

EVALUATION MATRIX

QUALITATIVE COMPARISON

	QUALITATIVE COMPARISON			
	Variables/Parameters	No-Build Alternative	Build Alternative 1	Build Alternative 2
	Geometric Compliance to Design Criteria	No change	Meets criteria	Meets criteria
	Multimodal Facilities	No change	Provides the ability to enhance bus service operations; Improves bicycle and pedestrian facilities	Provides the ability to enhance bus service operations; Improves bicycle and pedestrian facilities
	Mobility	Increased congestion	Adds capacity; Improves the traffic operations of the area	Adds capacity; Improves the traffic operations of the area
ing	Safety Improvements	Includes planned/programmed ramp terminal safety improvements	Reduces long-term crashes related to heavy congestion, mainline weaving maneuvers, mainline and ramp speed differentials and interstate access	Reduces long-term crashes related to heavy congestion, mainline weaving maneuvers, mainline and ramp speed differentials and interstate access Reduces the number of entrances and exits to and from I-95
eeri	Drainage Analysis	No impact	Less impacts than Alternative 2	More impacts than Alternative 1
Engineering	Structures Analysis	No change	New bridges = 4 Bridge widenings = 3	Alternative 2A: New bridges = 6 Bridge widenings = 3 Alternative 2B: New bridges = 5 Bridge widenings = 3 Alternative 2C: New bridges = 5 Bridge widenings = 3
	Utility Impacts	No impact	5 Major impacts, 7 Minor impacts	5 Major impacts, 7 Minor impacts
	Maintenance of Traffic	No impact	Moderate impacts during construction; Less impacts than Alternative 2	Moderate impacts during construction; More impacts than Alternative 1
	Purpose and Need	Does not meet	Meets	Meets
	Traffic	Several areas with LOS E and/or LOS F	Achieves LOS D or better	Achieves LOS D or better
Socio-Economic	Right of Way Impacts	None	Total = 39 Commercial = 30 Residential = 2 Governmental = 2 Industrial = 5 (Extent of parcel impacts are not known at this time)	Alternative 2A Total = 49 Commercial = 33 Residential = 5 Governmental = 4 Industrial = 7 Alternative 2B Total = 44 Commercial = 30 Residential = 5 Governmental = 4 Industrial = 5 Alternative 2C Total = 43 Commercial = 30 Residential = 5 Governmental = 3 Industrial = 5 (Extent of parcel impacts are not known at this time)
	Social and Neighborhood Impacts	None/No change	Provides the ability to incorporate regional express bus service which offers an alternative to auto travel and addresses needs of low-income users and disadvantaged groups (Public input/comment is needed to continue this evaluation particularly as it relates to community cohesion, aesthetics, and visual effects)	Provides the ability to incorporate regional express bus service which offers an alternative to auto travel and addresses needs of low-income users and disadvantaged groups (Public input/comment is needed to continue this evaluation particularly as it relates to community cohesion, aesthetics, and visual effects)
	Economic and Employment Impacts	No impact	Improves mobility, throughput, travel speeds and travel time for this vital SIS facility and cross streets; Supports economic development and reduces congestion (Public input/comment is needed to continue this evaluation especially since this alternative may involve some business displacement)	Improves mobility, throughput, travel speeds and travel time for this vital SIS facility and cross streets; Supports economic development and reduces congestion (Public input/comment is needed to continue this evaluation especially since this alternative may involve some business displacement)
	Community Services/Features	No impact	Government facilities and public parks are located adjacent to the corridor but no disruption in their function and/or the services provided are anticipated	Government facilities and public parks are located adjacent to the corridor but no disruption in their function and/or the services provided are anticipated
	Public Comments	(Pending)	(Pending)	(Pending)
Environment	Noise Impacts	No effect; Does not have the ability to add noise abatement	(Pending Noise Study results)	(Pending Noise Study results)
	Air Quality	Potential impacts from increased congestion	The project is located within an attainment area, so significant air quality impacts are not anticipated	The project is located within an attainment area, so significant air quality impacts are not anticipated
	Contamination	No impact	Three known contaminated sites and four potentially contaminated sites are directly affected by right of way acquisition (Risk analysis underway)	Three known contaminated sites and four potentially contaminated sites are directly affected by right of way acquisition (Risk analysis underway)
	Biological/Wetland Impacts	No impact	Direct wetland impacts = 0 acres Inclirect wetland impacts = 0 acres Direct surface water impacts = 0.17 acres Direct impact to stormwater/Drainage Features = 0.16 acres (only Orangebrook drainage feature included)	Direct wetland impacts = 0 acres Indirect wetland impacts = 0 acres Direct surface water impacts = 0.17 acres Direct impact to stormwater/Drainage Features = 0.16 acres (only Orangebrook drainage feature included)
	Water Quality	No impact/No improvement	Equivalent water quality treatment will be provided that meets state water quality criteria; Potential for improvement possible based on the proposed drainage system	Equivalent water quality treatment will be provided that meets state water quality criteria; Potential for improvement possible based on the proposed drainage system
	Cultural/Historic/ Archaeological Impacts	No impact	National Register Eligible Seaboard Air Line Railroad (8BD4649) and Seaboard; Coastline Railroad Terminal Building (8BD163); 1 Historic Golf Course (Orangebrook)	Potential for improvement possible based on the proposed aratingge system National Register Eligible Seaboard Air Line Railroad (8BD4649) and Seaboard; Coastline Railroad Terminal Building (8BD163); 2 Historic Golf Courses (Orangebrook and Sunset)
st	Engineering, CEI and Construction	No construction, No cost involved = \$0	\$127.3 million	\$117.3 million
Cost	Right of Way/Business Damages	None = \$0	\$48.3 million	\$60.3 million

