurrence System Database 1988-2014 | FGDL (2014) |
| Orange County Wildlife Occurrence Database | FNAI (2012) |
| FFWCC Wildlife Management Areas | FGDL (2016) |
| Cultural Center and Library Facilities in Florida | FGDL (2015) |
| SHPO Resource Groups in Florida | FGDL (2016) |
| SHPO Historical Structure Locations in Florida | FGDL (2016) |
| SFWMD Conservation Easements | FGDL (2012) |
| SHPO Historic Bridges in Florida | FGDL (2016) |
| NWI Wetlands in Florida | FGDL (2016) |
| Outstanding Florida Waters | FGDL (2015) |
| Aquatic Preserve Boundaries in Florida | FGDL (2011) |
| Conservation | Orange County (2016) |
| Regulatory Conservation Easements | SJRWMD (2010) |
| District Conservation Easements | SJRWMD (2016) |
| FEMA Flood Zones | Orange County (2016), FGDL (2016) |
| FFWCC Protected Species Consultation Areas(Multiple Layers) | FGDL (2014) |
| Mitigation Banks | FGDL (2015) |
| Mitigation Bank Service Area | FGDL (2014) |
| FFWCC Potential Habitat by Species | FGDL (2009) |
| FFWCC Habitat Conservation by Species | FGDL (2009) |
| USFWS Ecological Services Area Federally Listed Species | FGDL (2016) |

| GIS Layer | Source (Year) |
|---|-----------------------------------|
| FDEP Waste Cleanup Sites in Florida – Closed | FGDL (2016) |
| FDEP Waste Cleanup Sites in Florida – Open | FGDL (2016) |
| FDEP Waste Cleanup Sites in Florida – Inactive | FGDL (2016) |
| Brownfield Areas | Orange County (2016), FGDL (2015) |
| FDEP State Funded Cleanup Sites in Florida | FGDL (2014) |
| Petroleum Contamination Monitoring Discharges in Florida | FGDL (2016) |
| FDEP Source Water Assessment and Protection Program Areas | FGDL (2008) |
| US EPA Regulated Superfund Sites in Florida | FGDL (2016) |
| US EPA Electricity Generating Plants in Florida | FGDL (2015) |
| FDEP Hazardous Waste Sites in Florida | FGDL (2016) |
| US EPA RCRA Regulated Facilities in Florida | FGDL (2016) |
| US EPA TRI Facilities in Florida | FGDL (2014) |
| FDEP Solid Waste Facilities in Florida | FGDL (2016) |
| US EPA Regulated Air Emissions Facilities in Florida | FGDL (2016) |
| FDEP Wastewater Facilities in Florida | FGDL (2016) |
| FDEP Surface Water Classification Boundaries | FGDL (2016) |

Appendix B: Evaluation Data

**Lake/Orange County Connector
(Corridor Phase) DRAFT 2045 Average
AADT's**

| Alternative | 2045 Average AADT | Comparing to Alternative A1, A2 and A3 | Comparing to Alternative A3 |
|--------------------|----------------------------------|---|--|
| A1 | 24,661 | 100% | 99% |
| A2 | 24,255 | 100% | 97% |
| A3 | 24,901 | 100% | 100% |
| B1 | 24,207 | 98% | 97% |
| B2 | 23,667 | 98% | 95% |
| B3 | 24,673 | 99% | 99% |
| C1 | 23,419 | 95% | 94% |
| C2 | 23,144 | 95% | 93% |
| C3 | 24,147 | 97% | 97% |

Assumptions and Notes:

Fiskhind SE data for study area (Wellness Way and Horizon West)

\$0.18 per mile toll rate inflated to 2045 conditions

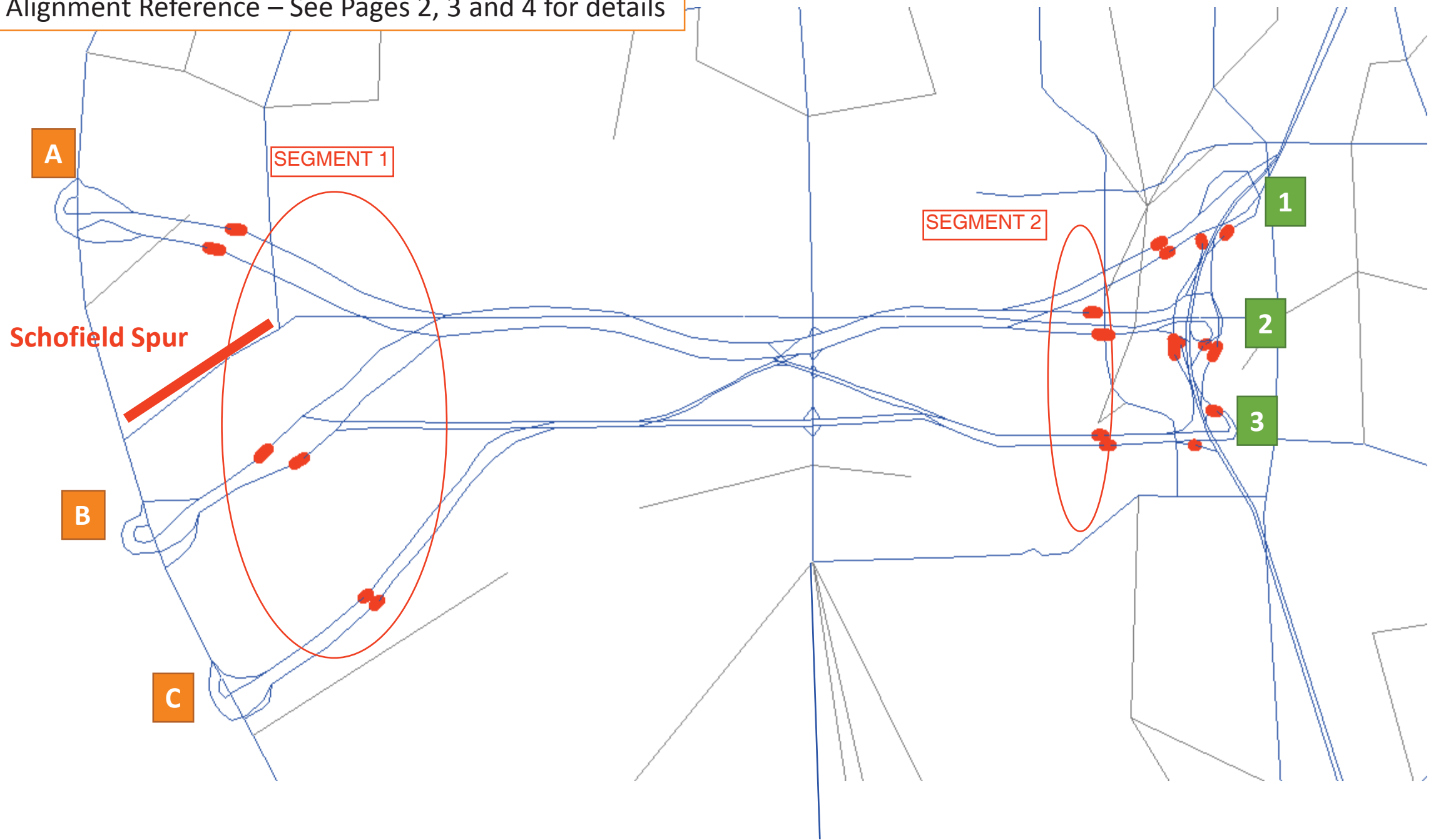
No Schofield Spur

2-Lane Independence Extension

4-Lane Connector Extending all the way to Western Way Extension

For use in Corridor Phase Only

Alignment Reference – See Pages 2, 3 and 4 for details



Alignments A1, A2 and A3

A

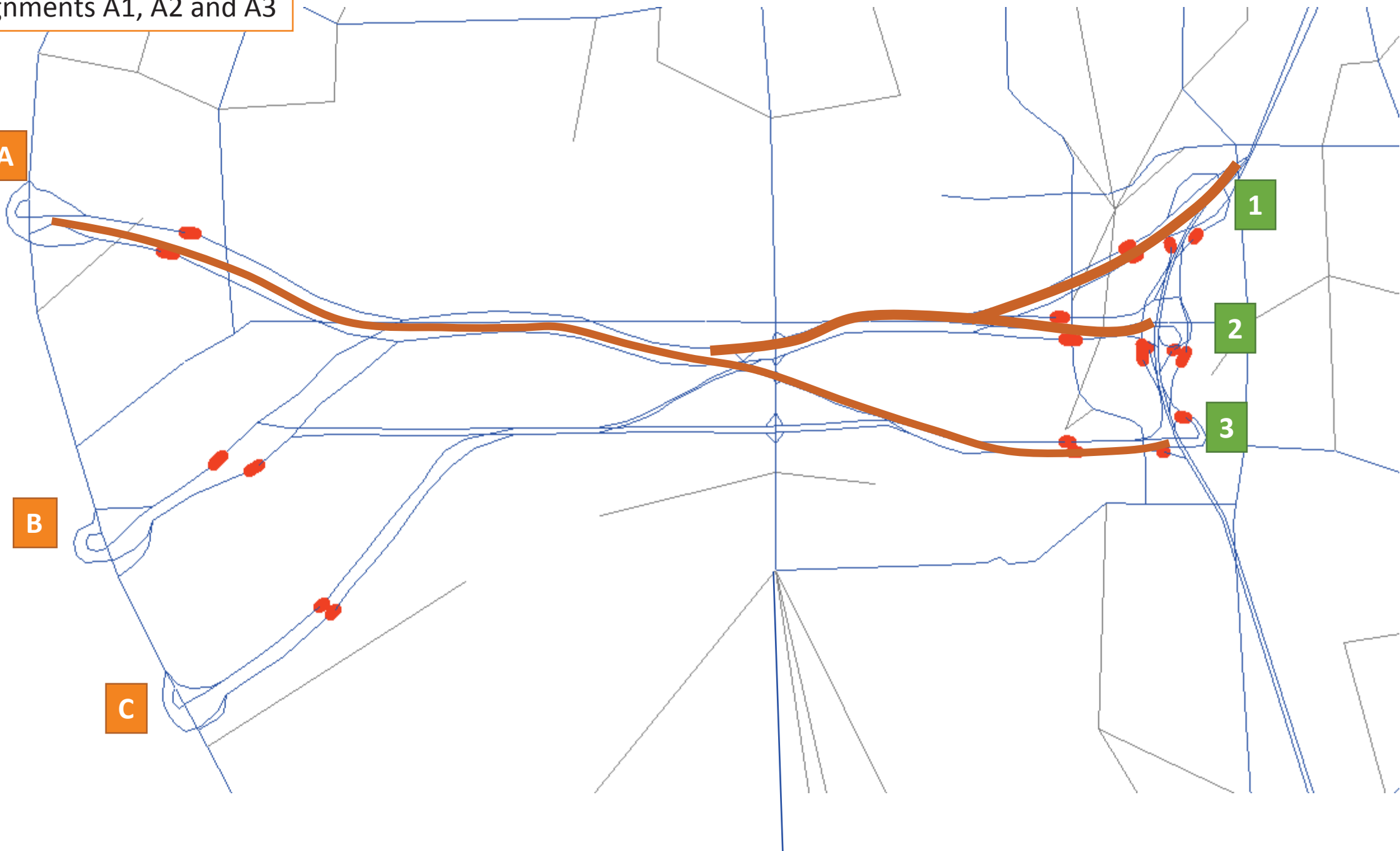
B

C

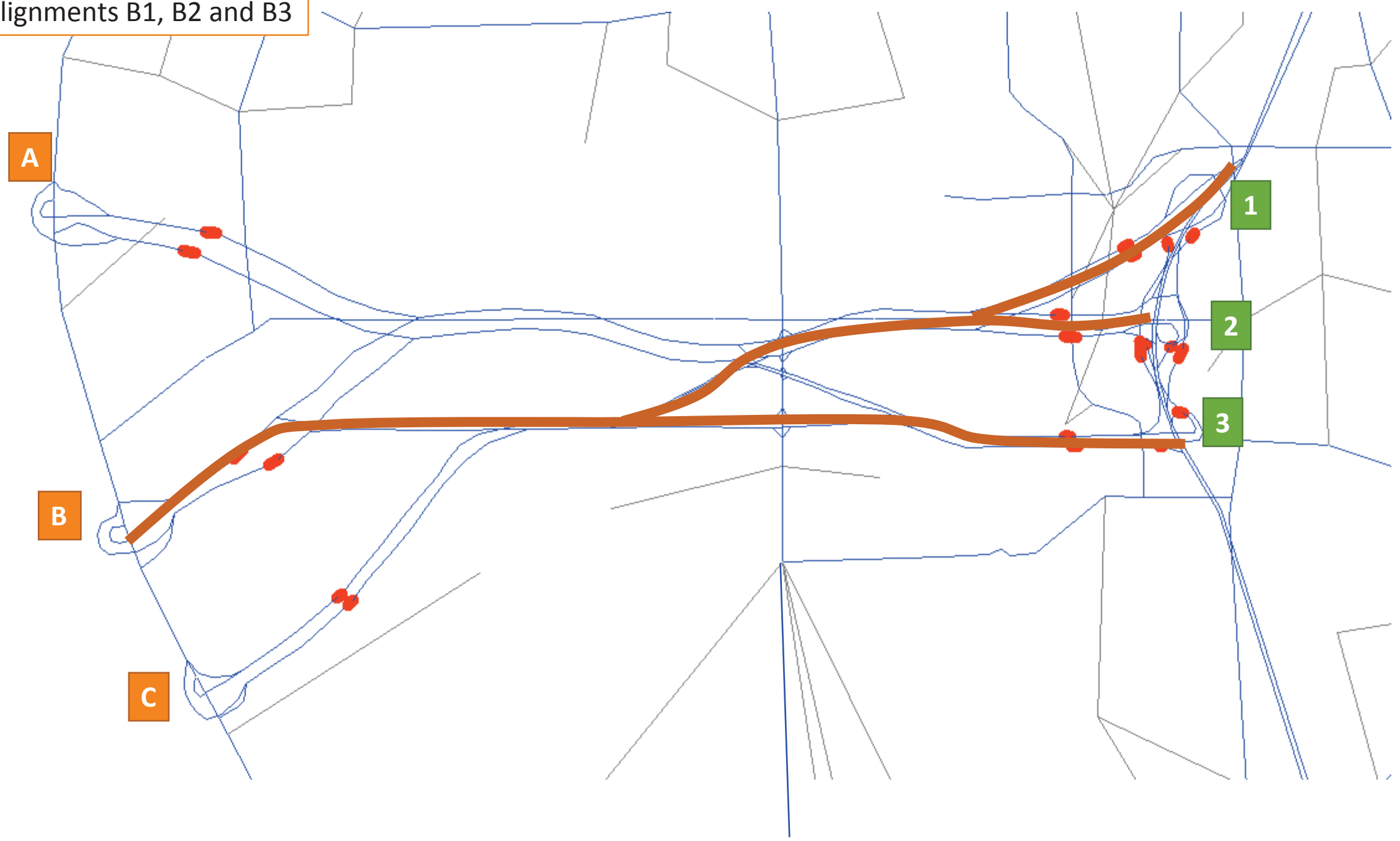
1

2

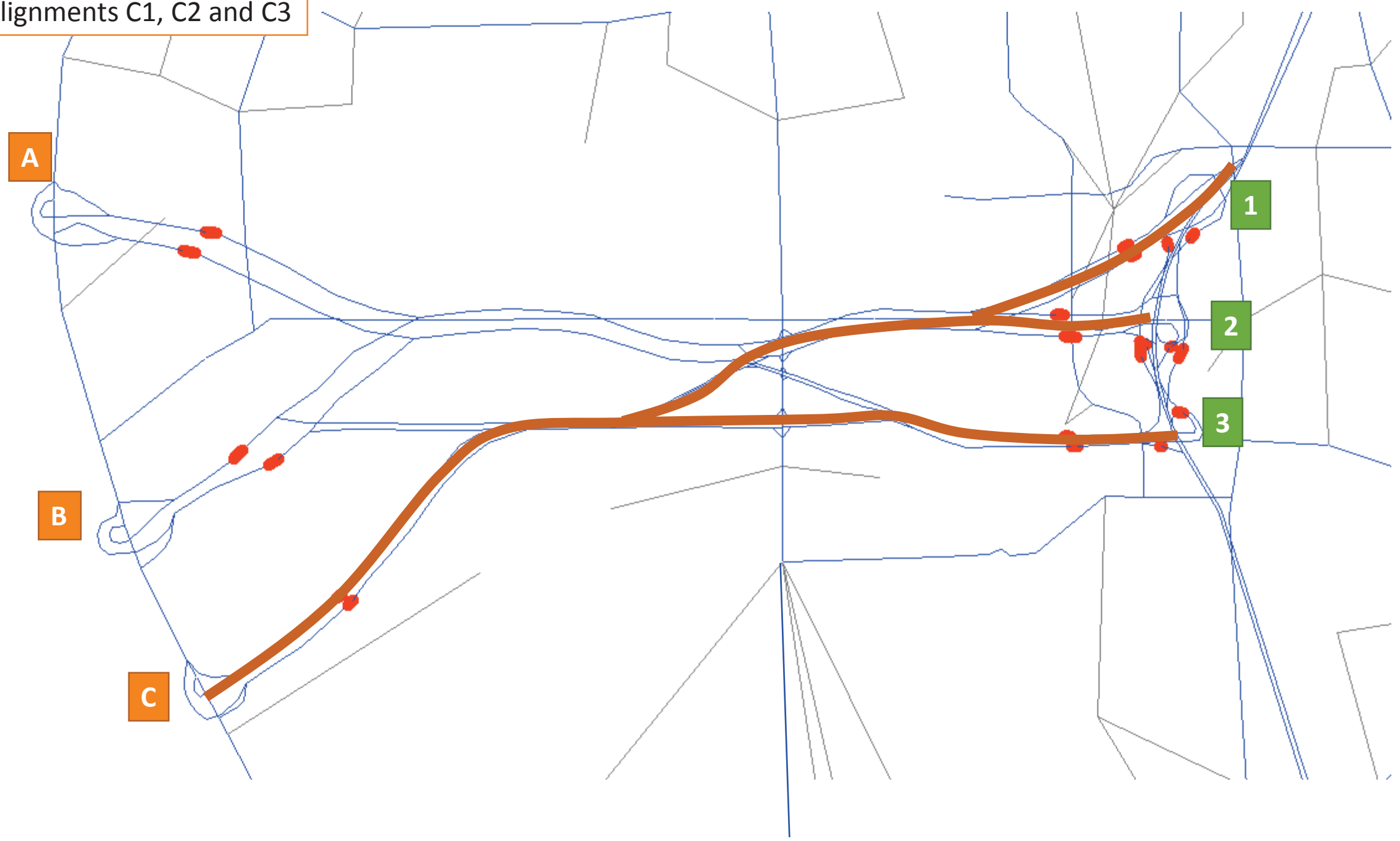
3



Alignments B1, B2 and B3



Alignments C1, C2 and C3



Geometric Considerations

Location of Interchanges and their geometric implications

1. US 27 Interchange

- 1.1 Within close proximity of Lake Louisa State Park Main Entrance -Fair
- 1.1.a Potential conflict with future Ridgeview PUD access points -Poor
- 1.2 No potential significant problems -Good
- 1.3 Requires the potential Relocation of S. Bradshaw Rd. on the east side of US-27 -Fair
- 1.4 Same as 1.3 -Fair
- 1.5 And 1.6 No potential significant problems -Good

2. Cr 455/Schofield Rd. Interchange

- 2.1 Offers the potential of a combined (in terms of location) interchange serving the local trips to both (Schofield Rd. and Freeway CR 455) -Good
- 2.2 Generally similar but not quite as effective as alternative 2.1 -Fair
- 2.3 Similar to alternative 2.2 -Fair
- 2.4 Close proximity to Schofield Rd. would create short weaving distance, which results in operational issues along CR455 -Fair
- 2.5 Provides sufficient distance between potential interchange at CR455 and vehicles destined to Schofield Rd. so as not to create operational issues -Good

3. SR429/Schofield Rd. Interchange

- 3.1 Resulting distance to the existing SR429/Schofield Rd. interchange is inadequate (no possible separate interchange at this site). A potential single interchange will likely be more complex and have a higher right-of-way impact on the future Horizon West Town Center. It will likely impact the existing landfill(s) on the east side of the present interchange -Poor
- 3.2 Offers the potential of a combined interchange (in terms of location) serving both the local trips (Schofield Rd) and Freeway trips (SR 429) -Good
- 3.3 Similar to alternative 3.2 -Good
- 3.4 Similar to 3.1 but with slightly less potential right-of-way impact. -Poor

**TABLE 3-3
PRELIMINARY ENGINEERING EVALUATION**

| EVALUATION COMPONENTS | | QUANTITATIVE MEASURE | SEGMENT | Alternative 1 | Alternative 2 | Alternative 3 | Alternative 4 | Alternative 5 | Alternative 6 | Alternative 7 | Alternative 8 | Alternative 9 | Alternative 10 | Alternative 11 | Alternative 12 | Alternative 13 | Alternative 14 | Alternative 15 | Alternative 16 | Alternative 17 | Alternative 18 | Alternative 19 | Alternative 20 | | |
|---|-------------------|--|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|---|
| Component Weight | (1-1)+(2-1)+(3-1) | | | (1-1)+(2-1)+(3-2) | (1-1)+(2-2)+(3-3) | (1-2)+(2-1)+(3-1) | (1-2)+(2-1)+(3-2) | (1-2)+(2-1)+(3-3) | (1-3)+(2-1)+(3-1) | (1-3)+(2-1)+(3-2) | (1-3)+(2-2)+(3-3) | (1-4)+(2-3)+(3-1) | (1-4)+(2-3)+(3-2) | (1-4)+(2-4)+(3-3) | (1-5)+(2-3)+(3-1) | (1-5)+(2-3)+(3-2) | (1-5)+(2-4)+(3-3) | (1-6)+(2-5)+(3-4) | (1-6)+(2-6)+(3-3) | (1-7)+(2-3)+(3-1) | (1-7)+(2-3)+(3-2) | (1-7)+(2-4)+(3-3) | (1-7)+(2-4)+(3-3) | | |
| Major Utility Conflicts | 7% | No. of potential impacts | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Geometric Considerations | 11% | Interchange Location & Potential Effects | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FloodPlain Encroachment | 7% | Acres | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Traffic Considerations | 12% | Traffic Volumes | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Total Engineering Weight | | | 37% | | | | | | | | | | | | | | | | | | | | | | |
| Summary of Results (sum of corridor scores for each evaluation category) | | | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | |
| Total Engineering Score for each Alternative Corridor (higher score = higher performing alternative corridor) | | | | 1.50 | 1.65 | 1.61 | 1.65 | 1.44 | 1.47 | 1.54 | 1.33 | 1.29 | 1.68 | 1.47 | 1.47 | 1.32 | 1.47 | 1.47 | 1.61 | 1.47 | 1.79 | 1.58 | 1.58 | 1.58 | |
| REMARKS | | | • Highest scoring Alternatives 18 and 10 are generally highest in all criteria with the exception of the interchange location considerations within segment 3. • Lowest scoring Alternatives 9 and 13 had generally the lowest scores due to potential utility conflict issues and somewhat lower traffic attractions. | | | | | | | | | | | | | | | | | | | | | | |

Sample Calculation for Alternative 1 (Segment 2) under Major Utility Conflicts
 Relative Segmental Score = Segmental Rating (2 Points) x Major Utility Conflicts Component Weight (7%) = 0.14

Legend
 WPS Water Pump Station
 LS Lift Station
 PP Power Poles

TABLE 3-5
PRELIMINARY SOCIO-ECONOMIC EVALUATION

| EVALUATION COMPONENTS | | QUANTITATIVE MEASURE | SEGMENT | Alternative 1 | Alternative 2 | Alternative 3 | Alternative 4 | Alternative 5 | Alternative 6 | Alternative 7 | Alternative 8 | Alternative 9 | Alternative 10 | Alternative 11 | Alternative 12 | Alternative 13 | Alternative 14 | Alternative 15 | Alternative 16 | Alternative 17 | Alternative 18 | Alternative 19 | Alternative 20 | |
|--|---|----------------------|--|---|---|--|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Component Weight | | | | (1-1)+(2-1)+(3-1) | (1-1)+(2-1)+(3-2) | (1-1)+(2-2)+(3-3) | (1-2)+(2-1)+(3-1) | (1-2)+(2-1)+(3-2) | (1-2)+(2-2)+(3-3) | (1-3)+(2-1)+(3-1) | (1-3)+(2-1)+(3-2) | (1-3)+(2-2)+(3-3) | (1-4)+(2-3)+(3-1) | (1-4)+(2-3)+(3-2) | (1-4)+(2-4)+(3-3) | (1-5)+(2-3)+(3-1) | (1-5)+(2-3)+(3-2) | (1-5)+(2-4)+(3-3) | (1-6)+(2-5)+(3-4) | (1-6)+(2-6)+(3-3) | (1-7)+(2-3)+(3-1) | (1-7)+(2-3)+(3-2) | (1-7)+(2-4)+(3-3) | |
| Approved Developments/Future Land Use | Acres | 15% | 1 | 109.95 | 109.95 | 109.95 | 43.27 | 43.27 | 43.27 | 24.35 | 24.35 | 24.35 | 3.68 | 3.68 | 3.68 | 1.09 | 1.09 | 1.09 | 0.00 | 0.00 | 3.68 | 3.68 | 3.68 | |
| | | | 2 | 69.83 | 69.83 | 70.72 | 69.83 | 69.83 | 76.17 | 69.83 | 69.83 | 69.83 | 70.72 | 75.28 | 75.28 | 72.64 | 75.28 | 75.28 | 72.64 | 72.63 | 72.4 | 75.28 | 75.28 | 72.64 |
| | | | 3 | 36.82 | 16.36 | 0 | 36.82 | 16.36 | 0 | 36.82 | 16.36 | 0 | 36.82 | 16.36 | 0 | 36.82 | 16.36 | 0 | 16.36 | 0 | 44.71 | 0 | 36.82 | 16.36 |
| Historical/Archaeological | Number of Sites | 7% | 1 | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | |
| | | | 2 | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 1 historic structure within 100m/330ft (not eligible) | 2 medium archaeological sites intersecting (not eligible) | 2 medium archaeological sites intersecting (not eligible) | 1 medium archaeological site intersecting (not eligible) | 1 historic structure within 100m/330ft (not eligible) |
| | | | 3 | 1 small archaeological site intersecting (not eligible) | 1 small archaeological site intersecting (not eligible) | No previously recorded cultural resources intersecting | 1 small archaeological site intersecting (not eligible) | 1 small archaeological site intersecting (not eligible) | No previously recorded cultural resources intersecting | 1 small archaeological site intersecting (not eligible) | 1 small archaeological site intersecting (not eligible) | No previously recorded cultural resources intersecting | 1 small archaeological site intersecting (not eligible) | 1 small archaeological site intersecting (not eligible) | 1 small archaeological site intersecting (not eligible) | 1 small archaeological site intersecting (not eligible) | 1 small archaeological site intersecting (not eligible) | No previously recorded cultural resources intersecting | 1 small archaeological site intersecting (not eligible) | 1 small archaeological site intersecting (not eligible) | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | No previously recorded cultural resources intersecting | 1 small archaeological site intersecting (not eligible) |
| Parks/Recreational Facilities | Interaction with Planned Recreational Trail or State Park | 7% | 1 | YES | YES | YES | YES | YES | YES | YES | YES | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | |
| | | | 2 | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Right-of-way Impacts | Acres per land use type; hydric (wetlands and waterbodies) | 9% | 1 | AGRICULTURE 86.4 NATURAL 3.77 HYDRIC 4.15 TOTAL 94.56 | AGRICULTURE 86.4 NATURAL 3.77 HYDRIC 4.15 TOTAL 94.56 | AGRICULTURE 86.4 NATURAL 3.77 HYDRIC 4.15 TOTAL 94.56 | AGRICULTURE 86.95 NATURAL 48.96 HYDRIC 8.62 TOTAL 144.53 | AGRICULTURE 86.95 NATURAL 48.96 HYDRIC 8.62 TOTAL 144.53 | AGRICULTURE 86.95 NATURAL 48.96 HYDRIC 8.62 TOTAL 144.53 | AGRICULTURE 93.63 NATURAL 49.34 HYDRIC 26.10 TOTAL 172.07 | AGRICULTURE 93.63 NATURAL 49.34 HYDRIC 26.10 TOTAL 172.07 | AGRICULTURE 93.63 NATURAL 49.34 HYDRIC 26.10 TOTAL 172.07 | AGRICULTURE 95.62 NATURAL 49.37 HYDRIC 32.81 TOTAL 177.80 | AGRICULTURE 95.62 NATURAL 49.37 HYDRIC 32.81 TOTAL 177.80 | AGRICULTURE 95.62 NATURAL 49.37 HYDRIC 32.81 TOTAL 177.80 | AGRICULTURE 98.62 NATURAL 42.29 HYDRIC 37.18 TOTAL 178.09 | AGRICULTURE 98.62 NATURAL 42.29 HYDRIC 37.18 TOTAL 178.09 | AGRICULTURE 98.62 NATURAL 42.29 HYDRIC 37.18 TOTAL 178.09 | AGRICULTURE 98.62 NATURAL 42.29 HYDRIC 37.18 TOTAL 178.09 | AGRICULTURE 92.25 NATURAL 42.12 HYDRIC 34.62 TOTAL 168.99 | AGRICULTURE 92.25 NATURAL 42.12 HYDRIC 34.62 TOTAL 168.99 | AGRICULTURE 92.25 NATURAL 42.12 HYDRIC 34.62 TOTAL 168.99 | AGRICULTURE 79.34 NATURAL 56.34 HYDRIC 40.5 TOTAL 176.18 | |
| | | | 2 | AGRICULTURE 85.87 NATURAL 1.92 HYDRIC 21.75 TOTAL 109.54 | AGRICULTURE 85.87 NATURAL 1.92 HYDRIC 21.75 TOTAL 109.54 | AGRICULTURE 105.02 NATURAL 4.91 HYDRIC 109.93 | AGRICULTURE 85.87 NATURAL 1.92 HYDRIC 21.75 TOTAL 109.54 | AGRICULTURE 85.87 NATURAL 1.92 HYDRIC 21.75 TOTAL 109.54 | AGRICULTURE 85.87 NATURAL 1.92 HYDRIC 21.75 TOTAL 109.54 | AGRICULTURE 85.87 NATURAL 1.92 HYDRIC 21.75 TOTAL 109.54 | AGRICULTURE 84.21 NATURAL 1.92 HYDRIC 21.75 TOTAL 107.91 | AGRICULTURE 84.21 NATURAL 1.92 HYDRIC 21.75 TOTAL 107.91 | AGRICULTURE 105.02 NATURAL 4.91 HYDRIC 109.93 | AGRICULTURE 85.87 NATURAL 1.92 HYDRIC 21.75 TOTAL 109.54 | AGRICULTURE 85.87 NATURAL 1.92 HYDRIC 21.75 TOTAL 109.54 | AGRICULTURE 84.21 NATURAL 1.92 HYDRIC 21.75 TOTAL 107.91 | AGRICULTURE 84.21 NATURAL 1.92 HYDRIC 21.75 TOTAL 107.91 | AGRICULTURE 84.21 NATURAL 1.92 HYDRIC 21.75 TOTAL 107.91 | AGRICULTURE 84.21 NATURAL 1.92 HYDRIC 21.75 TOTAL 107.91 | AGRICULTURE 96.86 NATURAL 5.92 HYDRIC 102.78 | AGRICULTURE 82.36 NATURAL 10.42 HYDRIC 17.04 TOTAL 108.16 | AGRICULTURE 82.36 NATURAL 10.42 HYDRIC 17.04 TOTAL 108.16 | AGRICULTURE 82.36 NATURAL 10.42 HYDRIC 17.04 TOTAL 108.16 | AGRICULTURE 84.21 NATURAL 1.92 HYDRIC 21.75 TOTAL 107.91 |
| | | | 3 | AGRICULTURE 51.95 NATURAL 19.37 HYDRIC 0.77 TOTAL 71.09 | AGRICULTURE 46.45 NATURAL 17.49 HYDRIC 0.8 TOTAL 64.65 | AGRICULTURE 47.25 NATURAL 26.46 HYDRIC 12.49 TOTAL 86.2 | AGRICULTURE 51.95 NATURAL 19.37 HYDRIC 0.77 TOTAL 71.09 | AGRICULTURE 46.45 NATURAL 17.49 HYDRIC 0.8 TOTAL 64.65 | AGRICULTURE 46.45 NATURAL 17.49 HYDRIC 0.8 TOTAL 64.65 | AGRICULTURE 47.25 NATURAL 26.46 HYDRIC 12.49 TOTAL 86.2 | AGRICULTURE 51.95 NATURAL 19.37 HYDRIC 0.77 TOTAL 71.09 | AGRICULTURE 46.45 NATURAL 17.49 HYDRIC 0.8 TOTAL 64.65 | AGRICULTURE 51.95 NATURAL 19.37 HYDRIC 0.77 TOTAL 71.09 | AGRICULTURE 46.45 NATURAL 17.49 HYDRIC 0.8 TOTAL 64.65 | AGRICULTURE 46.45 NATURAL 17.49 HYDRIC 0.8 TOTAL 64.65 | AGRICULTURE 51.95 NATURAL 19.37 HYDRIC 0.77 TOTAL 71.09 | AGRICULTURE 46.45 NATURAL 17.49 HYDRIC 0.8 TOTAL 64.65 | AGRICULTURE 51.95 NATURAL 19.37 HYDRIC 0.77 TOTAL 71.09 | AGRICULTURE 46.45 NATURAL 17.49 HYDRIC 0.8 TOTAL 64.65 | AGRICULTURE 51.95 NATURAL 19.37 HYDRIC 0.77 TOTAL 71.09 | AGRICULTURE 52.28 NATURAL 26.45 HYDRIC 12.49 TOTAL 92.21 | AGRICULTURE 46.45 NATURAL 17.49 HYDRIC 0.8 TOTAL 64.65 | AGRICULTURE 46.45 NATURAL 17.49 HYDRIC 0.8 TOTAL 64.65 | AGRICULTURE 46.45 NATURAL 17.49 HYDRIC 0.8 TOTAL 64.65 |
| Total Socio-Economic Weight | | 38% | | | | | | | | | | | | | | | | | | | | | | |
| Summary of Results (sum of corridor scores for each evaluation category) | | | 1 | 0.23 | 0.23 | 0.23 | 0.38 | 0.38 | 0.38 | 0.29 | 0.29 | 0.29 | 0.58 | 0.58 | 0.58 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.58 | 0.58 | 0.58 | |
| | | | 2 | 0.31 | 0.31 | 0.16 | 0.31 | 0.31 | 0.16 | 0.31 | 0.31 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | |
| | | | 3 | 0.31 | 0.40 | 0.53 | 0.16 | 0.40 | 0.53 | 0.16 | 0.40 | 0.53 | 0.16 | 0.40 | 0.53 | 0.16 | 0.40 | 0.53 | 0.47 | 0.53 | 0.16 | 0.40 | 0.53 | |
| Total Socio-Economic Score for each Alternative Corridor (higher score = higher performing alternative corridor) | | | | 0.85 | 0.94 | 0.92 | 0.85 | 1.09 | 1.07 | 0.76 | 1.00 | 0.98 | 0.90 | 1.14 | 1.41 | 0.83 | 1.07 | 1.34 | 1.28 | 1.34 | 0.90 | 1.14 | 1.41 | |
| REMARKS | | | <ul style="list-style-type: none"> Alternative 12 had the highest total score generally due to its avoidance of significant impacts in two of the three segments to approved developments, historical/archaeological, and park and recreational facilities. Alternative 1 on the other hand ranked the lowest with potential significant land use impacts within segment 1 and potential impacts to parks and recreational facilities within the first two segments. | | | | | | | | | | | | | | | | | | | | | |

* Major impacts to the Future Valencia College West Campus and Horizon West Town Center

Sample Calculation for Alternative 1 (Segment 2) under Approved Developments/Future Land Use
 Relative Segmental Score = Segmental Rating (1 Point) x Approved Developments/Future Land (15%) = 0.15

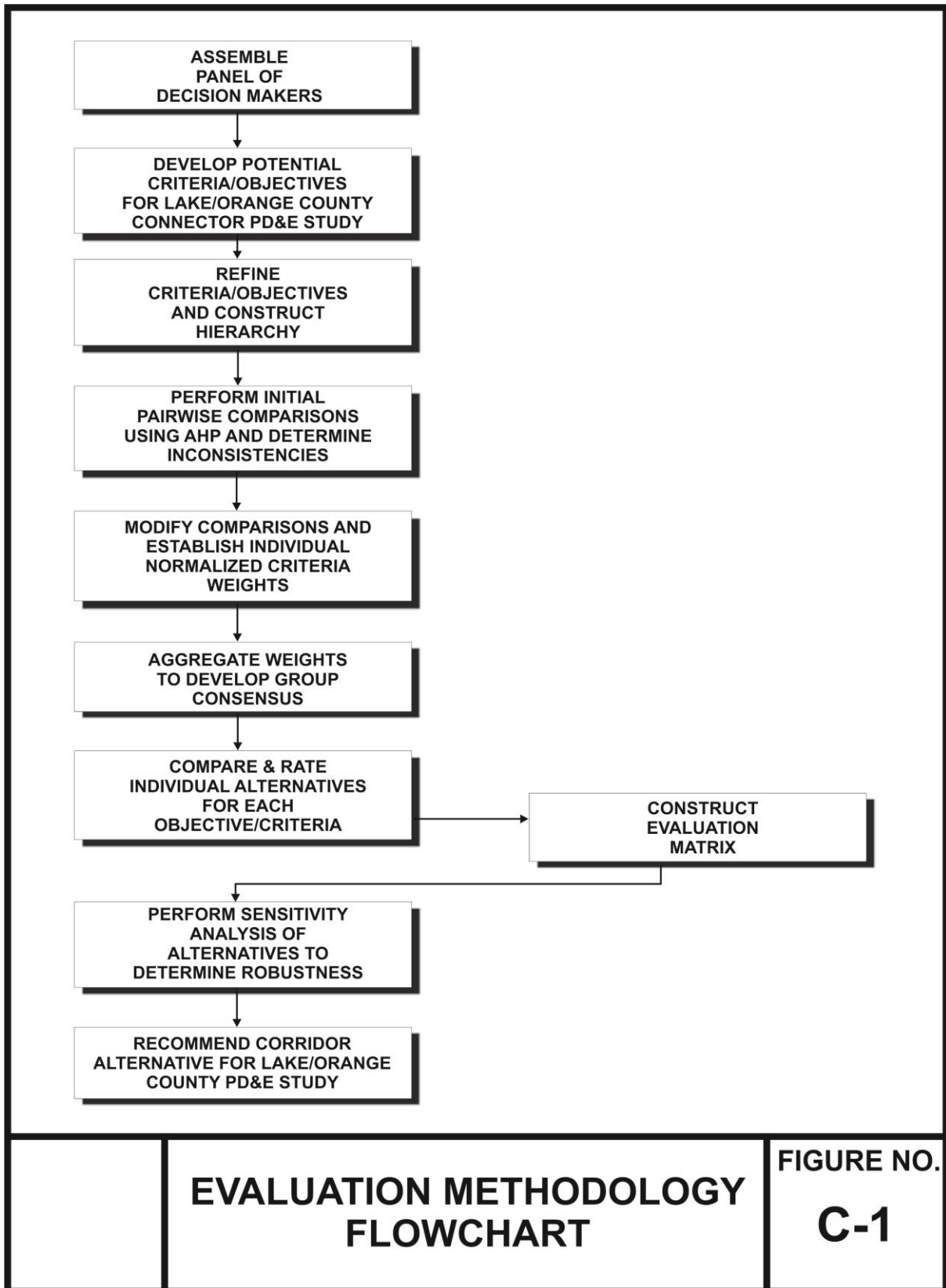
Appendix C: Analytical Hierarchy Process (AHP) Results

Alternatives Evaluation

The final evaluation of the various corridor alternatives for the proposed Lake/Orange County Connector involved essentially a multi-objective/multi-attribute decision-making process. The establishment of the relative importance of each objective/criteria was critical in order to ultimately choose the most efficient or “best” corridor alternative. This process involved decisions which must make trade-offs between different and often conflicting objectives/criteria. The core decision-making tool utilized during the evaluation was the Analytic Hierarchical Process (AHP). This process was developed by Thomas J. Saaty for decision analysis of complex subjective problems involving a large number of criteria. This appendix documents the application of the AHP computer decision-making software used to determine the recommended corridor alternative for the proposed project. Study participants started by addressing pertinent issues such as setting priorities, subsequently establishing criteria and criteria weights, and finally by evaluating the various alternatives for the proposed project improvements. **Figure C-1** illustrates the methodology utilized in the evaluation of the corridor alternatives for the proposed project.

Evaluation Methodology

The Analytic Hierarchy Process (AHP) method is based on the breakdown of each problem into a system of stratified levels or hierarchies where each level consists of criteria or objectives to be compared. Each of the criteria or objectives in a level is further broken down in subsequent levels into sub-criteria or objectives that are easier to quantify. The relative importance or priority for all the criteria in a given level is then established through a sequence of pair-wise comparisons which will ultimately lead to the derivation of priorities (i.e., weights or importance) for each criterion as well as the determination of the recommended corridor alternative. Pair-wise comparisons have been technically proven to be more reliable in eliciting human judgment than directly assigning weights. Once the hierarchy was established and agreed upon, a questionnaire was developed based on pair-wise comparisons of the established



**EVALUATION METHODOLOGY
FLOWCHART**

**FIGURE NO.
C-1**

Figure C-1 criteria. It should be noted that even though project questionnaires are often utilized by participants to establish the importance, priority or weight of each criterion, in our case the panel participants agreed to adopt the weights previously established during the previous evaluation phase (see values at top of **Table 3-8**). However, a questionnaire was developed to compare each of the corridor alternatives based on each parameter comprising the criteria. After the questionnaires were completed, the data was input into the computer program.

Evaluation Results

The AHP computer application was performed with a group consensus results obtained by aggregating the responses of all participants and applying the group median method. The group median judgments and preferences were then incorporated into the AHP computer program. The AHP computer application results are included at the end of this appendix and **Table C-1** provides a brief explanation of the included outputs. A thorough sensitivity analysis of the results was conducted after finding the recommended roadway alternative as selected by the participants of the study through the execution of the program. The analysis included the investigation of sensitive criterion or criteria within the results. The AHP software also includes a sensitivity analysis feature. This feature investigates the effect of the ranking of the recommended roadway alternative if criteria take on other possible values. The sensitivity analysis identifies the relatively sensitive criteria (i.e., those that cannot be changed much without changing the ranking of the top roadway alternative) to try to estimate these more closely, and then to select a solution which remains a good one over the ranges of likely values of the sensitive parameters. Usually, there will be some criteria that can be assigned any reasonable value without affecting the ranking of the recommended alternative. However, there may also be criteria with likely values that would yield a new ranking of the recommended alternative.

| Page No. | Table C-1 Contents |
|-----------------|--|
| 1 | Weight assignment for all Primary & Secondary objectives and Final Computed results for both competing alternatives |
| 2 | Weight Assignment graph for Primary Objectives |
| 3 | Weight Assignment graph for Engineering Impacts |
| 4 to 7 | Computed alternative results with respect to secondary objectives of traffic congestion/safety, traffic accommodated, and connectivity |
| 8 | Weight Assignment graph for Environmental Impacts |
| 9 to 11 | Computed alternative results with respect to secondary objectives of SJRWMD Regulatory Easement impacts, wetland impacts, wildlife and habitat, and outstanding Florida waterway impacts |
| 12 | Weight Assignment graph for Socio-Economic Impacts |
| 13 to 14 | Computed alternative results with respect to secondary objectives of Community Cohesion and controversy potential |
| 15 to 16 | Synthesis of computed alternative results |

Model Name: Lake/Orange County Connector AHP

Treeview

Goal: Pre-Final Alternative Corridor Evaluation



Alternatives

| | | |
|-----------------------|--|-------------|
| Alternative 12 | | .333 |
| Alternative 17 | | .333 |
| Alternative 20 | | .333 |

Priority Graphs

Priorities with respect to:
Goal: Pre-Final Alternative Corrid...



Inconsistency = 0.00
with 0 missing judgments.

Priorities with respect to:
Goal: Pre-Final Alternative Corridor E
>Engineering

| | | |
|---------------------------------|-------------|--|
| Geometric Considerations | .279 |  |
| Traffic Attractions | .279 |  |
| Connectivity/Directness | .186 |  |
| Utility Impacts | .256 |  |

Inconsistency = 0.00
with 0 missing judgments.

Priorities with respect to:
Goal: Pre-Final Alternative Corridor
>Engineering
>Geometric Considerations

| | | |
|-----------------------|-------------|--|
| Alternative 12 | .127 |  |
| Alternative 17 | .276 |  |
| Alternative 20 | .597 |  |

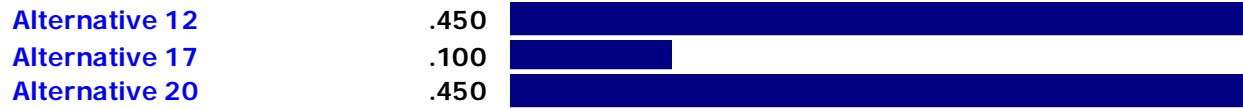
Inconsistency = 0.00
with 0 missing judgments.

Priorities with respect to:
Goal: Pre-Final Alternative Corridor
>Engineering
>Traffic Attractions

| | | |
|-----------------------|-------------|--|
| Alternative 12 | .333 |  |
| Alternative 17 | .333 |  |
| Alternative 20 | .333 |  |

Inconsistency = 0.00
with 0 missing judgments.

Priorities with respect to:
Goal: Pre-Final Alternative Corridor
>Engineering
>Connectivity/Directness



Inconsistency = 0.00

with 0 missing judgments.

Priorities with respect to:
Goal: Pre-Final Alternative Corridor
 >Engineering
 >Utility Impacts

| | | |
|-----------------------|-------------|--|
| Alternative 12 | .333 |  |
| Alternative 17 | .333 |  |
| Alternative 20 | .333 |  |

Inconsistency = 0.00
with 0 missing judgments.

Priorities with respect to:
Goal: Pre-Final Alternative Corridor
>Environmental

| | | |
|-------------------------------|-------------|--|
| Conservation Lands | .385 |  |
| Wetland Impacts | .308 |  |
| Recreational Resources | .308 |  |

Inconsistency = 0.00

with 0 missing judgments.

Priorities with respect to:
Goal: Pre-Final Alternative Corridor
>Environmental
>Conservation Lands

| | | |
|-----------------------|-------------|--|
| Alternative 12 | .333 |  |
| Alternative 17 | .333 |  |
| Alternative 20 | .333 |  |

Inconsistency = 0.00
with 0 missing judgments.

Priorities with respect to:
Goal: Pre-Final Alternative Corridor
>Environmental
>Wetland Impacts

| | | |
|-----------------------|-------------|--|
| Alternative 12 | .409 |  |
| Alternative 17 | .182 |  |
| Alternative 20 | .409 |  |




Inconsistency = 0.00
with 0 missing judgments.

Priorities with respect to:
Goal: Pre-Final Alternative Corridor
>Environmental
>Recreational Resources

| | | |
|-----------------------|------|--|
| Alternative 12 | .235 |  |
| Alternative 17 | .529 |  |
| Alternative 20 | .235 |  |

Inconsistency = 0.00
with 0 missing judgments.

Priorities with respect to:
Goal: Pre-Final Alternative Corridor Evaluatio
>Socio-Economic

| | | |
|-------------------------------------|-------------|--|
| Approved Development Impacts | .387 |  |
| Controversy Potential | .290 |  |
| Right-of-way Impacts | .323 |  |

Inconsistency = 0.00
with 0 missing judgments.

Priorities with respect to:
Goal: Pre-Final Alternative Corridor
>Socio-Economic
>Approved Development Im...

| | | |
|-----------------------|------|--|
| Alternative 12 | .235 |  |
| Alternative 17 | .529 |  |
| Alternative 20 | .235 |  |

Inconsistency = 0.00
with 0 missing judgments.

Priorities with respect to:
Goal: Pre-Final Alternative Corridor
> Socio-Economic
> Controversy Potential

| | | |
|-----------------------|------|--|
| Alternative 12 | .235 |  |
| Alternative 17 | .529 |  |
| Alternative 20 | .235 |  |

Inconsistency = 0.00
with 0 missing judgments.

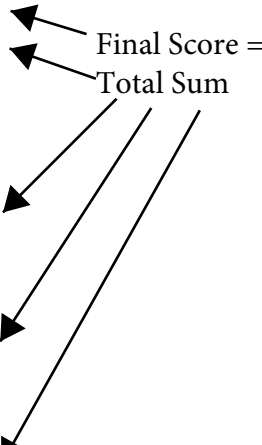
Priorities with respect to:
Goal: Pre-Final Alternative Corridor
 >Socio-Economic
 >Right-of-way Impacts

| | | |
|-----------------------|-------------|--|
| Alternative 12 | .333 | |
| Alternative 17 | .333 | |
| Alternative 20 | .333 | |

Inconsistency = 0.00
 with 0 missing judgments.

Synthesis: Details

| Alts | Level 1 | Level 2 | Prty |
|------------|---------------------------------------|----------------|--------------|
| Alternat.. | Total A... | | 0.309 |
| | Total Engineering (L: .430) | | 0.139 |
| | Engineering (L: .430) | Geometric... | .01063 |
| | | Traffic Att... | .04975 |
| | | Connectiv... | .03316 |
| | | Utility Imp... | .04560 |
| | Total Environmental (L: .260) | | 0.089 |
| | Environmental (L: .260) | Conservat... | .04146 |
| | | Wetland I... | .03316 |
| | | Recreatio... | .01474 |
| Alternat.. | Total Socio-Economic (L: .310) | | 0.080 |
| | Socio-Economic (L: .310) | Approved ... | .02211 |
| | | Controver... | .01658 |
| | | Right-of-w... | .04146 |
| | Total A... | | 0.344 |
| | Total Engineering (L: .430) | | 0.126 |
| | Engineering (L: .430) | Geometric... | .02299 |
| | | Traffic Att... | .04975 |
| | | Connectiv... | .00737 |
| | | Utility Imp... | .04560 |
| Alternat.. | Total Environmental (L: .260) | | 0.089 |
| | Environmental (L: .260) | Conservat... | .04146 |
| | | Wetland I... | .01474 |
| | | Recreatio... | .03316 |
| | Total Socio-Economic (L: .310) | | 0.129 |
| | Socio-Economic (L: .310) | Approved ... | .04975 |
| | | Controver... | .03731 |
| | | Right-of-w... | .04146 |
| | Total A... | | 0.348 |
| | Total Engineering (L: .430) | | 0.178 |
| Alternat.. | Engineering (L: .430) | Geometric... | .04975 |
| | | Traffic Att... | .04975 |
| | | Connectiv... | .03316 |



| Alts | Level 1 | Level 2 | Prty |
|---------------|---------------------------------------|----------------|--------------|
| Alternat.. | Engineering (L: .430) | Utility Imp... | .04560 |
| | Total Environmental (L: .260) | | 0.089 |
| | Environmental (L: .260) | Conservat... | .04146 |
| | | Wetland I... | .03316 |
| | | Recreatio... | .01474 |
| | Total Socio-Economic (L: .310) | | 0.080 |
| | Socio-Economic (L: .310) | Approved ... | .02211 |
| | | Controver... | .01658 |
| Right-of-w... | | .04146 | |

Appendix D: Coordination Information

ADVANCED NOTIFICATION



ADVANCE NOTIFICATION SUMMARY REPORT

Lake / Orange County Connector (US 27 to SR 429)
Feasibility / Project Development and Environment Study
Lake and Orange Counties, Florida

CFX Project Number: 599-225

SEPTEMBER 2018

An Advance Notification Package was prepared by the Central Florida Expressway Authority (CFX) as part of the Lake /Orange County Connector Feasibility / Project Development and Environment (PD&E) study. The Florida State Clearinghouse received the Advance Notification on June 20, 2018 and distributed it to the appropriate state agencies for review. The State Application Identifier (SAI) number assigned to this project by the Florida State Clearinghouse is FL201806228337. The Advance Notification was also distributed to appropriate non-state agencies and tribal nations. A copy of the Advance Notification Package is provided as **Appendix A** and contains a transmittal list of all recipients.

Comments to the Advance Notification were received from the National Forest Service, National Resources Conservation Service, Seminole Tribe of Florida, State Historic Preservation Officer, Federal Aviation Administration, and the U.S. Environmental Protection Agency. The complete comments to the Advance Notification are provided in **Appendix B**. Below is a summary of comments along with responses and contact information for the reviewing agency.

Commenting Agency: National Forest Service

John McKechnie
Forest Engineer
Forest Service
National Forests in Florida
325 John Knox Rd
Tallahassee, FL 32303
Office: 850-523-8522
Mobile: 850-274-0470
Fax: 850-523-8505
Email: jmckechnie@fs.fed.us

Comment Summary:

The National Forests in Florida has no comments. The proposed study does not affect any US Forest Service holdings.

Response:

Thank you for your review and response.

Commenting Agency: National Resources Conservation Service

LeRoy Crockett
Resource Soil Scientist
Perry Paige Bldg. Suite 305N
1740 S MLK Blvd
Tallahassee, FL 32307
Office: 850-412-7809
Mobile: 352-262-0192

Comment Summary:

If you need a Farmland Protection Evaluation for this project please send request form and .shp files.

Response:

We anticipate the need for a Farmland Protection Evaluation and will coordinate with NRCS once project alternatives and .shp files are available.

Commenting Agency: Seminole Tribe of Florida

Victoria L. Menchaca, MA, Compliance Review Specialist
STOF-THPO, Compliance Review Section
30290 Josie Billie Hwy, PMB 1004
Clewiston, FL 33440
Office: 863-983-6549 ext. 12216
Email: victoriamentchaca@semtribe.com

Comment Summary:

The proposed undertaking does fall within in the STOF [Seminole Tribe of Florida] Area of Interest. We have reviewed the documents provided and would like to provide the following feedback. We would respectfully like to request that once specific alternative corridors are chosen that a Cultural Resources Assessment Survey be conducted and sent to us so that we may complete our review.

Response:

A Cultural Resources Assessment Survey is being prepared as part of the Section 106 review process for this project and will be made available to the public for review and comment.

Commenting Agency: State Historic Preservation Officer

Timothy A. Parsons, Ph.D.
Director, Division of Historical Resources
and State Historic Preservation Officer
and
Ginny Jones
Transportation Compliance & Review Architectural Historian
500 South Bronough Street
Tallahassee, FL 32399
Office: 800-847-7278 (Main)
Office: 850-245-6333 (Direct)
Email: ginny.jones@dos.myflorida.com

Comment Summary:

Based on the nature of the project (new roadway) and the environmental conditions in the project area, we request that the project area be subjected to a professional cultural resources assessment survey. The resultant survey report should conform to the provisions of Chapter 1A-46, *Florida Administrative Code*,

and should be forwarded to FHWA and our office upon completion. The report will help us complete the Section 106 review process and provide concurrence on federal findings of effect, and recommend any necessary avoidance or mitigation measures.

Response:

A Cultural Resources Assessment Survey is being prepared as part of the Section 106 review process for this project.

Commenting Agency: Federal Aviation Administration

Bart Vernace, P.E.
Manager
FAA/Orlando Airports District Office
8427 SouthPark Circle, Suite 524
Orlando, FL 32819
Office: 407-487-7220 (Main)
Office:407-487-7223 (Direct)
Fax: (407) 487-7135
Email: Bart.vernace@faa.gov

Comment Summary:

Please note that federal requirements that pertain to notifying the FAA of proposed construction and alteration on or nearby a public-use airport should be in accordance with FAR Part 77 Regulation. Any tall permanent structure or temporary equipment near an airport must conform to this regulation.

Response:

All tall, permanent structures or temporary equipment near any airports will conform with appropriate regulations, including FAR Part 77.

Commenting Agency: U.S. Environmental Protection Agency

Roshanna White
Life Scientist, NEPA Program Office
U.S. Environmental Protection Agency, Region IV
61 Forsyth Street SW
Atlanta, GA 30303
Office: 404-562-9035
Email: white.roshanna@epa.gov

Comment Summary:

The eastern study area of the project lies partially within the Biscayne Aquifer boundaries (NEPAssist <https://www.epa.gov/nepa/nepassist>). The Biscayne Aquifer is a sole source aquifer and is considered a principal water source for South Florida residents, visitors, and businesses. The aquifer is highly permeable and vulnerable to contamination. The EPA recommends adherence to all federal, state, and local

government permits, ordinances, planning designs, construction codes, operation and maintenance requirements, and engineering for avoidance, minimization, and protection of the water source. Additionally, we recommend that avoidance and minimization of any identified jurisdictional waters of the U.S. be avoided during the development of alternatives to the extent practicable. During construction, please consider the vulnerability of the sole source aquifer and protect the drinking water delivered from this source. Also, follow all best management activities for erosion and sedimentation control. The project is a non-federal action. Therefore, concurrence from the EPA is not required according to the Safe Drinking Water Act. Please contact state and county environmental offices to address proper drainage and storm water design. If federal financial assistance does become a source of funding for this project, please contact Region 4, Ground Water and UIC Section, Mr. Khurram Rafi (rafi.khurram@epa.gov) or Larry Cole (cole.larry@epa.gov) for an aquifer impact determination letter.

Response:

Impacts to wetlands and jurisdictional waters of the US will be avoided and minimized as much as practicable. Minimization of impacts to the aquifer is also being considered during alternative development. Construction impacts will be minimized by implementing standard Best Management Practices for road construction.

Appendix A: Advance Notification

ADVANCE NOTIFICATION PACKAGE

Lake / Orange County Connector (US 27 to SR 429)
Feasibility / Project Development and Environment Study
Lake and Orange Counties, Florida

CFX Project Number: 599-225

June 2018

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LOCATION MAPS

See **Figures 1 and 2** for maps of the region and study area.

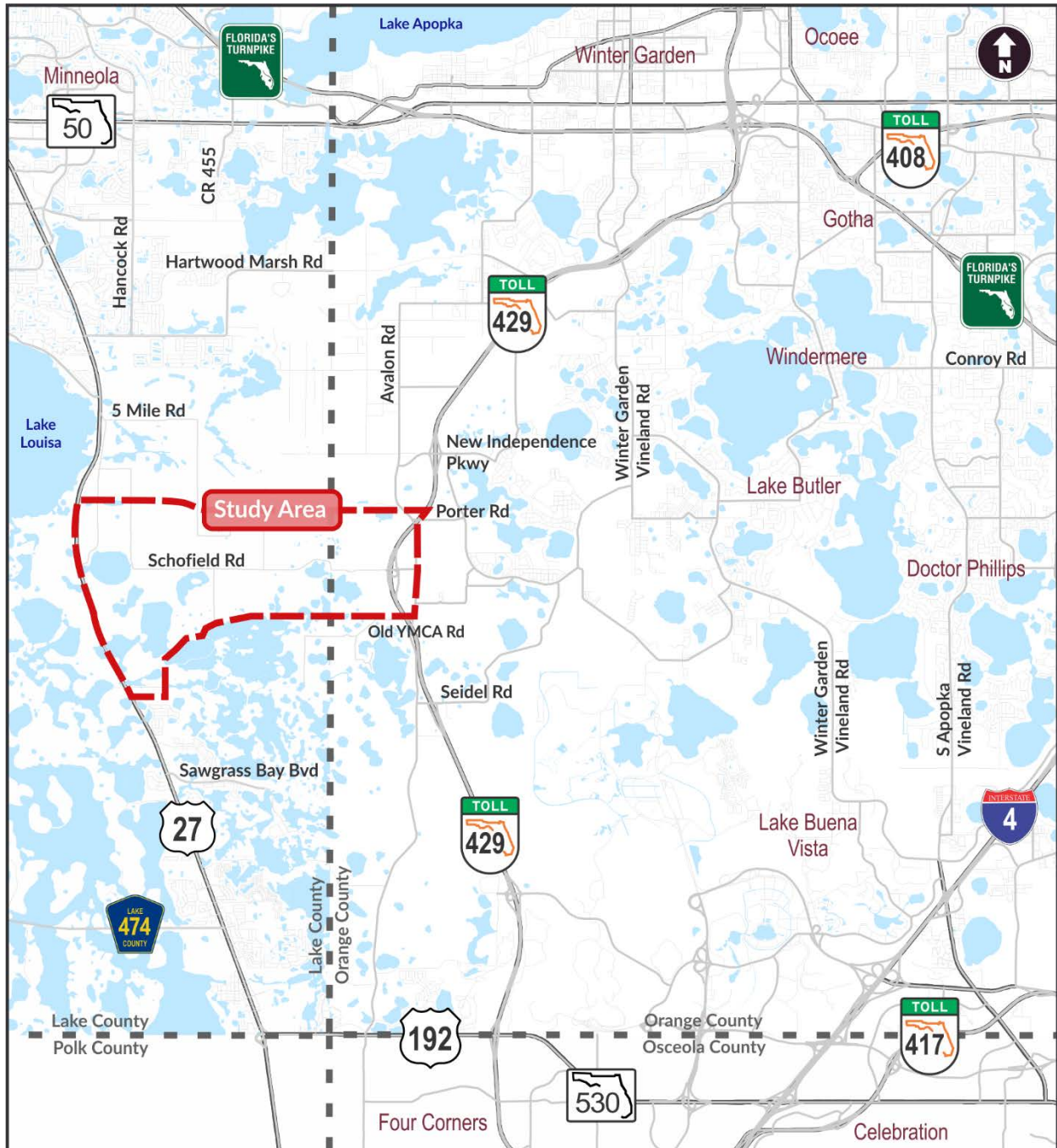


Figure 1: Regional Map



Figure 2: Study Area Map

FACT SHEET

- Project Name:** Lake / Orange County Connector
- Project Limits:** The study area limits are generally described as: Porter Road on the north; SR 429 on the east; Old YMCA Road on the south; and US 27 on the west.
- Counties:** Lake and Orange
- Proposed Activity:** Assess the feasibility and viability of a Lake / Orange County connection as a toll road under the CFX Master Plan policy for new projects as a system expansion.
- Responsible Agency:** Central Florida Expressway Authority (CFX)
- Planning Organization:** CFX
- Phase:** Programming Screen
- Plan ID:** Not Available
- Federal Involvement:** Applicable Federal Permits

Project Contact Information:

Chief of Infrastructure

Joseph A. Berenis, P.E.
Central Florida Expressway Authority
4974 ORL Tower Road
Orlando, FL 32807
Office: 407-690-5000
E-mail: Joseph.Berenis@CFXway.com

Consultant Project Manager

William Sloup, P.E.
Metric Engineering
615 Crescent Executive Court, Suite 524
Lake Mary, FL 32746
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E-mail: William.Sloup@metriceng.com

PROJECT PURPOSE AND NEED

The purpose and need for a project provides the basis for developing, considering, evaluating, and eliminating alternatives while also shaping the alternatives and assisting with the identification of reasonable and feasible alternatives. The need aspect lays the foundation and basis of a proposed project while the purpose presents proposed solutions to the stated need.

PURPOSE

The primary objectives of this transportation improvement project are to expand regional system linkage and connectivity in Lake and Orange Counties; enhance mobility between SR 429 and US 27; and accommodate the expected increase in traffic due to population and employment growth within the study area, while being consistent with accepted local and regional plans. As such, the proposed improvements include the construction of a limited-access facility that provides a new east-west connection from SR 429 in west Orange County to US 27 in south Lake County.

NEED

There are six (6) project needs that serve as justification for the proposed improvements. These needs are: 1) Provide improved system connectivity / linkage; 2) Accommodate anticipated transportation demand; 3) Provide consistency with Local and Regional Plans; 4) Support economic viability and job creation; 5) Support intermodal opportunities; and 6) Enhance evacuation and emergency service. The following sections describe the needs in more detail.

System Connectivity / Linkage

System linkage is defined as linking two or more existing transportation facilities or types of modal facilities between geographic areas or regional traffic generators.

Figure 1 illustrates the existing roadway network within the vicinity of the proposed project. There are two major north-south facilities serving the project area, SR 429, a four-lane limited access rural toll road at the eastern project terminus and US 27, a four-lane divided rural arterial at the western project terminus. In the east-west direction, SR 50, a six-lane urban arterial facility located approximately 7 miles to the north, and US 192, a six-lane urban divided arterial located approximately 7 miles south, connect Lake County to the Orlando urban core. These existing east-west facilities not only serve through traffic but also provide significant local access thus limiting their ability to provide effective overall mobility.

At the present time, the east-west connectivity within the study area is deficient with Schofield Road, an unpaved 20-foot wide rural facility, providing the only connection between US 27 on the west and SR 429 on the east. A new limited-access, direct connection expressway facility would not only provide the much-needed connectivity in the area but would also significantly improve regional mobility and travel time.

A Preliminary Engineering Report (PER) was completed in 2016 for Wellness Way, a new four-lane divided arterial extending from US 27 and connecting to New Independence Parkway in the vicinity of SR 429. It should be noted that the 2007 SR 429 to US 27 Connector Concept Development and Evaluation Study prepared by the Central Florida Expressway Authority (CFX) (former Orlando-Orange County Expressway Authority (OOCEA)) stated that a network of east-west six-lane roadway arterials could also meet the capacity need of the study area. Wellness Way alone will not be sufficient to provide the necessary east-west linkage to meet the anticipated growth of the area as would a new limited-access, direct connection expressway facility.

Interchanges are proposed at US 27 in Lake County, SR 429 in Orange County, and the future extension of CR 455 in Lake County. Lake County's Visionary Map shows a southerly extension of CR 455 from its current terminus to the future extension of Sawgrass Bay Blvd.

Anticipated Transportation Demand

According to the Central Florida Expressway Authority's 2040 Master Plan, Lake County's population is projected to increase by 56% (to 493,000 residents) and employment is projected to increase by 60% (to 212,700) by 2040. During the same time period, the population and employment growth within Orange County are expected to each increase by more than 50%. Two of the main areas of development generating additional population are the Wellness Way Area Plan (WWAP) in south Lake County and the Horizon West Special Planning Area (HWSPA) in southwestern Orange County. The WWAP includes more than 16,000 acres. Horizon West is a growing community of several villages occupying more than 20,000 acres and projected to house over 60,000 residents when completed. Horizon West also features the future site of a Valencia College satellite campus.

The January 2018 Bureau of Economic and Business Research (BEBR) population projections show from 2017 to 2045 a 54% growth in population is anticipated for both Lake and Orange counties.

The study area traverses all five of the WWAP Future Land Use Categories (FLUC); Town Center and Wellness Way 1, 2, 3 and 4. The planning horizon for the WWAP is projected to be 2040 with a build-out of 16,500 dwelling units and a projected employment of 36,000. CEMEX submitted an updated permit for the proposed Four Corners Sand Mine in August 2017. They propose to operate on 1,200 acres within the WWAP, on property divided by Schofield Road. The permit allows mining approximately 525 acres over a 22-year period.

The study area also falls within the Town Center and Village H (Hickory Nut) of Horizon West. The Town Center will be a regional employment center with a projected employment force of over 27,000 and home to a host of new developments including a satellite campus of Valencia College and Orlando Health Hospital. Overall, Horizon West has an anticipated build-out of 40,000 dwelling units and a projected commercial area of 9.5 million square feet.

An origin and destination (OD) study conducted by CDM Smith in 2017 for CFX revealed that much of the potential traffic for a new toll road would come from planned developments. Without a new facility in the year 2045, there is a potential for 34,000 daily trips traveling between US 27 and SR 429 in the vicinity of Schofield Road. With the proposed project as a tolled expressway, approximately 19,000 daily trips would be diverted from local roadways.

The proposed connector is anticipated to help accommodate the expected increase in traffic due to population and employment growth within the study area by expanding the limited access expressway system.

Consistency with Local and Regional Plans

Planning consistency of the proposed project is documented in various local comprehensive plans (see **Table 1**). A brief explanation of each follows.

CFX 2040 Master Plan and Five-Year Work Plan: The subject project is a major component of the Authority's plan to provide additional capacity to address the area's increasing projected population and employment growth. The Lake-Orange Connector would support the economic vitality of the WWAP and the HWSPA developments and is widely supported among local landowners and community leaders. The project is listed in the five-year work plan and funded for years 18/19 and 19/20 for Concept, Feasibility and Mobility Study. In 2007 OOCEA completed the SR 429 to US 27 Connector Concept Development and Evaluation Study which evaluated corridors for a new east-west limited access expressway in an area extending from SR 50 to the north to US 192 to the south. The study concluded that "if properties within and adjacent to the study area are developed in a manner consistent with the currently adopted comprehensive regional land use plans, there is a need for an additional east-west transportation facility in the study area."

Lake-Sumter MPO – 2040 LRTP: The Lake-Sumter MPO provides a forum for cooperative decision making concerning transportation issues throughout the urbanized area of Lake and Sumter Counties. The latest draft list of priority projects (April 2018) shows that a new "east-west connection between US 27 in Lake County and SR 429 in Orange County" is listed as priority #20 under the Preliminary Engineering projects. In addition, the portion of the Lake/Orange Parkway project extending from US 27 to the Lake/Orange County line is included in the Lake-Sumter 2040 LRTP as a cost feasible element and as an Emerging Regional Significant Corridor.

West Orange South Lake Transportation and Economic Development Task Force (WOSLTED): This task force was initiated in 2000 with the goal of promoting transportation in the West Orange/South Lake (WOSL) region. In 2008, the task force started a planning process to ensure coordinated transportation and housing development which eventually resulted in a proposed system of new roadways and roadway improvements which included the provision of a proposed east-west connector from US 27 to SR 429. This connector has always been a main focus of this organization.

MetroPlan Orlando: MetroPlan Orlando is the metropolitan planning organization for the greater Orlando area. It coordinates and leads transportation planning efforts in Orange, Osceola, and Seminole counties. The subject project is listed on the 2040 LRTP Plan Development Cost Feasible projects (updated June 2017) as a fully funded project (including PD&E, Design, Right-of-Way and Construction by 2040).

Table 1: Local Planning Consistency

| Agency | Remarks |
|---|---|
| Central Florida Expressway Authority (CFX) | Included in the 2040 Master Plan and the Five-Year Work Plan |
| Lake-Sumter MPO | Identified the proposed project in the 2040 LRTP Needs Plan |
| West Orange/South Lake Transportation and Economic Development Task Force | Identified a connection between US 27 to Orange County in its Transportation Plan |
| MetroPlan Orlando | Identified in its Technical Report 3: “Plan Development and Cost Feasible Projects” |

Economic Viability and Job Creation

The proposed facility is needed to further support the economic viability of the WWAP. This 16,000-acre service area has been recognized for many years as having significant potential for economic development in southeast Lake County. It is projected to be an economic engine for job creation in the region and is envisioned to strengthen its connectivity with other regional economic hubs. With an anticipated buildout of over 16,000 residential units, this important planned development is expected to generate over 26,800 jobs in the future.

The proposed connector will also directly benefit the economy and job creation potential of the Horizon West development by expediting the efficient delivery of goods and services in this developing area of West Orange County.

Support Intermodal Opportunities

The Horizon West Town Center is an intermodal and freight staging facility potentially providing access to trucks, rails, airports and/or ports. Its presence enhances the integration and connectivity of the multimodal transportation system. The proposed connector would link this freight staging facility with two major Strategic Intermodal System (SIS) highways (US 27 and SR 429) and thus connect Lake County via a network of limited-access facilities to the Orlando International Airport and Port Canaveral. In addition, the MetroPlan Orlando’s “Regional Freight and Goods Movement Facilities Profile” noted that there is “limited existing east-west highway

and rail connectivity within the region - which provides logistical challenges for some shippers". The proposed project will add a valuable east-west mobility link to the area's transportation network.

Evacuation and Emergency Services

The East Central Florida Region has been identified by the National Oceanic and Atmospheric Administration (NOAA) as a high hurricane-vulnerable area within the United States and thus requires sufficient and efficient evacuation routes. There are no existing designated east-west evacuation routes within the immediate project area. Only SR 50, approximately 7 miles to the north, and US 192 (SR 530), approximately 7 miles to the south, provide effective east-west evacuation connection to important north-south SIS routes in the area (US 27 and SR 429). The provision of an additional high-speed, limited-access east-west facility will afford desirable redundancy of the highway network to accommodate diverted local and regional traffic during times of natural or man-made emergencies.

Another critical issue deals with potential delays of fire and emergency services. There are two fire stations just north and south of the study area along US 27 but their linkage to the east is ineffective due to the lack of a paved or limited-access facility connecting to SR 429, potentially resulting in additional delays. The proposed connector would facilitate prompt fire and emergency response.

PROJECT DESCRIPTION

This PD&E study will consider a new tolled connection between US 27 and SR 429 in the study area shown on **Figure 1**. The type, design, and location of any potential improvements will be developed and evaluated during the course of the PD&E study and are not known at this time. It is anticipated that a limited access east-west roadway with two lanes in each direction will be a considered build alternative. A no-build alternative will also be considered.

PRELIMINARY ENVIRONMENTAL DISCUSSION

A project study area (study area) for this Advance Notification was established and is shown on **Figures 1 and 2**. The study area limits are generally described as Porter Road on the north, SR 429 on the east, Old YMCA Road on the south, and US 27 on the west. The environment in the study area was analyzed using existing databases and GIS files as well as by using information provided by previous concept development and feasibility study reports.

SOCIAL AND ECONOMIC

Land Use Changes

Much of the study area is undeveloped or agricultural with scattered water bodies and wetlands and some limited residential areas. Existing development is predominantly along US 27 and SR 429. There are residential areas immediately south of the study area, near US 27 and SR 429, as well as to the east of SR 429, around Orange County National Golf Center and Lodge. Lake Louisa

State Park is located west of US 27 and provides recreational opportunities to the public. The Four Corners Sand Mine is a mining operation proposed within the study area. Multiple major residential developments are also planned within the study area and the surrounding region. A conservation parcel known as the Schofield Tract is located immediately north of Schofield Road, two miles west of SR 429, and was purchased using Florida Forever Funds. Lake Louisa State Park, west of SR 27, was also purchased using Florida Forever Funds.

Social

The 2010 Demographic Profile Data from the US Census Bureau shows the majority of the populations in Orange County (63.6 percent) and Lake County (82 percent) are identified as white. Major minority populations include African Americans, Asians, or “Multiple” and “Other” races. Demographics are similar in the study area, though the study area appears to contain proportionately fewer populations identified as “non-white” than does Orange County. There is limited potential for environmental justice concerns or impacts to underserved populations, community cohesion, or safety/emergency response due to the proposed project.

Community facilities and services in or adjacent to the study area include the Orange County National Golf Center and Lodge and Lake Louisa State Park. Lake Louisa is a navigable water body open to the public for recreational activity.

Relocation Potential

The proposed project would involve a new roadway corridor and, therefore, additional right-of-way will be required. Currently, the amount and location of required right-of-way is undetermined. The project study area has minimal residential land uses, accounting for less than 5 percent of the total study area.

Farmlands

Most of the study area contains soils classified as Farmlands of Unique Importance. Prime farmlands in the study area with associated St. Johns River Water Management District (SJRWMD) land use descriptions include improved and unimproved pastures, woodland pastures, field crops, tree crops, citrus groves, tree nurseries, and pine plantations. Due to the extent of agricultural lands in the study area, the potential exists for moderate impacts to Farmland Soils of Unique Importance.

Aesthetic Effects

Aesthetic impacts in and around developed portions of the study area, including Schofield Road, Five Mile Road, US 27, and SR 429, are anticipated to be minimal because roadways are already present. Other portions of the study area are predominantly in a natural or agricultural setting and may contain woodlands, pastures, crop fields, or wetlands. Greater potential exists for aesthetic impacts to occur in these undeveloped areas; however, those impacts are anticipated to be minimal as well. Future planned development, including the Four Corners Sand Mine, residential developments, and utility infrastructure, are anticipated to further impact the

undeveloped portions of the study area, so no significant aesthetic impacts are anticipated because of the proposed project.

Economic

Agricultural nurseries, a golf course, planned residential developments, Lake Louisa State Park, and other businesses are located within or adjacent to the study area. The Four Corners Sand Mine and additional residential developments are approved or planned within the study area. The proposed project is anticipated to provide economic enhancements by creating additional transportation infrastructure that links employment and residential areas.

Mobility

The project is anticipated to enhance regional mobility by providing an expressway option in the east-west direction linking US 27 and SR 429. This would accommodate additional anticipated development under the Wellness Way Area Plan in southern Lake County and the Horizon West Special Planning Area (including a future state college) in southwest Orange County.

CULTURAL

Historic and Archaeological Sites

A review of the Florida Master Site File and the corresponding GIS layers were used to determine the presence of any potentially significant historical or archeological resources in the region around the project. There are 20 previously recorded archaeological sites, and 16 previously recorded historic structures. Thirteen of these historic structures were no longer existing by 1945. Twenty of the remaining resources were found to be ineligible for listing in the National Register of Historic Places (NRHP).

Recreation Areas

Recreation areas within or adjacent to the project area include the Orange County National Golf Center and Lodge, the National Training Center, and the 4,500-acre Lake Louisa State Park. The Orange County National Golf Center and Lodge is a large golf facility, consisting of three separate golf courses and several smaller buildings for private events and instructional programs. The golf center is located along the eastern edge of the study area, east of SR 429. The National Training Center is a 300-acre sports, health, fitness, and education campus. It features a fitness center and aquatic center, track and field complex, cross-country course, multi-purpose athletic fields, and softball/baseball facility. The National Training Center is located approximately 7 miles north of the study area on SR 50.

NATURAL

Wetlands

Wetlands occur throughout the study area and include mixed wetland hardwoods, cypress, hydric pine flatwoods, freshwater marshes, wet prairies, emergent aquatic vegetation, and mixed scrub-shrub wetlands. The study area, particularly south and west of Schofield Road, contains many lakes and ponds that have freshwater marsh, emergent aquatic vegetation, or other wetlands along their margins. Wetlands also occur in association with Lake Louisa, west of US 27.

Water Quality and Quantity

The project occurs within the jurisdictions of both the South Florida Water Management District (SFWMD) and the SJRWMD. The study area overlies the Floridan Aquifer and contains multiple surface water bodies and lakes such as Trout Lake, Pike Lake, Adain Lake, Island Lake, and Lake Needham. According to the Florida Lake Watch Program, water quality status in Lake Louisa in the Ocklawaha River Watershed was 'good' as of July 2017. Previous impairments that resulted in failed water quality standards included dissolved oxygen. The project is in an aquifer recharge area and may contain sinkholes or recharge features.

Floodplains

Information regarding the location of floodplains was obtained using the Federal Emergency Management Agency's Flood Insurance Rate Maps. Most of the study area is located within Floodzone X, which is outside the floodplain and considered moderate to low risk. Scattered regions designated as Floodzones A and AE are found throughout the project area and are centered on wetlands or lakes. These floodzones are located within the 100-year floodplain and are considered high risk.

Wildlife and Habitat

Federally listed species with potential to occur in the study area include Audubon's crested caracara (*Polyborus plancus audubonii*), Florida scrub-jay (*Aphelocoma coerulescens*), wood stork (*Mycteria americana*), red-cockaded woodpecker (*Picoides borealis*), sand skink (*Neoseps reynoldsi*), bluetail mole skink (*Eumeces egregius lividus*), eastern indigo snake (*Drymarchon corais couperi*), striped newt (*Notophthalmus perstriatus*, candidate for listing), Britton's beargrass (*Nolina brittoniana*), Florida bonamia (*Bonamia grandiflora*), Florida blazing star (*Liatris ohlingerae*), scrub lupine (*Lupinus aridorum*), papery whitlow-wort (*Paronychia chartacea* spp. *chartacea*), pygmy fringe tree (*Chionanthus pygmaeus*), Lewton's polygala (*Polygala lewtonii*), scrub pigeon-wing (*Clitoria fragrans*), scrub plum (*Prunus geniculata*), short-leaved rosemary (*Conradina brevifolia*), Everglade snail kite (*Rostrhamus sociabilis plumbeus*), Claspwing warea (*Warea amplexifolia*), Carter's warea (*Warea carteri*), and scrub wild buckwheat (*Eriogonum longifolium* var. *gnalpalifolium*). The project occurs on the northern limits of the US Fish and Wildlife Service consultation area for Audubon's crested caracara. Carter's warea is known to occur on the Schofield Tract, which was purchased using Florida Forever Funds and is intended to protect rare habitats.

State listed species that may occur in the study area include Florida burrowing owl (*Athene cunicularia floridana*), Florida pine snake (*Pituophis melanoleucus mugitus*), Florida mouse (*Podomys floridanus*), Florida sandhill crane (*Grus Canadensis pratensis*), gopher tortoise (*Gopherus Polyphemus*, candidate for Federal listing), gopher frog (*Lithobates capito*), little blue heron (*Egretta caerulea*), short-tailed snake (*Lampropeltis extenuata*), Sherman's fox squirrel (*Sciurus niger shermani*), southeastern American kestrel (*Falco sparverius paulus*), and tricolored heron (*Egretta tricolor*). Bald eagles (*Haliaeetus luecocephalus*) are protected by the Bald and Golden Eagle Protection Act and may also occur in the study area. During a 2007 conceptual

study, over 2,000 gopher tortoise burrows were identified within a portion of study area. There is high potential for gopher tortoise (and associated species which utilize burrows) to be located within the project impact area. A thorough survey will be required to identify burrows, develop a relocation plan, and obtain necessary relocation permits.

The highest quality wildlife habitat in the study area is associated with undeveloped areas, wetlands, and protected lands like the Schofield Tract. Smaller patches of wildlife habitat occur throughout the study area but are generally fragmented and surrounded by agricultural uses. Lake Louisa State Park contains high-quality wildlife habitat and is linked to other habitats to the southwest. The area southwest of Lake Louisa is known collectively as the Green Swamp and is important for wildlife and water quality.

Coastal and Marine

No coastal or marine resources occur within the study area and the project is not subject to Coastal Zone Consistency Review.

PHYSICAL

Noise

Residential and recreational areas within the study area are potentially sensitive to noise impacts and include lands mapped as Residential Low Density (FLUCCS 1100), Golf Courses (FLUCCS 1820), and Community Recreational Facilities/Parks (FLUCCS 1850). Most of these facilities are located near US 27 or SR 429 and likely experience existing roadway noise.

Air Quality

The study area is not located within any US Environmental Protection Agency (USEPA) Air Quality Maintenance Area or Non-Attainment Area. Therefore, the Clean Air Act Conformity requirements do not apply to this project at this time. Temporary impacts to air quality are anticipated during construction as a result of fugitive dust and exhaust emissions, but no permanent impacts to air quality are anticipated.

Contamination

Within the study area there are at least 14 storage tank contamination monitoring sites, three petroleum contamination monitoring sites, and three USEPA Resource Conservation and Recovery Act (RCRA) regulated facilities. The Florida Department of Environmental Protection (FDEP) Contamination Locator Map identifies one active petroleum cleanup site within the study area. Due to the presence of these facilities and the potential presence of unknown contamination risks, moderate involvement regarding contamination is anticipated.

Infrastructure

The study area contains at least two limited-use drinking water wells, four solid waste facilities, two wastewater facilities, 14 onsite sewage facilities, and 32 USEPA water quality data monitoring stations. The study area includes existing and proposed infrastructure for a City of Orlando-Orange County water conservation program called Water Conserv II.

Navigation

Lake Louisa is the only navigable waterway proximate to the study area. The project is not anticipated to directly impact Lake Louisa and no potential impacts to navigation are anticipated as a result of the proposed project.

Special Designations

Outstanding Florida Waters—Lake Louisa is the largest of the Clermont chain of lakes and is designated an Outstanding Florida Water (OFW).

Aquatic Preserves—There are no aquatic preserves in or around the study area, so no impacts from the proposed project are anticipated.

Scenic Highways—There are no scenic highways in or around the study area, so no impacts from the proposed project are anticipated.

Wild and Scenic Rivers—There are no Wild and Scenic Rivers in the study area, so no impacts from the proposed project are anticipated.

ANTICIPATED PERMITS

The proposed project has the potential to impact wetlands, which would necessitate a SJRWMD and SFWMD or FDEP Environmental Resource Permit as well as a Section 404 permit from the US Army Corps of Engineers. Coordination with FDEP for permitting jurisdiction may be necessary. A dewatering permit from the SJRWMD and SFWMD may also be necessary and a National Pollutant Discharge Elimination System (NPDES) permit from FDEP is anticipated. Federal Consistency Reviews will be conducted during the permit phase, as applicable. Mitigation is anticipated for unavoidable impacts to wetlands and wood stork suitable foraging habitat. Permitting for impacts to gopher tortoise through the Florida Fish and Wildlife Conservation Commission (FWC) is also anticipated.

ANTICIPATED TECHNICAL STUDIES

A Natural Resources Evaluation Report, a Cultural Resource Assessment Survey, a Noise Study Report, and a Contamination Screening Evaluation Report are anticipated and will be summarized in a Project Environmental Impact Report.

TRANSMITTAL LIST

The AN will be distributed throughout the State of Florida system by the Florida State Clearinghouse, an office within the Florida Department of Environmental Protection that acts as the state’s single point of contact for review of transportation projects. Accordingly, the transmittal list below includes the Florida State Clearinghouse as the only state entity to receive this AN.

| Name | Agency |
|--|--|
| Chris Stahl, Florida State Clearinghouse | Florida Department of Environmental Protection |
| Bart Vernace | Federal Aviation Administration |
| Richelle Gosman | Federal Transit Administration |
| Stan Mitchell | Federal Transit Administration |
| Andrew Kizlauskas | US Army Corps of Engineers |
| Lisa Lovvorn | US Army Corps of Engineers |
| Randy Turner | US Army Corps of Engineers |
| Randall Overton | US Coast Guard |
| Kim Gates | US Environmental Protection Agency |
| Ntale Kajumba | US Environmental Protection Agency |
| Alya Singh-White | US Environmental Protection Agency |
| Amanetta Somerville | US Environmental Protection Agency |
| Roshanna White | US Environmental Protection Agency |
| Zakia Williams | US Fish and Wildlife Service |
| John Mckenchnie | US Forest Service |
| Steven Schnetzler | US Forest Service |
| Jennifer Schull | National Marine Fisheries Service |
| Leroy Crockett | National Resources Conservation Service |
| Gary Huttman | MetroPlan Orlando |
| Keith Caskey | MetroPlan Orlando |
| Nick Lepp | MetroPlan Orlando |
| Mike Woods | Lake Sumter MPO |
| George Gadiel | Lake County |
| Seth Lynch | Lake County |
| Maria Cahill | Orange County |
| Renzo Nastasi | Orange County |
| Alberto Vargas | Orange County |
| Annette Burkett | SFWMD |
| Mindy Parrott | SFWMD |
| Ken Lewis | SJRWMD |
| Lee Kissick | SJRWMD |
| Mark von Canal | SJRWMD |

| Name | Agency |
|---|--|
| Barbara Hatchitt | SJRWMD |
| Mr. Billie Cyprus | Miccosukee Tribe of Indians of Florida |
| Mr. Fred Dayhoff | Miccosukee Tribe of Indians of Florida |
| Mr. James Floyd | Muscogee (Creek) Nation |
| Historic and Cultural Preservation Department | Muscogee (Creek) Nation |
| Stephanie A. Bryan | Poarch Band of Creek Indians |
| Carolyn White | Poarch Band of Creek Indians |
| Victoria Menchaca | Seminole Tribe of Florida |
| Paul N. Backhouse, Ph.D. | Seminole Tribe of Florida |
| Alison Swing | Seminole Tribe of Florida |
| Marcellus Osceola | Seminole Tribe of Florida |
| Mr. Leonard M. Harjo | Seminole Nation of Oklahoma |
| Jason Watts | FDOT Native American Coordinator |

Appendix B: Agency Comments to Advance Notification

U.S. Environmental Protection Agency | Region IV

From: White, Roshanna <White.Roshanna@epa.gov>

Sent: Wednesday, August 1, 2018 10:44 AM

To: William Sloup <william.sloup@metriceng.com>

Cc: Militscher, Chris <Militscher.Chris@epa.gov>; Buskey, Traci P. <Buskey.Traci@epa.gov>; Kajumba, Ntale <Kajumba.Ntale@epa.gov>

Subject: RE: EPA Comments for AN Package - Feasibility/Project Development & Environment Study for the Lake/Orange County Connector (US 27 to SR 429)

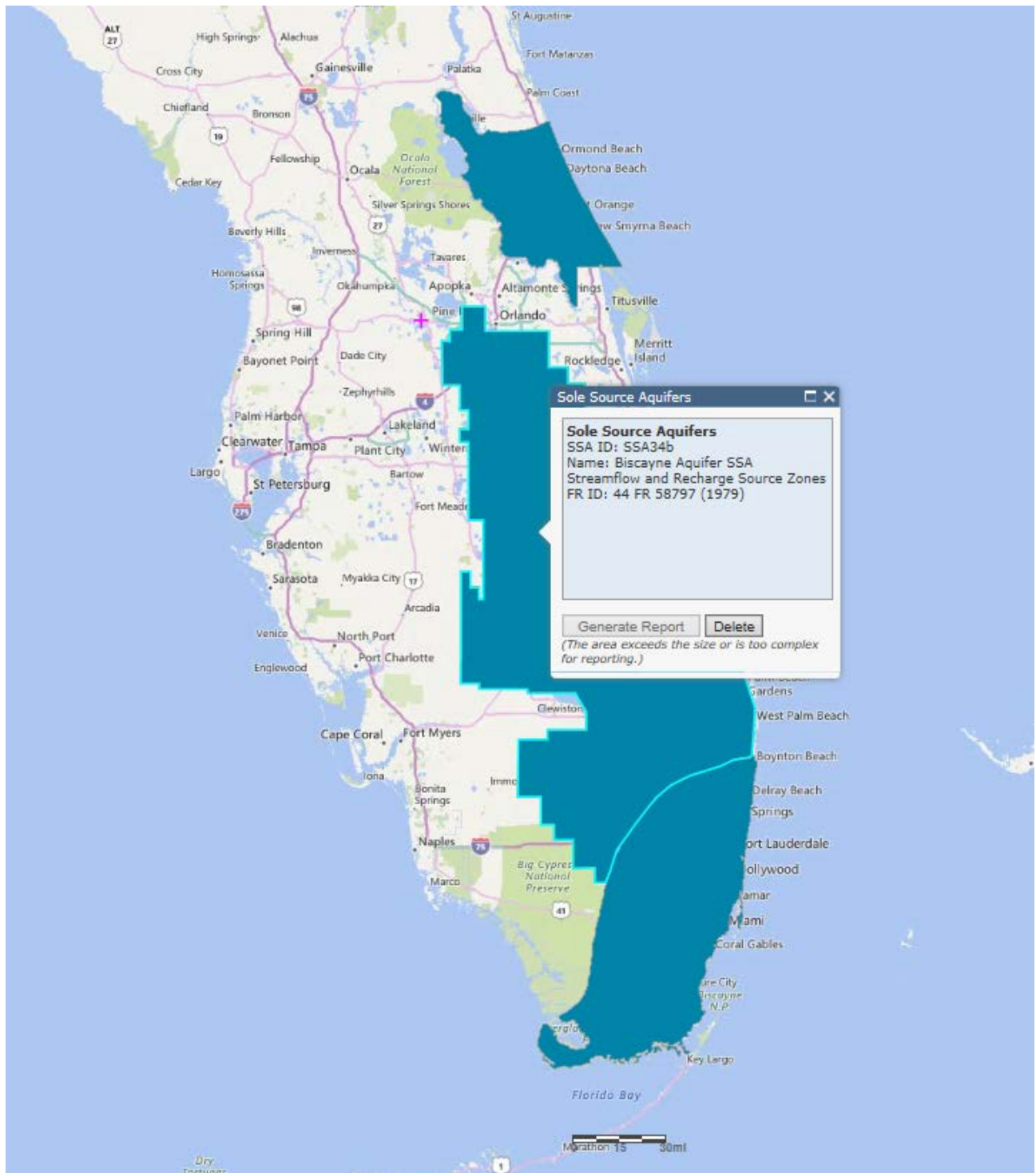
Dear Mr. Sloup:

The eastern study area of the project lies partially within the Biscayne Aquifer boundaries (NEPAssist <https://www.epa.gov/nepa/nepassist>). The Biscayne Aquifer is a sole source aquifer and is considered a principal water source for South Florida residents, visitors, and businesses. The aquifer is highly permeable and vulnerable to contamination. The EPA recommends adherence to all federal, state, and local government permits, ordinances, planning designs, construction codes, operation and maintenance requirements, and engineering for avoidance, minimization, and protection of the water source. Additionally, we recommend that avoidance and minimization of any identified jurisdictional waters of the U.S. be avoided during the development of alternatives to the extent practicable. During construction, please consider the vulnerability of the sole source aquifer and protect the drinking water delivered from this source. Also, follow all best management activities for erosion and sedimentation control.

The project is a non-federal action. Therefore, concurrence from the EPA is not required according to the Safe Drinking Water Act. Please contact state and county environmental offices to address proper drainage and storm water design. If federal financial assistance does become a source of funding for this project, please contact Region 4, Ground Water and UIC Section, Mr. Khurram Rafi (rafi.khurram@epa.gov) or Larry Cole (cole.larry@epa.gov) for an aquifer impact determination letter.

Sincerely,

Roshanna White | Life Scientist | NEPA Program Office
U.S. Environmental Protection Agency | Region IV
61 Forsyth Street SW | Atlanta, GA 30303
Voice: 404-562-9035 | Email: white.roshanna@epa.gov



Seminole Tribe of Florida

From: Victoria Menchaca <VictoriaMenchaca@semtribe.com>

Sent: Friday, July 20, 2018 3:08 PM

To: William Sloup <william.sloup@metriceng.com>

Subject: Central FL Expressway Authority Advance Notification Lake/Orange County Connector US27-SR429

SEMINOLE TRIBE OF FLORIDA TRIBAL HISTORIC PRESERVATION OFFICE AH-TAH-THI-KI MUSEUM

TRIBAL HISTORIC
PRESERVATION OFFICE
SEMINOLE TRIBE OF FLORIDA
AH-TAH-THI-KI MUSEUM
30290 JOSIE BILLIE HIGHWAY
PMB 1004
CLEWISTON, FL 33440
THPO PHONE: (863) 983-6549
MUSEUM PHONE: (863) 902-1113
FAX: (863) 902-1117
THPO WEBSITE: WWW.STOFTHPO.COM
MUSEUM WEBSITE: WWW.AHTAHTHIKI.COM



TRIBAL OFFICERS

MARCELLUS W. OSCEOLA JR.
CHAIRMAN

MITCHELL CYPRESS
VICE CHAIRMAN

LAVONNE ROSE
SECRETARY

PETER A. HAHN
TREASURER

July 20, 2018

William Sloup, P.E.
Metric Engineering
615 Crescent Executive Court, Ste 524
Lake Mary, FL 32746
Phone: 407-644-1898 x1114
Email: William.Sloup@metriceng.com

Subject: Central FL Expressway Authority Advance Notification Lake/Orange County Connector US27- SR429
THPO #: 0031014

Dear Mr. Sloup,

Thank you for contacting the Seminole Tribe of Florida – Tribal Historic Preservation Office (STOF-THPO) regarding the Central FL Expressway Authority Advance Notification Lake/Orange County Connector US27- SR429. The proposed undertaking does fall within in the STOF Area of Interest. We have reviewed the documents provided and would like to provide the following feedback. We would respectfully like to request that once specific alternative corridors are chosen that a Cultural Resources Assessment Survey be conducted and sent to us so that we may complete our review.

Thank you and feel free to contact us with any further questions.

Respectfully,

A handwritten signature in black ink on a light gray background. The signature reads "Victoria Menchaca" in a cursive, flowing script.

Victoria L. Menchaca, MA, Compliance Review Specialist
STOF-THPO, Compliance Review Section
30290 Josie Billie Hwy, PMB 1004
Clewiston, FL 33440
Office: 863-983-6549 ext 12216
Email: victoriamentchaca@semtibe.com
Web: www.stofthpo.com

Natural Resources Conservation Service

From: Crockett, Leroy - NRCS, Quincy, FL <Leroy.Crockett@fl.usda.gov>

Sent: Thursday, July 19, 2018 12:55 PM

To: William Sloup <william.sloup@metriceng.com>

Subject: RE: AN Package - Feasibility/Project Development & Environment Study for the Lake/Orange County Connector (US 27 to SR 429)

Just going through emails and following up.

If you need a Farmland Protection Evaluation for this project please send request form and shp files.

Sincerely

LeRoy Crockett
Resource Soil Scientist

Perry Paige Bld suite 305N
1740 S MLK Blvd
Tallahassee, FL 32307
Of: (850) 412-7809
Mb: (352) 262-0192



[Watch](#) the "Mighty Mini Microbe" trailer.

US Forest Service

From: Mckechnie, John - FS <jmckechnie@fs.fed.us>

Sent: Tuesday, June 26, 2018 7:37 AM

To: William Sloup <william.sloup@metriceng.com>

Subject: RE: AN Package - Feasibility/Project Development & Environment Study for the Lake/Orange County Connector (US 27 to SR 429)

Mr. Sloup,

The National Forests in Florida has no comments. The proposed study does not affect any US Forest Service holdings.

Thank you



John McKechnie
Forest Engineer
Forest Service
National Forests In Florida

p: 850-523-8522

c: 850-274-0470

f: 850-523-8505

jmckechnie@fs.fed.us

325 John Knox Rd
Tallahassee, FL 32303

www.fs.fed.us



Caring for the land and serving people

Federal Aviation Administration

From: Bart.Vernace@FAA.GOV

Date: 8/2/18 3:51 PM (GMT-05:00)

To: William Sloup <william.sloup@metriceng.com>

Subject: RE: AN Package - Feasibility/Project Development & Environment Study for the Lake/Orange County Connector (US 27 to SR 429)

Mr. Sloup:

Please note that federal requirements that pertain to notifying the FAA of proposed construction and alteration on or nearby a public-use airport should be in accordance with [FAR Part 77 Regulation](#). Any tall permanent structure or temporary equipment near an airport must conform to this regulation.

[Here are the instructions for submitting a FAA 7460-1 form, Notice of Proposed Construction or Alteration \(Off-Airport\) via OE/AAA:](#)

A 7460-1, Notice of Proposed Construction or Alteration can be submitted to FAA by utilizing the link below to access our Obstruction Evaluation Airport Airspace Analysis (OE/AAA) program.

<https://oeaaa.faa.gov/oeaaa/external/portal.jsp>

You may use the "Notice Criteria Tool" to see if you are required to submit a 7460-1, Notice of Proposed Construction or Alteration to FAA. The "Notice Criteria Tool" is located on the left hand side of our main web page, but is also accessible by clicking the following link:

<https://oeaaa.faa.gov/oeaaa/external/gisTools/gisAction.jsp?action=showNoNoticeRequiredToolForm>

If you need to submit a 7460, you will have to register online and log in to the web based tool. Once on the main portal page, enter your contact information and then select "off airport proposal" option. Fill in the blanks and submit to FAA for review and approval.

Here is the "New User Registration" link:

<https://oeaaa.faa.gov/oeaaa/external/userMgmt/permissionAction.jsp?action=showRegistrationForm>

For any other information pertaining to off-airport airspace evaluations, please contact Mike Blach, FAA Southern Region Off-Airport Airspace Specialist at 404-305-7081.

Bart Vernace, P.E.

Manager

FAA/Orlando Airports District Office

8427 SouthPark Circle, Suite 524

Orlando, FL 32819

(407) 487-7220 (Main), (407) 487-7223 (Direct)

(407) 487-7135 (FAX)

Bart.vernace@faa.gov



FLORIDA DEPARTMENT *of* STATE

RICK SCOTT
Governor

KEN DETZNER
Secretary of State

Mr. Chris Stahl
Florida Department of Environmental Protection
Florida State Clearinghouse
2600 Blair Stone Road, MS 47
Tallahassee, FL 32399-2400

July 10, 2018

RE: DHR Project File No.: 2018-3297/Received by DHR: June 22, 2018
Project: *FHWA grant: Lake/Orange County Connector Study (US 27 to SR 429) Feasibility Study*
SAI#: FL201806228337
Counties: Orange, Lake

Dear Mr. Stahl:

Our office reviewed the referenced project in accordance with Chapters 267.061 and 373.414, *Florida Statutes*, and implementing state regulations, for possible effects on historic properties listed, or eligible for listing, in the *National Register of Historic Places (NRHP)*, or otherwise of historical, architectural or archaeological value. This letter does not constitute a review under Section 106 of the *National Historic Preservation Act*.

The Central Florida Expressway Authority has been granted funds from the Federal Highway Administration (FHWA) to study a new Lake/Orange County Connector. Based on the nature of the project (new roadway) and the environmental conditions in the project area, we request that the project area be subjected to a professional cultural resources assessment survey. The resultant survey report should conform to the provisions of Chapter 1A-46, *Florida Administrative Code*, and should be forwarded to FHWA and our office upon completion. The report will help us complete the Section 106 review process and provide concurrence on federal findings of effect, and recommend any necessary avoidance or mitigation measures.

The Division of Historical Resources cannot endorse specific archaeological or historic preservation consultants. However, the American Cultural Resources Association maintains a listing of professional consultants at www.acra-crm.org, and the Register of Professional Archaeologists maintains a membership directory at www.rpanet.org. The Division encourages checking references and recent work history.

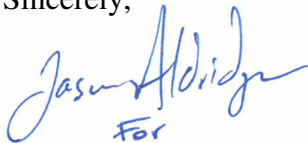
Division of Historical Resources
R.A. Gray Building • 500 South Bronough Street • Tallahassee, Florida 32399
850.245.6300 • 850.245.6436 (Fax) • FLHeritage.com



Mr. Chris Stahl
DHR Project No. 2018-3297
July 10, 2018
Page 2

If you have any questions, please contact Ginny Jones, Transportation Compliance & Review Architectural Historian, by email ginny.jones@dos.myflorida.com, or by telephone at 850.245.6333 or 800.847.7278.

Sincerely,

A handwritten signature in blue ink that reads "Jason Aldridge" with the word "For" written below it.

