

## Memorandum

April 25, 2023 Project# 27308

To: Doug Rux, Brett Musick & Kaaren Hoffman, City of Newberg

> Ana Bozich& Mike Robinson, Pahlisch Homes Mimi Doukas, AKS Forestry & Engineering

Julia Kuhn and Chris Brehmer From:

RE: Collina at Springbrook – Proportionate Share Contributions

As a follow-up to our April 17, 2023 transportation addendum, this memo provides the proportionate share calculations at the N Springbrook Road/E Haworth Avenue intersection.

As documented in our previous memos regarding the Collina Subdivision, proportionate share contributions toward intersection signalization and left-turn lanes on E Haworth Avenue are required prior to occupancy of the subdivision. As documented in our October 2022 memo, 15 percent of the trips from the Collina Subdivision are estimated to travel through this intersection (i.e., 42 weekday AM trips and 57 weekday PM trips).

In response to City comments, we collected weekday AM and PM peak hour counts at this intersection in April 2023 for the purposes of the proportionate share calculations. The traffic counts are included in Appendix A of this memo.

Using these counts, the proportionate share contribution would be:

- Cost of Signal per City TSP Project 109 = \$400,000 for signal and left-turn lanes
- Total AM Volumes entering intersection in 2023 = 1,013 vehicles
- Total PM Volumes entering intersection in 2023 = 1,386 vehicles
- Contribution of Collina AM Volumes / Total Entering Volume with Collina = 42 / (1,013 + 42) = 3.98
- Contribution of Collina PM Volumes / Total Entering Volume with Collina = 57 / (1,386 + 57) = 3.95 percent
- Most significant impact is in AM peak = \$400,000 × 3.98 percent = approximately \$15,924

Based on these calculations, the proportionate share contributions would be \$15,924 for the Collina Subdivision impacts at the N Springbrook Road/E Haworth Avenue intersection.

Please let us know if you have any questions as you are reviewing our materials.

Appendix A Year 2023 Traffic Counts LOCATION: N Springbrook Rd -- Haworth Ave/Springbrook Plaza Access QC JOB #: 16165501 CITY/STATE: Newberg, OR **DATE: Tue, Apr 18 2023** Peak-Hour: 7:50 AM -- 8:50 AM 5.4 Peak 15-Min: 8:25 AM -- 8:40 AM 7.1 1.9 **4** 0 **\*** 138 🕳 53 Ω 16 0.87 270 → 190 → **f** 37 → 56 4.4 → 6.3 3 c 2.7 → 1.8 10.3 6.8 . **♠** 7.3 DATA THAT DRIVES COMMUNITIES 0 🖈 **€** 0 0 7 **•** 0 N/A N/A Haworth Ave/Springbrook Haworth Ave/Springbrook N Springbrook Rd N Springbrook Rd 5-Min Count Period Plaza Access Plaza Access Hourly Totals (Northbound) (Southbound) Total (Eastbound) (Westbound) Beginning At Left U Left U Left U Left Thru Right Thru Right Thru Right Thru Right 7:00 AM 3 Ō 7:05 AM 7:10 AM Ō 7:15 AM 7:20 AM 7:25 AM 7:30 AM 7:35 AM 7:40 AM 7:45 AM 7:50 AM 7:55 AM 8:00 AM 5 5 6 8:05 AM 8:10 AM 8:15 AM 8:20 AM 8:25 AM 8:30 AM 8:40 AM 8:45 AM 8:50 AM 8:55 AM Westbound Peak 15-Min Flowrates Northbound Southbound Eastbound Total U U U U Left Thru Right Left Thru Right Left Thru Right Left Right Thru All Vehicles 0 0 **Heavy Trucks** Buses Pedestrians O Bicycles Scooters Comments: