

BALL GROUND TRU	JCK BYPASS ALT	TERNATIVES AN	IALYSIS MATRIX	(Estimated Impa	acts & Costs)		
RFQ 2018-048, Cherokee County P.I. No. 0002525							
Alternative No.	Α	A-2	В	B-C	С	C-D	D
Displacements							
Residential	4	2	0	2	1	0	0
Commercial	0	0	0	0	0	0	0
Church	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
Proximity of proposed roadway to residences							
less than 25'	3	1	0	1	0	0	0
less than 50'	6	3	0	2	1	0	0
less than 100'	10	7	3	5	4	3	3
less than 200'	12	11	9	11	10	5	6
less than 300'	17	16	11	13	13	13	14
less than 400'	20	20	19	17	15	29	29
less than 500'	22	24	22	23	17	33	34
Neighborhood Impacts							
Neighborhoods impacted	1	1	0	0	0	0	0
Required Right of Way							
Required R/W Area (acres)	40	40	43	44	47	72	76
Wetlands and Waters Impacts							
Wetland Impact Area (acres)	0.00	0.00	1.36	1.36	0.08	0.82	0.96
Open Water (Pond) Impact Area (acres)	0.00	0.00	0.00	0.00	0.14	0.00	0.00
Stream Impact Length (feet)	632	650	1026	704	413	1874	2067
Stream buffers (acres)	0.77	0.80	1.41	0.71	0.31	2.13	2.40
Historical properties impacts							
Historical properties impacted (each)	4	2	2	6	6	3	3
Severity of impacts	Adverse/Moderate	Not Adverse	Adverse/Low	Adverse/Severe	Adverse/Severe	Adverse/Low	Not Adverse
Section 4f	Yes	No	Yes	Yes	Yes	No	No
Roadway Lengths (miles)							
Bypass Length (SR 5 BU to SR 372)	1.28	1.32	1.47	1.73	1.81	2.30	2.30
Comparative Travel Length Along Bypass and SR 372 (SR 5 BU to SR 372 at Hawkins Farm Lane/Preserve Parkway	2.02	2.00	2.08	2.08	2.16	2.41	2.41
Cost							
Construction	\$15,850,000	\$14,840,000	\$14,880,000	\$18,770,000	\$18,820,000	\$18,390,000	\$22,550,000
Right of Way	\$4,941,000	\$4,610,000	\$4,235,000	\$4,655,000	\$4,500,000	\$5,122,000	\$5,575,000
Utilities	\$150,000	\$150,000	\$130,000	\$170,000	\$170,000	\$160,000	\$160,000
Mitigation	\$561,000	\$578,000	\$1,389,000	\$1,178,000	\$377,000	\$1,910,000	\$2,153,000
TOTAL COST	\$21,502,000	\$20,178,000	\$20,634,000	\$24,773,000	\$23,867,000	\$25,582,000	\$30,438,000

Existing and Projected Traffic Volumes

Average Daily Traffic (ADT)

SR 372			
	Total	Trucks	
2018 Existing	8,650	1,125	
2030 No Build	10,950	1,424	
2030 Build	8,350	167	
2050 No Build	16,300	2,119	
2050 Build	12,450	249	

SR 372			
	Total	Trucks	
2018 Existing	8,600	1,118	
2030 No Build	10,900	1,417	
2030 Build	7,600	152	
2050 No Build	16,250	2,113	
2050 Build	11,350	227	

SR 5BU			
	Total	Trucks	
2018 Existing	9,050	1,222	
2030 No Build	11,500	1,553	
2030 Build	9,600	1,872	
2050 No Build	17,050	2,302	
2050 Build	14,300	2,789	

SR 372			
	Total	Trucks	
2018 Existing	8,850	1,151	
→ 2030 No Build	11,250	1,463	
2030 Build	7,850	157	
2050 No Build	16,700	2,171	
2050 Build	11,700	234	

Howell Bridge Road			
	Total	Trucks	
2018 Existing	9,050	1,358	
2030 No Build	11,500	1,725	
2030 Build	11,500	1,725	
2050 No Build	17,050	2,558	
2050 Build	17,050	2,558	

Ball Ground Truck Bypass			
	Total	Trucks	
2018 Existing	-	-	
2030 No Build	-	-	
2030 Build	3,800	426	
2050 No Build	-	-	
2050 Build	5,550	622	

SR 372		
	Total	Trucks
2018 Existing	8,600	1,118
2030 No Build	10,900	1,417
2030 Build	10,900	1,417
2050 No Build	16,250	2,113
2050 Build	16,250	2,113