Timothy A. Parsons, Ph.D.
Director, Division of Historical Resources
and State Historic Preservation Officer

ENVIRONMENTAL ADVISORY GROUP MEETING #1

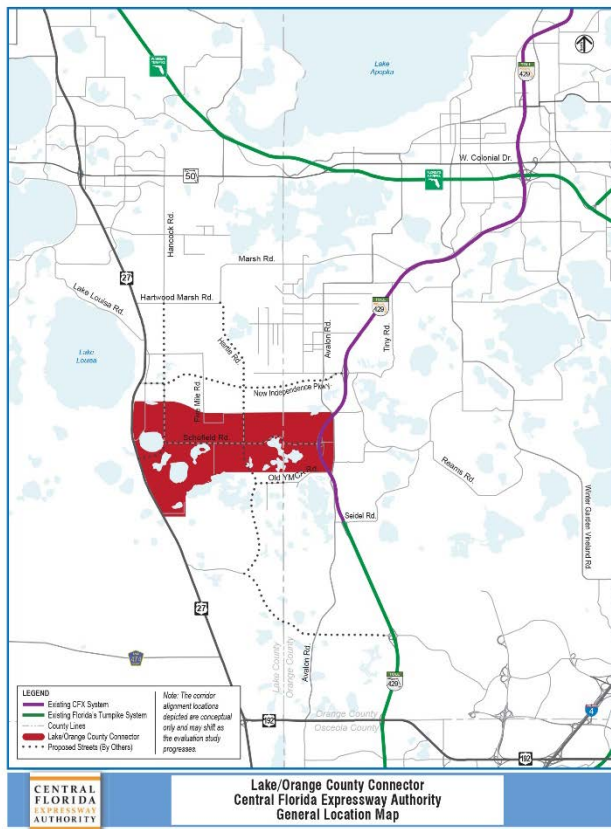


LAKE / ORANGE COUNTY CONNECTOR (US 27 TO SR 429) ENVIRONMENTAL ADVISORY GROUP (EAG) MEETING #1 SUMMARY

Date/Time: Monday, July 30, 2018; 1:30 p.m. – 3:00 p.m.

Location: Central Florida Expressway Authority (CFX), 4974 ORL Tower Road, Orlando, FL 32807, Board Room

Attendees: Ten EAG members and eight staff members attended. Six EAG members participated via GoToMeeting. See sign-in sheets attached.



I. Notifications

Invitation letters were emailed to 61 members of the EAG on July 9, 2018.

II. Welcome

Nicole Gough of Dewberry, CFX's General Engineering Consultant (GEC), called the meeting to order at 1:34 p.m. and welcomed everyone. She gave a brief introduction about the meeting and provided safety, housekeeping and Title VI information. She also mentioned that the meeting was being recorded and there were members participating via GoToMeeting. Attendees introduced themselves and the organizations they represented.

III. Presentation

Will Sloup, Consultant Project Manager with Metric Engineering, presented the following information:

- **Study Objective**

The Lake/Orange County Connector PD&E study will determine if a limited access facility between US 27 in south Lake County and SR 429 in west Orange County is viable and fundable in accordance with CFX policies and procedures. New interchanges are proposed at US 27 and the future extension of CR 455 in Lake County. The existing Schofield Road interchange with SR 429 in Orange County will remain but be modified to accommodate free-flow traffic movements between SR 429 and the proposed Lake/Orange County Connector.



- **Study Area**

At the present time, the study area is generally undeveloped. The study area lies within Lake County and Orange County and the limits are generally described as: Porter Road on the north; SR 429 on the east; Old YMCA Road on the south; and US 27 on the west. (Presented on the slide was a map of the study area which was also available in the room as a 40" x 64" display board.)

- **Future Land Use**

The study area falls within the Wellness Way Area Plan and the Horizon West Special Planning Area.

The Wellness Way Area Plan has been recognized for many years as an area that has significant potential for economic development in southeast Lake County. It's comprised of approximately 15,471 acres in southeast Lake County. The anticipated build out of 16,531 units will generate over 26,839 jobs.

Horizon West is a fast-growing, master-planned community in southwest Orange County. This is highlighted by the fact that Horizon West’s share of all approved single-family building permits within Orange County has steadily increased since 2002 and comprised more than 50% of issued permits in 2015. The study area falls within the Town Center and Village H (Hickory Nut) of Horizon West. The Town Center will be a regional employment center with a projected employment force of over 27,000.

- **Project Needs**

The need for a transportation project arises from deficiencies, issues or concerns that currently exist or are expected to occur within the study area. In short, the need establishes the rationale for pursuing a project. There are six project needs that serve as justification for the proposed Lake / Orange County Connector:

1. Improve connections between area roads.
2. Accommodate future transportation demand.
3. Provide consistency with local and regional plans.
4. Support economic viability and job creation.
5. Support intermodal opportunities.
6. Enhance evacuation and emergency services.

- **CFX Project Development Process**

CFX follows a project development and environment, or PD&E, process for new alignment expansion projects. At the conclusion of the PD&E study one of two things can occur - the proposed project can either move forward into the final design phase or be placed on hold to be revisited in the future.

- **Current Phase – PD&E Study**

Simply stated, the PD&E Study will determine if there is an engineering and environmentally feasible alternative to meet the project needs. Using the results of previous studies as a foundation, a feasible corridor for the proposed toll road will be identified. Several alignments within the corridor will then be developed and evaluated to identify a preferred alternative. The PD&E study and Final Design phases are funded in CFX’s Five-Year Work Plan. Design funds are indicated as placeholder in fiscal years 2021/22 and 2022/23 until the CFX Governing Board approves the results of this PD&E Study.

- **Project History – Identify Project**

The Lake / Orange County Connector is identified in the 2040 Master Plan and was also identified in previous Master Plans (2025, 2030 and 2035) as the “Wellness Way Corridor”. It is also identified in Lake County and Orange County Long Range Transportation Plans.

- **Project History – Feasibility Study**

In 2002, CFX studied the feasibility of a limited access toll road to connect US 27 on the west with Florida’s Turnpike and the then newly constructed SR 429. Based on the concepts that

were developed, the study concluded that only the Southern Corridor offered any long-term opportunity for CFX participation. The Southern Corridor was in the general area of Schofield Road.

Again in 2007, CFX studied the feasibility and viability of a potential US 27 to SR 429 expressway connection within an area south of Hartwood Marsh Road and north of US 192. The study identified Corridors A, C and D as the three overall viable corridors. In the end Corridor C, which paralleled Schofield Road, was not recommended due to potential impacts to the planned Horizon West Town Center at the eastern terminus.

In 2017, CFX completed a preliminary traffic and revenue analysis of three alignments. The “Southern Alignment”, located in the general area of Schofield Road, was found to provide the greatest potential for revenue generation and a recommendation was made to move forward with a Feasibility/PD&E Study.

- **Schedule**

The study began in May 2018 with a 15-month schedule. In August we will be finalizing corridor analysis, the analysis that will help identify the most feasible corridors. We will then proceed to alternatives analysis which will help identify a preferred alternative. Three PAG/EAG meetings will be held throughout the course of the study. Today we are discussing corridors, the next time we meet will discuss several alternative alignments, and the final time we meet we will focus on the preferred alternative.

- **Corridor Analysis – Social Constraints Map**

We have separated the study area into three segments and have developed several 800’ wide corridors. This resulted in a total of 16 corridor segments that we are able to evaluate in different combinations to create a direct link between US 27 and SR 429. These corridors were then mapped against known constraints. (Presented on the slide was the Social Constraints Map which was also available in the room as a 40” x 64” display board.)

- **Corridor Analysis – Environmental Constraints Map**

(Presented on the slide was the Environmental Constraints Map which was also available in the room as a 40” x 64” display board.)



- **Corridor Analysis - Evaluation Criteria**

The corridors will be evaluated to determine how well the six project needs are satisfied. The corridors will also be evaluated based on engineering, environmental and socio-economic criteria that were tailored to fit the characteristics of the study area. Evaluation matrices will be developed, based on these criteria, to facilitate the comparison of corridors.

IV. Presentation, continued

To conclude the presentation Kathy Putnam, CFX's Public Involvement Coordinator, presented the following information:

- **Corridor Analysis - Public Involvement**

Public involvement is critical throughout the study process. Multiple opportunities to provide input are being provided. Comments received during corridor analysis will be used to refine the project needs, corridor constraints and evaluation criteria. The results of the corridor analysis will be summarized in an Alternatives Corridor Evaluation Report which will be made available for public review.



- **Next Steps**

We will continue to solicit public input on the corridor alternatives with a Public Informational Meeting scheduled to occur on August 30th from 5:30 pm to 7:30 pm at the Clermont Arts & Recreation Center in Clermont. The meeting will be held in an open house format. After this meeting the corridor analysis will be finalized and the study team will begin alternatives analysis. Following today's meeting the PowerPoint presentation, meeting summary and meeting materials will be posted to the study website and Facebook page. The presentation will also be emailed to the PAG & EAG members.

V. Questions & Discussion

Nicole Gough invited questions and discussion on the presentation and/or project study.

- **Lex Veech, property owner:** Asked for clarification on the 2007 study...was corridor C removed from consideration? It was out and now it's back in? **Jazlyn Heywood with Metric Engineering** responded that the study identified three viable corridors, A, C and D. In the end the report did not recommend corridor C due to potential impacts to the planned Horizon West Town Center at the eastern terminus. Yes, this study is once again considering Corridor C. The study team is coordinating with Orange County staff, property owners and developers to minimize and/or avoid impacts to the planned Horizon West Town Center.
- **Beth Jackson, Orange County – Environmental Protection Division:** There are significant environmental constraints, particularly around Schofield: Gopher tortoise, sand skink, several threatened and endangered plant species are present. "Site 6" is utilized for gopher tortoise relocation (for Water Conserv II) – quasi-regulated area mostly to the north. There was a brief discussion regarding utilities and the need to coordinate with Woodward & Curran.

- **Aldin Mathews, Lake Louisa State Park:** What do the colors (for each corridor) represent? Any specific hierarchy? **Will Sloup** with **Metric Engineering** replied that they are just colors to distinguish different segments and corridors. **Aldin Mathews** continued that there should be some consideration to the entrance at the state park (intersection) with many visitors and a number of R/Vs navigating the area, etc.



- **William “Bill” Graf, South Florida Water Management District (SFWMD):** If you meet water management districts rules, you can get a permit. You appear to be within Water Conserv II area. There may be an opportunity for a Water Conserv II partnership. The project will obviously create more impervious area. A partnership could reduce pondage.
- **James Hollingshead, St. Johns River Water Management District (SJRWMD):** I would also ask that you explore other opportunities for stormwater RSD (Regional Sewer District). Any irrigation should be reclaimed or stormwater.
- **Chris Matson, Florida Department of Environmental Protection District 3:** We have done some review of various interchange potentials for section 1 on the map. From an environmental point of view i.e. noise, light: segments 1-5, 1-6 are preferred.
- **Casey Lyons, Florida Department of Transportation District Five (GoToMeeting):** By tying into US 27, traffic could be relocated onto our facility...how much traffic going into our road? I would suggest coordination with FDOT to augment our capacity on US 27. **Will Sloup** added that traffic forecasting is going on now and as soon as it becomes available they will coordinate with FDOT.
- **Cammie Dewey, SJRWMD (GoToMeeting):** These alignments cross over both water management districts. Orange County is SFWMD, Lake County is SJRWMD.

There were no more comments, so Nicole Gough thanked everyone for attending and providing input. The meeting concluded at 2:00 p.m.

END OF SUMMARY

This meeting summary was prepared by Kelly Hiden, Public Involvement Coordinator with The Valerin Group, Inc. It is not verbatim, but is a summary of the meeting activities and overall discussion. If you feel something should be added or revised, please contact Kelly Hiden by email at kelly@valeringroup.com or by telephone 407-508-0839 within five days of receipt of this summary.

EAG members present:

John Classe – Reedy Creek Improvement District
William Graf – South Florida Water Management District (SFWMD)
Mark Griffin – City of Clermont
Ron Hart – Lake County Water Authority
James Hollingshead – St. Johns River Water Management District (SJRWMD)
Beth Jackson – Orange County, Environmental Protection Division
Aldin Mathews – Florida Park Service, Lake Louisa State Park
Chris Matson – Florida Department of Environmental Protection (FDEP), District 3
Brandon Matulka - Lake County, Agency for Economic Prosperity
Lee Pulham – Reedy Creek Improvement District
Lex Veech – property owner

GoToMeeting Attendees:

Casey Lyon – Florida Department of Transportation (FDOT) District Five
Ginny Jones – Florida Division of Historic Resources
Kathy Pagan – Lake County
Richard Mospens – Florida Fish and Wildlife Conservation Commission (FWC)
Cammie Dewey - St. Johns River Water Management District (SJRWMD)
Zakia Williams - US Fish and Wildlife

Staff

Brian Hutchings – CFX
Jonathan Williamson – Dewberry
Merissa Evans – Dewberry
Nicole Gough - Dewberry
Will Sloup – Metric Engineering
Jazlyn Heywood – Metric Engineering
Kathy Putnam – Quest Corporation of America
Kelly Hiden – The Valerin Group

SIGN IN

Lake / Orange County Connector Feasibility / Project Development & Environment (PD&E) Study
ENVIRONMENTAL ADVISORY GROUP - MEETING NO. 1

CFX Project No.: 599-225

CFX Headquarters, 4974 ORL Tower Rd, Orlando, FL 32807

July 30, 2018 1:30 p.m. – 3:30 p.m.

| Name | Organization | Address | City/State/Zip | Email Address | Initials |
|--------------------|--|--|----------------------------|------------------------------------|-----------------------------------|
| Mary Hamilton | Lake County | 315 W. Main Street, #411 | Tavares, FL 32778 | mhamilton@lakecountyfl.gov | |
| Ron Hart | Lake County Water Auth. | 27351 S.R. 19 | Tavares, FL 32778 | rhart@lcwa.org | RH |
| Thomas Hawkins | 1000 Friends of Florida | P. O. Box 5948 | Tallahassee, FL 32314-5984 | friends@1000fof.org | |
| Jason Hight | Florida Fish and Wildlife Conservation Commission | Farris Bryant Building 620 S. Meridian Street | Tallahassee, FL 32399-1600 | jason.hight@myfwc.com | |
| Jeff Holland | Reedy Creek Improvement District (RCID) | P. O. Box 10170 | Lake Buena Vista, FL 32830 | jholland@rcid.org | |
| James Hollingshead | St. Johns River Water Management District | 601 S. Lake Destiny Road Suite 200 | Maitland, FL 32751 | jhollingshead@sjrwmd.com | JH |
| Marjorie Holt | Sierra Club of Florida | Florida Regional Office 1990 Central Avenue | St. Petersburg, FL 33712 | marjorieholt@earthlink.net | |
| Beth Jackson | Orange County - Environmental Protection Division | 800 Mercy Drive, Suite 4 | Orlando, FL 32808 | beth.jackson@ocfl.net | B. Jackson |
| Kacee Johnson | FL Dept of Environmental Protection | 3900 Commonwealth Blvd. | Tallahassee, FL 32399 | kacee.l.johnson@dep.state.fl.us | |
| Ginny Jones | FL Dept of State - Div of Historical Resources | RA Gray Building 500 S. Bronough Street | Tallahassee, FL 32399-0250 | ginny.jones@dos.myflorida.com | Attended by phone & Go to Meeting |
| Wil Kitchings | FL Dept of Agriculture - Florida Forest Service, Orange County | 8431 S Orange Blossom Trail | Orlando, FL 32809 | wil.kitchings@freshfromflorida.com | |
| Charles Lee | Audubon Society - Central Florida | 1101 Audubon Way | Maitland, FL 32751 | chlee2@earthlink.net | |
| Casey Lyon | FDOT - District Five | 719 S. Woodland Blvd. | DeLand, FL 32720 | casey.lyon@dot.state.fl.us | Attended by phone & Go to Meeting |

Handwritten checkmarks in the left margin, corresponding to the rows of the sign-in table.

SIGN IN

Lake / Orange County Connector Feasibility / Project Development & Environment (PD&E) Study
 ENVIRONMENTAL ADVISORY GROUP - MEETING NO. 1
 CFX Project No.: 599-225
 CFX Headquarters, 4974 ORL Tower Rd, Orlando, FL 32807
 July 30, 2018 1:30 p.m. – 3:30 p.m.

| Name | Organization | Address | City/State/Zip | Email Address | Initials |
|----------------------|--|---|-----------------------------|-----------------------------------|----------------------------------|
| Laurie Ann MacDonald | Defenders of Wildlife - Florida | 433 Central Avenue - Ste 200 | St. Petersburg, FL 33701 | laurie.macdonald@defenders.org | |
| David Mahnken | Water Conserv II w/E Sciences | 17498 McKinney Road | Winter Garden, FL 34787 | dmahnken@esciencesinc.com | |
| Patricia Martin | The Nature Conservancy | Florida Field Office 2500 Maitland Center Pkwy. Suite 311 | Maitland, FL 32751 | tricia_martin@tnc.org | |
| Richard Mospens | Florida Fish and Wildlife Conservation Commission | Farris Bryant Building 620 S. Meridian Street | Tallahassee, FL 32399-1600 | richard.mospens@myfwc.com | Attended by phone # 6 to meeting |
| Keith Mousel | FL Dept of Agriculture - Florida Forest Service, Lake County | Withlacoochee Forestry Center 15019 Broad Street | Brooksville, FL 34601 | keith.mousel@freshfromflorida.com | |
| Reinier Munguia | Audubon Society - Lake Region | 115 Lameraux Road | Winter Haven, FL 33884 | president@lakeregionaudubon.org | |
| Bill Parkins | Ridge Rangers | 1630 Royce Ranch Avenue | Lake Placid, FL 33852 | ridgerangers@myfwc.com | |
| Timothy Parsons | FL Dept of State - Div of Historical Resources | RA Gray Building 500 S. Bronough Street | Tallahassee, FL 32399-0250 | timothy.parsons@dos.myflorida.com | |
| Andrew Philips | US Army Corps of Engineers, Jacksonville District | Jacksonville District P. O. Box 4970 | Jacksonville, FL 32232-0019 | andrew.w.philips@usace.army.mil | |
| John Puhek | Sierra Club of Florida | Florida Regional Office 1990 Central Avenue | St. Petersburg, FL 33712 | flsquirrel@aol.com | |
| Lee Pulham | Reedy Creek Improvement District (RCID) | P. O. Box 10170 | Lake Buena Vista, FL 32830 | lpulham@rcid.org | LP |
| Linda Reeves | FL Dept of Environmental Protection | 3900 Commonwealth Blvd. | Tallahassee, FL 32399 | linda.reeves@dep.state.fl.us | |
| Jennifer Rubiello | Environment Florida | 3110 1st Avenue, Ste 2000 | Orlando, FL 32809 | | |

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SIGN IN

Lake / Orange County Connector Feasibility / Project Development & Environment (PD&E) Study
ENVIRONMENTAL ADVISORY GROUP - MEETING NO. 1

CFX Project No.: 599-225

CFX Headquarters, 4974 ORL Tower Rd, Orlando, FL 32807

July 30, 2018 1:30 p.m. – 3:30 p.m.

| Name | Organization | Address | City/State/Zip | Email Address | Initials |
|---|---|--|-----------------------------|---------------------------------------|------------------------------------|
| Scott Sanders | Florida Fish and Wildlife Conservation Commission | Farris Bryant Building 620 S. Meridian Street | Tallahassee, FL 32399-1600 | scott.sanders@myfwc.com | |
| Tom Shupe | Florida Fish and Wildlife Conservation Commission | Farris Bryant Building 620 S. Meridian Street | Tallahassee, FL 32399-1600 | tom.shupe@myfwc.com | |
| Scott Spaulding | Friends of Lake Louisa State Park | 7305 U.S. Hwy. 27 | Clermont, FL 34714 | scott.spaulding@dep.state.fl.us | |
| Alex Stigliano | Florida Trail Association | 5415 SW 13th Street | Gainesville, FL 32608 | alex@floridatrail.org | |
| Joseph Sullivan | Florida Highway Administration (FHWA) - FL | 400 W. Washington Street - Suite 4200 | Orlando, FL 32801 | Joseph.Sullivan@dot.gov | |
| Neal Thomas | Orange County Environmental Protection Division | 800 Mercy Drive, Suite 4 | Orlando, FL 32808 | neal.thomas@ocfl.net | |
| David Turner | Florida Fish and Wildlife Conservation Commission | Farris Bryant Building 620 S. Meridian Street | Tallahassee, FL 32399-1600 | david.turner@myfwc.com | |
| Randy Turner | US Army Corps of Engineers, Jacksonville District | Jacksonville District P. O. Box 4970 | Jacksonville, FL 32232-0019 | randy.l.turner@usace.army.mil | |
| Bill Walsh | FDOT District Five | 719 S. Woodland Blvd. | DeLand, FL 32720 | william.walsh@dot.state.fl.us | |
| J. Dennis Westrick Mark Griffin | City of Clermont | 685 W. Montrose Street | Clermont, FL 34711 | jwestrick@clermontfl.org M Griffin | MG |
| Zakia Williams | US Fish and Wildlife Service (USFWS) | North Florida Ecological Services Field Office 7915 Baymeadows Way, Suite 200 | Jacksonville, FL 32256-7517 | zakia_williams@fws.gov | Attended by phone Go to Meeting |

STAFF SIGN IN SHEET



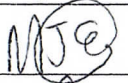



Lake / Orange County Connector Feasibility / Project Development & Environment (PD&E) Study

ENVIRONMENTAL ADVISORY GROUP - MEETING NO. 1

CFX Project No.: 599-225

CFX Headquarters, 4974 ORL Tower Rd, Orlando, FL 32807

July 30, 2018 1:30 p.m. – 3:30 p.m.

| Name | Organization | Email Address | Initials |
|---------------------|--------------------------------------|-------------------------------|---|
| Joseph Berenis | Central Florida Expressway Authority | Joseph.Berenis@CFXWay.com | |
| Will Hawthorne | Central Florida Expressway Authority | William.Hawthorne@CFXWay.com | |
| Brian Hutchings | Central Florida Expressway Authority | Brian.Hutchings@CFXWay.com |  |
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| Will Sloup | Metric Engineering | William.Sloup@metriceng.com | |
| Rob Myers | Metric Engineering | Rob.Myers@metriceng.com |  |
| Gabriela Garcia | Metric Engineering | Gabriela.Garcia@metriceng.com | |
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| Carleen Flynn | CDMSmith | flynncm@cdmsmith.com | |

STAFF SIGN IN SHEET

Lake / Orange County Connector Feasibility / Project Development & Environment (PD&E) Study
 ENVIRONMENTAL ADVISORY GROUP - MEETING NO. 1
 CFX Project No.: 599-225
 CFX Headquarters, 4974 ORL Tower Rd, Orlando, FL 32807
 July 30, 2018 1:30 p.m. – 3:30 p.m.

| Name | Organization | Email Address | Initials |
|----------------|------------------------------|-------------------------|----------|
| Kevin Plenzler | Fishkind & Associates | kevinp@fishkind.com | |
| Kathy Putnam | Quest Corporation of America | Kathy.Putnam@qcausa.com | KP |
| Kelly Hiden | The Valerin Group, Inc. | Kelly@valerin-group.com | KH |
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PROJECT ADVISORY GROUP MEETING #1

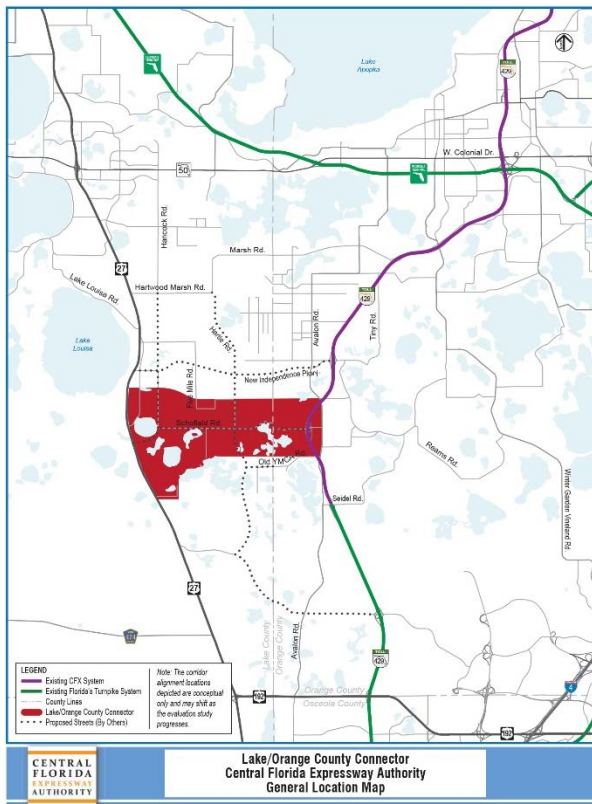


LAKE / ORANGE COUNTY CONNECTOR (US 27 TO SR 429) PROJECT ADVISORY GROUP (PAG) MEETING #1 SUMMARY

Date/Time: Monday, July 30, 2018; 9:30 a.m. – 11:00 a.m.

Location: Central Florida Expressway Authority (CFX), 4974 ORL Tower Road, Orlando, FL 32807, Boardroom

Attendees: Thirty-four PAG members and ten staff members attended. Two PAG members participated via GoToMeeting. See sign-in sheets attached.



I. Notifications

Invitation letters were emailed to 61 members of the PAG on July 9, 2018.

II. Welcome

Kathy Putnam, CFX's Public Involvement Coordinator, called the meeting to order at 9:34 a.m. and welcomed everyone. She gave a brief introduction about the meeting and provided safety, housekeeping and Title VI information. She also mentioned that the meeting was being recorded and there were members participating via GoToMeeting. Attendees introduced themselves and the organizations they represented.

III. Presentation

Will Sloup, Consultant Project Manager with Metric Engineering, presented the following information, including:

- **Study Objective**

The Lake / Orange County Connector PD&E study will determine if a limited access facility between US 27 in south Lake County and SR 429 in west Orange County is viable and fundable in accordance with CFX policies and procedures. New interchanges are proposed at US 27 and the future extension of CR 455 in Lake County. The existing Schofield Road interchange with SR 429 in Orange County will remain but be modified to accommodate free-flow traffic movements between SR 429 and the proposed Lake / Orange County Connector.



- **Study Area**

At the present time, the study area is generally undeveloped. The study area lies within Lake County and Orange County and the limits are generally described as: Porter Road on the north; SR 429 on the east; Old YMCA Road on the south; and US 27 on the west. (Presented on the slide was a map of the study area which was also available in the room as a 40" x 64" display board.)

- **Future Land Use**

The study area falls within the Wellness Way Area Plan and the Horizon West Special Planning Area.

The Wellness Way Area Plan has been recognized for many years as an area that has significant potential for economic development in southeast Lake County. It's comprised of approximately 15,471 acres in southeast Lake County. The anticipated build out of 16,531 units will generate over 26,839 jobs.

Horizon West is a fast-growing, master-planned community in southwest Orange County. This is highlighted by the fact that Horizon West's share of all approved single-family building permits within Orange County has steadily increased since 2002 and comprised more than 50% of issued

permits in 2015. The study area falls within the Town Center and Village H (Hickory Nut) of Horizon West. The Town Center will be a regional employment center with a projected employment force of over 27,000.

- **Project Needs**

The need for a transportation project arises from deficiencies, issues or concerns that currently exist or are expected to occur within the study area. In short, the need establishes the rationale for pursuing a project. There are six project needs that serve as justification for the proposed Lake / Orange County Connector:

1. Improve connections between area roads.
2. Accommodate future transportation demand.
3. Provide consistency with local and regional plans.
4. Support economic viability and job creation.
5. Support intermodal opportunities.
6. Enhance evacuation and emergency services.

- **CFX Project Development Process**

CFX follows a project development and environment, or PD&E, process for new alignment expansion projects. At the conclusion of the PD&E study one of two things can occur - the proposed project can either move forward into the final design phase or be placed on hold to be revisited in the future.

- **Current Phase – PD&E Study**

Simply stated, the PD&E Study will determine if there is an engineering and environmentally feasible alternative to meet the project needs. Using the results of previous studies as a foundation, a feasible corridor for the proposed toll road will be identified. Several alignments within the corridor will then be developed and evaluated to identify a preferred alternative. The PD&E study and Final Design phases are funded in CFX’s Five-Year Work Plan. Design funds are indicated as placeholder in fiscal years 2021/22 and 2022/23 until the CFX Governing Board approves the results of this PD&E Study.

- **Project History – Identify Project**

The Lake / Orange County Connector is identified in the 2040 Master Plan and was also identified in previous Master Plans (2025, 2030 and 2035) as the “Wellness Way Corridor”. It is also identified in Lake County and Orange County Long Range Transportation Plans.

- **Project History – Feasibility Study**

In 2002 CFX studied the feasibility of a limited access toll road to connect US 27 on the west with Florida’s Turnpike and the then newly constructed SR 429. Based on the concepts that were developed, the study concluded that only the Southern Corridor offered any long-term opportunity for CFX participation. The Southern Corridor was in the general area of Schofield Road.

Again in 2007, CFX studied the feasibility and viability of a potential US 27 to SR 429 expressway connection within an area south of Hartwood Marsh Road and north of US 192. The study identified Corridors A, C and D as the three overall viable corridors. In the end Corridor C, which paralleled Schofield Road, was not recommended due to potential impacts to the planned Horizon West Town Center at the eastern terminus.

In 2017, CFX completed a preliminary traffic and revenue analysis of three alignments. The “Southern Alignment”, located in the general area of Schofield Road, was found to provide the greatest potential for revenue generation and a recommendation was made to move forward with a Feasibility/PD&E Study.

- **Schedule**

The study began in May 2018 with a 15-month schedule. In August we will be finalizing corridor analysis, the analysis that will help identify the most feasible corridors. We will then proceed to alternatives analysis which will help identify a preferred alternative. Three PAG/EAG meetings will be held throughout the course of the study. Today we are discussing corridors, the next time we meet will discuss several alternative alignments, and the final time we meet we will focus on the preferred alternative.

- **Corridor Analysis – Social Constraints Map**

We have separated the study area into three segments and have developed several 800’ wide corridors. This resulted in a total of 16 corridor segments that we are able to evaluate in different combinations to create a direct link between US 27 and SR 429. These corridors were then mapped against known constraints. (Presented on the slide was the Social Constraints Map which was also available in the room as a 40” x 64” display board.)

- **Corridor Analysis – Environmental Constraints Map**

(Presented on the slide was the Environmental Constraints Map which was also available in the room as a 40” x 64” display board.)



- **Corridor Analysis - Evaluation Criteria**

The corridors will be evaluated to determine how well the six project needs are satisfied. The corridors will also be evaluated based on engineering, environmental and socio-economic criteria that were tailored to fit the characteristics of the study area. Evaluation matrices will be developed, based on these criteria, to facilitate the comparison of corridors.

- **Corridor Analysis - Public Involvement**

Public involvement is critical throughout the study process. Multiple opportunities to provide input are being provided. Comments received during corridor analysis will be used to refine the project needs, corridor constraints and evaluation criteria. The results of the corridor analysis will be summarized in an Alternatives Corridor Evaluation Report which will be made available for public review.

- **Next Steps**

We will continue to solicit public input on the corridor alternatives with a Public Informational Meeting scheduled to occur on August 30th from 5:30 pm to 7:30 pm at the Clermont Arts & Recreation Center in Clermont. The meeting will be held in an open house format. After this meeting the corridor analysis will be finalized, and the study team will begin alternatives analysis. Following today's meeting the PowerPoint presentation, meeting summary and meeting materials will be posted to the study website and Facebook page. The presentation will also be emailed to the PAG & EAG members.

IV. Questions & Discussion

Kathy Putnam invited questions and discussion on the presentation and/or project study.

- **Herb Kahlert, Karl Corporation:** We own 800 acres at the east end of the corridor. Any of the alignments will bisect our property and we are concerned with it being limited access. We previously asked for consideration of non-limited access, local road system. We would like to remain closely informed on the progress of the study.
- **Jim Karr, South Lake Crossing:** We feel that Hancock Road should have access - and CR 455. Only one access point is troubling as a land owner. We feel that there should be more access points along the corridor and there are also some environmental concerns. What is left would severely damage our property. Hancock Road should have access, as it is part of the local roadway network.
- **Ed Williams, City of Winter Garden:** We see a need for everyone that is using SR 535 to SR 429. We like the northern most connection as it will pull more people. Definitely see a need for the road.
- **Renzo Nastasi, Orange County:** Several study corridors go through our Town Center. The potential impacts to property owners currently in various phases of development could be significant. Perhaps there could be a limited access roadway and also a local network.



- **Shannon Schmidt, City of Clermont:** We do have pending development at the north end. I would encourage CFX to coordinate with land owners/developers and am not in favor of a limited access corridor.
- **Kathy Putnam** asked if anyone in attendance could speak to plans for Wellness Way, or connections to Horizon West, or any other plans in the works.
- **Jim Karr:** There is ongoing work on Wellness Way providing access for both Lake and Orange counties. When asked if there was an established time line he replied that they were working on it.

- **Kathy Putnam** then inquired whether anyone from the Chambers of Commerce want to speak to economic viability.
- **Jim Karr** asked what the study team saw as the purpose of this road. **Will Sloup** replied that it was defined as a system expansion and that local governments supported this system expansion. Due to activity with local roadways there was a need to create a system within the local network to provide regional benefit.
- **Renzo Nastasi:** Orange county is in support of an east-west connector whether it is this or another one. Mr. Karr is looking at a potential east/west connection near Independence Way. Further South is Western Way, providing another connection. That's three different corridors, all of which may come to fruition. Mr. Nastasi sees the benefits of a limited access facility but realizes impacts to property owners need to be considered. He would also like to see impacts to Town Center minimized.
- **Stina D'Uva, West Orange Chamber of Commerce:** A toll road was not feasible previously. An organization known as the Southwestern Task Force and the Chamber supported what is now Wellness Way (the most northern corridor) at the time, as traffic relief for SR 50. The Chamber will get together after this meeting to discuss options and what we feel is the best corridor with fewest impacts to the Town Center.
- **Herb Kahlert:** Many of the property owners in the area have owned their land for more than 20 years and rode out the economic downturn in 2007. Lake County has recently adopted a regional plan that was referenced here, about 15,000 acres, which has been formally adopted. We were in a holding status for many years in terms of additional land uses. As we begin to now plan, development requires 1,000 acres or more. They will spend the next five to 10 years trying to get developments in place. Hopefully Lake County and CFX will realize what impacts will mean to those large tracts: bisecting them so that they would no longer meet the 1,000-acre requirement. **Will Sloup** added that the study is six months from being able to narrow down the location and width of the corridor. **Mr. Kahlert** expressed concern over government controlling the development planning.
- **Mike Litvany, Hickory Grove LLC:** Is the idea of a limited access roadway carved in stone? **Will Sloup** responded that the study is described as a (limited access) system expansion, but that the ultimate recommendation will be made at the conclusion of the study. **Litvany** added that there are other ways to fund roadways. You would bisect our properties leaving the balance of the property virtually unusable.
- **David Hill, Southern Hill Farms:** We have a 120-acre farm (the Southern boundary is Schofield Road). We are developing agritourism right where the northern corridor is. We are currently the only viable business in the area, and this roadway will be devastating to us. We vehemently oppose the northern corridors.
- **Shannon Schmidt, City of Clermont:** The northern alignment will be disruptive to development currently in the works.

There were no more comments, so Kathy Putnam thanked everyone for attending and providing input. She mentioned that the next PAG will be in early 2019 and reiterated all methods available for providing comments and questions. The meeting concluded at 10:17 a.m.

END OF SUMMARY

This meeting summary was prepared by Kelly Hiden, Public Involvement Coordinator with The Valerin Group, Inc. It is not verbatim but is a summary of the meeting activities and overall discussion. If you feel something should be added or revised, please contact Kelly Hiden by email at kelly@valeringroup.com or by telephone 407-508-0839 within five days of receipt of this summary.

PAG attendees:

Loren Bender – Valencia College
Julie Bendure – Floribra-Bradshaw
Chris Carmody – Apartment Association of Greater Orlando
Roger Chapin – Mears Transportation
Rex Clonts – Clonts Groves, Inc.
Diane Dethlefs – Orange County (Commissioner’s aide – District 1)
Chris Dougherty – S&ME (Consultant)
Jonathan Droor – Lennar Land Development
Stina D’Uva – West Orange Chamber of Commerce
Mark Griffith – Cra-Mar Groves
Hugh Harling – East Central Florida Regional Planning Council
Jose Hernandez – Orange County Utilities
Lisa Hill – Southern Hill Farms
David Hill – Southern Hill Farm
Rafael Jimenez – CEMEX
Herb Kahlert – Karl Corp.
Jim Karr – South Lake Crossing
Nick Lepp – MetroPlan Orlando
Mike Litvany – Hickory Grove LLC
Richard Levey – Levey Consulting
Mark Massaro – Orange County Public Works
Brandon Matulka - Lake County (Agency for Economic Prosperity)
Tim McClendon – Lake County Planning & Zoning
Renzo Nastasi – Orange County (Community, Environmental and Development Services)
Jimmy Roper – Land owner
Scott Ruland – Water Conserv II
Jenelle Schmidli – Greater Orlando Builders Association
Shannon Schmidt – City of Clermont
Lee Steinhauer – Greater Orlando Builders Association
Marcie Tinsley – Karl Corp.
Keith Trace – Mattamy Homes
Thomas Werner – City of Clermont
Ed Williams – City of Winter Garden
Cuqui Whitehead – City of Clermont

GoToMeeting Attendees:

Kevin Plenzler – CDMSmith
Doug Byrd – Wantman Group

Staff

Joseph Berenis – CFX
Brian Hutchings – CFX

Jonathan Williamson – Dewberry
Merissa Evans – Dewberry
Will Sloup – Metric Engineering
Jazlyn Heywood – Metric Engineering
Carleen Flynn – CDMSmith
Kathy Putnam – Quest Corporation of America
Sheri Croteau – Quest Corporation of America
Kelly Hiden – The Valerin Group

SIGN IN

Lake / Orange County Connector Feasibility / Project Development & Environment (PD&E) Study
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CFX Project No.: 599-225

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| Name | Organization | Address | City/State/Zip | Email Address | Initials |
|-------------------------|---|--|-------------------------|--------------------------------|----------|
| Harold Barley | MetroPlan Orlando | 250 S. Orange Avenue, Ste 200 | Orlando, FL 32801 | hbarley@metroplanorlando.org | |
| David Bass | City of Orlando – Public Works | 400 S. Orange Avenue | Orlando, FL 32802 | david.bass@cityoforlando.net | |
| Loren Bender | Valencia College | P. O. Box 3028 | Orlando, FL 32802 | lbender2@valenciacollege.edu | LB |
| Julie Bendure | Floribra-Bradshaw LLC | PO Box 617138 | Orlando, FL 32861 | bendure@floribra.com | JB |
| Scott Boyd | West Orange South Lake Transportation Economic Development Task Force | City of Winter Garden Chamber 300 W. Plant Street | Winter Garden, FL 34787 | scottboyd.orange@gmail.com | |
| Stoney Brunson | City of Clermont | 685 W. Montrose Street | Clermont, FL 34711 | sbrunson@clermontfl.org | |
| Jennifer Codo-Salisbury | Central Florida Regional Planning Council | 555 E. Church Street | Bartow, FL 33830 | jcodosalisbury@cfrpc.org | |
| David Colby | South Lake Chamber of Commerce | 620 W. Montrose Street | Clermont, FL 34711 | davidc@southlakechamber-fl.com | |
| John Davis | Orlando Economic Partnership | 301 E. Pine St., Ste. 900 | Orlando, FL 32801 | john.davis@orlando.org | |
| Diana Dethlefs | Orange County Government | 201 South Rosalind Ave. | Orlando, FL 32801 | district1@ocfl.net | DD |
| Chris Dougherty | Floribra-Bradshaw LLC | PO Box 617138 | Orlando, FL 32861 | cdougherty@smeinc.com | |
| Jonathan Droor | Lennar – Land Development | | | jon.droor@lennar.com | JD |
| Stina D'Uva | West Orange Chamber of Commerce | 12184 W. Colonial Drive | Winter Garden, FL 34787 | sduva@wochamber.com | SD |
| Terry Dykehouse | City of Clermont | 685 W. Montrose Street | Clermont, FL 34711 | tdykehouse@clermontfl.org | |
| Harry Fix | Lake County Public Schools | 201 W Burleigh Boulevard | Tavares, FL 32778 | fixh@lake.k12.fl.us | |

SIGN IN

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|-----------------|--|-------------------------------------|---------------------------|---|-----------|
| George Gadiel | Lake County Engineering | 350 N Sinclair Avenue | Tavares, FL 32778 | ggadiel@lakecountyfl.gov | |
| Tanja Gerhartz | City of Winter Garden | 300 W. Plant Street | Winter Garden, FL 34787 | tgerhartz@wintergarden-fl.gov | |
| Steve Greene | Lake County Planning & Zoning | 315 W Main Street, 5th Floor | Tavares, FL 32778 | sgreene@lakecountyfl.gov | |
| Mark Griffith | Cra-Mar Groves | PO Box 783806 | Winter Garden, FL 34778 | mgriffith@griffithfs.com | <i>MG</i> |
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| Jose Hernandez | Orange County Utilities | 9150 Curry Ford Road | Orlando, FL 32825 | Jose.Hernandez2@ocfl.net | <i>JH</i> |
| Lisa Hill | WD Long Family Farms LLC (Southern Hill Farms) | 522 S. Hunt Club Blvd. #310 | Apopka, FL 32703 | HLongFarms@aol.com | <i>LH</i> |
| David Hill | WD Long Family Farms LLC (Southern Hill Farms) | 522 S. Hunt Club Blvd. #310 | Apopka, FL 32703 | dauid@southernhillfarms.com | <i>DH</i> |
| Gary Huttmann | MetroPlan Orlando | 250 S. Orange Ave., Suite 200 | Orlando, FL 32801 | ghuttmann@metroplanorlando.org | |
| Mark Ikeler | Orange County Utilities | 9150 Curry Ford Road | Orlando, FL 32825 | MarkC.Ikeler@ocfl.net | |
| Barbara Jenkins | Orange County Public Schools | 6721 Hanging Moss Road | Orlando, FL 32807 | barbara.jenkins@ocps.net | |
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| Steve Johnson | Greater Orlando Builders Association | 1953 Clayton Heritage Way | Maitland, FL 32751 | | |
| Herb Kahlert | Davidson Harvest LLC (Karl Corp.) | 500 Australian Ave. S #710 | West Palm Beach, FL 33401 | herb@karlcorp.com | <i>HK</i> |
| Hans Kahlert | Davidson Harvest LLC (Karl Corp.) | 500 Australian Ave. S #710 | West Palm Beach, FL 33401 | hans@karlcorp.com | |

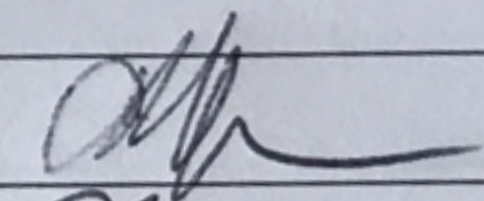
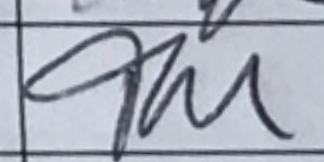
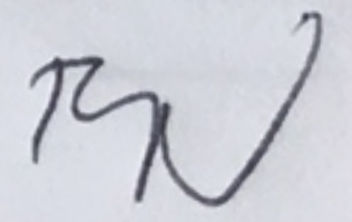
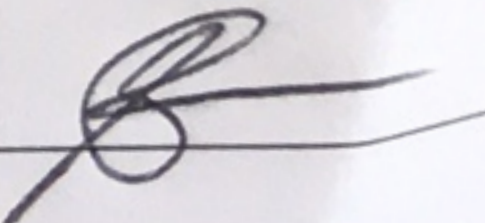
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|------------------|---|-------------------------------------|-------------------------|---------------------------------|---|
| Jim Karr | | | | landminus@aol.com | |
| Mark Massaro | Orange County Public Works | 4200 S John Young Parkway | Orlando, FL 32839 | mark.massaro@ocfl.net |  |
| Tim McClendon | Lake County Planning & Zoning | 315 W Main Street, 5th Floor | Tavares, FL 32778 | tmcclendon@lakecountyfl.gov |  |
| Fred Milch | East Central Florida Regional Planning Council | 455 N. Garland Avenue, Fourth Floor | Orlando, FL 32801 | fmilch@ecfrpc.org | |
| Cedric Moffett | Orange County Parks & Rec | 4801 W. Colonial Dr. | Orlando, FL 32808 | cedric.moffett@ocfl.net | |
| Stephanie Murray | Walt Disney World Imagineering (WDI) | 1365 Avenue of the Stars | Orlando, FL 32836 | stephanie.n.murray@disney.com | |
| Renzo Nastasi | Orange County Community, Environmental and Development Services | 4200 S John Young Parkway | Orlando, FL 32839 | renzo.nastasi@ocfl.net |  |
| Steve Pash | City of Winter Garden | 300 W. Plant Street | Winter Garden, FL 34787 | spash@cwgd.com | |
| Rusty Payton | Florida Association of Homebuilders | 2600 Centennial Place | Tallahassee, FL 23208 | rpayton@fhba.com | |
| James Penny | Greater Orlando Builders Association | 1953 Clayton Heritage Way | Maitland, FL 32751 | | |
| Douglas Pickell | Water Conserv II Operators w/ WSP | 17498 McKinney Road | Winter Garden, FL 34787 | douglas.pickell@wsp.com | |
| Regina Ramos | Orange County Parks & Recreation | 4801 W. Colonial Drive | Orlando, FL 32808 | regina.ramos@ocfl.net | |
| Todd Rimmer | Walt Disney World Imagineering (WDI) | 1365 Avenue of the Stars | Orlando, FL 32836 | todd.rimmer@disney.com | |
| Scott Ruland | Water Conserv II Operators w/ Woodard & Curran | 17498 McKinney Road | Winter Garden, FL 34787 | scott.ruland@waterconservii.com |  |

SIGN IN

CFX Lake / Orange County Connector Feasibility / Project Development & Environment (PD&E) Study
PROJECT ADVISORY GROUP - MEETING NO. 1

CFX Project No.: 599-225

CFX Headquarters, 4974 ORL Tower Rd, Orlando, FL 32807

July 30, 2018 9:30 a.m. – 11:30 a.m.

| Name | Organization | Address | City/State/Zip | Email Address | Initials |
|-----------------|---|----------------------------|---------------------------|--------------------------------|----------|
| Shannon Schmidt | City of Clermont | 685 W. Montrose Street | Clermont, FL 34711 | sschmidt@clermontfl.org | SS |
| Fred Schneider | Lake County Engineering | 350 N Sinclair Avenue | Tavares, FL 32778 | fschneider@lakecountyfl.gov | |
| Dennis Seliga | Boyd Development Corp. | 7586 W Sand Lake Road | Orlando, FL 32819 | dseliga@boyddev.com | |
| Mike Shannon | FDOT - District Five | 719 S. Woodland Blvd | DeLand, FL 32720 | mike.shannon@dot.state.fl.us | |
| Patricia Steed | Central Florida Regional Planning Council | 555 E. Church Street | Bartow, FL 33830 | psteed@cfrpc.org | |
| Lee Steinhauer | Greater Orlando Builders Association | 1953 Clayton Heritage Way | Maitland, FL 32751 | lee@greaterorlandoBA.com | LS |
| David Strong | Orlando Health Hospital | | | david.strong@orlandohealth.com | |
| Chip Tatum | Apartment Assoc. of Greater Orlando | | | chip@aago.org | |
| Marcie Tinsley | Davidson Harvest LLC (Karl Corp.) | 500 Australian Ave. S #710 | West Palm Beach, FL 33401 | Marcie@cleswph.com | MT |
| Alissa Torres | Orange County Planning | P. O. Box 1393 | Orlando, FL 32802 | alissa.torres@ocfl.net | |
| Eric Ushkowitz | Orange County Planning | P. O. Box 1393 | Orlando, FL 32802 | eric.ushkowitz@ocfl.net | |
| Lee VanDever | City of Clermont | 685 W. Montrose Street | Clermont, FL 34711 | lvandever@clermont.org | |
| Bill Wen | Orange County Public Schools | 6721 Hanging Moss Road | Orlando, FL 32807 | william.wen@ocps.net | |
| Thomas Werner | City of Clermont | 685 W. Montrose Street | Clermont, FL 34711 | twerner@clermontfl.org | |
| William White | Lake County Engineering | 350 N Sinclair Avenue | Tavares, FL 32778 | wwhite@lakecountyfl.org | |

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CFX Lake / Orange County Connector Feasibility / Project Development & Environment (PD&E) Study

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|----------------------|--------------------------------------|------------------------------------|---------------------|------------------------------------|----------|
| Cuqui Whitehead | City of Clermont | 685 W. Montrose Street | Clermont, FL 34711 | cwhitehead@clermontfl.org | |
| Virginia Whittington | MetroPlan Orlando | 250 S. Orange Avenue, Ste 200 | Orlando, FL 32801 | vlwhittington@metroplanorlando.org | |
| Michael Woods | Lake-Sumter MPO | 225 W. Guava Street, Suite 211 | Lady Lake, FL 32159 | mwoods@lakesumtermo.com | |
| Jim Yawn | Walt Disney World Imagineering (WDI) | 1365 Avenue of the Stars | Orlando, FL 32836 | jim.yawn@disney.com | |
| Jenelle Schmidli | GOBA | 1953 Clayton Heritage Way | Maitland, FL 32751 | jenelle@greaterorlandoba.com | JS |
| Sal Williams | City of Winter Garden | 300 W. Main St | Winter Garden, FL | swilliams@cwadm.com | |
| Hick Up | Nechon Plan Orlando | 250 S Orange | Orlando, FL | hickup@nechonphoto.com | HU |
| Richard Levey | Levey Consulting | | | rlevey@leveyconsulting.com | RL |
| Board Member | CCBCC | 20763 US 27 Graveland | Graveland FL | board@lakecountyfl.gov | BM |
| Roger Chapin | | | | RChapin@Mears.com | |
| Jim Karr | South Hk. Crossing | PO BOX 135 | Wintermeer, FL | Landminus@aol.com | JK |
| KEITH TRACE | MATAM | SUITE 500 1900 Summit Bldg BLVD | ORLANDO, FL | KEITH.TRACE@MATAMGRP.COM | KT |
| Jimmy Roper | LAND POWER | 6085 Main Ave #25 | Miracle LA FL | | JR |
| Chris Dougherty | S&ME | 1615 Edgewater Dr | Orlando, FL 32806 | cdougherty@smemc.com | CD |

| <u>Name</u> | <u>Organization</u> | <u>Address</u> | <u>Email Address</u> | <u>Initials</u> |
|---------------|---|---------------------------------|--|-----------------|
| REX CLONTS | CLONTS GAOLERS, INC | P.O. Box 622169 Oviedo 32765 | wrclonts@yahoo.com | |
| CHRIS CARMODY | Apartment Association of Greater Orlando EEFRPC | | Chris.Carmody@gray-robinson.com mhacking@ecfrpc.org | |
| LARA BENDER | Valencia College | | lbender2@ValenciaCollege.edu | |

PUBLIC INFORMATIONAL MEETING



A NEW STUDY IS UNDERWAY

The Central Florida Expressway Authority (CFX) is conducting a Feasibility/Project Development and Environment (PD&E) Study of the Lake/Orange County Connector. Below are details about the study and resources to keep you informed of the project's progress. The study is scheduled to be completed by August 2019.

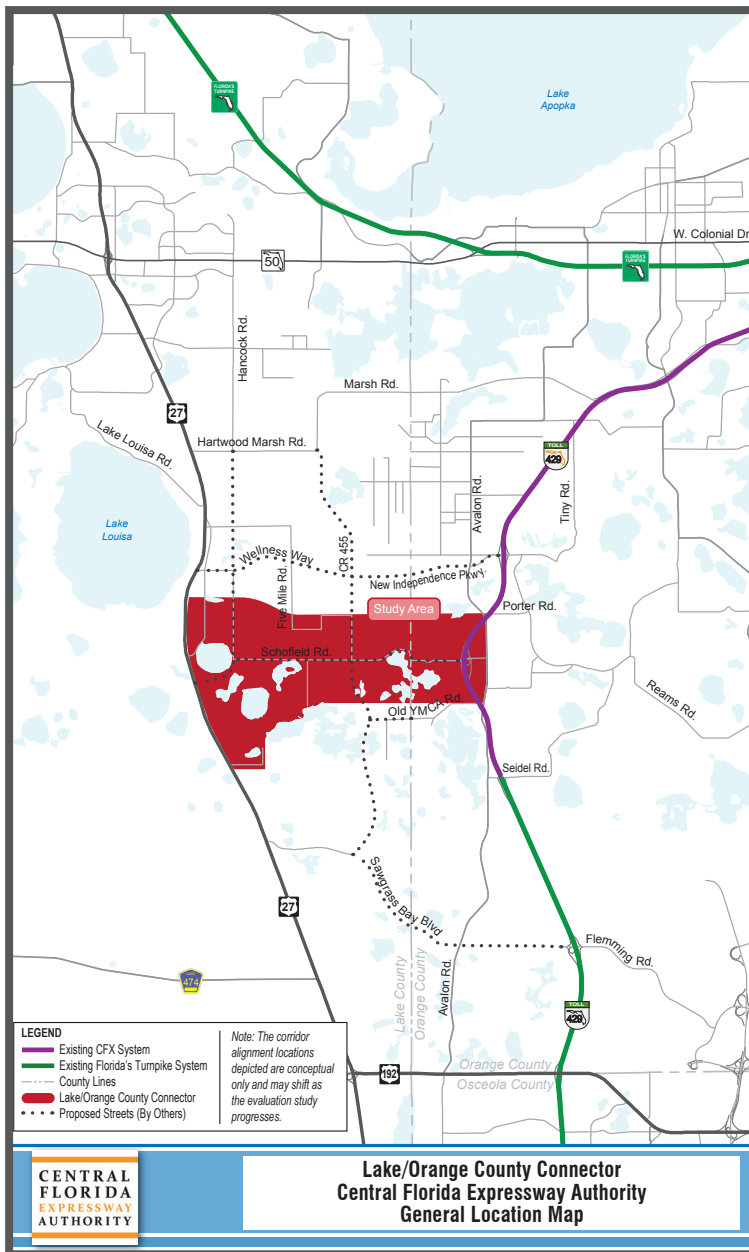
PROJECT DESCRIPTION

The proposed Lake/Orange County Connector extends from US 27 in south Lake County to State Road (SR) 429 in west Orange County, a distance of approximately five (5) miles. The study area is generally bordered by Porter Road on the north and Old YMCA Road on the south. A proposed interchange with the future extension of County Road 455 in Lake County is included in the study evaluation. The Lake/Orange County Connector is identified in the CFX 2040 Master Plan, the MetroPlan Orlando 2040 Long Range Transportation Plan and the Lake-Sumter MPO's 2040 Long Range Transportation Plan.



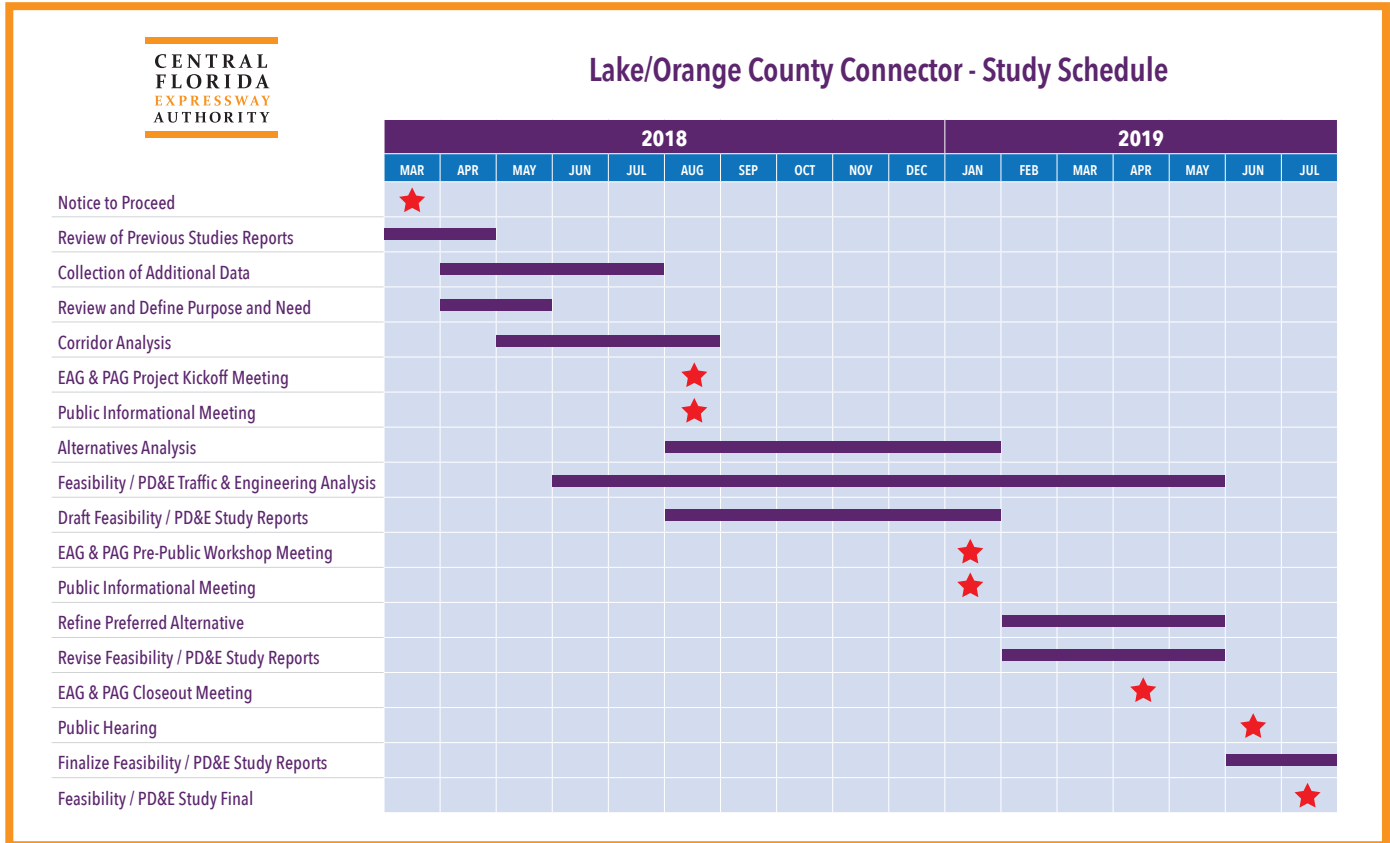
STUDY OBJECTIVE

The objective of the Feasibility/PD&E Study is to determine if a limited access facility between US 27 in south Lake County and SR 429 in west Orange County is viable and fundable in accordance with CFX policies and procedures. Using the results of previous studies as a foundation, a feasible corridor for the proposed toll road will first be identified. Several alignments within the corridor will then be developed and evaluated to identify a preferred alternative. All factors related to the design and location of the facility will be considered, including; transportation needs, financial feasibility, social impacts, economic factors, environmental impacts, engineering analysis, and right-of-way requirements.



GOALS OF THE PROJECT

The goals of the project are to improve connections between area roadways, accommodate anticipated transportation demand, provide consistency with local and regional plans, support economic viability and job creation, support intermodal opportunities, and enhance evacuation and emergency services.



PARTICIPATING IN THE STUDY

Public involvement and community engagement will be a crucial component of this study. We value your input. CFX will provide multiple opportunities for participation, including presentations to elected officials' boards, public information meetings and a public hearing. Community groups can request a presentation via the www.CFXWay.com website or by emailing Public Involvement Coordinator Kathy Putnam at LakeOrangeStudy@CFXway.com. You're also welcome to submit your comments at any time during the study via the website or project email address as noted. And be sure to follow the study on Facebook (@LakeOrangeConnector) for updates.

Visit the study webpage at:

<https://www.cfxway.com/agency-information/plans-studies/project-studies/lake-orange-co-connector-pde/>

TO FIND OUT MORE ABOUT THE STUDY, CONTACT:

Kathy Putnam
Public Involvement Coordinator
Phone: (407) 802-3210
Email: LakeOrangeStudy@CFXway.com

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

4974 ORL Tower Road
Orlando, FL 32807
Phone: (407) 690-5000
Fax: (407) 690-5011
Email: Info@CFXway.com



@LakeOrangeConnector

Public participation is solicited without regard to race, color, national origin, age, sex, religion, disability or family status. Para más información en español acerca del proyecto, por afavor comuníquese con Alicia Arroyo al 407-509-0231 o por correo electrónico Alicia.Arroyo@QCAusa.com.

From: Kathy Putnam
To: [Michelle Maikisch](#); [Glenn Pressimone](#); Joseph.Berenis@CFXWay.com
Cc: "[Angela Melton](#)"; [Brian Hutchings](#); [Williamson, Jonathan](#); [Evans, Merissa](#); [William Sloup](#); [Jazlyn Heywood](#); [Kelly Hiden](#); [Mary Brooks](#); [Shari Croteau](#)
Subject: Lake-Orange County Connector Public Meeting Summary
Date: Friday, August 31, 2018 9:35:49 AM
Attachments: [image001.png](#)

Good morning:

Last night was the first public meeting for the Lake/Orange County Connector Feasibility/PD&E Study. Below is a summary. Please let me know if you have any questions.

Attendance

A total of 126 people

- 109 citizens
- 17 staffers
- Most people said they found out about the meeting from media reports.

Elected Officials Attending

- Lake County Commissioner/CFX Board member Sean Parks
- State Rep. Bobby Olszewski
- Clermont City Council Member Tim Bates
- Clermont City Council Member Ray Goodgame
- Sara Ard, aide to Rep. Jennifer Sullivan
- Armando Harwood, attending on behalf of Orange County Sheriff and County Mayor Elect Jerry Demings

-

Media

Gabby Baquero with the West Orange Times/Windermere Observer was there. I talked with her and Will Sloup walked her through the study. Brian Hutchings also spoke with her about future stories regarding work planned for SR 429. Gabby indicated her story on the Lake/Orange County Connector will run in the West Orange Times and Windermere Observer next week.

-

Comments

We received nine comments.

- Five of them did not want a limited access road (four of these were from large property owners)
- Three strongly supported this connector
- One said it would have been helpful to have Lake County at the meeting to discuss extensions of Hancock Road and CR 455.

I'll follow up with a few attendees who requested pdf's of the display boards as well as previous studies connected with this study area.

Thanks,



Kathy Putnam

Program Manager

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