

## Grace Pointe Church + Franklin/Country Roads LUA

6/14/2017 Rev1				
<b><u>Single Family Detached Housing Units Country Rd</u></b>				
X = Number of Dwelling Units = 11				
<b>Formula</b>		<b>Ln(T)</b>	<b>I</b>	
On a Weekday p269 weekday				
Ln(T) = 0.92 Ln(x) +2.71				
Ln(T) = 0.92 Ln(11) +2.71				
Ln(T) = <0.92 X 2.40> +2.71				
		<b>4.92</b>	<b>136.46</b>	
On a Weekday p270 7 & 9 a.m. Peak				
T = 0.70(x) + 9.43				
T = 0.70(11) + 9.43				
		*	<b>17.13</b>	
On a Weekday p271 4 & 6 p.m. Peak				
Ln(T) = 0.90 Ln(x)+.53				
Ln(T) = 0.90 Ln(11) +.53				
Ln(T) = <0.90 X 2.40>+.53				
		<b>2.69</b>	<b>14.7</b>	
<b><u>Apartments Country Road-Grace Pt Property</u></b>				
X = Number of Dwelling Units = 180				
<b>Formula</b>		<b>Ln(T)</b>	<b>I</b>	
Av Vehicle Trip Ends Vs Dwelling Units Weekday p306				
T= 6.01(x) + 150.35				
T= 6.01(180) + 150.35				
		*	<b>1232.15</b>	
Av Vehicle Trip Ends Vs Dwelling Units Weekday 7 & 9 a.m. p307				
T= 0.49(x) + 3.73				
T= 0.49(180) + 3.73				
		*	<b>91.93</b>	
Av Vehicle Trip Ends Vs Dwelling Units Weekday 4 & 6 p.m. p308				
T= 0.55(x) + 17.65				
T= 0.55(180) + 17.65				
		*	<b>116.65</b>	
Av Vehicle Trip Ends Vs Dwelling Units Weekday A.M. Peak Hr Generator p309				
T= 0.53(x) + 4.21				
T= 0.53(180) + 4.21				
		*	<b>99.61</b>	

<b>5 Single Tenant Office Franklin Road</b>				
X= Number of Employees = 5 bldg X 7 employees = 35				
X= SF Gross Floor Area x Number of Bldgs = 5 Bldg x Av 1820 SF = 9100 SF				
<b>Formula</b>			<b>Ln(T)</b>	<b>T</b>
Av Vehicle Trip Ends Vs Employees Weekday p1174				
Ln(T)= 0.75 Ln(X) +2.79		X= No of Employees		
Ln(T)= 0.75 Ln(35) +2.79				
Ln(T)= <0.75 x 3.56> +2.79			<b>5.46</b>	<b>235.01</b>
Av Vehicle Trip Ends Vs Employees Weekday A.M. Peak Hour p1175				
T= 0.50(X) + 16.91		X= No of Employees		
T= 0.50(35) + 16.91				
T= 17.50 + 16.91			*	<b>34.41</b>
Av Vehicle Trip Ends Vs Employees Weekday P.M. Peak Hr p1176				
T= 0.45(X) +32.37		X= No of Employees		
T= 0.45(35) +32.37				
T= 15.75 +32.37			*	<b>48.12</b>
X = 1000 SF Gross Floor Area				
Av Vehicle Trip Ends Vs 1000 SF Gross FI Area Weekday p1177				
Ln(T)= 0.60 Ln(X) + 4.32				
Ln(T)= 0.60 Ln(9.1) + 4.32				
Ln(T)= <0.60 x 2.21> + 4.32			<b>5.64</b>	<b>282.86</b>
X = 1000 SF Gross Floor Area				
Av Vehicle Trip Ends Vs 1000 SF Gross FI Area p1178 A.M. Peak Hour				
T= 1.66(X) + 22.94				
T= 1.66(9.1) + 22.94			*	<b>38.05</b>
X = 1000 SF Gross Floor Area				
Av Vehicle Trip Ends Vs 1000 SF Gross FI Area p1179 P.M. Peak Hour				
T= 1.52(X) + 34.88				
T= 1.52(9.1) + 34.88			*	<b>48.71</b>