PERFORMANCE EVALUATION CRITERIA

Engineering

Geometric Compliance to Design Criteria: Assesses the compliance of the alternatives with FDOT and AASHTO design standards.

Multimodal Facilities: Measures the availability of multi-modal facilities and their amenities and how each alternative enhances the ability to promote other transportation modes.

Mobility: Measures the ability of an alternative to provide adequate capacity and minimize travel time delay through the corridor.

Safety Improvements: Provides consideration for an alternative's physical, geometric and operational features identifying to what extent they would minimize actual or potential safety hazards.

Drainage Analysis: Evaluates storm water treatment and attenuation within the project limits. Determines and estimates the storm water management facility requirements to serve the drainage needs of the proposed improvements.

Structures Analysis: Evaluates the needed structural improvements of all the bridges within the project limits. This analysis also determines if new bridges are required to accommodate the proposed improvements.

Utility Impacts: Measures the utility impacts of the alternatives. This includes potential conflicts and relocation of the utility lines that are located within the FDOT right of way.

Maintenance of Traffic: Measures the effectiveness of the proposed traffic control schemes during construction to minimize effects on the local residents, business, and traveling public and emergency management services

Purpose and Need: Measures the ability of an alternative to comply with the purpose and need of the project

Socio-Economic

Right of Way Impacts: Identifies the level and type of any residential and/or business disruptions associated with an alternative.

Social and Neighborhood Impacts: Identifies whether an alternative has impacts on social and neighborhood issues, including visual and aesthetic concerns.

Economic and Employment Impacts: Identifies whether an alternative impacts economic issues along the corridor.

Community Services/Features: Measures the effect and/or compatibility of an alternative to meet the surrounding visual environment needs from both the roadway user and the supporting community. Also provides a degree of impact to the community's services (Fire, Police, Parks, etc.)

Public Comments: Incorporates the comments and feedback from the public for each alternative. Public and Agency Kick-off Meetings were held on May 25, 2017. Stakeholders voice their opinions and concerns during outreach efforts.

Environmental

Noise Impacts: Measures the ability of an alternative to meet pre-established noise standards.

Air Quality: Measures the ability of an alternative to meet pre-established air quality standards

Contamination: Measures the potential impact on existing or potential hazardous material sites and/or generators.

Biological/Wetland Impacts: Identifies the degree of potential effect of Threatened and Endangered Species and potential impacts to wetland habitat.

Water Quality: Measures the alternative's potential effect on water quality for any surface or subsurface water resource within the project limits

Cultural/Historic/Archaeological Impacts: Measures the degree of impact associated with historic structures or archaeological sites that may be caused by the development of a specific corridor or concept.

Project Cost

Engineering, CEI and Construction: Compares each alternative based on design and construction costs.

Right of Way/Business Damages: Addresses variations in right of way costs between alternatives.



