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MEMORANDUM

TO: Mr. Jeffrey S. Dirk, P.E.
Vanasse & Associates inc.

CC: David Cabral, Superintendent of Public Works
John Aubin, Town Planner

FROM: Anna M. Novo
Sr. Traffic/Transportation Project Engineer

DATE: August 12, 2021

SUBJECT: Greenbrier Phase II Residential Development Project
Seekonk, MA

RE: Proposed Scope of Traffic Study for Proposed Development

Following is an outline of our recommended "Traffic Impact Study Scope of Work" for the subject project.

General

The Traffic Impact Study will include the following typical items:

- Project description (will also include a summary of the work to be constructed prior to the completion of this project as part of the requirements set in the EIR Certificate for the Greenbrier Phase I project).
- Study Area (the proposed limits of study include intersection of Fall River Avenue/County Street south to the I-195 ramps intersections, and Cole Street from Fall River Avenue to 200 feet southeasterly of Springhouse Trail intersection)
- Data Collection and Analyses as follows:

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Data Collection Efforts:

The following counts were obtained in October 2020.

- 48-hr ATR counts were obtained at four separate locations (shown in the attached map in blue letters) Tuesday 10/20/2020 and Wednesday 10/21/2020. The counts provided traffic volume, vehicle classification and speed data. The count locations are listed below:
 - Fall River Avenue (Between County Street and Perry Avenue) – Label A
 - Fall River Avenue (Between Arcade Avenue and Clarke Street) – Label B
 - Fall River Avenue (Between the I-195 Ramps) – Label C
 - County Street (East of Mill Road) – Label D
- Additionally, we obtained manual turning movement counts (TMCs) (shown in the attached map in red letters) on Tuesday 10/20/2020. These counts also provided traffic and pedestrian volumes as well as, vehicle classification (including bicycles) at the following intersections:
 1. Fall River Avenue & Greenbrier Driveway from 6:30 am to 6:30 pm (12-hr count) – Label A
 2. Fall River Avenue & Cole Street from 6:30 am to 6:30 pm (12-hr count) – Label B
 3. County Street & Howland Street/Mill Road from 7:00 am to 11:00 am and 2:00 pm to 6:00 pm (8-hr count) – Label C
 4. Cole Street & Springhouse Trail from 7:00 am to 11:00 am and 2:00 pm to 6:00 pm (8-hr count) – Label D
- Since the traffic/pedestrian data was obtained last October during the COVID-19 pandemic restrictions, we recommend obtaining new 48-hr ATR counts at two of the locations previously counted (A & C) and adjust the remaining two ATR counts (B & D) accordingly. The new count will also provide information on speed and vehicle classification.
- Furthermore, we will obtain a new 12-hour TMC at the intersection of Cole Street and Fall River Avenue, and peak-hour counts at the intersection of Cole Street and Springhouse Trail, and the intersections of Fall River Avenue at County Street, Greenbrier Driveway and at the I-195 Ramps.

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Analyses:

The following analyses and evaluations will be conducted for this study.

- Safety analysis (Intersections of Fall River Avenue at Greenbrier Driveway and at Cole Street)
 - Peak Hours Delay Study (Intersection of Fall River Ave at Cole Street and at Greenbrier Driveway)
 - Signal Warrant Evaluation (Intersection of Fall River Ave at Cole Street)
 - Capacity Analyses and queue evaluations (Existing, Fut. No-Build, and Fut. Build Conditions)
 - Evaluate sight distance and geometric characteristics, including available ROW of Cole Street in the vicinity of the proposed site entrance. Identify sight distance requirements based on the roadway's 85th percentile speed, as well as the available sight distance at proposed driveway.
 - Evaluate pedestrian, bicycle, and transit accommodations
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- Develop trip generation rates for the proposed residential development, using latest ITE Trip Generation Manual, develop trip distribution and assignment based on current travel patterns, and present information in graphical format.
 - Develop future (7-year traffic projections) for No-Build and Build conditions and present data in graphical format. Future conditions will include additional vehicle trips anticipated to impact our project study area generated by other projects identified by the Town of Seekonk.
 - Evaluate site circulation, parking layout, pedestrian and bicycle circulation and connectivity to other pedestrian facilities.
 - Prepare a report that will address all the above items, identify potential impacts, if any, and proposed mitigation measures, if applicable.
 - Prepare a traffic circulation plan identifying the proposed site circulation, pedestrian, and bicycle facilities.