

Intersection Control Evaluation

(Business 53 and 22nd Avenue)

	Traffic Signal	Roundabout																		
OPERATIONAL ANALYSIS	<p>The Level of Service for the 2033 PM peak traffic volumes are summarized below:</p> <p>Intersection LOS (Delay)</p> <ul style="list-style-type: none"> • Overall: B (10.7 sec) <ul style="list-style-type: none"> ○ Northbound Approach: A (9.5) ○ Southbound Approach: A (9.3) ○ Eastbound Approach: B (18.5) ○ Westbound Approach: C (21.0) <p><i>Synchro - HCM 2010</i></p>	<p>The Level of Service for the 2033 PM peak traffic volumes are summarized below:</p> <p>Intersection LOS (Delay)</p> <ul style="list-style-type: none"> • Overall: A (7.3 sec) <ul style="list-style-type: none"> ○ Northbound Approach: A (7.4) ○ Southbound Approach: A (6.7) ○ Eastbound Approach: A (7.4) ○ Westbound Approach: A (9.1) <p><i>HCS 2010 – 6.60</i></p>																		
CONSTRUCTION COSTS	<p>Pavement Area: 20,200 sy</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Construction Cost</td> <td style="width: 10%; text-align: center;">= \$</td> <td style="width: 30%; text-align: right;">1,210,000</td> </tr> <tr> <td>*Misc. Const. Cost</td> <td style="text-align: center;">= \$</td> <td style="text-align: right;">420,000</td> </tr> <tr> <td>**E&C</td> <td style="text-align: center;">= \$</td> <td style="text-align: right;">250,000</td> </tr> </table> <p>*35% miscellaneous construction costs **15% construction engineering costs</p> <p>Total Estimated Cost = \$1,880,000</p>	Construction Cost	= \$	1,210,000	*Misc. Const. Cost	= \$	420,000	**E&C	= \$	250,000	<p>Pavement Area: 17,400 sy</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Construction Cost</td> <td style="width: 10%; text-align: center;">= \$</td> <td style="width: 30%; text-align: right;">980,000</td> </tr> <tr> <td>*Misc. Const. Cost</td> <td style="text-align: center;">= \$</td> <td style="text-align: right;">340,000</td> </tr> <tr> <td>**E&C</td> <td style="text-align: center;">= \$</td> <td style="text-align: right;">200,000</td> </tr> </table> <p>*35% miscellaneous construction costs **15% construction engineering costs</p> <p>Total Estimated Cost = \$1,520,000</p>	Construction Cost	= \$	980,000	*Misc. Const. Cost	= \$	340,000	**E&C	= \$	200,000
Construction Cost	= \$	1,210,000																		
*Misc. Const. Cost	= \$	420,000																		
**E&C	= \$	250,000																		
Construction Cost	= \$	980,000																		
*Misc. Const. Cost	= \$	340,000																		
**E&C	= \$	200,000																		
RIGHT-OF-WAY	<p>Properties impacted:</p> <ul style="list-style-type: none"> • Tip Top Motors • Westside Auto Sales* • Markquart Motors • Tobacco Outlet* • Morrie’s Mazda <p>*Relocations</p> <p>Real Estate Area = 110,330 sf</p>	<p>Properties impacted:</p> <ul style="list-style-type: none"> • Tip Top Motors • Westside Auto Sales* • Markquart Motors • Tobacco Outlet* • Morrie’s Mazda <p>*Relocations</p> <p>Real Estate Area = 110,330 sf</p>																		