

Concept, Feasibility & Mobility Study Poinciana Parkway Extension / I-4 Connector January / February 2018

Alternatives Evaluation Matrix

Evaluation Criteria	Unit of Measure	2A-1	2A-2	2A-3	2A-4	2A-5	3-2N	3-2 S	3-5N	3-5 S	3A-3	3A-5
Design												
Alternative Length (approximate)	Miles	13.3	12.7	12.7	13.0	12.9	13.3	13.3	13.2	13.2	13.4	13.3
Proposed Right-of-Way Width	TVIII CS											
(general and varies at interchanges)	feet	324	324	324	324	324	324 & 304	324 & 304	324 & 304	324 & 304	324	324
Proposed Bridges	Structures	37	27	27	20	24	26	26	25	25	26	26
(total structures per alternative / total length of all structures)	feet	23,404	21,347	21,078	21,403	22,029	11,391	11,490	11,263	11,394	8,690	8,236
Proposed Interchanges	Number	5	5	5	5	5	6	6	6	6	5,030	5
Projected 2045 Annual Average Daily Traffic (AADT) Volume	Number		<u> </u>			<u> </u>				0		
	vehicles	46,600	44,400	44,400	41,900	41,900	30,800	30,800	30,800	30,800	31,700	31,700
(as a tolled facility)												
Physical Date Confidence of the Confidence of th		27	27	27	2.6	2.0	4.5	4.2	4.4	4.2	0	
Major Utility Conflicts - Existing	No. of Conflicts	27	27	2/	26	28	15	13	14	13	8	8
Major Utility Conflicts - Planned	No. of Conflicts	2	2	2	3	3	1	1	2	1	1	1
Contamination Sites & Facilities	No. of Conflicts	2	3	3	3	3	4	2	6	3	1	2
Railroad Involvement	No. of Conflicts	1	1	1	1	1	1	1	1	1	1	1
Cultural Environment Effects												
Public Lands (Public Recreation Lands, Wildlife Refuges, etc.)	acres	0	0	0	0	0	0	0	0	0	0	0
Section 4(f) Coordination Required	Y/N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Potential Historic Resources	No. of Conflicts	2	1	1	2	2	1	1	2	2	1	3
Potential Historic Linear Resources (Canals/Highways/Railroads)	No. of Resources	1	1	1	2	2	1	1	3	3	1	3
Potential Archaelogical Resources	No. of Resources	4	4	4	4	4	2	2	2	2	1	1
Natural Environment												
Water Features												
Ponds / Lakes	acres	1	Ω	0	1	1	0	0	1	1	9	10
Canals/Regulated Floodways	No. of Conflicts	6	6	6	8	9	0	0	1	1	1	1
Flood Hazard Areas - 100 Year Floodplain	acres	176	222	203	149	130	204	211	128	136	247	220
Wetlands (non-forested and forested)	acres	171	185	162	165	165	105	108	84	84	155	169
		555	576	564		506	406		396	375	463	461
Potential Habitat - Federal Listed Species	acres				511			411				
Potential Habitat - State Listed Species	acres	298	297	296	254	258	294	301	245	247	387	363
Potential Bald Eagle Nest	Y/N	N	IN	IV	N	IN	IN	N	N	N	No.i	N
Potential Species Impacts (composite rating)	Rating	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH
Mitigation Banks												
Reedy Creek Mitigation Bank	acres	11	52	41	36	46	52	52	48	48	33	48
Conservation Easements												
Upper Lakes Basin Watershed	acres	0	0	0	1	21	0	0	21	21	0	22
Reedy Creek Improvement District	acres	11	11	11	11	11	0	0	0	0	0	0
SFWMD Conservation Lands	acres	57	35	35	35	35	0	0	2	2	2	2
Social												
Right-of-Way Area (including proposed ponds)	acres	560	541	532	502	492	341	346	312	309	455	454
Potential Residential Impacts (includes partially impacted parcels)	Total Parcels	174	141	213	190	154	87	107	85	104	156	130
Existing	Parcels	76	40	81	73	54	58	63	52	61	58	41
Planned	Parcels	98	101	132	117	100	29	44	33	43	98	89
Potential Non-Residential Impacts (includes partially impacted parcels)	Total Parcels	98	100	89	66	57	111	91	102	97	76	72
Existing	Parcels	47	48	46	42	41	57	42	52	46	31	32
Planned	Parcels	51	52	43	24	16	54	49	50	51	45	40
Community Facilities	No. of Conflicts	1	1	1	0	0	3	3	2	2	1	0
Parks and Recreational Facilities (public and private)	No. of Conflicts	0	0	0	0	0	0	0	0	0	0	0
Trails	No. of Conflicts	1	1	1	1	1	1	1	1	1	1	1
		HIGH	HIGH	HIGH	LOW	LOW	HIGH	HIGH	MEDIUM	MEDIUM	HIGH	LOW
Community Cohesion Effects Socioeconomic Impacts to Special Populations	Ranking											
Socioeconomic Impacts to Special Populations	Ranking	HIGH	HIGH	HIGH	LOW	LOW	HIGH	HIGH	LOW	LOW	HIGH	LOW
Proposed Development (PD) /	acres	256	166	175	176	176	95	63	95	63	37	37
Development of Regional Impact (DRI)												
Estimated Costs		1	4	1	1	4	4	٨	1	1	4	1
Roadway Construction		\$211,200,000	\$207,700,000	\$200,200,000	\$201,800,000	\$201,600,000	\$324,100,000	\$331,500,000	\$312,400,000	\$319,800,000	\$205,500,000	\$214,100,000
Bridges Construction		\$122,100,000	\$89,400,000	\$88,600,000	\$86,000,000	\$90,900,000	\$118,600,000	\$112,700,000	\$122,800,000	\$111,400,000	\$107,900,000	\$102,100,000
Interchanges Construction		\$664,200,000	\$687,400,000	\$699,100,000	\$676,000,000	\$690,900,000	\$318,000,000	\$297,200,000	\$319,100,000	\$302,300,000	\$271,600,000	\$279,100,000
Toll Collection Equipment		\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000	\$1,300,000	\$2,600,000	\$1,300,000	\$2,600,000	\$2,600,000
Right-of-Way Areas (including proposed ponds)		\$398,300,000	\$323,000,000	\$338,400,000	\$291,300,000	\$297,400,000	\$301,800,000	\$208,400,000	\$295,000,000	\$212,400,000	\$127,100,000	\$121,500,000
Mitigation, Wetlands, & Wildlife		\$35,100,000	\$41,000,000	\$36,900,000	\$35,900,000	\$40,400,000	\$24,900,000	\$25,100,000	\$24,300,000	\$24,400,000	\$28,800,000	\$35,700,000
Total Estimated Alternative Costs		\$1,433,500,000	\$1,351,100,000	\$1,365,800,000	\$1,293,600,000	\$1,323,800,000	\$1,090,000,000	\$976,200,000	\$1,076,200,000	\$971,600,000	\$743,500,000	\$755,100,000
Projected Traffic Revenue (2045)		TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD