



www.dci-engineers.com

Seattle
Portland
Spokane
San Diego
Austin
Irvine
Eugene
San Francisco



April 9, 2015

City of Spokane, Traffic Department
Attn: Patty Kells
808 W. Spokane Falls Blvd
Spokane, WA 99201

Re: Trip Generation & Distribution Letter for the proposed **Eagle Ridge Temporary Fire Station**

Dear Ms. Kells,

The City of Spokane Fire Department is currently working on establishing a new fire station on Cheney/Spokane Road just west of the new Highway 195 Cheney/Spokane Road interchange. Prior to and during the construction process the City of Spokane Fire Department plans to open a temporary fire station located at 115 West Eagle Ridge Boulevard (see attached vicinity map). DCI Engineers understands that the City of Spokane requires a trip generation and distribution letter for the proposed temporary fire station. This letter is intended to satisfy this requirement.

Summary:

Based on information provided by the City of Spokane Fire Department it is anticipated that the site will generate seven AM Peak Hour Trips. The AM Peak Hour was selected since this is when the shift change occurs. No ITE *Trip Generation Manual* data is available for this land use.

Trip Generation Summary:

The 9th Edition of the ITE's *Trip Generation Manual* does not include data related to fire stations. Therefore the trip generation is based on information obtained from the City of Spokane Fire Department. The temporary fire station will consist of an existing home to house a small first response vehicle. The temporary station will be staffed by three fire fighters and is slated for occupation in 2015.

The City of Spokane Fire Department currently services this area from fire stations located in the downtown area. The fire station will serve the southwest corner of the City of Spokane with increased response times. The service area is primarily south of Interstate 90 and west of Highway 195. According to the City of Spokane Fire Department the current call volume is approximately 333 calls per year in 2014 and is projected to grow to 421 calls per year by 2020. A map of the call area showing call locations from 2013 is attached to this letter.

The primary number of trips for the fire station will occur when the 24 hour shift change occurs between approximately 7:30 and 8:30 in the morning each day. At this point in the day 3 new fire fighters will arrive and 3 fire fighters will leave. During the remainder of the day the primary trips will generally be a fire truck responding to calls and occasional visits from administrative staff located in the downtown area. Based on this information it was determined that the AM Peak Hour should be used in this trip generation and distribution letter.

Since the call volume in this area is generally low and would not regularly occur during the AM Peak Hour, the call volume component of the trip generation is considered insignificant. To be conservative we added in one morning trip for administrative staff from the downtown area to the fire station. Based on this information the following trip generation was calculated (see attached):

Land Use: Fire Station

- Weekday, AM Peak Hour, Generally 7:30-8:30 AM
 - Average vehicles trip ends (7 trips total)
 - 57% IN, 4 trips
 - 43% OUT, 3 trips

Trip Distribution and Assignment:

This letter includes a figure that shows the estimated trip distribution and trip assignments generated by the proposed fire station for the AM Peak Hour.

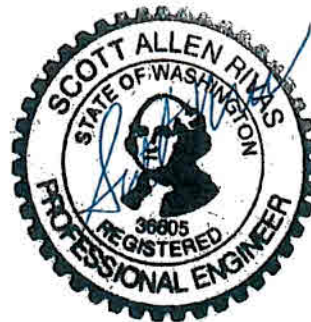
Traffic to the site enters and exits directly onto Eagle Ridge Boulevard. We believe that the trips will be fairly consistent in the directions they are coming and going with most of the traffic coming from Spokane to the north.

If you have any questions, please don't hesitate to contact me at 509-455-4448.

Sincerely,
DCI Engineers Inc.



Scott Rivas, P.E.
Senior Project Manager



VT C I N U I T Y M A P



le Ridge Blvd

S Meadow L

S Summerwood St

W Trail Ridge Ct

W Eagle Ridge Blvd

S Meadow Lane Rd



Project Location

W Eagle Ridge Blvd

W Bristol Ave

W Bristol Ave

S Bernard St

S Division St

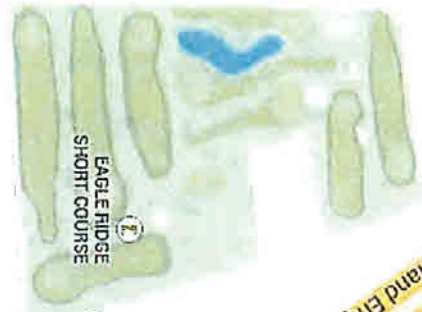
S Summerwood St

S Chicha Ct

W Talon Dr

W Turner Ave

S Meadow Lane Rd



EAGLE RIDGE SHORT COURSE



S Inland Empire Way

S Inland Empire Way

S Inland Empire Way

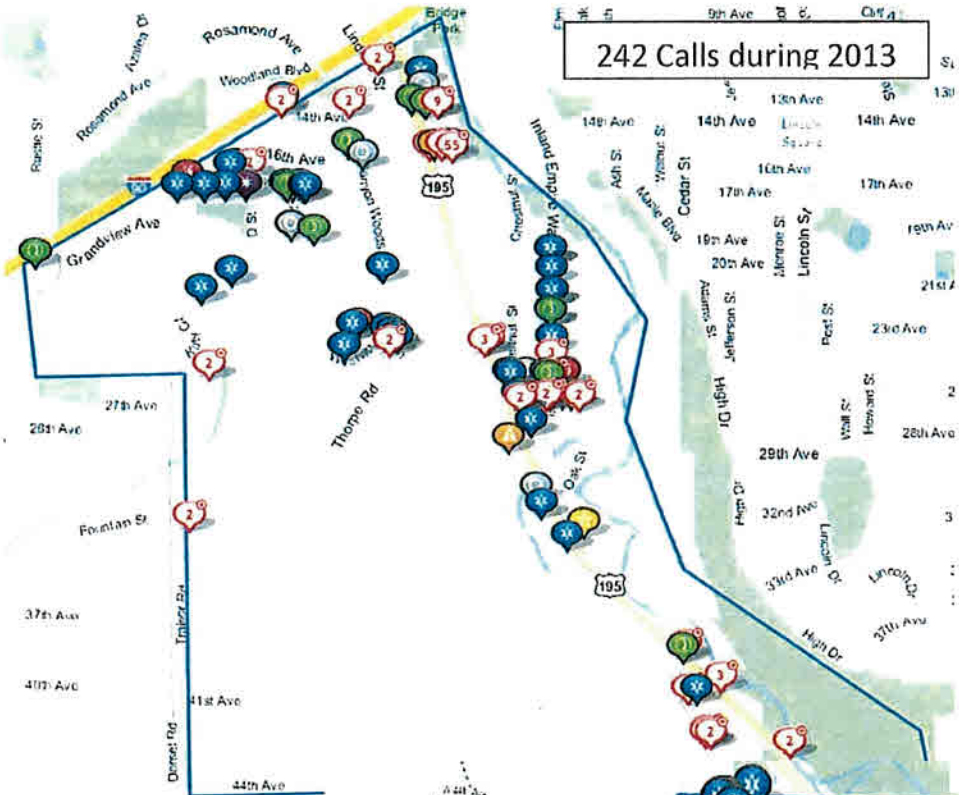
S Meadow View Ln

E Meadowlane Rd

Wedge Ct

W View Ln

242 Calls during 2013



91 Calls during 2013

