

# SINGLE LANE BASIC FREEWAY SEGMENT WORKSHEET

## General Information

Analyst: JP  
 Agency or Company: Florence & Hutcheson  
 Date Performed: 9/23/2011  
 Analysis Time Period: AM

## Site Information

Highway/Dir of Travel: I-385 NB C-D  
 From/To: Wdrf - I-385NB CD & I-385NB (Ramp)  
 Jurisdiction: Greenville, SC  
 Analysis Year: 2015 Alternate 4A

## Flow Inputs

Volume, V: 236 veh/h  
 Driver Population,  $f_P$ : 1  
 General Terrain: Level

Peak Hour Factor, PHF: 0.90  
 %Trucks and Buses,  $P_T$ : 18%  
 %RVs,  $P_R$ : 0%

## LOS and Performance Measures

$$f_{HV} = \frac{1}{1 + P_T(E_T - 1) + P_R(E_R - 1)} = 0.91743$$

$$V_P = \frac{V}{PHF * N * f_{HV} * f_P} = 285.82$$

LOS	$V_P$ (pc/h/ln)
A	600
B	990
C	1430
D	1910
E	2250

**LOS: A**

\* From Exhibit 23-2 of the 2000 HCM - Maximum Service Flow Rate for a BFS with a FFS of 55mph.