

APPENDIX C

Supporting Traffic Documentation

Cemprola, Danielle

From: Long, Chad C. <LongCC@scdot.org>
Sent: Thursday, December 08, 2016 9:47 AM
To: Cemprola, Danielle
Subject: RE: US 17 Traffic

This is good information to include as well

From: Cemprola, Danielle [mailto:Danielle.Cemprola@mbakerintl.com]
Sent: Thursday, December 08, 2016 9:27 AM
To: Long, Chad C.
Subject: FW: US 17 Traffic

***** This is an EXTERNAL email. Please do not click on a link or open any attachments unless you are confident it is from a trusted source. *****

This is the email that discusses how the other numbers were calculated

Danielle Cemprola | Environmental Specialist II | Michael Baker International
101 N Main St, Suite 810 | Greenville, SC 29601 | [O] 864-670-2747 | [M] 803-727-0698
danielle.cemprola@mbakerintl.com | www.mbakerial.com



From: Cory, Kelly M
Sent: Monday, July 25, 2016 3:23 PM
To: Cemprola, Danielle <Danielle.Cemprola@mbakerintl.com>
Cc: Ruhsam, Bill <Bill.Ruhsam@mbakerintl.com>
Subject: RE: US 17 Traffic

Danielle,

I have reviewed the LOS results you calculated for the SCDOT Planning Capacity section of Table 1.2 and everything checks out correctly. The HCM 2010 sections is purely a lookup comparing the AADT to the HCM 2010 volume tables, and I have entered in the correct LOS values for each year in the table.

Below is a picture of the table, and attached is a copy of your document with the table updated. Please let me know if you need anything else.

Table 1.2: AADT and Level-of-Service along U.S. 17						
Year	AADT	SCDOT Planning Capacity			HCM 2010	
		Principal Arterial			(k=0.10; D=0.65)	
		2 Lane (No Build)	4 Lane	4 Lane (div)	2 Lane (No Build)	4 Lane
2020	18,700	1.38 (LOS E)	0.64 (LOS B)	0.56 (LOS B)	LOS E	LOS B
2030	21,000	1.44 (LOS F)	0.72 (LOS B)	0.63 (LOS B)	LOS E	LOS B
2040	23,300	1.60 (LOS F)	0.80 (LOS C)	0.69 (LOS B)	LOS F	LOS C

Source: SCDOT, 2014, by email

Thanks,

Kelly M. Cory, P.E., PTOE | Traffic Engineer | Michael Baker International
 420 Technology Parkway, Suite 150 | Norcross, GA 30092
 Office: 770-263-9118 | Direct: 678-966-6632
kmcory@mbakerintl.com | www.mbakerial.com

From: Cemprola, Danielle
Sent: Wednesday, July 06, 2016 2:56 PM
To: Ruhsam, Bill <Bill.Ruhsam@mbakerintl.com>
Subject: US 17 Traffic

Hi Bill,

We are in the process of updating an EA for the widening of US 17 in Jasper County, SC, and there is some new traffic information that we need to include. I was able to pull the latest traffic data and calculate the LOS for the design years (based on the capacity numbers included in the EA) thanks to the help of Google, but I have not been able to figure out how to calculate the HCM using the K and D factors. Is this something you can provide guidance on or do quickly? I know you're incredibly busy but I am no traffic engineer and Google has taken me as far as I can go. The table that needs to be updated is Table 1.2 on page 1-6, just the highlighted columns. Please let me know if you have any questions (and also if I did the LOS wrong on the other columns)!

Thanks,
 Danielle

Danielle Cemprola | Environmental Specialist | Michael Baker International
 101 N Main St, Suite 810 | Greenville, SC 29601 | [O] 864-670-2747 | [M] 803-727-0698
danielle.cemprola@mbakerintl.com | www.mbakerial.com





Traffic Projection Request for JASPER US-17 N Main Line (27020001700N) from Milepost 5.31 to 0.00

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General

Created by NTS\LongCC on 3/3/2016 10:43 AM

Base Year: 2020

Future Year: 2040

Roadwork Type: Widening

Comments:

Traffic Projections

	Year	ADT	LOS
Present	2015	17,700	
Base	2020	18,700	
Mid	2030	21,000	
Design	2040	23,300	

Number of Lanes: 0

Comments:

