

February 15, 2023

Brian Adams  
APEX Architecture, PC  
104 Lincoln Avenue, Suite 160  
P.O. Box 771787  
Steamboat Springs, CO 80477

RE: Updated weekday trip generation for Steamboat Christian Center

Dear Brian:

At your request I have reviewed the potential weekday trip generation of the proposed Steamboat Christian Academy K - 8<sup>th</sup> grade school to be operated in the Steamboat Christian Center at 821 Dougherty Road in Steamboat Springs. As you know, I had prepared a Traffic Impact Study for the Steamboat Christian Center when it was expanded in 2009. At that time, the anticipated weekday use was a daycare facility with seven staff members. It is my understanding that the current school proposal is to have up to 75 students and a staff of seven teachers within the confines of the existing buildings on site. Comparing the previous daycare proposal to the current church school proposal I offer the following:

- The previously anticipated daycare use was projected to generate 35 trips (19 in and 16 out) during the AM peak hour, and 35 trips (16 in and 19 out) during the PM peak hour. These trips would likely have been made during the AM and PM peak traffic hours of the day on the adjacent roadways as parents would have typically dropped off and picked up their children while traveling to and from work.
- It is my understanding that the proposed school schedule will be from 8:45 AM until 2:15 PM, and students would arrive just before and depart just after these times. As a result, the peak school access trips would be after the typical AM peak hour (7:30 – 8:30 AM) and before the typical PM peak hour (4:30 -5:30 PM) of the adjacent roadways. Therefore, the school access traffic would be “off-peak” with respect to the weekday traffic on adjacent roadways.
- School representatives have projected an average student auto occupancy of 2.5 students per vehicle (siblings and/or car pools) resulting in 30 inbound and 30 outbound vehicle trips during these peak school access periods. The seven staff members would arrive before the students in the morning and depart after the students in the afternoon. This estimate of school access traffic is actually higher than the anticipated school access traffic if one were to use Institute of Transportation Engineers trip generation rates for K – 8 schools. In this context the school estimate is conservatively high from a traffic perspective.

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- The previous traffic study had projected that the intersection of US 40 and Dougherty Road would operate comfortably in the future during the AM and PM peak hours with the expanded church traffic on weekdays.
  - Given that the majority of the proposed school traffic will be outside of the peak hours of the day, I anticipate that the intersection of US 40 and Dougherty Road will operate comfortably with a very good level of service during peak school access times with the existing stop sign control on Dougherty Road.

I hope this information is helpful. Please let me know if you have any questions.

Sincerely,  
Fox Tuttle Transportation Group, LLC

A handwritten signature in black ink, appearing to read "William C. Fox". The signature is fluid and cursive, with a large initial "W" and "C" and a stylized "F".

William C. Fox, P.E.  
Principal