# BME ${ }^{\text {associates }}$ 

Engineers • Surveyors • Landscare Architects

February 9, 2024

Town Board
Town of Perinton
1350 Turk Hill Road
Fairport, New York 14450
Attn: Ciaran Hanna, Town Supervisor

| Re: | $\begin{array}{l}\text { Fellows Road Property-Aristo } \\ \\ \\ \\ \\ \\ \text { PDD Rezoning Application }\end{array}$ |
| :--- | :--- |
| T.A. $\# 140.04-1-44.1$ | 2729 |

Dear Supervisor Hanna:
On behalf of Aristo Properties, Inc., we are pleased to submit the enclosed Rezoning application for the above-referenced project. We request to appear at the Town Board's next available meeting to introduce this project, and have enclosed twelve (12) copies of the following application materials for your review:

- Letter of Intent
- Rezoning Application
- PDD Project Narrative
- PDD Fact Sheet
- Full EAF, Parts 1, 2, and 3
- Property Deeds (1 copy)
- Conventional Plan (BME dwg \#2729-01
- PDD Concept Site Plan (BME dwg \#2729-02
- PDD Concept Utility Plan (BME dwg \#2729-03
- Surrounding Neighborhoods Exhibit
- Rezoning Application Fee (\$400)

This proposal is for the rezoning of one (1) tax parcel totaling $\pm 32.2$ acres, which is situated at the northeast corner of Fellows Road and Furman Road from Residential Transition (RT-1.2.5) to Residential Planned Development District (PDD). Aristo Properties proposes 57 for-sale residential units with a mix of single-family homes, patio homes and condominium units. The proposal represents a density of 1.77 units/acre.

The enclosed materials outline the proposed development. The PDD Project Narrative presents the information as required per Chapter 208-52 of the Town Code, including the project's purpose of meeting the goals of the Town of Perinton's 2021 Comprehensive Plan.

The 2021 Comprehensive Plan identifies the subject parcels as being suitable for Medium Density Residential Development. The Comprehensive Plan also states these areas, because of their access to available infrastructure, are suitable for the density which will address current housing needs within the Town of Perinton. The proposed density of 1.77 units/acre is commensurate with Residential B zoning in the Town, and consistent with medium density development standards. The proposal also provides a mix of housing to offer variety in housing types and price points; both of which are stated goals within the Comprehensive Plan

Pursuant with Town Code §208-52.E.(1)(a)[3], we respectfully request that the Town Board accept this application and schedule this matter for a public hearing. Following the public hearing we request that the Town Board refer the proposed PDD rezoning applications to the Town Planning Board and Conservation Board for review and recommendation, and also to the Monroe County Planning Board for their 239-M referral.

The proposal is a Type 1 action pursuant to SEQRA, and we request that the Town Board declare their intent to be lead agency for the coordinated review. The completed Full EAF is provided for your use. As described in the PDD Project Narrative, the EAF has been prepared for both the Aristo Properties proposal and the adjoining Pride Mark Homes proposal (application submitted separately) to allow the Town Board, as lead agency to conduct a comprehensive coordinated SEQRA process.

Please review and contact our office with any questions in advance of the next available Town Board meeting.

Thank you,
Sincerely,
BME Associates

## Peter G Vars

Peter G. Vars, P.E.
/PGV

Encl.
c: Stacey Haralambides; Aristo Properties, Inc. Jennifer Townsend; Aristo Properties, Inc.


## TOWN OF PERINTON

1350 TURK HILL ROAD. FAIRPORT, NEW YORK 14450-8796
(585) 223-0770, Fax: (585) 223-3629, www.perinton.org

NUMBER $\qquad$ FEE \$ \$400
(verify fee with staff)

## MEETING DATE

$\qquad$

## APPLICATION FORM - REZONING - TOWN BOARD

See attached instructions/requirements/procedures

## 1. APPLICANT

Name
Aristo Properties, Inc. Phone (585) 223-2550
Street \& Number 339 Hogan Road _City_Fairport Zip 14450 Interest in Property: $\qquad$ Owner $\qquad$ Lessee $\qquad$ Other $\qquad$
2. OWNER (if other than applicant)

Name $\qquad$ Phone $\qquad$
Street\& Number $\qquad$ City $\qquad$ Zip $\qquad$
3. ATTORNEY (If represented)

Name $\qquad$ Phone $\qquad$
Street\& Number $\qquad$ City $\qquad$ Zip $\qquad$
4. INTEREST: Does any officer or employee of the State of New York, County of Monroe, or Town of Perinton have any interest in the owner/applicant or the subject property?

Yes $\qquad$ No $\qquad$ Explain INTEREST $\qquad$
If yes, who? Name $\qquad$ Address $\qquad$
5. LOCATION: Street Address or Legal Description (subdivision and lot number)

Fellows Road (T.A. Number 140.04-1-44.1)
6. SIZE OF PARCEL
7. PRESENT USE OF PROPERTY: Vacant land
8. ZONING DISTRICT: RT-1.2.5 TAX ACCOUNT\#_See \#5 Above
9. Describe specifically the nature of your request Rezone the property to Planned Development District (PDD) for a proposed 57-unit, mixed used residential development. A summary of the proposed residential PDD is as follows: 19 patio homes, 10 single-family homes, 28 condominium units.
10. Describe the location, use and size of structures and other land use within 100 feet of the boundaries of the subject property West: single-family lots along Fellows Road

North: vacant parcel
East: single-family lots and agricultural uses along Huber Road.
South: single-family lots along Furman Road
11. The criteria used by the Town Board of the Town of Perinton are set forth in Section 265 of the Town Law.
A. You must show that your proposal will be in harmony with the general purpose and intent of the Zoning Ordinance of the Town of Perinton, considering the location, the nature and intensity of the operations involved in or conducted in connection with it, and the size of the subject property with respect to the streets giving access to the subject property.
Will your proposed use be detrimental to the neighborhood due to Location? NO__ YES_ $\qquad$ $\left.\begin{array}{llll}\text { The nature or magnitude of use? } & \text { NO } & \checkmark & \\ \begin{array}{lll}\text { Inadequate access to property? } & \text { NO } & \checkmark\end{array} & \text { YES }\end{array}\right]$

If yes to any of above, explain how it will be detrimental. If effect can be lessened in some manner, explain how: $\qquad$
B. Will your proposed use tend to depreciate adjacent property or alter or be detrimental to the character of the neighborhood? NO $\qquad$ YES $\qquad$
If yes, explain how it will be detrimental. If effect can be lessened in some manner, explain how:
C. Will your proposed use create a hazard to health, or the general welfare of the neighborhood or significantly alter the flow of traffic? NO $\qquad$ YES $\qquad$

If yes, explain how. If effect can be lessened in some manner, explain how. $\qquad$
$\qquad$ -
$\qquad$
$\qquad$
12. You must show that your proposal will be in harmony with the general purpose and intent of the Comprehensive Plan of the Town of Perinton. Please provide a brief narrative that describes to relation of the proposal to the most recent update of the comprehensive plan.
See enclosed Letter of Intent and Project Narrative for the proposed residential PDD Development

I certify that the information supplied on this application is complete and accurate, and that the project described, if approved, will be completed and the premises used as stipulated in this request.


## Property Owner (If other than applicant)

I have read and familiarized myself with the contents of this application and do hereby consent to its submission and processing.

Signature of property owner $\qquad$ Date $\qquad$

## Printed Name of property owner

$\qquad$

## 3/23/19

# Fellows Road Properties PDD-Planned Development District Project Narrative 

## I. Introduction

The enclosed materials constitute the re-zoning applications to the Perinton Town Board for two separate residential developments proposed for the Fellows Road corridor, north of Furman Road in the Town of Perinton. The two applicants, Aristo Properties Inc., and Pride Mark Homes are requesting the rezoning of lands from Residential Transition (RT-1.2.5) to Residential Planned Development District (PDD) under Town Code §208-52 (hereinafter, "the proposed PDD").

The two projects are proposed by two well respected developers with a history of many successful projects being completed within the Town of Perinton community. The Pride Mark Homes project will consist of four tax parcels totaling $\pm 63.1$ acres, which are situated on the east side of Fellows Road, immediately south of the Perinton/Penfield municipal boundary. The Pride Mark properties owned or under option consist of:

- 250 Fellows Road (T.A. \#140.04-1-39): $\pm 24.59$ acres
- Fellows Road (T.A. \#140.04-1-40): $\pm 0.52$ acres
- 200 Fellows Road (T.A. \#140.04-1-4): $\pm 30.88$ acres
- Fellows Road (T.A. \#140.04-1-7): $\pm 7.12$ acres

Aristo Development, Inc. owns the southernmost parcel at the northeast corner of Fellows Road and Furman Road, known as the Peters property, a single tax parcel totaling $\pm 32.2$ acres.

- Fellows Road (T.A. \#140.04-1-44.1): $\pm 32.19$ acres

Pride Mark Homes and Aristo Development will apply and develop their separate projects independent from one another. However, at the request of the Town, the developers have been mutually planning their developments to allow for these
adjoining properties to be planned via a wholistic approach for access, street layout, utility routes, and adjoining land uses between their two proposed developments. Additionally, the two applications are provided to the Town of Perinton at the same time to allow the Town to consider the merits of rezoning of this Fellows Road corridor and SEQR considerations.

This corridor of the proposed PDD is designated within the 2021 Town of Perinton Comprehensive Plan's Future Land Use goals as a Medium Density Residential use area. The proposed PDD seeks to satisfy this stated goal by building a diverse mix of medium density housing in this corridor. As such, the proposed medium density PDD complies with the Comprehensive Plan goals. In addition, it is worth noting that the subject parcels represent the totality of the tax parcels referenced in the Comprehensive Plan for consideration for Medium Density Residential development in this area of the Town.

The 2021 Comprehensive Plan Update identifies that the Town is facing a residential housing shortage:

## Comprehensive Plan, page 14 (Demographics):

"Overall, the housing market in Perinton is facing a shortage, where high occupancy rates and a limited supply keep housing costs high and act as a barrier to entry for younger families and those on a fixed income. Introducing multifamily units into the market would help expand and diversify supply by creating new housing types and price range options that can appeal to a broader range of potential residents."

## Comprehensive Plan, page 14 (Key Findings):

"Recent residential construction trends in Perinton show increasing construction of Ranch style houses and Townhomes. These options appeal to older residents who are looking to downsize and may also help to retain and attract new families and younger homeowners and renters."

## Comprehensive Plan, page 14 (Key Findings):

"The Town should continue to diversify its housing stock to ensure that Perinton is a livable community for all."

This application presents how the proposed PDD meets several of the goals identified in the Comprehensive Plan for the Town of Perinton. This application also identifies how the proposed PDD strictly adheres to the Future Land Use Plan recommendations identified within the Comprehensive Plan for the subject properties to be developed as a Medium Density Residential community.

## II. Existing Conditions/Description of Site

As mentioned above, the Fellows Road Properties represent five (5) individual parcels totaling $\pm 95.3$ acres, which are located along the east side of Fellows Road and along the north side of Furman Road. All of the parcels represent vacant, dormant properties which are currently zoned Residential Transition RT-1.2.5, which allows for residential single-family residential lots with a minimum area of 1.0 acres. The vacant lots contain wooded areas, open meadow areas, and steep slope LDD and wetland LDD areas. The proposed PDD will utilize cluster design principles to avoid the mapped LDD areas to the maximum extent practicable.

## III. Description of Proposed Project

The proposed PDD shows 228 residential units via a mixture of single-family homes, patio homes, townhomes and condominium units. The proposed overall density of the PDD is 2.39 units/acre, which is well within the accepted density limits for a Medium Density Residential, which as stated above, is the Comprehensive Plan's recommendation for the future land use of the subject parcels. An overall density of 2.39 units/acre is comparable to the density in the Residential B zoned development that is located in close proximity to the subject parcels, such as the Cambridge Court townhome development off Fellows Road to the south.

Refer to Section III.B. below for a breakdown of the proposed units and market demographics.

## A. Appearance/Visibility

The proposed PDD will maintain the existing vegetation buffers along Furman Road and Fellows Road to the maximum extent practicable. For example, Aristo's parcel on Furman Road contains a very large existing wooded/wetland buffer along the property frontage that will be left untouched and therefore will significantly reduce the visibility of the development from Furman Road, and partially from Fellows Road as well. In addition, the layout will preserve the existing road corridors along Fellows and Furman Road, with no rear yard exposure to the two road corridors. The lots along Fellows Road will be consistent with the neighboring properties, current development patterns along the road, and will be similar lot sizes.

Enclosed with this application is a Surrounding Neighborhoods Exhibit which also includes the zoning districts of the surrounding residential neighborhoods. The Surrounding Neighborhoods Exhibit shows that the scale of the proposed PDD is not out of context with the surrounding residential neighborhoods which include the townhomes off Whitney Road. As such, the scale of the proposed PDD has been designed to be consistent with the neighboring Residential B zoning densities.

Also enclosed with this application are Aristo and Pride Mark Exhibits describing the design of the residential units, demographic breakdown, amenities, and other related information specific to each project (hereinafter, Aristo Exhibit and Pride Mark Exhibit).

## B. Unit Breakdown/Market Demographics

The proposed unit breakdown between the Pride Mark Homes portion and the Aristo portion of the Fellows Road Properties is as follows:

Pride Mark Homes parcels ( $\pm 63.1$ acres):
26 Single-family homes
55 Patio homes
90 Townhome units
$=171$ total residential units @ 2.71 units/acre

Aristo parcel ( $\pm 32.2$ acres):
10 Single-family homes
19 Patio homes
28 Condominium units
= 57 total residential units @ 1.77 units/acre

## C. Amenities

The proposed development will be served internally via a public concrete sidewalk system to allow for pedestrian use and serve as an active amenity available for use by the residents of the community.

For project specific amenities, please reference the Aristo and Pride Mark Exhibits.

## D. Access \& Parking

Access to the Fellows Road Properties will be provided via one (1) access off Furman Road from the south and one (1) access point off Fellows Road from the west. Both access points to the development are proposed to be public roadways which will be designed per Town development standards and offered in dedication to the Town of Perinton. The Pride Mark portion of the development is proposed to be served entirely by public roadways, while the Aristo portion of the development is proposed to be served by a public road and also a combination of private roads and private driveways serving patio home lots and the condominium structures.

The Aristo condominium structures will include a combination of internal garage parking spaces as well as exterior parking spaces to meet the needs of the residents and their guests. All exterior parking spaces will meet the requirements of §208-16 "Off-street parking and loading" of the Town Code.

A Traffic Impact Report has been completed for the proposed PDD. The Traffic Impact Report has been provided to the Town under separate cover.

## E. Utilities

The proposed PDD will be served by public water provided by the Monroe County Water Authority (MCWA). The properties will be served via a looped public watermain system with one (1) connection proposed to the existing 12" MCWA watermain located along Furman Road and one (1) connection proposed to the existing 8 " MCWA watermain located along Fellows Road.

The proposed PDD will be served via public sanitary sewers to be offered into dedication to the Town of Perinton via an internal 8" PVC gravity sanitary sewer system with a proposed connection to the existing Town of Perinton sanitary pump station located along the north side of Furman Road.

The proposed PDD will be served by the Fairport Municipal Commission (electric) and Rochester Gas \& Electric (gas).

The subject parcels were designated for Medium Density given the infrastructure that is already in place, including sewer and water. It should be noted that the proposed PDD does not require an extension of infrastructure, nor will it encourage future spread of the infrastructure.

## F. Drainage and Stormwater Management

Stormwater runoff will be analyzed as part of a comprehensive stormwater management plan that will be developed per the Town of Perinton Code Design
and Construction Standards and the regulations set forth by the New York State Department of Environmental Conservation (NYSDEC) and its SPDES General Permit GP-0-20-001. Stormwater management facilities will be designed and constructed on-site to provide the required water quality and water quantity volumes and to discharge the post-development runoff at peak runoff rates below the pre-development peak runoff rates as required per Town Code and NYSDEC guidelines.

The proposed PDD will also include runoff reduction volume (RRv) or "green infrastructure" design elements to treat the first-flush or 1" rain event. It is anticipated that bio-retention area(s) and disconnection of rooftops will be utilized to provide the required green infrastructure water quality volume \& RRv requirements. The final design will include calculations and a detailed analysis of the stormwater management design.

## G. Easements

The proposed sanitary sewer system and storm sewer system will be offered in dedication to the Town of Perinton. Easements will be provided as necessary for the sanitary sewer and storm sewer alignments. Easements will also be provided to the Town for the proposed stormwater management areas.

## H. Recreation/Open Space

As mentioned above, the proposed development will be served internally via a public concrete sidewalk system to allow for pedestrian use and serve as an active amenity available for use by the residents of the community.

The PDD has been designed to avoid the existing LDD/wetland areas to the maximum extent practicable. Open space areas are proposed to protect the LDD/wetland areas, which in turn preserve the natural habitat and wildlife
corridors. The use of open space areas is also a common clustering technique which places the residential lots on lands suitable for development. The use of open space creates internal buffers between the residential neighborhoods. The proposed open space areas also preserve the existing natural road corridors along Furman Road and Fellows Road. The proposed development along Fellows Road will mimic the existing frontage development of similar size lots, with no rear yard exposure being proposed to Fellows Road or Furman Road.

For project specific amenities, please reference the Aristo and Pride Mark Exhibits.

## IV. PDD Code Requirement Analysis

## A. Intent

Town Code §208-52.A(1): "The intent of this district is to permit the development of land for specialized purposes where tracts of land suitable in location, area and character for the uses and structures proposed are to be planned and developed on a unified basis. Suitability of land proposed for such development shall be guided by the Comprehensive Plan, other plans and official policies used to guide development in the Town, and the existing and prospective character of surrounding land uses. The application of a planned development district shall result in development with certain advantages over that which would be obtained under conventional zoning; result in the preservation and enhancement of the natural, cultural or historic features of the site; result in land uses and physical site arrangements which are not contemplated under conventional zoning but which would further the development goals of the Town; reduce improvement costs through more efficient arrangement of varied land uses, buildings, circulation systems and infrastructure; and result in the promotion of the general health, safety and welfare of the Town."

The proposed PDD meets the Future Land Use Plan (FLUP) recommendation within the Town's Comprehensives Plan for the Fellows Road Properties to be developed with Medium Density Residential uses. This proposal includes a walkable community with a desirable mixture of unit sizes and price points, consisting of single-family homes, patio homes, townhomes, and condo units.

## Comprehensive Plan, page 53 (Medium Density Residential):

"Over the past twenty years, the Town of Perinton has experienced an increase in demand for multi-family and higher density residential development. This was driven by several market forces including the increasing cost of land, a growing need for affordable family and senior housing options, the impacts of the Great Recession (2007-2009) on access to mortgages and consumer desire for lower maintenance living."
"Future development should consist of well-designed, walkable apartment communities, patio homes and townhomes within close proximity to services."

## B. Permitted Uses

Town Code §208-52.B(1): "Residential uses. In developing a balanced community, the use of a variety of housing types and densities shall be deemed most in keeping with this article."

The proposed PDD satisfies both the Town's need for additional housing types per this requirement and provides the recommended density as identified in the Comprehensive Plan for the subject parcels.

## C. Basic Requirements

Town Code §208-52.C(3): "The site shall be suitable for development in the manner proposed without hazards to persons or property, on or off the site, from probability of flooding, erosion, subsidence or slipping of the soil or other dangers, annoyances or inconveniences. Soil conditions, groundwater level, drainage and topography and other factors shall all be appropriate to support both the kind and pattern of the intended use."

The Fellows Road Properties are suitable for development in the manner proposed without hazards to persons or property. The NYSDEC EAF Mapper does not identify any floodplains or floodways on the subject properties. The majority of the site contains gentle slopes and preliminary soil testing indicates that the property is suitable for development in areas outside of the mapped steep slope LLD areas and wetland LDD areas. The development will be designed to avoid the mapped LDD areas to the maximum extent practicable.

Town Code §208-52.C(5): "The appropriate types of uses within the Planned Development District shall be guided by the Comprehensive Plan goals and objectives."

The proposed PDD meets the Future Land Use Plan (FLUP) recommendation within the Town's Comprehensives Plan for the Fellows Road Properties to be developed with Medium Density Residential uses. This proposal includes a walkable community with a desirable mixture of unit sizes and price points, consisting of single-family homes, patio homes, townhomes, and condo units.

## D. Design Standards

Town Code §208-52.D(1): "The Town of Perinton Design Criteria and Construction Specifications for land development are adopted herein by reference, and shall establish the standard for project design and construction as appropriate."

The proposed PDD will comply with the Town of Perinton Design Criteria and Construction Specifications for land development.

> Town Code §208-52.D(2): "Tract perimeter standards. All dimensional requirements of conventional zoning districts shall apply to the perimeter of planned development projects on the sides where said planned development project abuts a conventional zoning district; these shall include setbacks and buffering requirements."

The proposed PDD proposes setbacks which maintains the tract perimeter standards of the current conventional zoning district (RT-1.2.5) for the adjoining properties to the north and east. There are no buffer requirements within the underlying zoning district.

Town Code §208-52.D(3)(a): "Maximum building coverage shall not exceed 35\% of the total site or parcel area."

The proposed building coverage of $\pm 5 \%$ is well below the $35 \%$ threshold of the total site as identified in the Town Code.

Town Code §208-52.D(3)(b): "Maximum coverage by all buildings, structures, parking areas and impervious surfaces shall not exceed $65 \%$ of the total site or parcel area. "

The proposed impervious surface coverage of $\pm 20 \%$ is well below the $65 \%$ threshold of the total site as identified in the Town Code.

Town Code §208-52.D(3)(c): "Maximum building height shall be 40 feet, unless the Town Board finds that some greater height is reasonable and appropriate given the location of the development, the terrain involved and the nature of the development."

The maximum building height for all proposed residential structures will be less than the $40^{\prime}$ threshold as identified in the Town Code.

Town Code §208-52.D(3)(d): "Setbacks from public rights-of-way, private drives, structures and interior lot lines, etc., shall be proposed by the designer. The Town Board shall approve such setbacks, and these shall become binding upon the district."

See Section V below for the proposed lot standards.

Town Code §208-52.D(4): "Standards for off-street parking, loading and signs for planned development district uses shall be guided by those for equivalent or similar uses in conventional zoning districts, but may be modified to better achieve site development objectives, during the site plan and subdivision approval process. If the designer proposes a variation from these conventional standards, they shall be presented as part of the district and approved by the Town Board."

All proposed exterior parking spaces and their associated signage will meet the requirements of §208-16 "Off-street parking and loading" of the Town Code.

## E. Application Procedure

Town Code §208-52.E(1)(a)[2][a]: "Location and extent of all proposed land uses, with areas in acres, as well as any proposed open space, including the development guidelines proposed for setbacks, building size, lot coverage, parking, impervious surfaces and other similar land use restrictions found within the Zoning Code."

See the enclosed PDD rezoning concept plans for the information listed above. The proposed development guidelines and lot standards are listed below in Section V.

Town Code §208-52.E(1)(a)[2][b]: "All interior streets, roads, easements and their planned public or private ownership, as well as all points of ingress and egress from existing public rights-of-way."

See the enclosed PDD rezoning concept plans for the information listed above.

Town Code §208-52.E(1)(a)[2][c]: "An area map showing the applicant's entire holdings and adjacent properties; that portion of the applicant's property under consideration; all properties, subdivisions, streets, easements, watercourses, $L D D$ and other significant natural and built features within 500 feet of the applicant's property; and all uses and zoning of abutting lands."

See the enclosed PDD rezoning concept plans and surrounding area map for the information listed above.

Town Code §208-52.E(1)(a)[2][d]: "If residential in nature, description of the number of residential units, their dwelling type, number of stories, the overall architectural style and the overall density of the proposal. If nonresidential in nature, the number of stories, the range of building footprints, the total impervious surface, the architectural style and guidelines and the overall density of the proposal."

See Section III.B, above.

Town Code §208-52.E(1)(a)[2][e]: "The area water and sanitary sewer systems with proposed points of attachment to existing systems; the proposed stormwater drainage system and its relation to existing systems."

See Section III.E and Section III.F, above for a description of the proposed utilities \& drainage and stormwater management design.

Town Code §208-52.E(1)(a)[2][f]: "Description of the manner in which any common areas that are not to become publicly owned are to be maintained, including open space, streets, lighting and other considerations relevant to the proposal."

The lands and amenities provided around the proposed townhome units and condominium structures will be owned and maintained by a Homeowners Association (HOA) or a Condominium Owners Association (COA) accordingly.

Town Code §208-52.E(1)(a)[2][g]: "If the development is to be phased, a description and graphic representation of the phasing of the entire proposal in terms of length of time, type and number of units or activities completed per phase."

The Pride Mark Homes parcels and Aristo Development parcel will ultimately be phased separately and developed independently from one another. The final phasing within each developers' respective parcels of land is yet to be determined and will be provided as part of the future site plan applications.

Town Code §208-52.E(1)(a)[2][h]: "A description of any covenants, easements, restrictions proposed to be imposed upon the use of the land, buildings or structures, including proposed easements for public utilities. "

No covenants, easements or other restrictions are proposed at this time, other than the typical easements required by the Town (i.e. utility \& drainage, etc.).

Town Code §208-52.E(1)(a)[2][i]: "A written statement by the applicant setting forth the reasons why, in his or her opinion, the proposal would be in the public interest and would be consistent with the Town's goals and objectives."

The proposed residential PDD development meets several goals and objectives of the Town's Comprehensive Plan; thus, highlighting how the proposal is in the public interest.

## Comprehensive Plan, page 66 (Policy Area \#1 Land Use/Community Character):

 Goal \#1: "Protect the long-term viability of residential areas in the Town."This proposal addresses the need for new residential housing options. It allows for current residents to stay within the community they currently reside in, while also providing attractive housing options for potential residents seeking to relocate to the area. The property is currently zoned residential, and the surrounding area's predominate use is residential.

Goal \#2: "Encourage the development of a range of housing types enhancing access and choice to support a diverse and inclusive population."

This proposal meets this goal by providing a mixture of residential units of various uses, sizes and price points in a single area, thus providing variety in the planned neighborhood. The current availability of housing options in the Town of Perinton is minimal.

## Comprehensive Plan, page 66 (Encouraging Mixed-Use Development within the

 Town):"Market forces continue to drive demand for residential and supportive commercial uses. Accommodating future development will require greater focus on design since the majority of growth will likely be in the form of infill development and redevelopment. There is a distinct opportunity to create more compact, walkable mixed-use areas, similar to a village-style aesthetic."
"Through public engagement, it was apparent Perinton residents would like to see more diverse housing options at smaller scale and a range of price points. Ensuring land use regulations allow for, and facilitate, these types of housing products should be prioritized moving forward."

The proposed PDD meets the Comprehensive Plan's recommendation for the subject parcels to consist of Medium Density Residential use. This application includes a mix of units, on smaller lots and offers detached units, attached units and condominium style living opportunities.

## Comprehensive Plan, page 82 (Policy Area \#4 Environmental Stability):

Goal \# 3: "Continue to review the Town's zoning code and site plan review process to ensure regulations consider best practice standards to reduce stormwater runoff and erosion control."

This proposal meets this goal as the project will be designed to meet the NYSDEC Stormwater Management Design Manual Guidelines as well as the Town of Perinton's Design and Construction Standards. By adhering to the NYSDEC and Town of Perinton development guidelines, the project is poised to manage the post-development stormwater runoff condition and control erosion during construction by utilizing accepted Best Management Practices.

## V. Requested Area/Design Standards

See enclosed PDD rezoning concept plan for requested lot standards for the various residential uses proposed.

## VI. Conclusion

As described in this narrative, the proposed PDD meets several of the goals identified in the Comprehensive Plan for the Town of Perinton. This application also identifies how the proposed PDD strictly adheres to the Future Land Use Plan identified within the Comprehensive Plan, which specifically recommends that the subject properties be developed as a Medium Density Residential community. The proposed density within the development is also consistent with the surrounding Residential B neighborhoods.

## The Grove

Refreshing Design . Rooted in Tradition

## The Homes

The Estates (single family) Starting $\$ 700 \mathrm{k}$

- Custom designs \& Aristo standards
- Sitting high on the hill with expansive west-facing views
- Walk-out basements
- Lot sizes: approx. half acre +/-
- Tree-lined street with sidewalk

The Bungalows (single family) Starting $\$ 450 \mathrm{k}$

- Lot sizes: approx. $60^{\prime}$ wide x 150 ' deep
- Aristo curated designs \& standards
- Tree-lined street
- Homes ranging from $1,400 \mathrm{sf}-2,500 \mathrm{sf}$
- Less maintenance - HOA

Dwell Flats (multi-family) Starting \$390k

- Boutique condos
- Aristo curated building designs, floorplans, and standards
- Condo sizes: approx. 1,200 sf $-1,800$ sf
- See www.dwellbyaristo.com for this product on Jefferson Ave.
- Maintenance Free


## The Site

- Peters Pond
- Walking trails throughout The Preservation Wetlands
- Street trees in front of each home
- Pocket groves
- Sidewalk
- Streetlights
- Community Gardens with shed for tool-sharing
- Gathering vignettes throughout


## The Environment

- Where possible, vegetated areas will filter \& direct storm water naturally in lieu of piping.
- Native vegetation throughout common areas
- No broad use of chemical pesticides in community
- No existing tree removal for developed area.
- At least 40 large trees will be planted in the developed area (where no trees currently stand).
- Almost all existing vegetation will be preserved.


## Full Environmental Assessment Form <br> Part 1 - Project and Setting

## Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A \& B. In Sections C, D \& E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section $G$ requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

## A. Project and Applicant/Sponsor Information.

| Name of Action or Project: <br> Fellows Road Properties |  |  |
| :---: | :---: | :---: |
| Project Location (describe, and attach a general location map): |  |  |
| Brief Description of Proposed Action (include purpose or need): <br> The proposed action is for a rezoning application for two separate residentia in the Town of Perinton. The two applicants, Pride Mark Homes and Aristo P Transition (RT-1.2.5) to Residential Planned Development District (PDD) un EAF has been combined for the two separate proposed developments. <br> The Pride Mark Homes proposal (on 4 parcels of land) consists of 171 total townhome units on $\pm 63.1$ acres. The Aristo Properties proposal (on 1 parce single-family homes, and 28 condominium units on $\pm 32.2$ acres. | posed for requesting 08-52. For <br> cluding 55 of 57 total r | r, north of Furman R m Residential and SEQRA review, <br> mily homes, and 90 19 patio homes, 10 |
| Name of Applicant/Sponsor: <br> (1) Pride Mark Homes \& (2) Aristo Properties, Inc. | Telephon | 585-223-2550 |
| Address: ${ }^{\text {(1) } 1501 \text { Pittsford-Victor Road, Suite } 200}$ (2) 339 Hogan Road |  |  |
| City/PO: ${ }_{\text {(1) Victor }} 14564$ (2) Fairport 14450 | State: ${ }_{\text {NY }}$ | Zip Code: ${ }_{\text {See Left }}$ |
| Project Contact (if not same as sponsor, give name and title/role): | Telephon |  |
|  | E-Mail: |  |
| Address: |  |  |
| City/PO: | State: | Zip Code: |
| Property Owner (if not same as sponsor): | Telephone: |  |
|  | E-Mail: |  |
| Address: |  |  |
| City/PO: | State: | Zip Code: |

## B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

| Government Entity | If Yes: Identify Agency and Approval(s) Required | Application Date (Actual or projected) |
| :---: | :---: | :---: |
| a. City Counsel, Town Board, $\quad \square$ Yes $\square$ No or Village Board of Trustees | Perinton Town Board: Rezoning | February 2024 |
| b. City, Town or Village $\quad \square \mathrm{Yes} \square$ No Planning Board or Commission | Perinton Planning Board: Subdivision \& Site Plan Approval | Spring 2024 |
| c. City, Town or $\quad \square \mathrm{Yes} \square \mathrm{No}$ Village Zoning Board of Appeals |  |  |
| d. Other local agencies $\quad \square \mathrm{Yes} \square$ No |  |  |
| e. County agencies $\quad$ VYes $\square$ No | MCWA: Watermain, MCPW: Sanitary, MCDOH: Water/Sanitary, MCPD: County Planning Referral | Spring 2024 |
| f. Regional agencies $\square \mathrm{Yes} \square$ No |  |  |
| g. State agencies $\quad$ V $\mathrm{Yes} \square \mathrm{No}$ | NYSDEC: Water quality certification-wetland crossings, NYSDOT: Highway Improvements | Spring 2024 |
| h. Federal agencies $\quad$ Ø $\mathrm{Yes} \square$ No | USACE: Nationwide Permit-wetland crossings | Spring 2024 |
| i. Coastal Resources. <br> $i$. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? Yes [No <br> ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? $\square$ <br> iii. Is the project site within a Coastal Erosion Hazard Area? |  |  |

## C. Planning and Zoning

## C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the $\square$ Yes $\mathbf{\square}$ No only approval(s) which must be granted to enable the proposed action to proceed?

- If Yes, complete sections C, F and G.
- If No, proceed to question C. 2 and complete all remaining sections and questions in Part 1


## C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located?
If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action $\square \mathrm{Yes} \square \mathrm{No}$ would be located?
b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?)
If Yes, identify the plan(s):
NYS Heritage Areas:West Erie Canal Corridor
$\qquad$
$\qquad$
$\qquad$
c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, $\square$ Yes $\square$ No or an adopted municipal farmland protection plan?
If Yes, identify the plan(s):

| C.3. Zoning |  |
| :---: | :---: |
| a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. If Yes, what is the zoning classification(s) including any applicable overlay district? <br> Residential Transition RT-1.2.5 | $\square \mathrm{Yes} \square \mathrm{No}$ |
| b. Is the use permitted or allowed by a special or conditional use permit? | $\square \mathrm{Yes}$ \} { } ^ {  No  } |
| c. Is a zoning change requested as part of the proposed action? <br> If Yes, <br> $i$. What is the proposed new zoning for the site? <br> Planned Development District PDD | $\square \mathrm{Yes} \square$ No |
| C.4. Existing community services. |  |
| a. In what school district is the project site located? Fairport Central School District |  |
| b. What police or other public protection forces serve the project site? Monroe County Sheriff |  |
| c. Which fire protection and emergency medical services serve the project site? Fairport Fire Department, Perinton Ambulance |  |
| d. What parks serve the project site? Fellows Road Park |  |

## D. Project Details



| f. Does the project include new residential uses? If Yes, show numbers of units proposed. |  |  |  |  | $\square \mathrm{Y}$ es $\square$ No |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | One Family | Two Family | Three Family | Multiple Family (four or more) |  |
| Initial Phase | TBD | N/A | TBD | TBD |  |
| At completion <br> of all phases$\quad 110 \quad 42$ |  |  |  |  |  |
| g. Does the proposed action include new non-residential construction (including expansions)? <br> If Yes, <br> $i$. Total number of structures <br> ii. Dimensions (in feet) of largest proposed structure: $\qquad$ height; $\qquad$ width; and $\qquad$ length <br> iii. Approximate extent of building space to be heated or cooled: $\qquad$ square feet |  |  |  |  |  |
| h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? |  |  |  |  |  |
| ii. If a water impoundment, the principal source of the water: $\quad \square$ Ground water $\square$ Surface water streams $\square$ Other specify:Surface stormwater runoff. |  |  |  |  |  |
| iii. If other than water, identify the type of impounded/contained liquids and their source. N/A |  |  |  |  |  |
| iv. Approximate size of the proposed impoundment. Volume: $\qquad$ TBD million gallons; surface area: $\qquad$ TBD acres <br> Dimensions of the proposed dam or impounding structure: <br> TBD height; $\qquad$ TBD length <br> vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): <br> Earth Fill |  |  |  |  |  |

## D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? $\square$ Yes $\square$ No (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)
If Yes:
$i$.What is the purpose of the excavation or dredging?
ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards):
- Over what duration of time?
iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.
iv. Will there be onsite dewatering or processing of excavated materials? If yes, describe.
$v$. What is the total area to be dredged or excavated? $\qquad$
$v i$. What is the maximum area to be worked at any one time? $\qquad$
vii. What would be the maximum depth of excavation or dredging? $\qquad$ acres
viii. Will the excavation require blasting?
$i x$. Summarize site reclamation goals and plan: $\qquad$ feet $\square \mathrm{Yes} \square \mathrm{No}$
$\qquad$
b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment $\square$ Yes $\square$ No into any existing wetland, waterbody, shoreline, beach or adjacent area?
If Yes:
$i$. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): Proposed creek crossings for roads and utilities.
ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres: Fill associated with the proposed creek crossings as required for roads and utilities.
iii. Will the proposed action cause or result in disturbance to bottom sediments?
$\square$ Yes $\square$ No If Yes, describe:
$i v$. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? $\square$ Yes $\square$ No If Yes:
- acres of aquatic vegetation proposed to be removed:
- expected acreage of aquatic vegetation remaining after project completion:
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):
- proposed method of plant removal:
- if chemical/herbicide treatment will be used, specify product(s):
$v$. Describe any proposed reclamation/mitigation following disturbance:
Work to be completed per USACE Nationwide Permit (NWP) 29 for residential stream crossings.
c. Will the proposed action use, or create a new demand for water?

If Yes:
i. Total anticipated water usage/demand per day:

71,555 gallons/day
ii. Will the proposed action obtain water from an existing public water supply?
$\square \mathrm{Yes} \square$ No
If Yes:

- Name of district or service area: Monroe County Water Authority
- Does the existing public water supply have capacity to serve the proposal?
$\square \mathrm{Yes} \square$ No
- Is the project site in the existing district?
- Is expansion of the district needed?
- Do existing lines serve the project site?
iii. Will line extension within an existing district be necessary to supply the project?

If Yes:

- Describe extensions or capacity expansions proposed to serve this project:

Watermain extensions/connections will be incorporated from existing MCWA watermains located along Fellows Road and Furman Road

- Source(s) of supply for the district: Monroe County Water Authority
$i v$. Is a new water supply district or service area proposed to be formed to serve the project site? $\square$ Yes $\square$ No
If, Yes:
- Applicant/sponsor for new district:
- Date application submitted or anticipated:
- Proposed source(s) of supply for new district:
$v$. If a public water supply will not be used, describe plans to provide water supply for the project:
vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: $\qquad$ gallons/minute.
d. Will the proposed action generate liquid wastes?

If Yes:
i. Total anticipated liquid waste generation per day: $\qquad$
ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each):
Sanitary wastewater
iii. Will the proposed action use any existing public wastewater treatment facilities? If Yes:

- Name of wastewater treatment plant to be used: Frank E. VanLare Wastewater Treatment Facility
- Name of district: Perinton Consolidated Sewer District \& Irondequoit Bay Pure Waters District
- Does the existing wastewater treatment plant have capacity to serve the project?
- Is the project site in the existing district?
- Is expansion of the district needed?
- Do existing sewer lines serve the project site?

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7Yes}\square\mathrm{ No
- Will a line extension within an existing district be necessary to serve the project?

If Yes:
- Describe extensions or capacity expansions proposed to serve this project:

Proposed gravity sanitary sewer mains will be extended to serve the property, with a connection to the existing Town of Perinton sanitary pump station located on Furman Road.
\(i v\). Will a new wastewater (sewage) treatment district be formed to serve the project site?
If Yes:
- Applicant/sponsor for new district:
- Date application submitted or anticipated:
- What is the receiving water for the wastewater discharge?
\(v\). If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):
\(v i\). Describe any plans or designs to capture, recycle or reuse liquid waste:
e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction?
If Yes:
\(i\). How much impervious surface will the project create in relation to total size of project parcel?
___ Square feet or \(\pm 19.1\) acres (impervious surface) Square feet or \(\pm 95.3\) acres (parcel size)
ii. Describe types of new point sources. Surface runoff from proposed paved driveways, paved roadways and rooftops.
iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?
On-site stormwater management facilities.
- If to surface waters, identify receiving water bodies or wetlands:
- Will stormwater runoff flow to adjacent properties? \(\square\) Yes \(\square\) No
\(i v\). Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? \(\square\) Yes \(\square\) No
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel \(\square \mathrm{Yes} \square\) No combustion, waste incineration, or other processes or operations?
If Yes, identify:
\(i\). Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)
Temporary earth moving vehicles on the site during the grading operations/use of delivery vehicles to brings supplies to the site.
ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

N/A
iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation) N/A
g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, \(\square\) Yes \(\square\) No or Federal Clean Air Act Title IV or Title V Permit?

\section*{If Yes:}
\(i\). Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year)
ii. In addition to emissions as calculated in the application, the project will generate:
- _Tons/year (short tons) of Carbon Dioxide \(\left(\mathrm{CO}_{2}\right)\)
- Tons/year (short tons) of Nitrous Oxide \(\left(\mathrm{N}_{2} \mathrm{O}\right)\)
- Tons/year (short tons) of Perfluorocarbons (PFCs)
- Tons/year (short tons) of Sulfur Hexafluoride \(\left(\mathrm{SF}_{6}\right)\)
- Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _Tons/year (short tons) of Hazardous Air Pollutants (HAPs)
h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)?
If Yes:
\(i\). Estimate methane generation in tons/year (metric):
ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring):
. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations?
If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):
j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services?
If Yes:
\(i\). When is the peak traffic expected (Check all that apply): \(\square\) Morning \(\quad \square\) Evening \(\square\) Weekend \(\square\) Randomly between hours of \(\qquad\) to \(\qquad\) .
ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks):
iii. Parking spaces: Existing_ \(0 \quad\) Proposed _ 28 Net increase/decrease \(\quad 28\)
\(i v\). Does the proposed action include any shared use parking?
\(v\). If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: Improvements at Fellows Road/NYS Route 441; see Traffic Impact Study provided under separate cover
vi. Are public/private transportation service(s) or facilities available within \(1 / 2\) mile of the proposed site?
vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles?
viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes?
k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy?
If Yes:
\(i\). Estimate annual electricity demand during operation of the proposed action:
ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):
iii. Will the proposed action require a new, or an upgrade, to an existing substation?
1. Hours of operation. Answer all items which apply.
i. During Construction:
- Monday - Friday: 7:00 am - 5:00 pm (Town Code)
- Saturday: 7:00 am-1:00 pm (Town Code)
- Sunday: N/A
- Holidays: \(\qquad\)
ii. During Operations:
- Monday - Friday: Residential Use (24 hrs/day)
- Saturday: \(\quad\) Residential Use (24 hrs/day)
- Sunday: _ Residential Use (24 hrs/day)
- Holidays: Residential Use (24 hrs/day)
m . Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both?

\section*{If yes:}
\(i\). Provide details including sources, time of day and duration:
Typical temporary construction equipment activity from construction vehicles, trucks, vibratory equipment, air powered equipment, generators, etc. Post-construction noise levels are anticipated to be similar to the ambient levels.
ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? \(\square\) Yes \(\square\) No Describe:
n . Will the proposed action have outdoor lighting?
Yes \(\square\) No
If yes:
\(i\). Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures: Street lighting at intersections, onsite parking area/site lighting with dark sky compliant LED fixtures.
ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen?

Describe: Some areas with trees and brush growth may be removed for development of the proposed lots. The existing perimeter vegetation will be retained in particular at southern and northern limits of the property.
o. Does the proposed action have the potential to produce odors for more than one hour per day? If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:
p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons)

Yes \(\square \mathrm{No}\) or chemical products 185 gallons in above ground storage or any amount in underground storage?
If Yes:
i. Product(s) to be stored
ii. Volume(s) (e.g., month, year)
iii. Generally, describe the proposed storage facilities: \(\qquad\)
q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, \(\square\) Yes \(\square\) No insecticides) during construction or operation?
If Yes:
\(i\). Describe proposed treatment(s):
\(\qquad\)
\(\qquad\)
ii. Will the proposed action use Integrated Pest Management Practices? \(\square\) Yes \(\square\) No
r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal \(\quad \square\) Yes \(\square\) No of solid waste (excluding hazardous materials)?
If Yes:
\(i\). Describe any solid waste(s) to be generated during construction or operation of the facility:
- Construction: \(\qquad\) tons per \(\qquad\) (unit of time)
- Operation : tons per (unit of time)
ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:
- Construction:
- Operation: \(\qquad\)
iii. Proposed disposal methods/facilities for solid waste generated on-site:
- Construction: \(\qquad\)
- Operation:
s. Does the proposed action include construction or modification of a solid waste management facility?

If Yes:
\(i\). Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities):
ii. Anticipated rate of disposal/processing:
- Tons/month, if transfer or other non-combustion/thermal treatment, or
- Tons/hour, if combustion or thermal treatment
iii. If landfill, anticipated site life:
years
t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous \(\square\) Yes \(\square\) No waste?
If Yes:
\(i\). Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: \(\qquad\)
ii. Generally describe processes or activities involving hazardous wastes or constituents:
iii. Specify amount to be handled or generated \(\qquad\) tons/month
\(i v\). Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: \(\qquad\)
\(v\). Will any hazardous wastes be disposed at an existing offsite hazardous waste facility?
If Yes: provide name and location of facility:
If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

\section*{E. Site and Setting of Proposed Action}

\section*{E.1. Land uses on and surrounding the project site}
a. Existing land uses.
\(i\). Check all uses that occur on, adjoining and near the project site.
\(\square\) Urban \(\square\) Industrial \(\square\) Commercial \(\square\) Residential (suburban) \(\square\) Rural (non-farm)
\(\square\) Forest \(\square\) Agriculture \(\square\) Aquatic \(\square\) Other (specify): Golf course
ii. If mix of uses, generally describe:
b. Land uses and covertypes on the project site.
\begin{tabular}{|l|c|c|c|}
\hline \multicolumn{1}{|c|}{\begin{tabular}{c} 
Land use or \\
Covertype
\end{tabular}} & \begin{tabular}{c} 
Current \\
Acreage
\end{tabular} & \begin{tabular}{c} 
Acreage After \\
Project Completion
\end{tabular} & \begin{tabular}{c} 
Change \\
(Acres +/-)
\end{tabular} \\
\hline\(\bullet\)\begin{tabular}{l} 
Roads, buildings, and other paved or impervious \\
surfaces
\end{tabular} & 0 & 19.1 & 19.1 \\
\hline\(\bullet\) Forested & 51.7 & 10.2 & -41.5 \\
\hline\(\bullet\)\begin{tabular}{l} 
Meadows, grasslands or brushlands (non- \\
agricultural, including abandoned agricultural)
\end{tabular} & 32.2 & 4.1 & -28.1 \\
\hline\(\bullet\)\begin{tabular}{l} 
Agricultural \\
(includes active orchards, field, greenhouse etc.)
\end{tabular} & 0 & 0 & 0 \\
\hline\(\bullet\)\begin{tabular}{l} 
Surface water features \\
(lakes, ponds, streams, rivers, etc.)
\end{tabular} & 0 & 5.3 & 5.3 \\
\hline\(\bullet\) Wetlands (freshwater or tidal) & 11.4 & 11.4 & 0 \\
\hline\(\bullet\) Non-vegetated (bare rock, earth or fill) & 0 & 0 & 0 \\
\hline\(\bullet\) Other & 0 & 45.2 & 45.2 \\
\hline
\end{tabular}
c. Is the project site presently used by members of the community for public recreation?
d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site?
If Yes,
\(i\). Identify Facilities:
e. Does the project site contain an existing dam?

If Yes:
\(i\). Dimensions of the dam and impoundment:
- Dam height: \(\qquad\) feet
- Dam length: feet
- Surface area: \(\qquad\) acres
- Volume impounded: \(\qquad\) gallons OR acre-feet
ii. Dam's existing hazard classification:
iii. Provide date and summarize results of last inspection:
f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, \(\square\) Yes \(\square\) No or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility?
If Yes:
\(i\). Has the facility been formally closed?
\(\square \mathrm{Yes} \square\) No
- If yes, cite sources/documentation:
ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:
iii. Describe any development constraints due to the prior solid waste activities: \(\qquad\)
g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin \(\square \mathrm{Yes} \square \mathrm{No}\) property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste?
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:
h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site?
If Yes:
\(i\). Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply:
\begin{tabular}{ll}
\(\square\) Yes - Spills Incidents database & Provide DEC ID number(s): \\
\(\square\) Yes - Environmental Site Remediation database & Provide DEC ID number(s): \\
\(\square\) Neither database &
\end{tabular}
ii. If site has been subject of RCRA corrective activities, describe control measures:
\(\qquad\)
iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database?

If yes, provide DEC ID number(s):
\(i v\). If yes to (i), (ii) or (iii) above, describe current status of site(s):
- If yes, DEC site ID number:
- Describe the type of institutional control (e.g., deed restriction or easement):
- Describe any use limitations:
- Describe any engineering controls:
- Will the project affect the institutional or engineering controls in place?
- Explain: \(\qquad\)

\section*{E.2. Natural Resources On or Near Project Site}
a. What is the average depth to bedrock on the project site?
\(\geq 12^{\prime}\) feet
b. Are there bedrock outcroppings on the project site? \(\square\) Yes \(\square\) No

If Yes, what proportion of the site is comprised of bedrock outcroppings? \(\qquad\) \%
\begin{tabular}{ll} 
Ontario loam & \(\pm 35 \%\) \\
& \\
Hilton Loam & \(\pm 23 \%\) \\
\hline Lamson very fine sandy loam & \(\pm 17 \%\) \\
\hline
\end{tabular}
d. What is the average depth to the water table on the project site? Average: \(\quad>12^{\prime}\) feet
\begin{tabular}{|c|c|}
\hline \multirow[t]{3}{*}{\begin{tabular}{l}
e. Drainage status of project site soils: \(\square\) Well Drained: \\
\(\square\) Moderately Well Drained: \\
- Poorly Drained
\end{tabular}} & \(3 \%\) of site \\
\hline & \(50 \%\) of site \\
\hline & \(47 \%\) of site \\
\hline
\end{tabular}
f. Approximate proportion of proposed action site with slopes: \(\sqrt{\nabla} 0-10 \%\) :

\begin{tabular}{r}
\(85 \%\) of site \\
\hline \(10 \%\) of site \\
\hline\(\quad 5 \%\) of site
\end{tabular}
\(5 \%\) of site
g. Are there any unique geologic features on the project site?

If Yes, describe: \(\qquad\)
h. Surface water features.
\(i\). Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)?
ii. Do any wetlands or other waterbodies adjoin the project site?

If Yes to either \(i\) or \(i i\), continue. If No, skip to E.2.i.
iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency?
\(i v\). For each identified regulated wetland and waterbody on the project site, provide the following information:
- Streams: Name 846-76 Classification B
- Lakes or Ponds: Name
- Wetlands: Name Federal Waters, NYS Wetland, Federal Waters, Fe... Classification
- Wetland No. (if regulated by DEC) PR-32
\(v\). Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies?
If yes, name of impaired water body/bodies and basis for listing as impaired:
Name - Pollutants - Uses:Thomas Creek/White Brook and tribs - Nutrients - Recreation;Public Bathing;Aquatic Life
\begin{tabular}{ll|}
\hline i. Is the project site in a designated Floodway? & \(\square\) Yes \(\square\) No \\
\hline j. Is the project site in the 100-year Floodplain? & \(\square\) Yes \(\square\) No \\
\hline k. Is the project site in the 500-year Floodplain? & \(\square\) Yes \(\square\) No \\
\hline 1. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? & \(\square\) Yes \(\square\) No
\end{tabular}

\section*{If Yes:}
\(i\). Name of aquifer: Principal Aquifer, Primary Aquifer
m . Identify the predominant wildlife species that occupy or use the project site: White tail deer
Small mammals
Birds
\(\square \mathrm{Yes} \square \mathrm{No}\)
n. Does the project site contain a designated significant natural community?

If Yes:
i. Describe the habitat/community (composition, function, and basis for designation):
ii. Source(s) of description or evaluation:
iii. Extent of community/habitat:
- Currently: ___ acres
- Following completion of project as proposed: acres
- Gain or loss (indicate + or -):
acres
o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as \(\square\) Yes \(\square\) No endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species?
If Yes:
i. Species and listing (endangered or threatened):
p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of \(\square\) Yes \(\square\) No special concern?
If Yes:
i. Species and listing:
q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing?

If yes, give a brief description of how the proposed action may affect that use:

\section*{E.3. Designated Public Resources On or Near Project Site}
a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to

If Yes, provide county plus district name/number:
b. Are agricultural lands consisting of highly productive soils present? \(\square\) Yes \(\square\) No
i. If Yes: acreage(s) on project site? \(\qquad\)
ii. Source(s) of soil rating(s):
c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark?
If Yes:
i. Nature of the natural landmark: \(\square\) Biological Community \(\quad \square\) Geological Feature
ii. Provide brief description of landmark, including values behind designation and approximate size/extent: \(\qquad\)
d. Is the project site located in or does it adjoin a state listed Critical Environmental Area?

If Yes:
i. CEA name:
ii. Basis for designation:
iii. Designating agency and date:
e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?
If Yes:
i. Nature of historic/archaeological resource: \(\square\) Archaeological site \(\quad \square\) Historic Building or District
ii. Name:
iii. Brief description of attributes on which listing is based:
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?
g. Have additional archaeological or historic site(s) or resources been identified on the project site? \(\square\) Yes \(\square\) No If Yes:
i. Describe possible resource(s):
ii. Basis for identification:
h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local \(\square\) Yes \(\square\) No scenic or aesthetic resource?
If Yes:
\(i\). Identify resource:
ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.):
iii. Distance between project and resource: miles.
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers \(\quad \square\) Yes \(\square\) No Program 6 NYCRR 666?
If Yes:
\(i\). Identify the name of the river and its designation: \(\qquad\)
ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666?

\section*{F. Additional Information}

Attach any additional information which may be needed to clarify your project.
If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

\section*{G. Verification}

I certify that the information provided is true to the best of my knowledge.
Applicant/Sponsor Name Pride Mark Homes \& Aristo Properties, Inc. Date February 8, 2024

Signature Ryan T. Desto BME Associates
Title Project Engineer
(Agent for Pride Mark Homes \& Aristo Properties, Inc.)

\begin{tabular}{|l|l|}
\hline B.i.i [Coastal or Waterfront Area] & No \\
\hline B.i.ii [Local Waterfront Revitalization Area] & Yes \\
\hline C.2.b. [Special Planning District] & \begin{tabular}{l} 
Yes - Digital mapping data are not available for all Special Planning Districts. \\
Refer to EAF Workbook.
\end{tabular} \\
\hline C.2.b. [Special Planning District - Name] & NYS Heritage Areas:West Erie Canal Corridor \\
\hline \begin{tabular}{l} 
E.1.h [DEC Spills or Remediation Site - \\
Potential Contamination History]
\end{tabular} & \begin{tabular}{l} 
Digital mapping data are not available or are incomplete. Refer to EAF \\
Workbook.
\end{tabular} \\
\hline \begin{tabular}{l} 
E.1.h.i [DEC Spills or Remediation Site - \\
Listed]
\end{tabular} & \begin{tabular}{l} 
Digital mapping data are not available or are incomplete. Refer to EAF \\
Workbook.
\end{tabular} \\
\hline \begin{tabular}{l} 
E.1.h.i [DEC Spills or Remediation Site - \\
Environmental Site Remediation Database]
\end{tabular} & \begin{tabular}{l} 
Digital mapping data are not available or are incomplete. Refer to EAF \\
Workbook.
\end{tabular} \\
\hline \begin{tabular}{l} 
E.1.h.iii [Within 2,000' of DEC Remediation \\
Site]
\end{tabular} & No \\
\hline E.2.g [Unique Geologic Features] & No \\
\hline E.2.h.i [Surface Water Features] & Yes \\
\hline E.2.h.ii [Surface Water Features] & Yes \\
\hline E.2.h.iii [Surface Water Features] & Yes - Digital mapping information on local and federal wetlands and \\
waterbodies is known to be incomplete. Refer to EAF Workbook. \\
\hline E.2.h.iv [Surface Water Features - Stream & \(846-76\) \\
\hline Name] & B \\
\hline E.2.h.iv [Surface Water Features - Stream & B \\
\hline Classification] & E.2.h.iv [Surface Water Features - Wetlands
\end{tabular} Federal Waters, NYS Wetland \begin{tabular}{l} 
Name] \\
\hline E.2.h.iv [Surface Water Features - Wetlands
\end{tabular} NYS Wetland (in acres):42.8 \begin{tabular}{l} 
Size] \\
\hline E.2.h.iv [Surface Water Features - DEC \\
Wetlands Number]
\end{tabular}
\begin{tabular}{|l|l|}
\hline E.2.h.v [lmpaired Water Bodies] & Yes \\
\hline \begin{tabular}{l} 
E.2.h.v [Impaired Water Bodies - Name and \\
Basis for Listing]
\end{tabular} & \begin{tabular}{l} 
Name - Pollutants - Uses:Thomas Creek/White Brook and tribs - Nutrients - \\
Recreation;Public Bathing;Aquatic Life
\end{tabular} \\
\hline E.2.i. [Floodway] & No \\
\hline E.2.j. [100 Year Floodplain] & No \\
\hline E.2.k. [500 Year Floodplain] & No \\
\hline E.2.I. [Aquifers] & Yes \\
\hline E.2.I. [Aquifer Names] & Principal Aquifer, Primary Aquifer \\
\hline E.2.n. [Natural Communities] & No \\
\hline E.2.o. [Endangered or Threatened Species] & No \\
\hline E.2.p. [Rare Plants or Animals] & No \\
\hline E.3.a. [Agricultural District] & No \\
\hline E.3.c. [National Natural Landmark] & No \\
\hline E.3.d [Critical Environmental Area] & No \\
\hline E.3.e. [National or State Register of Historic & Digital mapping data are not available or are incomplete. Refer to EAF \\
\hline Places or State Eligible Sites] & No \\
\hline E.3.f. [Archeological Sites] & No \\
\hline E.3.i. [Designated River Corridor] & \\
\hline
\end{tabular}

Part 2 is to be completed by the lead agency. Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency's reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency and the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

\section*{Tips for completing Part 2:}
- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer "Yes" to a numbered question, please complete all the questions that follow in that section.
- If you answer "No" to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box "Moderate to large impact may occur."
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the "whole action".
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.
1. Impact on Land

Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1)
If "Yes", answer questions \(a-j\). If "No", move on to Section 2.
\begin{tabular}{|c|c|c|c|}
\hline & \[
\begin{gathered}
\hline \text { Relevant } \\
\text { Part I } \\
\text { Question(s) }
\end{gathered}
\] & No, or small impact may occur & Moderate to large impact may occur \\
\hline a. The proposed action may involve construction on land where depth to water table is less than 3 feet. & E2d & \(\square\) & \(\square\) \\
\hline b. The proposed action may involve construction on slopes of 15\% or greater. & E2f & \(\square\) & \(\square\) \\
\hline c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface. & E2a & \(\square\) & \(\square\) \\
\hline d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material. & D2a & \(\square\) & \(\square\) \\
\hline e. The proposed action may involve construction that continues for more than one year or in multiple phases. & D1e & \(\square\) & \(\square\) \\
\hline f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides). & D2e, D2q & \(\square\) & \(\square\) \\
\hline g. The proposed action is, or may be, located within a Coastal Erosion hazard area. & B1i & \(\square\) & \(\square\) \\
\hline h. Other impacts: & & \(\square\) & \(\square\) \\
\hline
\end{tabular}
2. Impact on Geological Features

The proposed action may result in the modification or destruction of, or inhibit access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1. E.2.g)
If "Yes", answer questions a-c. If "No", move on to Section 3.
\begin{tabular}{|l|l|l|c|}
\hline & \begin{tabular}{c} 
Relevant \\
Part I \\
Question(s)
\end{tabular} & \begin{tabular}{c} 
No, or \\
small \\
impact \\
may occur
\end{tabular} & \begin{tabular}{c} 
Moderate \\
to large \\
impact may \\
occur
\end{tabular} \\
\hline \begin{tabular}{l} 
a. Identify the specific land form(s) attached: \\
\hline
\end{tabular} & E2g & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
b. The proposed action may affect or is adjacent to a geological feature listed as a \\
registered National Natural Landmark. \\
Specific feature:
\end{tabular} & E3c & \(\square\) & \(\square\) \\
\hline c. Other impacts: & & \(\square\) & \(\square\) \\
\hline
\end{tabular}
3. Impacts on Surface Water

The proposed action may affect one or more wetlands or other surface water
\(\square \mathrm{NO} \quad \square \mathrm{YES}\) bodies (e.g., streams, rivers, ponds or lakes). (See Part 1. D.2, E.2.h)
If "Yes", answer questions a-l. If "No", move on to Section 4.
\begin{tabular}{|l|l|c|c|}
\hline & \begin{tabular}{c} 
Relevant \\
Part I \\
Question(s)
\end{tabular} & \begin{tabular}{c} 
No, or \\
small \\
impact \\
may occur
\end{tabular} & \begin{tabular}{c} 
Moderate \\
impact may \\
occur
\end{tabular} \\
\hline a. The proposed action may create a new water body. & D2b, D1h & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
b. The proposed action may result in an increase or decrease of over 10\% or more than a \\
10 acre increase or decrease in the surface area of any body of water.
\end{tabular} & D2b & \(\square\) \\
\hline \begin{tabular}{l} 
c. The proposed action may involve dredging more than 100 cubic yards of material \\
from a wetland or water body.
\end{tabular} & D2a & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
d. The proposed action may involve construction within or adjoining a freshwater or \\
tidal wetland, or in the bed or banks of any other water body.
\end{tabular} & E2h & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
e. The proposed action may create turbidity in a waterbody, either from upland erosion, \\
runoff or by disturbing bottom sediments.
\end{tabular} & D2a, D2h & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
f. The proposed action may include construction of one or more intake(s) for withdrawal \\
of water from surface water.
\end{tabular} & D2c & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
g. The proposed action may include construction of one or more outfall(s) for discharge \\
of wastewater to surface water(s).
\end{tabular} & D2d & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
h. The proposed action may cause soil erosion, or otherwise create a source of \\
stormwater discharge that may lead to siltation or other degradation of receiving \\
water bodies.
\end{tabular} & D2e & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
i. The proposed action may affect the water quality of any water bodies within or \\
downstream of the site of the proposed action.
\end{tabular} & E2h & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
j. The proposed action may involve the application of pesticides or herbicides in or \\
around any water body.
\end{tabular} & D2q, E2h & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
k. The proposed action may require the construction of new, or expansion of existing, \\
wastewater treatment facilities.
\end{tabular} & D1a, D2d & \(\square\) & \(\square\) \\
\hline
\end{tabular}
\(\qquad\)
\begin{tabular}{|l|l|l|}
\(\square\) & \(\square\) & \(\square\) \\
\hline
\end{tabular}
4. Impact on groundwater

The proposed action may result in new or additional use of ground water, or
 may have the potential to introduce contaminants to ground water or an aquifer.
(See Part 1. D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t)
If "Yes", answer questions \(a-h\). If "No", move on to Section 5.
\begin{tabular}{|l|l|l|l|}
\hline & \begin{tabular}{c} 
Relevant \\
Part I \\
Question(s)
\end{tabular} & \begin{tabular}{c} 
No, or \\
small \\
impact \\
may occur
\end{tabular} & \begin{tabular}{c} 
Moderate \\
to large \\
mpact may \\
occur
\end{tabular} \\
\hline \begin{tabular}{l} 
a. The proposed action may require new water supply wells, or create additional demand \\
on supplies from existing water supply wells.
\end{tabular} & D2c & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
b. Water supply demand from the proposed action may exceed safe and sustainable \\
withdrawal capacity rate of the local supply or aquifer. \\
Cite Source:
\end{tabular} & D2c & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
c. The proposed action may allow or result in residential uses in areas without water and \\
sewer services.
\end{tabular} & D1a, D2c & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
d. The proposed action may include or require wastewater discharged to groundwater.
\end{tabular} & D2d, E2l & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
e. The proposed action may result in the construction of water supply wells in locations \\
where groundwater is, or is suspected to be, contaminated.
\end{tabular} & \begin{tabular}{l} 
D2c, E1f, \\
E1g, E1h
\end{tabular} & \(\square\) \\
\hline \begin{tabular}{l} 
f. The proposed action may require the bulk storage of petroleum or chemical products \\
over ground water or an aquifer.
\end{tabular} & D2p, E2l & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
g. The proposed action may involve the commercial application of pesticides within 100 \\
feet of potable drinking water or irrigation sources.
\end{tabular} & \begin{tabular}{l} 
E2h, D2q, \\
E2l, D2c
\end{tabular} & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
h. Other impacts: \\
\hline
\end{tabular} & \(\square\) \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|}
\hline \begin{tabular}{l}
5. Impact on Flooding \\
The proposed action may result in development on lands subject to flooding. (See Part 1. E.2) \\
If "Yes", answer questions \(a-g\). If "No", move on to Section 6.
\end{tabular} & \multicolumn{3}{|l|}{\[
\square \mathrm{NO} \quad \square \mathrm{YES}
\]} \\
\hline & Relevant
Part I
Question(s) & No, or
small
impact
may occur & Moderate to large impact may occur \\
\hline a. The proposed action may result in development in a designated floodway. & E2i & \(\square\) & \(\square\) \\
\hline b. The proposed action may result in development within a 100 year floodplain. & E2j & \(\square\) & \(\square\) \\
\hline c. The proposed action may result in development within a 500 year floodplain. & E2k & \(\square\) & \(\square\) \\
\hline d. The proposed action may result in, or require, modification of existing drainage patterns. & D2b, D2e & \(\square\) & \(\square\) \\
\hline e. The proposed action may change flood water flows that contribute to flooding. & \[
\begin{aligned}
& \text { D2b, E2i, } \\
& \text { E2j, E2k }
\end{aligned}
\] & \(\square\) & \(\square\) \\
\hline f. If there is a dam located on the site of the proposed action, is the dam in need of repair, or upgrade? & E1e & \(\square\) & \(\square\) \\
\hline
\end{tabular}

\section*{6. Impacts on Air}

The proposed action may include a state regulated air emission source.

(See Part 1. D.2.f., D.2.h, D.2.g)
If "Yes", answer questions \(a-f\). If "No", move on to Section 7.
\(\left.\begin{array}{|l|l|l|l|}\hline\end{array} \begin{array}{c}\text { Moderate } \\ \text { to large } \\ \text { impact may } \\ \text { occur }\end{array}\right]\)

\section*{7. Impact on Plants and Animals}

The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. m.-q.)
 YES If "Yes", answer questions \(a-j\). If "No", move on to Section 8.
\begin{tabular}{|l|l|l|l|}
\hline & \begin{tabular}{c} 
Relevant \\
Part I \\
Question(s)
\end{tabular} & \begin{tabular}{c} 
No, or \\
small \\
impact \\
may occur
\end{tabular} & \begin{tabular}{c} 
Moderate \\
impact may \\
occur
\end{tabular} \\
\hline \begin{tabular}{l} 
a. The proposed action may cause reduction in population or loss of individuals of any \\
threatened or endangered species, as listed by New York State or the Federal \\
government, that use the site, or are found on, over, or near the site.
\end{tabular} & E2o & \(\square\) \\
\hline \begin{tabular}{l} 
b. The proposed action may result in a reduction or degradation of any habitat used by \\
any rare, threatened or endangered species, as listed by New York State or the federal \\
government.
\end{tabular} & E2o & \(\boxed{\square}\) & \(\square\) \\
\hline \begin{tabular}{l} 
c. The proposed action may cause reduction in population, or loss of individuals, of any \\
species of special concern or conservation need, as listed by New York State or the \\
Federal government, that use the site, or are found on, over, or near the site.
\end{tabular} & E2p & \(\square\) \\
\hline \begin{tabular}{l} 
d. The proposed action may result in a reduction or degradation of any habitat used by \\
any species of special concern and conservation need, as listed by New York State or \\
the Federal government.
\end{tabular} & E2p & \(\square\) \\
\hline
\end{tabular}
\begin{tabular}{|l|l|l|l|}
\hline \begin{tabular}{l} 
e. The proposed action may diminish the capacity of a registered National Natural \\
Landmark to support the biological community it was established to protect.
\end{tabular} & E3c & \\
\hline \begin{tabular}{l} 
f. The proposed action may result in the removal of, or ground disturbance in, any \\
portion of a designated significant natural community. \\
Source:
\end{tabular} & E2n & \(\square\) \\
\hline \begin{tabular}{l} 
g. The proposed action may substantially interfere with nesting/breeding, foraging, or \\
over-wintering habitat for the predominant species that occupy or use the project site.
\end{tabular} & E2m & \(\square\) \\
\hline \begin{tabular}{l} 
h. The proposed action requires the conversion of more than 10 acres of forest, \\
grassland or any other regionally or locally important habitat. \\
Habitat type \& information source: \\
-
\end{tabular} & E1b & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
i. Proposed action (commercial, industrial or recreational projects, only) involves use of \\
herbicides or pesticides.
\end{tabular} & D2q & \(\square\) \\
\hline \begin{tabular}{l} 
j. Other impacts: \\
\hline
\end{tabular} & \(\square\) & \(\square\) \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|}
\hline \begin{tabular}{l}
8. Impact on Agricultural Resources \\
The proposed action may impact agricultural resources. (See Part 1. E.3.a. If "Yes", answer questions \(a-h\). If "No", move on to Section 9.
\end{tabular} & b.) & \(\checkmark\) NO & \(\square \mathrm{YES}\) \\
\hline & Relevant Part I Question(s) & No, or small impact may occur & Moderate to large impact may occur \\
\hline a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System. & E2c, E3b & \(\square\) & \(\square\) \\
\hline b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc). & E1a, Elb & \(\square\) & \(\square\) \\
\hline c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land. & E3b & \(\square\) & \(\square\) \\
\hline d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District. & E1b, E3a & \(\square\) & \(\square\) \\
\hline e. The proposed action may disrupt or prevent installation of an agricultural land management system. & El a, E1b & \(\square\) & \(\square\) \\
\hline f. The proposed action may result, directly or indirectly, in increased development potential or pressure on farmland. & \[
\begin{aligned}
& \text { C2c, C3, } \\
& \text { D2c, D2d }
\end{aligned}
\] & \(\square\) & \(\square\) \\
\hline g. The proposed project is not consistent with the adopted municipal Farmland Protection Plan. & C2c & \(\square\) & \(\square\) \\
\hline h. Other impacts: & & \(\square\) & \(\square\) \\
\hline
\end{tabular}
9. Impact on Aesthetic Resources

The land use of the proposed action are obviously different from, or are in
\(\checkmark\) NO
\(\square\) YES sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part 1. E.1.a, E.1.b, E.3.h.) If "Yes", answer questions \(a-g\). If "No", go to Section 10.
\begin{tabular}{|c|c|c|c|}
\hline & Relevant
Part I
Question(s) & No, or small impact may occur & Moderate to large impact may occur \\
\hline a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource. & E3h & \(\square\) & \(\square\) \\
\hline b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views. & E3h, C2b & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l}
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) \\
ii. Year round
\end{tabular} & E3h & \(\square\)
\(\square\) & \(\square\)
\(\square\) \\
\hline \begin{tabular}{l}
d. The situation or activity in which viewers are engaged while viewing the proposed action is: \\
i. Routine travel by residents, including travel to and from work \\
ii. Recreational or tourism based activities
\end{tabular} & \begin{tabular}{l}
E3h \\
E2q, \\
E1c
\end{tabular} & \(\square\)
\(\square\) & \[
\begin{aligned}
& \square \\
& \square
\end{aligned}
\] \\
\hline e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource. & E3h & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l}
f. There are similar projects visible within the following distance of the proposed project: \\
0-1/2 mile \\
\(1 / 2-3\) mile \\
3-5 mile \\
5+ mile
\end{tabular} & \[
\begin{aligned}
& \text { D1a, E1a, } \\
& \text { D1f, D1g }
\end{aligned}
\] & \(\square\) & \(\square\) \\
\hline g. Other impacts: & & \(\square\) & \(\square\) \\
\hline
\end{tabular}
10. Impact on Historic and Archeological Resources

The proposed action may occur in or adjacent to a historic or archaeological
resource. (Part 1. E.3.e, f. and g.)
If "Yes", answer questions a-e. If "No", go to Section 11.
\begin{tabular}{|l|c|c|c|}
\hline & \begin{tabular}{c} 
Relevant \\
Part I \\
Question(s)
\end{tabular} & \begin{tabular}{c} 
No, or \\
small \\
impact \\
may occur
\end{tabular} & \begin{tabular}{c} 
Moderate \\
to large \\
impact may \\
occur
\end{tabular} \\
\hline \begin{tabular}{l} 
a. The proposed action may occur wholly or partially within, or substantially contiguous \\
to, any buildings, archaeological site or district which is listed on the National or \\
State Register of Historical Places, or that has been determined by the Commissioner \\
of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for \\
listing on the State Register of Historic Places.
\end{tabular} & E3e & \(\square\) \\
\hline \begin{tabular}{l} 
b. The proposed action may occur wholly or partially within, or substantially contiguous \\
to, an area designated as sensitive for archaeological sites on the NY State Historic \\
Preservation Office (SHPO) archaeological site inventory.
\end{tabular} & E3f & \(\square\) \\
\hline \begin{tabular}{l} 
c. The proposed action may occur wholly or partially within, or substantially contiguous \\
to, an archaeological site not included on the NY SHPO inventory. \\
Source:
\end{tabular} & E3g & \(\square\) \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|}
\hline d. Other impacts: & & \(\square\) & \(\square\) \\
\hline \multicolumn{4}{|l|}{If any of the above (a-d) are answered "Moderate to large impact may e. occur", continue with the following questions to help support conclusions in Part 3:} \\
\hline i. The proposed action may result in the destruction or alteration of all or part of the site or property. & \[
\begin{aligned}
& \text { E3e, E3g, } \\
& \text { E3f }
\end{aligned}
\] & \(\square\) & \(\square\) \\
\hline The proposed action may result in the alteration of the property's setting or integrity. & E3e, E3f, E3g, E1a, E1b & \(\square\) & \(\square\) \\
\hline iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting. & \[
\begin{aligned}
& \text { E3e, E3f, } \\
& \text { E3g, E3h, } \\
& \text { C2, C3 }
\end{aligned}
\] & \(\square\) & \(\square\) \\
\hline
\end{tabular}

\section*{11. Impact on Open Space and Recreation}

The proposed action may result in a loss of recreational opportunities or a
 reduction of an open space resource as designated in any adopted municipal open space plan.
(See Part 1. C.2.c, E.1.c., E.2.q.)
If "Yes", answer questions a-e. If "No", go to Section 12.
\begin{tabular}{|c|c|c|c|}
\hline & \[
\begin{gathered}
\hline \text { Relevant } \\
\text { Part I } \\
\text { Question(s) }
\end{gathered}
\] & No, or small impact may occur & Moderate to large impact may occur \\
\hline a. The proposed action may result in an impairment of natural functions, or "ecosystem services", provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat. & \begin{tabular}{l}
D2e, E1b \\
E2h, \\
E2m, E2o, \\
E2n, E2p
\end{tabular} & \(\square\) & \(\square\) \\
\hline b. The proposed action may result in the loss of a current or future recreational resource. & \[
\begin{aligned}
& \text { C2a, E1c, } \\
& \text { C2c, E2q }
\end{aligned}
\] & \(\square\) & \(\square\) \\
\hline c. The proposed action may eliminate open space or recreational resource in an area with few such resources. & \[
\begin{aligned}
& \text { C2a, C2c } \\
& \text { E1c, E2q }
\end{aligned}
\] & \(\square\) & \(\square\) \\
\hline d. The proposed action may result in loss of an area now used informally by the community as an open space resource. & C2c, E1c & \(\square\) & \(\square\) \\
\hline e. Other impacts: & & \(\square\) & \(\square\) \\
\hline
\end{tabular}

\section*{12. Impact on Critical Environmental Areas}

The proposed action may be located within or adjacent to a critical
 environmental area (CEA). (See Part 1. E.3.d)
If "Yes", answer questions a - c. If "No", go to Section 13.
\begin{tabular}{|l|c|c|c|}
\hline & \begin{tabular}{c} 
Relevant \\
Part I \\
Question(s)
\end{tabular} & \begin{tabular}{c} 
No, or \\
small \\
impact \\
may occur
\end{tabular} & \begin{tabular}{c} 
Moderate \\
to large \\
impact may \\
occur
\end{tabular} \\
\hline \begin{tabular}{l} 
a. The proposed action may result in a reduction in the quantity of the resource or \\
characteristic which was the basis for designation of the CEA.
\end{tabular} & E3d & \(\square\) \\
\hline \begin{tabular}{l} 
b. The proposed action may result in a reduction in the quality of the resource or \\
characteristic which was the basis for designation of the CEA.
\end{tabular} & E3d & \(\square\) & \(\square\) \\
\hline c. Other impacts: & & \(\square\) & \(\square\) \\
\hline
\end{tabular}
13. Impact on Transportation

The proposed action may result in a change to existing transportation systems.
\(\square \mathrm{NO} \quad \boldsymbol{\nu} \mathrm{YES}\) (See Part 1. D.2.j)
If "Yes", answer questions \(a-f\). If "No", go to Section 14.
\begin{tabular}{|c|c|c|c|}
\hline & Relevant Part I Question(s) & No, or small impact may occur & Moderate to large impact may occur \\
\hline a. Projected traffic increase may exceed capacity of existing road network. & D2j & \(\square\) & \(\square\) \\
\hline b. The proposed action may result in the construction of paved parking area for 500 or more vehicles. & D2j & \(\square\) & \(\square\) \\
\hline c. The proposed action will degrade existing transit access. & D2j & \(\square\) & \(\square\) \\
\hline d. The proposed action will degrade existing pedestrian or bicycle accommodations. & D2j & \(\square\) & \(\square\) \\
\hline e. The proposed action may alter the present pattern of movement of people or goods. & D2j & \(\square\) & \(\square\) \\
\hline f. Other impacts: & & \(\square\) & \(\square\) \\
\hline
\end{tabular}
14. Impact on Energy

The proposed action may cause an increase in the use of any form of energy.


YES
(See Part 1. D.2.k)
If "Yes", answer questions \(a-e\). If "No", go to Section 15.
\begin{tabular}{|l|l|c|c|}
\hline & \begin{tabular}{c} 
Relevant \\
Part I \\
Question(s)
\end{tabular} & \begin{tabular}{c} 
No, or \\
small \\
impact \\
may occur
\end{tabular} & \begin{tabular}{c} 
Moderate \\
to large \\
impact may \\
occur
\end{tabular} \\
\hline a. The proposed action will require a new, or an upgrade to an existing, substation. & D2k & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
b. The proposed action will require the creation or extension of an energy transmission \\
or supply system to serve more than 50 single or two-family residences or to serve a \\
commercial or industrial use.
\end{tabular} & \begin{tabular}{l} 
D1f, \\
D1q, D2k
\end{tabular} & \(\square\) & \(\square\) \\
\hline c. The proposed action may utilize more than 2,500 MWhrs per year of electricity. & D2k & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
d. The proposed action may involve heating and/or cooling of more than 100,000 square \\
feet of building area when completed.
\end{tabular} & D1g & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
e. Other Impacts: \\
\hline
\end{tabular} & & \(\square\) & \(\square\) \\
\hline
\end{tabular}
15. Impact on Noise, Odor, and Light

The proposed action may result in an increase in noise, odors, or outdoor lighting.
 YES (See Part 1. D.2.m., n., and o.) If "Yes", answer questions a-f. If "No", go to Section 16.
\begin{tabular}{|l|l|c|c|}
\hline & \begin{tabular}{c} 
Relevant \\
Part I \\
Question(s)
\end{tabular} & \begin{tabular}{c} 
No, or \\
small \\
impact \\
may occur
\end{tabular} & \begin{tabular}{c} 
Moderate \\
to large \\
impact may \\
occur
\end{tabular} \\
\hline \begin{tabular}{l} 
a. The proposed action may produce sound above noise levels established by local \\
regulation.
\end{tabular} & D2m & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
b. The proposed action may result in blasting within 1,500 feet of any residence, \\
hospital, school, licensed day care center, or nursing home.
\end{tabular} & D2m, E1d & \(\square\) & \(\square\) \\
\hline c. The proposed action may result in routine odors for more than one hour per day. & D2o & \(\square\) & \(\square\) \\
\hline
\end{tabular}
\begin{tabular}{|l|l|l|l|}
\hline d. The proposed action may result in light shining onto adjoining properties. & D2n & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
e. The proposed action may result in lighting creating sky-glow brighter than existing \\
area conditions.
\end{tabular} & D2n, E1a & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
f. Other impacts:
\end{tabular} & & \(\square\) & \(\square\) \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|}
\hline \multicolumn{4}{|l|}{The proposed action may have an impact on human health from exposure to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. and h.) If "Yes", answer questions a-m. If "No", go to Section 17.} \\
\hline & Relevant Part I Question(s) & No,or
small
impact
may cccur & Moderate to large impact may occur \\
\hline a. The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community. & E1d & \(\square\) & \(\square\) \\
\hline b. The site of the proposed action is currently undergoing remediation. & E1g, E1h & \(\square\) & \(\square\) \\
\hline c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action. & E1g, E1h & \(\square\) & \(\square\) \\
\hline d. The site of the action is subject to an institutional control limiting the use of the property (e.g., easement or deed restriction). & E1g, E1h & \(\square\) & \(\square\) \\
\hline e. The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health. & E1g, E1h & \(\square\) & \(\square\) \\
\hline f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health. & D2t & \(\square\) & \(\square\) \\
\hline g. The proposed action involves construction or modification of a solid waste management facility. & D2q, E1f & \(\square\) & \(\square\) \\
\hline h. The proposed action may result in the unearthing of solid or hazardous waste. & D2q, E1f & \(\square\) & \(\square\) \\
\hline i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste. & D2r, D2s & \(\square\) & \(\square\) \\
\hline j. The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste. & \[
\begin{aligned}
& \text { E1f, E1g } \\
& \text { E1h }
\end{aligned}
\] & \(\square\) & \(\square\) \\
\hline k. The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures. & E1f, E1g & \(\square\) & \(\square\) \\
\hline l. The proposed action may result in the release of contaminated leachate from the project site. & \[
\begin{aligned}
& \text { D2s, E1f, } \\
& \text { D2r }
\end{aligned}
\] & \(\square\) & \(\square\) \\
\hline m. Other impacts: & & & \\
\hline
\end{tabular}
17. Consistency with Community Plans

The proposed action is not consistent with adopted land use plans.
\(\checkmark \mathrm{NO} \quad \square \mathrm{YES}\)
(See Part 1. C.1, C.2. and C.3.) If "Yes", answer questions \(a-h\). If "No", go to Section 18.
\begin{tabular}{|c|c|c|c|}
\hline & Relevant
Part I
Question(s) & \[
\begin{gathered}
\hline \text { No, or } \\
\text { small } \\
\text { impact } \\
\text { may occur } \\
\hline
\end{gathered}
\] & Moderate to large impact may occur \\
\hline a. The proposed action's land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s). & \begin{tabular}{l}
\[
\mathrm{C} 2, \mathrm{C} 3, \mathrm{D} 1 \mathrm{a}
\] \\
E1a, E1b
\end{tabular} & \(\square\) & \(\square\) \\
\hline b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than \(5 \%\). & C2 & \(\square\) & \(\square\) \\
\hline c. The proposed action is inconsistent with local land use plans or zoning regulations. & C2, C2, C3 & \(\square\) & \(\square\) \\
\hline d. The proposed action is inconsistent with any County plans, or other regional land use plans. & C2, C2 & \(\square\) & \(\square\) \\
\hline e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure. & C3, D1c, D1d, D1f, D1d, Elb & \(\square\) & \(\square\) \\
\hline f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure. & \[
\begin{aligned}
& \text { C4, D2c, D2d } \\
& \text { D2j }
\end{aligned}
\] & \(\square\) & \(\square\) \\
\hline g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action) & C2a & \(\square\) & \(\square\) \\
\hline h. Other: & & \(\square\) & \(\square\) \\
\hline
\end{tabular}

\section*{18. Consistency with Community Character}

The proposed project is inconsistent with the existing community character.
(See Part 1. C.2, C.3, D.2, E.3)
If "Yes", answer questions \(a-\) g. If "No", proceed to Part 3.
\begin{tabular}{|l|l|c|c|}
\hline & \begin{tabular}{c} 
Relevant \\
Part I \\
Question(s)
\end{tabular} & \begin{tabular}{c} 
No, or \\
small \\
impact \\
may occur
\end{tabular} & \begin{tabular}{c} 
Moderate \\
impact may \\
occur
\end{tabular} \\
\hline \begin{tabular}{l} 
a. The proposed action may replace or eliminate existing facilities, structures, or areas \\
of historic importance to the community.
\end{tabular} & E3e, E3f, E3g & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
b. The proposed action may create a demand for additional community services (e.g. \\
schools, police and fire)
\end{tabular} & C4 & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
c. The proposed action may displace affordable or low-income housing in an area where \\
there is a shortage of such housing.
\end{tabular} & \begin{tabular}{l} 
C2, C3, D1f \\
D1g, E1a
\end{tabular} & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
d. The proposed action may interfere with the use or enjoyment of officially recognized \\
or designated public resources.
\end{tabular} & C2, E3 & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
e. The proposed action is inconsistent with the predominant architectural scale and \\
character.
\end{tabular} & C2, C3 & \(\square\) \\
\hline \begin{tabular}{l} 
f. Proposed action is inconsistent with the character of the existing natural landscape.
\end{tabular} & \begin{tabular}{l} 
C2, C3 \\
E1a, E1b \\
E2g, E2h
\end{tabular} & \(\square\) & \(\square\) \\
\hline \begin{tabular}{l} 
g. Other impacts: \\
\hline
\end{tabular} & \(\square\) & \(\square\) & \(\square\) \\
\hline
\end{tabular}

\section*{Full Environmental Assessment Form}

Part 3-Evaluation of the Magnitude and Importance of Project Impacts
and
Determination of Significance
Part 3 provides the reasons in support of the determination of significance. The lead agency must complete Part 3 for every question in Part 2 where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.

Based on the analysis in Part 3, the lead agency must decide whether to require an environmental impact statement to further assess the proposed action or whether available information is sufficient for the lead agency to conclude that the proposed action will not have a significant adverse environmental impact. By completing the certification on the next page, the lead agency can complete its determination of significance.

\section*{Reasons Supporting This Determination:}

To complete this section:
- Identify the impact based on the Part 2 responses and describe its magnitude. Magnitude considers factors such as severity, size or extent of an impact.
- Assess the importance of the impact. Importance relates to the geographic scope, duration, probability of the impact occurring, number of people affected by the impact and any additional environmental consequences if the impact were to occur.
- The assessment should take into consideration any design element or project changes.
- Repeat this process for each Part 2 question where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.
- Provide the reason(s) why the impact may, or will not, result in a significant adverse environmental impact
- For Conditional Negative Declarations identify the specific condition(s) imposed that will modify the proposed action so that no significant adverse environmental impacts will result.
- Attach additional sheets, as needed.

\section*{Determination of Significance - Type 1 and Unlisted Actions}

\section*{SEQR Status: \\ \(\square\) Type 1 \\ \(\square\) Unlisted}

Identify portions of EAF completed for this Project: \(\square\) Part 1
( \(\sqrt{\text { Part } 2}\)
( \(\sqrt{\text { Part } 3}\)

Upon review of the information recorded on this EAF, as noted, plus this additional support information
and considering both the magnitude and importance of each identified potential impact, it is the conclusion of the as lead agency that:
A. This project will result in no significant adverse impacts on the environment, and, therefore, an environmental impact statement need not be prepared. Accordingly, this negative declaration is issued.
B. Although this project could have a significant adverse impact on the environment, that impact will be avoided or substantially mitigated because of the following conditions which will be required by the lead agency:

There will, therefore, be no significant adverse impacts from the project as conditioned, and, therefore, this conditioned negative declaration is issued. A conditioned negative declaration may be used only for UNLISTED actions (see 6 NYCRR 617.7(d)).
C. This Project may result in one or more significant adverse impacts on the environment, and an environmental impact statement must be prepared to further assess the impact(s) and possible mitigation and to explore alternatives to avoid or reduce those impacts. Accordingly, this positive declaration is issued.

Name of Action: Fellows Road Properties
Name of Lead Agency:
Name of Responsible Officer in Lead Agency:
Title of Responsible Officer:
\begin{tabular}{|llll|}
\hline Signature of Responsible Officer in Lead Agency: & Date: \\
\hline Signature of Preparer (if different from Responsible Officer) & RyanT.Desto & Date: \(2 / 13 / 2024\) \\
\hline
\end{tabular}

\section*{For Further Information:}

Contact Person:
Address:
Telephone Number:
E-mail:
For Type 1 Actions and Conditioned Negative Declarations, a copy of this Notice is sent to:
Chief Executive Officer of the political subdivision in which the action will be principally located (e.g., Town / City / Village of) Other involved agencies (if any)
Applicant (if any)
Environmental Notice Bulletin: http://www.dec.ny.gov/enb/enb.html

Return To:
FIRST AMERICAN - ROCHESTER ABSTRACT 16 WEST MAIN STREET
ROCHESTER, NY 14614

PETERS FAMILY REAL ESTATE TRUST, PETERS, ROBERT F
REICH, LOIS E

Receipt \# 2602404
Book Page D 124520220
No. Pages: 4
Instrument: DEED

Control \#: 202101151305
Ref \#: TT0000012293

Date: 01/15/2021
Time: 4:27:22 PM
\(\$ 26.00\)
\begin{tabular}{ll} 
Recording Fee & \(\$ 26.00\) \\
Pages Fee & \(\$ 15.00\)
\end{tabular}

State Fee Cultural Education \(\$ 14.25\)
State Fee Records \(\$ 4.75\)
Management
Transfer Tax
TP-584 Form Fee
\$2,140.00
\(\$ 5.00\)
Deed Notice Fee
\(\$ 10.00\)
RP-5217 County Fee
\(\$ 9.00\)
RP5217 State Equal Fee
\(\$ 116.00\)
Total Fees Paid:
\$2,340.00

State of New York
MONROE COUNTY CLERK'S OFFICE
WARNING - THIS SHEET CONSTITUTES THE CLERKS
ENDORSEMENT, REQUIRED BY SECTION 317-a(5) \&
SECTION 319 OF THE REAL PROPERTY LAW OF THE
STATE OF NEW YORK. DO NOT DETACH OR REMOVE.
JAMIE ROMEO
MONROE COUNTY CLERK

THIS INDENTURE, made the \(29^{* t}\) day of Deer-b-2020
BETWEEN ROBERT F. PETERS, residing at 384 Fellows Road, Fairport, NY 14450 and LOIS E. REICH, residing at 8 Park Place, Rochester, NY 14625, as Co-Trustees of the Peters Family Real Estate Trust,

\section*{Grantor}

ARISTO PROPERTIES, INC., a New York corporation, with offices at 339 Hogan Road, Fairport, NY 14450

\section*{Grantee}

WITNESSETH, that the grantor, in consideration of FIVE HUNDRED THIRTY FIVE THOUSAND \& NO/100 DOLLARS paid by the grantee, hereby grant and releases unto the grantee, their heirs or successors and assigns of the grantee forever,

ALL THAT TRACT OR PARCEL OF LAND, situate in the Town of Perinton, County of Monroe and State of New York, and more particularly described as follows:

Beginning at a point in the centerline of Fellows Road (49.5' wide), said point being the southwest comer of lands of Pride Mark Homes per Liber 9801 of deeds, page 440 said point also being located N \(06^{\circ} 16^{\prime} 20^{\prime \prime} \mathrm{E}\) a distance of \(1013.76^{\prime}\) from the centerline intersection of Fellows Road and Furman Road, from said point, thence \(\mathrm{S} 84^{\circ} 30^{\prime} 58^{\prime \prime} \mathrm{E}\) along the lands now or formerly of Pride Mark Homes a distance of 24.75 ' to the true point of beginning, thence;
1.) Continuing \(S 84^{\circ} 30^{\prime} 58^{\prime \prime} \mathrm{E}\) along the lands now or formerly of Pride Mark Homes a distance of 1445.66 ' to a point at the northwest corner of lands now or formerly of David and Laura Masterson per Liber 8062 of Deeds, page 611, thence;
2.) \(\mathrm{S} 05^{\circ} 02^{\prime} 49^{\prime \prime} \mathrm{W}\) along the lands of Masterson and lands now or formerly of Scott and Susan Bacher per Liber 7930 of Deeds, page 347 and lands now or formerly of Robert and Donna Janes (t.a.\# 140.04-1-37) a distance of 983.75' to a point in the northerly line of Furman Road ( 49.5 ' wide), thence;
3.) \(\mathrm{N} 84^{\circ} 42^{\prime} 56^{\prime \prime} \mathrm{W}\) along the northerly line of Furman Road a distance of \(751.78^{\prime}\) to a point at the southeast comer of lands of the Town of Perinton per Liber 8202 of Deeds, page 359, thence;
4.) \(\mathrm{N} 05^{\circ} 17^{\prime} 04^{\prime \prime} \mathrm{E}\) along the lands of the Town of Perinton a distance of \(60.00^{\prime}\) to a point, thence;
5.) \(\mathrm{N} 84^{\circ} 42^{\prime} 56^{\prime \prime} \mathrm{W}\) along the lands of the Town of Perinton a distance of \(65.00^{\prime}\) to point, thence;
6.) \(\mathrm{S} 05^{\circ} 17^{\prime} \mathbf{\prime} 04^{\prime \prime} \mathrm{W}\) along the lands of the Town of Perinton a distance of \(60.00^{\prime}\) to a point in the northerly line of Furman Road, thence;
7.) \(\mathrm{N} 84^{\circ} 42^{\prime} 56^{\prime \prime} \mathrm{W}\) along the northerly line of Furman Road a distance of \(650^{\prime} .00\) to a point in the easterly line of Fellows Road, thence;
8.) \(\mathrm{N} 06^{\circ} 16^{\prime} 20^{\prime \prime}\) E along the easterly line of Fellows Road a distance of \(254.82^{\prime}\) to a point at the south west corner of other lands of Peters, thence;
9.) \(\mathrm{S} 83^{\circ} 43^{\prime} 40^{\prime \prime} \mathrm{E}\) along other lands of Peters a distance of \(200.00^{\prime}\) to a point, thence;
10.) \(\mathrm{N} 06^{\circ} 16^{\prime} 20^{\prime \prime} \mathrm{E}\) along other lands of Peters a distance of \(150.00^{\prime}\) to a point, thence;
11.) \(\mathrm{N} 83^{\circ} 43^{\prime} 40^{\prime \prime} \mathrm{W}\) along other lands of Peters a distance of \(200.00^{\prime}\) to a point in the easterly line of Fellows Road, thence;
12.) \(\mathrm{N} 06^{\circ} 16^{\prime} 20^{\prime \prime} \mathrm{E}\) along the easterly line of Fellows Road a distance of \(584.10^{\prime}\) to the point of beginning, containing 32.193 acres of land more or less.

This conveyance is made subject to all public utility easements, all easements, covenants, restrictions and building restrictions affecting said premises herein affecting said premises, if any.

This conveyance is made and accepted subject to covenants, easements, and restrictions of record affecting said premises, if any.

Being the same premises conveyed to the grantor by deed dated May 19, 2014, and recorded in the Monroe County Clerk's Office on May 23, 2014, in Liber 11394 of Deeds at page 293.

Tax Map No.: \(\quad\) 140.04-1-44.1
Property Address: Fellows Road, Town of Perinton, New York 14450
Tax Mailing Address: 384 Flloins Teord, Fairpont, Ny, 4450
TOGETHER, with the appurtenances and all the estate and rights of the grantor in and to said premises.

TO HAVE AND TO HOLD the premises herein granted unto the grantee, the heirs or successors and assigns of the grantee forever AND the grantor covenants as follows:

FIRST: The Grantee shall quietly enjoy the said premises;
SECOND: The Grantor will forever warrant the title to said premises;
This deed is subject to the trust provisions of Section 13 of the Lien Law. The words "grantor" and "grantee" shall be construed to read in the plural whenever the sense of this deed so requires.

IN WITNESS WHEREOF, the grantor has executed this deed the day and year first above written.

In presence of:

\title{
THE PETERS FAMILY REAL ESTATE TRUST \\ 
}

By: ROBERT F. PETERS, Co-Trustee Lois E. Rene By: LOIS E. REICH, Co-Trustee

STATE OF NEW YORK ) COUNTY OF MONROE) ss.:

On Tern- 25,2020 , before me, the undersigned, personally appeared ROBERT F. PETERS and LOIS E. REICH personally known to me or proved to me on the basis of satisfactory evidence to be the individuals) whose names) subscribed to the within instrument and acknowledged to me that they executed the same in their capacities, and that by their signature (s) on the instrument, the individuals), or the person upon behalf of which the individuals) acted, executed the instrument.






\title{
FELLOWS ROAD PROPERTIES Town of Perinton, NY
}

Prepared For:
BME Associates
Attn: Mr. Peter G. Vars, P.E.
10 Liftbridge Lane
Fairport, NY 14450

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\subsection*{1.0 EXECUTIVE SUMMARY}

The purpose of this report is to evaluate the potential traffic impacts related to the proposed residential development located along Fellows Rd in the Town of Perinton, NY. Within this report, the operating characteristics of the proposed access points and impacts to the adjacent roadway network are evaluated and mitigating measures are identified (if needed) to minimize operational concerns.

To define traffic impact, this analysis establishes existing baseline traffic conditions, projects background traffic flow including area growth, and determines the traffic operations that would result from the proposed project.

\section*{Project Location and Description}

The project site is located at the northeast corner of the Fellows Road/Furman Road intersection in the Town of Perinton, Monroe County, New York. The project site is bounded by St. John's Home Residential Care and undeveloped land to the north, Fellows Road to the west, Furman Rd to the south, and single family homes and farmland along Huber Rd to the east. The project site currently consists of farmland and undeveloped land. The land uses in the vicinity of the project site are primarily residential as well as some agricultural land and retail uses.

The proposed development consists of constructing 106 single family homes, 26 townhome buildings containing either 3 or 4 units each for a total of 90 townhome units, and 4 condominium buildings containing 7 units each for total of 28 condominium units. Access to the site will be provided via one new driveway along Fellows Rd and one new driveway along Furman Rd.

\section*{Study Area}

To ensure a comprehensive analysis of potential traffic impacts, a study area was selected consisting of the following three (3) intersections:
1. Penfield Rd/Fellows Rd
2. Fellows Rd/Furman Rd
3. Whitney Rd East/Fellows Rd/Roxwell Ct

\section*{Existing and Background Conditions}

Turning movement traffic counts were collected by Passero Associates on Thursday, January 18, 2024, at the study intersections for the weekday PM peak hour period and on Friday, January 19, 2024, at the study intersections for the weekday AM peak hour period. Traffic counts were conducted between 7:00-9:00 AM for the weekday AM peak period and 4:00-6:00 PM for the weekday PM peak period. The peak hour traffic periods generally occurred between 7:15-8:15 AM and 4:30-5:30 PM.

Construction of the proposed project is anticipated to reach full build-out within approximately five years. The widely accepted methodology for preparing traffic impact studies requires that any projects in the study area that are currently approved and/or under construction must be considered in the traffic analysis. Projects that are contemplated but not yet approved are not included in a traffic analysis. Local municipal personnel were contacted to discuss any other specific projects that are currently approved or under construction that would generate additional traffic in the study area. No such projects were identified.

A review of available historical NYSDOT traffic volume data in the vicinity of the site indicates that traffic has decreased between 2010 and 2019 in the study area. To account for normal increases in background traffic growth, as well as any unforeseen developments in the study area, a growth rate of \(0.5 \%\) per year was applied to the existing traffic volumes for the five-year build out period.

\section*{Conclusions and Recommendations}

This Traffic Impact Study identified and evaluated the potential traffic impacts that can be expected from the proposed development located along Fellows Rd in the Town of Perinton, NY. The results of this study determined that the existing transportation network can adequately accommodate the projected traffic volumes and resulting minor impacts to study area intersections with the noted mitigation in place. The following sets forth the conclusions and recommendations based upon the results of the analyses:

\section*{Conclusions}
1. The proposed project is expected to generate approximately 38 entering/114 exiting vehicle trips during the AM peak hour and 117 entering/72 exiting vehicle trips during the PM peak hour.
2. Based on the results of the crash analysis, there are no inherent safety deficiencies at any of the study intersections.
3. The available sight distances along Fellows Rd at the existing Furman Rd intersection to the right exceed the required stopping sight distance (SSD) and desirable intersection sight distance (ISD). To the left, the available sight distance exceeds the required SSD, however, the desirable ISD is not met. There is an existing intersection warning sign located approximately \(\pm 565^{\prime}\) to the south of the existing intersection which offsets the less than desirable ISD. Given that, no mitigation is required at this intersection related to existing sight distances.
4. The combination of westbound traffic volumes turning left into Fellows Rd from Penfield Rd and the design speed of Penfield Rd indicate that a left-turn treatment is warranted during the PM peak hour under background and full development conditions but not during the AM peak hour under either background or full build conditions.
5. The detailed analysis contained in this Traffic Impact Study demonstrates the proposed project will not result in any potentially significant adverse environmental impacts for the purpose of the environmental review of the project pursuant to the State Environmental Quality Review Act ("SEQRA").

\section*{Recommendations}
6. It is recommended that a westbound left-turn lane is constructed at the Penfield Rd/Fellows Rd intersection. It is also recommended that a two-way left turn storage lane is constructed opposite the westbound left turn lane to allow vehicles making a northbound left turn to clear the eastbound lane and then wait in the two-way left turn storage lane until it is safe to merge into westbound traffic. It should be noted that three of the crashes at this intersection, which were discussed in Section 4.3, can be mitigated with the construction of a westbound left turn lane and would be safety improvement for the intersection.
7. The proposed driveway along Fellows Rd should be designed to provide one enter and one exit lane.
8. The proposed driveway along Furman Rd should be designed to provide one enter and one exit lane.

\subsection*{2.0 INTRODUCTION}

\subsection*{2.1 Study Purpose and Objectives}

The purpose of this report is to evaluate the potential traffic impacts related to the proposed residential development located along Fellows Rd in the Town of Perinton, NY. Within this report, the operating characteristics of the proposed access points and impacts to the adjacent roadway network are evaluated and mitigating measures are identified (if needed) to minimize operational concerns.

To define traffic impact, this analysis establishes existing baseline traffic conditions, projects background traffic flow including area growth, and determines the traffic operations that would result from the proposed project.

\subsection*{2.2 Project Location}

The project site is located at the northeast corner of the Fellows Road/Furman Road intersection in the Town of Perinton, Monroe County, New York. The project site is bounded by St. John's Home Residential Care and undeveloped land to the north, Fellows Road to the west, Furman Rd to the south, and single family homes and farmland along Huber Rd to the east. The project site currently consists of farmland and undeveloped land. The land uses in the vicinity of the project site are primarily residential as well as some agricultural land and retail uses.

\subsection*{2.3 Study Area}

To ensure a comprehensive analysis of potential traffic impacts, a study area was selected consisting of the following three (3) intersections:
1. Penfield Rd/Fellows Rd
2. Fellows Rd/Furman Rd
3. Whitney Rd East/Fellows Rd/Roxwell Ct

The project site location and study area are illustrated in Figure 1 (all figures are included at the end of this report).

\subsection*{3.0 TRANSPORTATION SETTING}

\subsection*{3.1 Description of Study Area Roadways}

The information outlined in Table 1 provides a description of the existing roadway network within the study area. Figure 2 illustrates the lane geometry and traffic control at each of the study intersections and the Annual Average Daily Traffic (AADT) volumes on the study roadways. The AADTs reflect the most recently collected data obtained from the NYSDOT.

Table 1: Existing Highway System
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline ROADWAY & CLASS¹ & AGENCY \({ }^{2}\) & \begin{tabular}{l}
SPEED \\
LIMIT \(^{3}\)
\end{tabular} & TRAVEL LANES \({ }^{4}\) & ORIENTATION OF TRAVEL & \(\mathrm{AADT}^{5}\) \\
\hline Penfield Road (NY-441) & 16 & NYSDOT & 45 & 2 & Two-way/ East-West & \[
\begin{gathered}
12,162 \\
\text { NYSDOT (2019) }
\end{gathered}
\] \\
\hline Fellows Road & 19 & Town of Perinton & 30/35 & 2 & Two-way/ North-South & \[
\begin{gathered}
1,705 \\
\text { Passero (2024) }
\end{gathered}
\] \\
\hline Furman Rd & 19 & Town of Perinton & 40 & 2 & Two-way/ East-West & \[
\begin{gathered}
1,146 \\
\text { NYSDOT (2018) }
\end{gathered}
\] \\
\hline Whitney Road East & 16 & MCDOT & 35 & 2 & Two-way/ East-West & \[
\begin{gathered}
11,596 \\
\text { NYSDOT (2016) }
\end{gathered}
\] \\
\hline
\end{tabular}

\section*{Notes:}
1. State functional classification of roadway
2. Jurisdictional agency of roadway.
3. Posted or statewide limit in miles per hour (mph).
4. Number of travel lanes. Excludes turning/auxiliary lanes developed at intersections.
5. Estimated AADT in vehicles per day (vpd). AADT source (Year).

The Highway Functional Classification System defines the role a roadway plays in the overall road network. Functional classification of highways within the study area is determined by the NYSDOT and the Federal Highway Administration (FHWA).

\section*{Urban Minor Arterial (Class 16)}

An urban minor arterial interconnects and augments the higher-level arterials as well as serves trips of moderate length at a somewhat lower level of travel mobility than Principal Arterials. They distribute traffic to smaller geographic areas than those served by higher-level Arterials and provide more land access than Principal Arterials without penetrating identifiable neighborhoods. They also provide urban connections for Rural Collectors.

\section*{Urban Local (Class 19)}

According to the FHWA, this class of roadway includes all facilities not in one of the higher systems (e.g., arterial, collector, etc.). It primarily permits direct access to abutting lands and connections to the higher order systems and is not intended for use in long distance travel. As public roads, they should be accessible for public use throughout the year. Generally, the streets carry little to no through-traffic flows.

\subsection*{3.2 Description of Multimodal Network}

Table 2 summarizes the traffic controls, pedestrian, bicycle, and transit accommodations within the study area.

Table 2: Multimodal Network
\begin{tabular}{|c|c|c|c|}
\hline INTERSECTION & \begin{tabular}{l}
Penfield Rd/ \\
Fellows Rd
\end{tabular} & \begin{tabular}{l}
Fellows Rd/ \\
Furman Rd
\end{tabular} & Whitney Rd East/Fellows Rd \\
\hline Intersection Control Type & Unsignalized & Unsignalized & Unsignalized \\
\hline Sidewalks & \(\bigcirc\) & \(\bigcirc\) & \(\bigcirc\) \\
\hline Crosswalks & \(\bigcirc\) & \(\bigcirc\) & \(\bigcirc\) \\
\hline Curb Ramps & \(\bigcirc\) & \(\bigcirc\) & \(\bigcirc\) \\
\hline Pedestrian Signal & \(\bigcirc\) & \(\bigcirc\) & \(\bigcirc\) \\
\hline Pedestrian Push Button & \(\bigcirc\) & \(\bigcirc\) & \(\bigcirc\) \\
\hline Pedestrian Countdown & \(\bigcirc\) & \(\bigcirc\) & \(\bigcirc\) \\
\hline Bicycle Facilities & \(\bigcirc\) & \(\bigcirc\) & \(\bigcirc\) \\
\hline Street Lighting & \(\bigcirc\) & \(\bigcirc\) & \(\bigcirc\) \\
\hline Transit Route & N/A & N/A & N/A \\
\hline
\end{tabular}

Present at entire intersection
- Present at portion of intersection

Not present at intersection

\subsection*{3.3 Planned/Programmed Highway Improvements}

There are no planned highway improvement projects in the study area.

\subsection*{4.0 EXISTING CONDITIONS ANALYSIS}

\subsection*{4.1 Peak Intervals for Analysis}

Given the functional characteristics of the corridors, adjacent land uses, and the proposed land use for the project site, the peak hours selected for analysis are the weekday AM and PM peak periods. The combination of site traffic and adjacent street traffic produces the greatest demand during these time periods.

\subsection*{4.2 Existing Traffic Volume Data}

Turning movement traffic counts were collected by Passero Associates on Thursday, January 18, 2024, at the study intersections for the weekday PM peak hour period and on Friday, January 19, 2024, at the study intersections for the weekday AM peak hour period. Traffic counts were conducted between 7:00-9:00 AM for the weekday AM peak period and 4:00-6:00 PM for the weekday PM peak period. The peak hour traffic periods generally occurred between 7:30-8:30 AM and 4:15-5:15 PM. The existing peak hour traffic volumes are shown in Figure 3A.

All turning movement count data was collected on a typical weekday while local schools were in session. No adverse weather conditions impacted the traffic counts. The traffic volumes were reviewed for seasonality and to confirm the accuracy and relative balance of the collective traffic counts. The actual differences in traffic volumes can be attributed to temporal variations in traffic volumes as well as activity related to driveways located in the segments between the study intersections.

As a result of traffic volumes being slightly lower than normal due to the time of year that the turning movement traffic counts were collected, a seasonality factor was applied to all the collected traffic volumes. NYSDOT determines seasonality factors based on the month of the year, whether the data was taken during the week or weekend, and the factor group of the surrounding roadways, which is commuter dominated for this project. Given that the weekday AM and PM peak hour data was collected during January, a seasonality factor of 0.901 was applied to the traffic volumes. Figure 3B illustrates the representative 2024 weekday AM and PM peak hour base volumes used for analysis purposes in this study.

\subsection*{4.3 Existing Crash Investigation}

The purpose of this crash analysis is to identify inherent safety issues by studying and quantifying historical crashes at the Penfield Rd/Fellows Rd and Fellows Rd/Furman Rd study intersections and identifying potential crash patterns and clusters.

A crash cluster is defined as an abnormal occurrence of similar crash types occurring at approximately the same location or involving the same geometric features. The severity of the crashes should also be considered. A history of crashes is an indication that further analysis is required to determine the cause(s) of the crash(es) and to identify what actions, if any, could be taken to mitigate the crashes.

A crash investigation within the study area was conducted to assess the safety history from August 31, 2018, through August 31, 2023.

Reportable (non-injury, injury, and fatal injury) type crashes are defined as damage to one person's property in the amount of \(\$ 1,001\) or more. The Non-Reportable type crashes result in property damage of \(\$ 1,000\) or less. Crash rates were computed for the study intersections and compared with NYSDOT average crash rates for similar intersections, as summarized in Table 3. Intersection rates are listed as crashes per million entering vehicle (CR/MEV).

Table 3: Intersection Crash Rate Analysis
\begin{tabular}{|c|c|c|c|c|}
\hline INTERSECTION & NUMBER OF CRASHES & NUMBER OF ENTERING VEHICLES & ACTUAL CRASH RATE & STATEWIDE
AVERAGE CRASH
RATE \\
\hline Penfield Rd/Fellows Rd & 5 & 14,958 vpd & 0.18 & 0.19 \\
\hline Fellows Rd/Furman Rd & 0 & 1,726 vpd & 0.00 & 0.19 \\
\hline
\end{tabular}

Notable crash clusters are approaches with three or greater identifiable consistent crash types.

\section*{Penfield Rd at Fellows Rd}

As shown in Table 3, the intersection has a crash rate that is slightly lower than the statewide average crash rate for similar intersections. No discernible crash patterns exist at this study intersection. The five crashes identified consist of the following crash types:
- One westbound rear end crash occurred when a westbound vehicle rear ended a vehicle waiting to turn left onto Fellows Rd.
- One head on crash occurred as a result of a westbound vehicle swerving out of the way to avoid a vehicle waiting to turn left onto Fellows Rd. The vehicle that swerved around the left turning vehicle ended up hitting an eastbound vehicle head on upon trying to regain control of the vehicle.
- One northbound left turn crash occurred as a result of the northbound vehicle not yielding the right of way to traffic along Penfield Rd.
- The other two crashes consisted of a fixed object crash due to a high speed chase and an animal related crash.

\section*{Fellows Rd at Furman Rd}

No crashes occurred at this intersection during the study period.

\subsection*{4.4 Sight Distance Evaluation}

This study investigated existing available sight distances at the Fellows Rd/Furman Rd intersection. Sight distance is provided at intersections to allow drivers to perceive the presence of potentially conflicting vehicles. This should occur in sufficient time for a motorist to stop or adjust their speed, as appropriate, to avoid a collision at the intersection.

Sight distance is also provided at intersections to allow the drivers of stopped vehicles a sufficient view of the intersecting highway to anticipate and avoid potential incidents. If the available sight distance for an entering or crossing vehicle is at least equal to the appropriate Stopping Sight Distance (SSD) for the major road, then drivers have sufficient sight distance to anticipate and avoid collisions. To enhance traffic operations, Intersection Sight Distances (ISD) that exceed SSD are desirable along the major road.

A Policy on Geometric Design of Highways and Streets 7th Edition (2018), published by the American Association of State Highway and Transportation Officials (AASHTO), was used as a reference to establish the required SSD and desirable ISD for the proposed access driveway location.

Required SSD and desirable ISD are based on the design speed for a given section of roadway; generally, the design speed is the posted speed limit plus 5 MPH. In this case, the posted speed limit at the intersection of Furman Rd along Fellows Rd is 30 MPH . Hence a design speed of 35 MPH was used. Stopping sight distance is dependent on the driver's eye height above the road surface, the specified object height above the road surface, and the height and lateral position of sight obstructions within the driver's line of sight. For design purposes, the recommended height is 3.50 feet above the road surface. The specified object height above the road surface is assumed to be 2.0 feet, representative of the shortest object at risk to drivers, including the height of automobile headlights or taillights.

The required SSD and desirable ISD based on the design speeds are shown in Table 4 for the existing Fellows Rd/Furman Rd intersection.

\section*{Table 4: Sight Distance Evaluation}
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{INTERSECTION} & POSTED & DESIGN & REQUIRED & DESIRABLE & \multicolumn{2}{|l|}{AVAILABLE SIGHT DISTANCE TO THE:} \\
\hline & SPEED & SPEED & SSD & ISD & LEFT & RIGHT \({ }^{2}\) \\
\hline Fellows Rd/Furman Rd & 30 mph & 35 mph & 250 & 390 & \[
\begin{aligned}
& \text { SSD: } 375 \\
& \text { ISD: } 310
\end{aligned}
\] & \[
\begin{aligned}
& \text { SSD: 700+ } \\
& \text { ISD: 700+ }
\end{aligned}
\] \\
\hline \begin{tabular}{l}
Note: \\
1. All sight distanc \\
2. Sight distance is
\end{tabular} & ents show d to the ad & \begin{tabular}{l}
feet. \\
nt inters
\end{tabular} & & & & \\
\hline
\end{tabular}

The available sight distances along Fellows Rd at the existing Furman Rd intersection to the right exceed the required stopping sight distance (SSD) and desirable intersection sight distance (ISD). To the left, the available sight distance exceeds the required SSD, however, the desirable ISD is not met. There is an existing intersection warning sign located approximately \(\pm 565^{\prime}\) to the south of the existing intersection which offsets the less than desirable ISD. Given that, no mitigation is required at this intersection related to existing sight distances.

\subsection*{5.0 BACKGROUND (NO BUILD) CONDITIONS}

Construction of the proposed project is anticipated to reach full build-out within approximately five years. The widely accepted methodology for preparing traffic impact studies requires that any projects in the study area that are currently approved and/or under construction must be considered in the traffic analysis. Projects that are contemplated but not yet approved are not included in a traffic analysis. Local municipal personnel were contacted to discuss any other specific projects that are currently approved or under construction that would generate additional traffic in the study area. No such projects were identified.

A review of available historical NYSDOT traffic volume data in the vicinity of the site indicates that traffic has decreased between 2010 and 2019 in the study area. To account for normal increases in background traffic growth, as well as any unforeseen developments in the study area, a growth rate of \(0.5 \%\) per year was applied to the existing traffic volumes for the five-year build out period. The background traffic volumes are depicted in Figure 4.

\subsection*{6.0 PROPOSED DEVELOPMENT CONDITIONS}

\subsection*{6.1 Project Description}

The proposed development consists of constructing 106 single family homes, 26 townhome buildings containing either 3 or 4 units each for a total of 90 townhome units, and 4 condominium buildings containing 7 units each for total of 28 condominium units. Access to the site will be provided via one new driveway along Fellows Rd and one new driveway along Furman Rd. The Overall Site Plan is included at the end of this report.

\subsection*{6.2 Proposed Traffic Generation}

The volume of traffic generated by a site is dependent on the intended land use and size of the development. Trip generation is an estimate of the number of trips generated by a specific building or land use. These trips represent the volume of traffic entering and exiting the development. Trip Generation Manual ( \(11^{\text {th }}\) Edition) published by the Institute of Transportation Engineers (ITE) is used as a reference for this information. The trip rate for the peak hour of the generator may or may not coincide in time or volume with the trip rate for the peak hour of adjacent street traffic. Volumes generated during the peak hour of the adjacent street traffic and proposed land uses, in this case, the weekday commuter AM and PM peak hours, represent a more critical volume when analyzing the capacity of the system; those intervals will provide the basis of this analysis. Table \(\mathbf{5}\) shows the estimated site generated trips that will be added to the existing roadway system under full project development.

Table 5: Site Generated Trips
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{DESCRIPTION} & \multirow[t]{2}{*}{ITE LUC \({ }^{1}\)} & \multirow[t]{2}{*}{SIZE} & \multicolumn{2}{|l|}{AM PEAK HOUR} & \multicolumn{2}{|l|}{PM PEAK HOUR} \\
\hline & & & ENTER & EXIT & ENTER & EXIT \\
\hline Single Family Detached Housing & 210 & 106 units & 20 & 59 & 66 & 39 \\
\hline Single Family Attached Housing & 215 & 90 units & 10 & 31 & 30 & 21 \\
\hline Multifamily Housing (Low-Rise) & 220 & 28 units & 8 & 24 & 21 & 12 \\
\hline \multicolumn{3}{|l|}{Total Site Generated Trips} & 38 & 114 & 117 & 72 \\
\hline \multicolumn{7}{|l|}{Note:} \\
\hline
\end{tabular}

The proposed project is expected to generate approximately 38 entering/114 exiting vehicle trips during the AM peak hour and 117 entering/72 exiting vehicle trips during the PM peak hour.

\subsection*{6.3 Trip Distribution}

The cumulative effect of site-generated traffic on the transportation network is dependent on the origins and destinations of that traffic and the location of the access drives serving the site. The proposed arrival/departure distribution of traffic generated by the proposed project is considered a function of several parameters, including:
- Employment centers using U.S. Census Data
- Site layout and access locations
- Proximity and access to expressways (1-490) and other main roadways
- Existing traffic patterns
- Existing traffic conditions and controls

Figure 5 shows the anticipated trip distribution pattern percentage for the project site. Figure \(\mathbf{6}\) illustrates the peak hour project site-generated traffic based on those percentages.

\subsection*{6.4 Full Development Volumes}

The proposed design hour traffic volumes are developed for the peak hours by combining the background traffic conditions (Figure 4) and the new site-generated traffic volumes (Figure 6) to yield the traffic volumes under full development conditions. Figure \(\mathbf{7}\) illustrates the total peak hour volumes anticipated for the proposed project under full build-out conditions.

\subsection*{7.0 TRAFFIC OPERATIONS AND ANALYSIS}

\subsection*{7.1 Left-Turn Warrant Investigation}

This study used the Transportation Research Board's (TRB) NCHRP Report 279 Intersection Channelization Design Guide to evaluate the volume warrants for a left-turn treatment at the Penfield Rd/Fellows Rd intersection under background and full build conditions. Provisions for left-turn lane facilities should be established where traffic volumes are high enough and safety considerations are sufficient to warrant the additional lane. This investigation analyzed warrants
during the weekday AM and PM peak hours for the intersections under full development conditions. The warrants are based on the design speed of the major roadway.

The combination of westbound traffic volumes turning left into Fellows Rd from Penfield Rd and the design speed of Penfield Rd indicate that a left-turn treatment is warranted during the PM peak hour under background and full development conditions but not during the AM peak hour under either background or full build conditions. It should be noted that three of the crashes at this intersection, which were discussed in Section 4.3, can be mitigated with the construction of a westbound left turn lane and would be safety improvement for the intersection. Given that, it is recommended that a westbound left-turn lane is constructed at this intersection. It is also recommended that a twoway left turn storage lane is constructed opposite the westbound left turn lane to allow vehicles making a northbound left turn to clear the eastbound lane and then wait in the two-way left turn storage lane until it is safe to merge into westbound traffic. A concept drawing of this mitigation is included at the end of the report.

\subsection*{7.2 Description of Capacity Analysis}

Capacity analysis is a technique used for determining a measure of effectiveness for a section of roadway and/or intersection based on the number of vehicles during a specific time period. The measure of effectiveness used for the capacity analysis is referred to as a Level of Service (LOS). Levels of service are calculated to provide an indication of the amount of delay that a motorist experiences while traveling along a roadway or through an intersection. Since the most amount of delay to motorists usually occurs at intersections, capacity analysis focuses on intersections, as opposed to highway segments.

The standard procedure for capacity analysis of signalized and unsignalized intersections is outlined in the Highway Capacity Manual (HCM) \(6^{\text {th }}\) Edition published by the Transportation Research Board (TRB). Traffic analysis software, Synchro 11, which is based on procedures and methodologies contained in the HCM, was used to analyze operating conditions at study area intersections. The procedure yields a level of service based on the HCM as an indicator of how well intersections operate.

Six levels of service are defined for analysis purposes. They are assigned letter designations, from "A" to "F", with LOS "A" representing the conditions with little to no delay, and LOS "F" conditions with very long delays. Suggested ranges of service capacity and an explanation of levels of service are included in the Appendices. LOS " C " or better is desirable, but LOS "D" for signalized locations and LOS "E" for unsignalized locations are generally thresholds of acceptable operation during peak periods so long as the volume to capacity ratio ( \(\mathrm{v} / \mathrm{c}\) ) is below 1.0. Table \(\mathbf{6}\) depicts level of service criteria for both signalized and unsignalized intersections.

Table 6: Level of Service Criteria
\begin{tabular}{ccc} 
LEVEL OF & SIGNALIZED CONTROL & STOP CONTROL \\
SERVICE & DELAY PER VEHICLE (seconds) & DELAY PER VEHICLE (seconds) \\
A & \(<10\) & \(<10\) \\
\hline B & \(10-20\) & \(10-15\) \\
\hline C & \(20-35\) & \(15-25\) \\
\hline D & \(35-55\) & \(25-35\) \\
\hline E & \(55-80\) & \(35-50\) \\
F & \(>80\) & \(>50\) \\
\hline
\end{tabular}

LOS for signalized intersections is defined in terms of delay specifically, average total delay per vehicle for a 15 -minute analysis period. LOS for unsignalized intersections, however, are different from a signalized intersection. The primary reason for this is driver expectation that a signalized intersection is designed to carry higher volumes than an unsignalized intersection. Unsignalized intersections are also associated with more uncertainty for users, as delays are less predictable than they are at signals.

The \(\mathrm{v} / \mathrm{c}\) ratio, also referred to as degree of saturation, represents the sufficiency of an intersection to accommodate the vehicular demand. A v/c ratio less than 0.85 generally indicates that adequate capacity is available, and vehicles are not expected to experience significant queues and delays. As the \(\mathrm{v} / \mathrm{c}\) ratio approaches 1.0 , traffic flow may become unstable, and delay and queuing conditions may occur.

\subsection*{7.3 Capacity Analysis Results}

Existing and background operating conditions during the peak study periods are evaluated to determine a basis for comparison with the projected future conditions. The future traffic conditions generated by the project were analyzed to assess the operation of the study area intersections. Capacity results for existing, background, and full development conditions are listed in Table 7. The discussion following the table summarizes capacity conditions. The detailed Synchro capacity analysis worksheets are contained in the Appendices.
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline INTERSECTION & & \multicolumn{3}{|l|}{\[
\begin{gathered}
2024 \\
\text { EXISTING BASE } \\
\text { CONDITIONS }
\end{gathered}
\]} & \multicolumn{4}{|c|}{2029 BACKGROUND CONDITIONS} & \multicolumn{4}{|l|}{\begin{tabular}{l}
\[
2029
\] \\
FULL BUILD CONDITIONS
\end{tabular}} & \multicolumn{4}{|l|}{\begin{tabular}{l}
\[
2029
\] \\
FULL BUILD CONDITIONS WITH MITIGATION
\end{tabular}} \\
\hline & & AM & & PM & & AM & & PM & & AM & & PM & & AM & & PM \\
\hline \multicolumn{17}{|l|}{1. Fellows Rd/Penfield Rd (U)} \\
\hline WB Left - Penfield Rd & A & 7.8 & B & 10.1 & A & 7.8 & B & 10.2 & A & 7.9 & B & 10.7 & A & 7.9 & B & 10.7 \\
\hline NB - Fellows Rd & C & 21.9 & E & 45.5 & C & 22.8 & E & 49.9 & D & 29.7 & F & 131.4 & C & 18.7 & D & 30.7 \\
\hline \multicolumn{17}{|l|}{2. Fellows Rd/Proposed Driveway (U)} \\
\hline WB - Propsoed Driveway & & \multirow[b]{2}{*}{N/A} & \multicolumn{2}{|r|}{\multirow[b]{2}{*}{N/A}} & \multicolumn{2}{|r|}{\multirow[b]{2}{*}{N/A}} & \multicolumn{2}{|r|}{\multirow[b]{2}{*}{N/A}} & A & 9.3 & A & 9.7 & \multicolumn{2}{|r|}{\multirow[b]{2}{*}{N/A}} & & \multirow[b]{2}{*}{N/A} \\
\hline SB Left - Fellows Rd & & & & & & & & & A & 7.4 & A & 7.6 & & & & \\
\hline \multicolumn{17}{|l|}{3. Fellows Rd/Furman Rd (U)} \\
\hline WB - Furman Rd & A & 8.9 & A & 9.3 & A & 9.0 & A & 9.3 & A & 9.1 & A & 9.7 & \multicolumn{2}{|r|}{\multirow[b]{2}{*}{N/A}} & & \multirow[b]{2}{*}{N/A} \\
\hline SB Left - Fellows Rd & A & 7.7 & A & 7.4 & A & 7.7 & A & 7.4 & A & 7.7 & A & 7.5 & & & & \\
\hline \multicolumn{17}{|l|}{4. Furman Rd/Proposed Driveway (U)} \\
\hline EB Left - Furman Rd & & \multirow[t]{2}{*}{N/A} & \multicolumn{2}{|r|}{\multirow[t]{2}{*}{N/A}} & \multicolumn{2}{|r|}{\multirow[t]{2}{*}{N/A}} & \multicolumn{2}{|r|}{\multirow[t]{2}{*}{N/A}} & A & 7.3 & A & 7.3 & \multicolumn{2}{|r|}{\multirow[t]{2}{*}{N/A}} & \multicolumn{2}{|r|}{\multirow[t]{2}{*}{N/A}} \\
\hline SB - Proposed Driveway & & & & & & & & & A & 8.5 & A & 8.5 & & & & \\
\hline \multicolumn{17}{|l|}{5. Fellows Rd/Whitney Rd East/Roxwell Ct (U)} \\
\hline EB Left - Whitney Rd East & A & 8.3 & A & 7.9 & A & 8.4 & A & 7.9 & A & 8.4 & A & 8.0 & \multicolumn{2}{|r|}{\multirow{4}{*}{N/A}} & \multicolumn{2}{|r|}{\multirow{4}{*}{N/A}} \\
\hline WB Left - Whitney Rd East & A & 7.5 & A & 0.0 & A & 7.5 & A & 0.0 & A & 7.5 & A & 0.0 & & & & \\
\hline NB - Roxwell Ct & B & 14.8 & C & 18.3 & C & 15.1 & C & 18.8 & C & 16.2 & C & 20.9 & & & & \\
\hline SB - Fellows Rd & B & 13.0 & B & 14.1 & B & 13.2 & B & 14.5 & B & 14.3 & C & 16.2 & & & & \\
\hline
\end{tabular}

Notes:
1. \(A(2.8)=\) Level of Service (Delay in seconds per vehicle)
2. \(\mathrm{NB}=\) Northbound, \(\mathrm{SB}=\) Southbound, \(\mathrm{EB}=\) Eastbound, \(\mathrm{WB}=\) Westbound
3. \((\mathrm{S})=\) Signalized; \((\mathrm{U})=\) Unsignalized
4. N/A = Approach does not exist and/or was not analyzed during this condition
5. Green shaded cells indicate low delays, yellow shaded cells indicate moderate delays, red shaded cells indicate long delays.

\section*{1. Fellows Rd/Penfield Rd (Unsignalized)}

All approaches operate at LOS " C " or better under existing and background conditions during both peak hours with the exception of the northbound Fellows Rd approach which operates at a LOS "E" during the PM peak hour. Between background and full build conditions the level of service for the northbound approach is projected to change from a LOS "C" to " D " during the AM peak hour and from LOS "E" to "F" during the PM peak hour. With the installation of the westbound left-turn lane and two-way left turn storage lane as noted in Section 7.1, the northbound approach is projected to operate at a LOS " C " during the AM peak hour and LOS " D " during the PM peak hour under full build conditions.

\section*{2. Fellows Rd/Proposed Driveway (Unsignalized)}

All approaches operate at LOS " A " during both peak hours. No improvements are warranted nor recommended at this location. The proposed driveway should consist of one enter and one exit lane.

\section*{3. Fellows Rd/Furman Rd (Unsignalized)}

All approaches operate at LOS " \(A\) " under all conditions during both peak hours. No changes in level of service are anticipated and no improvements are warranted nor recommended at this location.

\section*{4. Furman Rd/Proposed Driveway (Unsignalized)}

All approaches operate at LOS "A" during both peak hours. No improvements are warranted nor recommended at this location. The proposed driveway should consist of one enter and one exit lane.

\section*{5. Fellows Rd/Whitney Rd East (Unsignalized)}

All approaches operate at LOS "C" or better under all conditions during both peak hours. Between background and full build conditions the level of service for the southbound approach is projected to change from a LOS " B " to " C " during the PM peak hour, however this is considered a borderline condition as the threshold between LOS " \(B\) " and " \(C\) " is 15.0 seconds per vehicle and the actual increase in delay projected is 1.7 seconds. No other changes in levels of service are anticipated and no improvements are warranted nor recommended at this location.

\subsection*{8.0 CONCLUSIONS AND RECOMMENDATIONS}

This Traffic Impact Study identified and evaluated the potential traffic impacts that can be expected from the proposed development located along Fellows Rd in the Town of Perinton, NY. The results of this study determined that the existing transportation network can adequately accommodate the projected traffic volumes and resulting minor impacts to study area intersections with the noted mitigation in place. The following sets forth the conclusions and recommendations based upon the results of the analyses:

\section*{Conclusions}
1. The proposed project is expected to generate approximately 38 entering/114 exiting vehicle trips during the AM peak hour and 117 entering/72 exiting vehicle trips during the PM peak hour.
2. Based on the results of the crash analysis, there are no inherent safety deficiencies at any of the study intersections.
3. The available sight distances along Fellows Rd at the existing Furman Rd intersection to the right exceed the required stopping sight distance (SSD) and desirable intersection sight distance (ISD). To the left, the available sight distance exceeds the required SSD, however, the desirable ISD is not met. There is an existing intersection
warning sign located approximately \(\pm 565^{\prime}\) to the south of the existing intersection which offsets the less than desirable ISD. Given that, no mitigation is required at this intersection related to existing sight distances.
4. The combination of westbound traffic volumes turning left into Fellows Rd from Penfield Rd and the design speed of Penfield Rd indicate that a left-turn treatment is warranted during the PM peak hour under background and full development conditions but not during the AM peak hour under either background or full build conditions.
5. The detailed analysis contained in this Traffic Impact Study demonstrates the proposed project will not result in any potentially significant adverse environmental impacts for the purpose of the environmental review of the project pursuant to the State Environmental Quality Review Act ("SEQRA").

\section*{Recommendations}
6. It is recommended that a westbound left-turn lane is constructed at the Penfield Rd/Fellows Rd intersection. It is also recommended that a two-way left turn storage lane is constructed opposite the westbound left turn lane to allow vehicles making a northbound left turn to clear the eastbound lane and then wait in the two-way left turn storage lane until it is safe to merge into westbound traffic. It should be noted that three of the crashes at this intersection, which were discussed in Section 4.3, can be mitigated with the construction of a westbound left turn lane and would be safety improvement for the intersection.
7. The proposed driveway along Fellows Rd should be designed to provide one enter and one exit lane.
8. The proposed driveway along Furman Rd should be designed to provide one enter and one exit lane.

\subsection*{9.0 REFERENCES}
- Synchro 11 Software. Cubic ITS.
- Highway Capacity Manual (HCM 6 \({ }^{\text {th }}\) Edition). Transportation Research Board (TRB). Washington, DC. 2016.
- Highway Functional Classification Concepts, Criteria, and Procedures. FHWA. 2013.
- Trip Generation ( \(11^{\text {th }}\) Edition). Institute of Transportation Engineers (ITE). Washington, DC. 2021.
- OnTheMap. US Census Bureau. 2023.
- Traffic Data Viewer. New York State Department of Transportation (NYSDOT). 2023.
- NCHRP Report 279 Intersection Channelization Design Guide. TRB. 1985.

\subsection*{10.0 FIGURES}

Figures 1 through 7 are included on the following pages.

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\] \\
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\hline
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Fellows Road Properties | Town of Perinton, Monroe County, NY
Left Turn Lane Concept


Fellows Road Properties | Town of Perinton, Monroe County, NY
Site Location and Study Area

Figure 2

\section*{Notes:}
1. All AADT volumes by those noted:
1.1. \(N Y S D O T=\) New York State Department of Transportation.
1.2. \(P A=\) Passero Associates.
2. \(\mathrm{vpd}=\) Vehicles per day.
3. Turn lane lengths shown include only storage.


Fellows Road Properties | Town of Perinton, NY
Lane Geometry and
Average Daily Traffic
--- Proposed Roadway
\(\mathrm{U}=\) Unsignalized
S = Signalized


Fellows Road Properties | Town of Perinton, NY

KEY:
2024 Existing Conditions

Figure 3B


Fellows Road Properties | Town of Perinton, NY

KEY:
00(00) = AM(PM)
2024 Adjusted Base Conditions
--- Proposed Roadway

Figure 4


Fellows Road Properties | Town of Perinton, NY
Peak Hour Volumes
KEY:
2029 Background Conditions

Project Number: 20243756.000

Figure 5


Figure 6


Figure 7


Fellows Road Properties | Town of Perinton, NY

KEY:
Full Build Conditions

\section*{APPENDICES}

\section*{APPENDIX A: EXISTING TRAFFIC COUNT DATA}

Fri Jan 19, 2024
242 West Main Street, Suite 100, Rochester, NY, 14614, US
Full Length (7 AM-9 AM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149379, Location: 43.128582, -77.422122
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \begin{tabular}{l}
Leg \\
Direction
\end{tabular} & \multicolumn{4}{|l|}{Penfield Road Northwestbound} & \multicolumn{4}{|l|}{Fellows Road Northbound} & \multicolumn{4}{|l|}{Penfield Road Southeastbound} & \\
\hline Time & T & HL & U & App & HR & BL & U & App & BR & T & U & App & Int \\
\hline 2024-01-19 7:00AM & 161 & 0 & 0 & 161 & 3 & 17 & 0 & 20 & 6 & 48 & 0 & 54 & 235 \\
\hline 7:15AM & 179 & 0 & 0 & 179 & 2 & 12 & 0 & 14 & 6 & 53 & 0 & 59 & 252 \\
\hline 7:30AM & 171 & 0 & 0 & 171 & 2 & 15 & 0 & 17 & 6 & 58 & 0 & 64 & 252 \\
\hline 7:45AM & 168 & 1 & 0 & 169 & 3 & 14 & 0 & 17 & 4 & 53 & 0 & 57 & 243 \\
\hline Hourly Total & 679 & 1 & 0 & 680 & 10 & 58 & 0 & 68 & 22 & 212 & 0 & 234 & 982 \\
\hline 8:00AM & 156 & 1 & 0 & 157 & 0 & 12 & 0 & 12 & 10 & 58 & 0 & 68 & 237 \\
\hline 8:15AM & 162 & 3 & 0 & 165 & 2 & 10 & 0 & 12 & 14 & 47 & 0 & 61 & 238 \\
\hline 8:30AM & 151 & 1 & 0 & 152 & 1 & 16 & 0 & 17 & 11 & 51 & 0 & 62 & 231 \\
\hline 8:45AM & 113 & 0 & 0 & 113 & 3 & 13 & 0 & 16 & 14 & 65 & 0 & 79 & 208 \\
\hline Hourly Total & 582 & 5 & 0 & 587 & 6 & 51 & 0 & 57 & 49 & 221 & 0 & 270 & 914 \\
\hline Total & 1261 & 6 & 0 & 1267 & 16 & 109 & 0 & 125 & 71 & 433 & 0 & 504 & 1896 \\
\hline \% Approach & 99.5\% & 0.5\% & 0\% & - & 12.8\% & 87.2\% & 0\% & - & 14.1\% & 85.9\% & 0\% & - & - \\
\hline \% Total & 66.5\% & 0.3\% & 0\% & 66.8\% & 0.8\% & 5.7\% & 0\% & 6.6\% & 3.7\% & 22.8\% & 0\% & 26.6\% & - \\
\hline Lights and Motorcycles & 1231 & 5 & 0 & 1236 & 15 & 109 & 0 & 124 & 64 & 397 & 0 & 461 & 1821 \\
\hline \% Lights and Motorcycles & 97.6\% & 83.3\% & 0\% & 97.6\% & 93.8\% & 100\% & 0\% & 99.2\% & 90.1\% & 91.7\% & 0\% & 91.5\% & 96.0\% \\
\hline Heavy & 30 & 1 & 0 & 31 & 1 & 0 & 0 & 1 & 7 & 36 & 0 & 43 & 75 \\
\hline \% Heavy & 2.4\% & 16.7\% & 0\% & 2.4\% & 6.3\% & 0\% & 0\% & 0.8\% & 9.9\% & 8.3\% & 0\% & 8.5\% & 4.0\% \\
\hline
\end{tabular}

\footnotetext{
*BL: Bear left, BR: Bear right, HL: Hard left, HR: Hard right, T: Thru, U: U-Turn
}

Full Length (7 AM-9 AM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149379, Location: 43.128582, -77.422122


Out: 77 In: 125
Total: 202
[S] Fellows Road

Fri Jan 19, 2024
242 West Main Street, Suite 100, Rochester, NY, 14614, US
AM Peak (7:15 AM - 8:15 AM) - Overall Peak Hour
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149379, Location: 43.128582, -77.422122
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \begin{tabular}{l}
Leg \\
Direction
\end{tabular} & \multicolumn{4}{|l|}{Penfield Road Northwestbound} & \multicolumn{4}{|l|}{Fellows Road Northbound} & \multicolumn{4}{|l|}{Penfield Road Southeastbound} & \\
\hline Time & T & HL & U & App & HR & BL & U & App & BR & T & U & App & Int \\
\hline 2024-01-19 7:15AM & 179 & 0 & 0 & 179 & 2 & 12 & 0 & 14 & 6 & 53 & 0 & 59 & 252 \\
\hline 7:30AM & 171 & 0 & 0 & 171 & 2 & 15 & 0 & 17 & 6 & 58 & 0 & 64 & 252 \\
\hline 7:45AM & 168 & 1 & 0 & 169 & 3 & 14 & 0 & 17 & 4 & 53 & 0 & 57 & 243 \\
\hline 8:00AM & 156 & 1 & 0 & 157 & 0 & 12 & 0 & 12 & 10 & 58 & 0 & 68 & 237 \\
\hline Total & 674 & 2 & 0 & 676 & 7 & 53 & 0 & 60 & 26 & 222 & 0 & 248 & 984 \\
\hline \% Approach & 99.7\% & 0.3\% & 0\% & - & 11.7\% & 88.3\% & 0\% & - & 10.5\% & 89.5\% & 0\% & - & - \\
\hline \% Total & 68.5\% & 0.2\% & 0\% & 68.7\% & 0.7\% & 5.4\% & 0\% & 6.1\% & 2.6\% & 22.6\% & 0\% & 25.2\% & \\
\hline PHF & 0.941 & 0.500 & - & 0.944 & 0.583 & 0.883 & - & 0.882 & 0.650 & 0.957 & - & 0.912 & 0.976 \\
\hline Lights and Motorcycles & 663 & 2 & 0 & 665 & 7 & 53 & 0 & 60 & 23 & 203 & 0 & 226 & 951 \\
\hline \% Lights and Motorcycles & 98.4\% & 100\% & 0\% & 98.4\% & 100\% & 100\% & 0\% & 100\% & 88.5\% & 91.4\% & 0\% & 91.1\% & 96.6\% \\
\hline Heavy & 11 & 0 & 0 & 11 & 0 & 0 & 0 & 0 & 3 & 19 & 0 & 22 & 33 \\
\hline \% Heavy & 1.6\% & 0\% & 0\% & 1.6\% & 0\% & 0\% & 0\% & 0\% & 11.5\% & 8.6\% & 0\% & 8.9\% & 3.4\% \\
\hline
\end{tabular}
*BL: Bear left, BR: Bear right, HL: Hard left, HR: Hard right, T: Thru, U: U-Turn

AM Peak (7:15 AM - 8:15 AM) - Overall Peak Hour
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149379, Location: 43.128582, -77.422122


Out: 28 In: 60
Total: 88
[S] Fellows Road

Thu Jan 18, 2024
242 West Main Street, Suite 100, Rochester, NY, 14614, US
Full Length (4 PM-6 PM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149378, Location: 43.128582, -77.422122
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \begin{tabular}{l}
Leg \\
Direction
\end{tabular} & \multicolumn{4}{|l|}{Penfield Road Northwestbound} & \multicolumn{4}{|l|}{Fellows Road Northbound} & \multicolumn{4}{|l|}{Penfield Road Southeastbound} & \\
\hline Time & T & HL & U & App & HR & BL & U & App & BR & T & U & App & Int \\
\hline 2024-01-18 4:00PM & 87 & 2 & 0 & 89 & 4 & 11 & 0 & 15 & 15 & 175 & 0 & 190 & 294 \\
\hline 4:15PM & 111 & 2 & 0 & 113 & 5 & 14 & 0 & 19 & 19 & 147 & 0 & 166 & 298 \\
\hline 4:30PM & 123 & 1 & 0 & 124 & 2 & 14 & 0 & 16 & 19 & 198 & 0 & 217 & 357 \\
\hline 4:45PM & 96 & 3 & 0 & 99 & 3 & 12 & 0 & 15 & 24 & 167 & 0 & 191 & 305 \\
\hline Hourly Total & 417 & 8 & 0 & 425 & 14 & 51 & 0 & 65 & 77 & 687 & 0 & 764 & 1254 \\
\hline 5:00PM & 108 & 4 & 0 & 112 & 4 & 8 & 0 & 12 & 15 & 175 & 0 & 190 & 314 \\
\hline 5:15PM & 110 & 6 & 0 & 116 & 1 & 8 & 0 & 9 & 21 & 157 & 0 & 178 & 303 \\
\hline 5:30PM & 97 & 1 & 0 & 98 & 1 & 11 & 0 & 12 & 11 & 182 & 0 & 193 & 303 \\
\hline 5:45PM & 71 & 0 & 0 & 71 & 4 & 5 & 0 & 9 & 18 & 161 & 0 & 179 & 259 \\
\hline Hourly Total & 386 & 11 & 0 & 397 & 10 & 32 & 0 & 42 & 65 & 675 & 0 & 740 & 1179 \\
\hline Total & 803 & 19 & 0 & 822 & 24 & 83 & 0 & 107 & 142 & 1362 & 0 & 1504 & 2433 \\
\hline \% Approach & 97.7\% & 2.3\% & 0\% & - & 22.4\% & 77.6\% & 0\% & - & 9.4\% & 90.6\% & 0\% & - & - \\
\hline \% Total & 33.0\% & 0.8\% & 0\% & 33.8\% & 1.0\% & 3.4\% & 0\% & 4.4\% & 5.8\% & 56.0\% & 0\% & 61.8\% & - \\
\hline Lights and Motorcycles & 782 & 19 & 0 & 801 & 24 & 83 & 0 & 107 & 142 & 1348 & 0 & 1490 & 2398 \\
\hline \% Lights and Motorcycles & 97.4\% & 100\% & 0\% & 97.4\% & 100\% & 100\% & 0\% & 100\% & 100\% & 99.0\% & 0\% & 99.1\% & 98.6\% \\
\hline Heavy & 21 & 0 & 0 & 21 & 0 & 0 & 0 & 0 & 0 & 14 & 0 & 14 & 35 \\
\hline \% Heavy & 2.6\% & 0\% & 0\% & 2.6\% & 0\% & 0\% & 0\% & 0\% & 0\% & 1.0\% & 0\% & 0.9\% & 1.4\% \\
\hline
\end{tabular}

\footnotetext{
*BL: Bear left, BR: Bear right, HL: Hard left, HR: Hard right, T: Thru, U: U-Turn
}

Thu Jan 18, 2024
Full Length (4 PM-6 PM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149378, Location: 43.128582, -77.422122


Out: 161 In: 107
Total: 268
[S] Fellows Road

PM Peak (4:30 PM - 5:30 PM) - Overall Peak Hour
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149378, Location: 43.128582, -77.422122
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \begin{tabular}{l}
Leg \\
Direction
\end{tabular} & \multicolumn{4}{|l|}{Penfield Road Northwestbound} & \multicolumn{4}{|l|}{Fellows Road Northbound} & \multicolumn{4}{|l|}{Penfield Road Southeastbound} & \\
\hline Time & T & HL & U & App & HR & BL & U & App & BR & T & U & App & Int \\
\hline 2024-01-18 4:30PM & 123 & 1 & 0 & 124 & 2 & 14 & 0 & 16 & 19 & 198 & 0 & 217 & 357 \\
\hline 4:45PM & 96 & 3 & 0 & 99 & 3 & 12 & 0 & 15 & 24 & 167 & 0 & 191 & 305 \\
\hline 5:00PM & 108 & 4 & 0 & 112 & 4 & 8 & 0 & 12 & 15 & 175 & 0 & 190 & 314 \\
\hline 5:15PM & 110 & 6 & 0 & 116 & 1 & 8 & 0 & 9 & 21 & 157 & 0 & 178 & 303 \\
\hline Total & 437 & 14 & 0 & 451 & 10 & 42 & 0 & 52 & 79 & 697 & 0 & 776 & 1279 \\
\hline \% Approach & 96.9\% & 3.1\% & 0\% & - & 19.2\% & 80.8\% & 0\% & - & 10.2\% & 89.8\% & 0\% & - & - \\
\hline \% Total & 34.2\% & 1.1\% & 0\% & 35.3\% & 0.8\% & 3.3\% & 0\% & 4.1\% & 6.2\% & 54.5\% & 0\% & 60.7\% & - \\
\hline PHF & 0.888 & 0.583 & - & 0.909 & 0.625 & 0.750 & - & 0.813 & 0.823 & 0.880 & - & 0.894 & 0.896 \\
\hline Lights and Motorcycles & 429 & 14 & 0 & 443 & 10 & 42 & 0 & 52 & 79 & 690 & 0 & 769 & 1264 \\
\hline \% Lights and Motorcycles & 98.2\% & 100\% & 0\% & 98.2\% & 100\% & 100\% & 0\% & 100\% & 100\% & 99.0\% & 0\% & 99.1\% & 98.8\% \\
\hline Heavy & 8 & 0 & 0 & 8 & 0 & 0 & 0 & 0 & 0 & 7 & 0 & 7 & 15 \\
\hline \% Heavy & 1.8\% & 0\% & 0\% & 1.8\% & 0\% & 0\% & 0\% & 0\% & 0\% & 1.0\% & 0\% & 0.9\% & 1.2\% \\
\hline
\end{tabular}
*BL: Bear left, BR: Bear right, HL: Hard left, HR: Hard right, T: Thru, U: U-Turn

PM Peak (4:30 PM - 5:30 PM) - Overall Peak Hour
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149378, Location: 43.128582, -77.422122


Out: 93 In: 52
Total: 145
[S] Fellows Road

Fri Jan 19, 2024
242 West Main Street, Suite 100, Rochester, NY, 14614, US
Full Length (7 AM-9 AM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149375, Location: 43.115548, -77.422969
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \begin{tabular}{l}
Leg \\
Direction
\end{tabular} & \multicolumn{4}{|l|}{Fellows Road Southbound} & \multicolumn{4}{|l|}{Furman Road Westbound} & \multicolumn{4}{|l|}{Fellows Road Northbound} & \\
\hline Time & T & L & U & App & R & L & U & App & R & T & U & App & Int \\
\hline 2024-01-19 7:00AM & 10 & 0 & 0 & 10 & 0 & 4 & 0 & 4 & 3 & 11 & 0 & 14 & 28 \\
\hline 7:15AM & 3 & 2 & 0 & 5 & 2 & 3 & 0 & 5 & 0 & 12 & 0 & 12 & 22 \\
\hline 7:30AM & 5 & 1 & 0 & 6 & 1 & 3 & 0 & 4 & 5 & 8 & 0 & 13 & 23 \\
\hline 7:45AM & 7 & 1 & 0 & 8 & 1 & 4 & 0 & 5 & 0 & 7 & 0 & 7 & 20 \\
\hline Hourly Total & 25 & 4 & 0 & 29 & 4 & 14 & 0 & 18 & 8 & 38 & 0 & 46 & 93 \\
\hline 8:00AM & 8 & 1 & 0 & 9 & 1 & 4 & 0 & 5 & 4 & 3 & 0 & 7 & 21 \\
\hline 8:15AM & 14 & 0 & 0 & 14 & 1 & 3 & 0 & 4 & 0 & 2 & 0 & 2 & 20 \\
\hline 8:30AM & 13 & 1 & 0 & 14 & 1 & 2 & 0 & 3 & 1 & 9 & 0 & 10 & 27 \\
\hline 8:45AM & 11 & 2 & 0 & 13 & 2 & 2 & 0 & 4 & 1 & 10 & 0 & 11 & 28 \\
\hline Hourly Total & 46 & 4 & 0 & 50 & 5 & 11 & 0 & 16 & 6 & 24 & 0 & 30 & 96 \\
\hline Total & 71 & 8 & 0 & 79 & 9 & 25 & 0 & 34 & 14 & 62 & 0 & 76 & 189 \\
\hline \% Approach & 89.9\% & 10.1\% & 0\% & - & 26.5\% & 73.5\% & 0\% & - & 18.4\% & 81.6\% & 0\% & - & - \\
\hline \% Total & 37.6\% & 4.2\% & 0\% & 41.8\% & 4.8\% & 13.2\% & 0\% & 18.0\% & 7.4\% & 32.8\% & 0\% & 40.2\% & - \\
\hline Lights and Motorcycles & 67 & 6 & 0 & 73 & 8 & 23 & 0 & 31 & 12 & 62 & 0 & 74 & 178 \\
\hline \% Lights and Motorcycles & 94.4\% & 75.0\% & 0\% & 92.4\% & 88.9\% & 92.0\% & 0\% & 91.2\% & 85.7\% & 100\% & 0\% & 97.4\% & 94.2\% \\
\hline Heavy & 4 & 2 & 0 & 6 & 1 & 2 & 0 & 3 & 2 & 0 & 0 & 2 & 11 \\
\hline \% Heavy & 5.6\% & 25.0\% & 0\% & 7.6\% & 11.1\% & 8.0\% & 0\% & 8.8\% & 14.3\% & 0\% & 0\% & 2.6\% & 5.8\% \\
\hline
\end{tabular}
* L: Left, R: Right, T: Thru, U: U-Turn

Full Length (7 AM-9 AM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149375, Location: 43.115548, -77.422969
[N] Fellows Road
Total: 150
In: \(79 \quad\) Out: 71
r \(\quad \infty\)


Out: 96
In: 76
Total: 172
[S] Fellows Road

Fellows Road and Furman Road Perinton Weekda... - TMC
Fri Jan 19, 2024
Forced Peak (7:15 AM - 8:15 AM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149375, Location: 43.115548, -77.422969
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \begin{tabular}{l}
Leg \\
Direction
\end{tabular} & \multicolumn{4}{|l|}{Fellows Road Southbound} & \multicolumn{4}{|l|}{Furman Road Westbound} & \multicolumn{4}{|l|}{Fellows Road Northbound} & \\
\hline Time & T & L & U & App & R & L & U & App & R & T & U & App & Int \\
\hline 2024-01-19 7:15AM & 3 & 2 & 0 & 5 & 2 & 3 & 0 & 5 & 0 & 12 & 0 & 12 & 22 \\
\hline 7:30AM & 5 & 1 & 0 & 6 & 1 & 3 & 0 & 4 & 5 & 8 & 0 & 13 & 23 \\
\hline 7:45AM & 7 & 1 & 0 & 8 & 1 & 4 & 0 & 5 & 0 & 7 & 0 & 7 & 20 \\
\hline 8:00AM & 8 & 1 & 0 & 9 & 1 & 4 & 0 & 5 & 4 & 3 & 0 & 7 & 21 \\
\hline Total & 23 & 5 & 0 & 28 & 5 & 14 & 0 & 19 & 9 & 30 & 0 & 39 & 86 \\
\hline \% Approach & 82.1\% & 17.9\% & 0\% & - & 26.3\% & 73.7\% & 0\% & - & 23.1\% & 76.9\% & 0\% & - & - \\
\hline \% Total & 26.7\% & 5.8\% & 0\% & 32.6\% & 5.8\% & 16.3\% & 0\% & 22.1\% & 10.5\% & 34.9\% & 0\% & 45.3\% & - \\
\hline PHF & 0.719 & 0.625 & - & 0.778 & 0.625 & 0.875 & - & 0.950 & 0.450 & 0.625 & - & 0.750 & 0.935 \\
\hline Lights and Motorcycles & 23 & 3 & 0 & 26 & 5 & 13 & 0 & 18 & 7 & 30 & 0 & 37 & 81 \\
\hline \% Lights and Motorcycles & 100\% & 60.0\% & 0\% & 92.9\% & 100\% & 92.9\% & 0\% & 94.7\% & 77.8\% & 100\% & 0\% & 94.9\% & 94.2\% \\
\hline Heavy & 0 & 2 & 0 & 2 & 0 & 1 & 0 & 1 & 2 & 0 & 0 & 2 & 5 \\
\hline \% Heavy & 0\% & 40.0\% & 0\% & 7.1\% & 0\% & 7.1\% & 0\% & 5.3\% & 22.2\% & 0\% & 0\% & 5.1\% & 5.8\% \\
\hline
\end{tabular}
* L: Left, R: Right, T: Thru, U: U-Turn

Forced Peak (7:15 AM - 8:15 AM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149375, Location: 43.115548, -77.422969
[N] Fellows Road
Total: 63
In: \(28 \quad\) Out: 35


Out: 37
In: 39
Total: 76
[S] Fellows Road

Fri Jan 19, 2024
242 West Main Street, Suite 100, Rochester, NY, 14614, US
AM Peak (8 AM - 9 AM) - Overall Peak Hour
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149375, Location: 43.115548, -77.422969
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \begin{tabular}{l}
Leg \\
Direction
\end{tabular} & \multicolumn{4}{|l|}{Fellows Road Southbound} & \multicolumn{4}{|l|}{Furman Road Westbound} & \multicolumn{4}{|l|}{Fellows Road Northbound} & \\
\hline Time & T & L & U & App & R & L & U & App & R & T & U & App & Int \\
\hline 2024-01-19 8:00AM & 8 & 1 & 0 & 9 & 1 & 4 & 0 & 5 & 4 & 3 & 0 & 7 & 21 \\
\hline 8:15AM & 14 & 0 & 0 & 14 & 1 & 3 & 0 & 4 & 0 & 2 & 0 & 2 & 20 \\
\hline 8:30AM & 13 & 1 & 0 & 14 & 1 & 2 & 0 & 3 & 1 & 9 & 0 & 10 & 27 \\
\hline 8:45AM & 11 & 2 & 0 & 13 & 2 & 2 & 0 & 4 & 1 & 10 & 0 & 11 & 28 \\
\hline Total & 46 & 4 & 0 & 50 & 5 & 11 & 0 & 16 & 6 & 24 & 0 & 30 & 96 \\
\hline \% Approach & 92.0\% & 8.0\% & 0\% & - & 31.3\% & 68.8\% & 0\% & - & 20.0\% & 80.0\% & 0\% & - & - \\
\hline \% Total & 47.9\% & 4.2\% & 0\% & 52.1\% & 5.2\% & 11.5\% & 0\% & 16.7\% & 6.3\% & 25.0\% & 0\% & 31.3\% & - \\
\hline PHF & 0.821 & 0.500 & - & 0.893 & 0.625 & 0.688 & - & 0.800 & 0.375 & 0.600 & - & 0.682 & 0.857 \\
\hline Lights and Motorcycles & 42 & 4 & 0 & 46 & 4 & 10 & 0 & 14 & 5 & 24 & 0 & 29 & 89 \\
\hline \% Lights and Motorcycles & 91.3\% & 100\% & 0\% & 92.0\% & 80.0\% & 90.9\% & 0\% & 87.5\% & 83.3\% & 100\% & 0\% & 96.7\% & 92.7\% \\
\hline Heavy & 4 & 0 & 0 & 4 & 1 & 1 & 0 & 2 & 1 & 0 & 0 & 1 & 7 \\
\hline \% Heavy & 8.7\% & 0\% & 0\% & 8.0\% & 20.0\% & 9.1\% & 0\% & 12.5\% & 16.7\% & 0\% & 0\% & 3.3\% & 7.3\% \\
\hline
\end{tabular}
* L: Left, R: Right, T: Thru, U: U-Turn

AM Peak (8 AM - 9 AM) - Overall Peak Hour
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149375, Location: 43.115548, -77.422969
[N] Fellows Road
Total: 79
In: \(50 \quad\) Out: 29


Out: 57
In: 30
Total: 87
[S] Fellows Road

Thu Jan 18, 2024
242 West Main Street, Suite 100, Rochester, NY, 14614, US
Full Length (4 PM-6 PM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149486, Location: 43.115548, -77.422969
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \begin{tabular}{l}
Leg \\
Direction
\end{tabular} & \multicolumn{4}{|l|}{Fellows Road Southbound} & \multicolumn{4}{|l|}{Furman Road Westbound} & \multicolumn{4}{|l|}{\begin{tabular}{l}
Fellows Road \\
Northbound
\end{tabular}} & \\
\hline Time & T & L & U & App & R & L & U & App & R & T & U & App & Int \\
\hline 2024-01-18 4:00PM & 8 & 3 & 0 & 11 & 3 & 3 & 0 & 6 & 6 & 14 & 0 & 20 & 37 \\
\hline 4:15PM & 15 & 4 & 0 & 19 & 1 & 4 & 1 & 6 & 4 & 12 & 0 & 16 & 41 \\
\hline 4:30PM & 12 & 3 & 0 & 15 & 4 & 2 & 0 & 6 & 2 & 9 & 0 & 11 & 32 \\
\hline 4:45PM & 19 & 3 & 0 & 22 & 2 & 5 & 0 & 7 & 3 & 14 & 0 & 17 & 46 \\
\hline Hourly Total & 54 & 13 & 0 & 67 & 10 & 14 & 1 & 25 & 15 & 49 & 0 & 64 & 156 \\
\hline 5:00PM & 14 & 3 & 0 & 17 & 4 & 0 & 1 & 5 & 6 & 7 & 0 & 13 & 35 \\
\hline 5:15PM & 14 & 3 & 0 & 17 & 0 & 7 & 0 & 7 & 3 & 9 & 0 & 12 & 36 \\
\hline 5:30PM & 9 & 5 & 0 & 14 & 3 & 4 & 0 & 7 & 2 & 8 & 0 & 10 & 31 \\
\hline 5:45PM & 12 & 1 & 0 & 13 & 2 & 0 & 0 & 2 & 3 & 13 & 0 & 16 & 31 \\
\hline Hourly Total & 49 & 12 & 0 & 61 & 9 & 11 & 1 & 21 & 14 & 37 & 0 & 51 & 133 \\
\hline Total & 103 & 25 & 0 & 128 & 19 & 25 & 2 & 46 & 29 & 86 & 0 & 115 & 289 \\
\hline \% Approach & 80.5\% & 19.5\% & 0\% & - & 41.3\% & 54.3\% & 4.3\% & - & 25.2\% & 74.8\% & 0\% & - & - \\
\hline \% Total & 35.6\% & 8.7\% & 0\% & 44.3\% & 6.6\% & 8.7\% & 0.7\% & 15.9\% & 10.0\% & 29.8\% & 0\% & 39.8\% & - \\
\hline Lights and Motorcycles & 103 & 25 & 0 & 128 & 19 & 23 & 0 & 42 & 29 & 86 & 0 & 115 & 285 \\
\hline \% Lights and Motorcycles & 100\% & 100\% & 0\% & 100\% & 100\% & 92.0\% & 0\% & 91.3\% & 100\% & 100\% & 0\% & 100\% & 98.6\% \\
\hline Heavy & 0 & 0 & 0 & 0 & 0 & 2 & 2 & 4 & 0 & 0 & 0 & 0 & 4 \\
\hline \% Heavy & 0\% & 0\% & 0\% & 0\% & 0\% & 8.0\% & 100\% & 8.7\% & 0\% & 0\% & 0\% & 0\% & 1.4\% \\
\hline
\end{tabular}
* L: Left, R: Right, T: Thru, U: U-Turn

Full Length (4 PM-6 PM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149486, Location: 43.115548, -77.422969
[N] Fellows Road
Total: 233
In: \(128 \quad\) Out: 105
N~~N

Out: 128
In: 115
Total: 243
[S] Fellows Road

PM Peak (4 PM - 5 PM) - Overall Peak Hour
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149486, Location: 43.115548, -77.422969
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \begin{tabular}{l}
Leg \\
Direction
\end{tabular} & Fellows Road Southbound & & & & \multicolumn{4}{|l|}{Furman Road Westbound} & \multicolumn{4}{|l|}{Fellows Road Northbound} & \\
\hline Time & T & L & U & App & R & L & U & App & R & T & U & App & Int \\
\hline 2024-01-18 4:00PM & 8 & 3 & 0 & 11 & 3 & 3 & 0 & 6 & 6 & 14 & 0 & 20 & 37 \\
\hline 4:15PM & 15 & 4 & 0 & 19 & 1 & 4 & 1 & 6 & 4 & 12 & 0 & 16 & 41 \\
\hline 4:30PM & 12 & 3 & 0 & 15 & 4 & 2 & 0 & 6 & 2 & 9 & 0 & 11 & 32 \\
\hline 4:45PM & 19 & 3 & 0 & 22 & 2 & 5 & 0 & 7 & 3 & 14 & 0 & 17 & 46 \\
\hline Total & 54 & 13 & 0 & 67 & 10 & 14 & 1 & 25 & 15 & 49 & 0 & 64 & 156 \\
\hline \% Approach & 80.6\% & 19.4\% & 0\% & - & 40.0\% & 56.0\% & 4.0\% & - & 23.4\% & 76.6\% & 0\% & - & - \\
\hline \% Total & 34.6\% & 8.3\% & 0\% & 42.9\% & 6.4\% & 9.0\% & 0.6\% & 16.0\% & 9.6\% & 31.4\% & 0\% & 41.0\% & - \\
\hline PHF & 0.711 & 0.813 & - & 0.761 & 0.625 & 0.700 & 0.250 & 0.893 & 0.625 & 0.875 & - & 0.800 & 0.848 \\
\hline Lights and Motorcycles & 54 & 13 & 0 & 67 & 10 & 12 & 0 & 22 & 15 & 49 & 0 & 64 & 153 \\
\hline \% Lights and Motorcycles & 100\% & 100\% & 0\% & 100\% & 100\% & 85.7\% & 0\% & 88.0\% & 100\% & 100\% & 0\% & 100\% & 98.1\% \\
\hline Heavy & 0 & 0 & 0 & 0 & 0 & 2 & 1 & 3 & 0 & 0 & 0 & 0 & 3 \\
\hline \% Heavy & 0\% & 0\% & 0\% & 0\% & 0\% & 14.3\% & 100\% & 12.0\% & 0\% & 0\% & 0\% & 0\% & 1.9\% \\
\hline
\end{tabular}
* L: Left, R: Right, T: Thru, U: U-Turn

PM Peak (4 PM - 5 PM) - Overall Peak Hour
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149486, Location: 43.115548, -77.422969
[N] Fellows Road
Total: 126
In: \(67 \quad\) Out: 59


Out: 68
In: 64
Total: 132
[S] Fellows Road

Thu Jan 18, 2024 242 West Main Street, Suite 100, Rochester, NY, 14614, US
Forced Peak (4:30 PM - 5:30 PM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149486, Location: 43.115548, -77.422969
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \begin{tabular}{l}
Leg \\
Direction
\end{tabular} & Fellows Road Southbound & & & & \multicolumn{4}{|l|}{Furman Road Westbound} & \multicolumn{4}{|l|}{Fellows Road Northbound} & \\
\hline Time & T & L & U & App & R & L & U & App & R & T & U & App & Int \\
\hline 2024-01-18 4:30PM & 12 & 3 & 0 & 15 & 4 & 2 & 0 & 6 & 2 & 9 & 0 & 11 & 32 \\
\hline 4:45PM & 19 & 3 & 0 & 22 & 2 & 5 & 0 & 7 & 3 & 14 & 0 & 17 & 46 \\
\hline 5:00PM & 14 & 3 & 0 & 17 & 4 & 0 & 1 & 5 & 6 & 7 & 0 & 13 & 35 \\
\hline 5:15PM & 14 & 3 & 0 & 17 & 0 & 7 & 0 & 7 & 3 & 9 & 0 & 12 & 36 \\
\hline Total & 59 & 12 & 0 & 71 & 10 & 14 & 1 & 25 & 14 & 39 & 0 & 53 & 149 \\
\hline \% Approach & 83.1\% & 16.9\% & 0\% & - & 40.0\% & 56.0\% & 4.0\% & - & 26.4\% & 73.6\% & 0\% & - & - \\
\hline \% Total & 39.6\% & 8.1\% & 0\% & 47.7\% & 6.7\% & 9.4\% & 0.7\% & 16.8\% & 9.4\% & 26.2\% & 0\% & 35.6\% & - \\
\hline PHF & 0.776 & 1.000 & - & 0.807 & 0.625 & 0.500 & 0.250 & 0.893 & 0.583 & 0.696 & - & 0.779 & 0.810 \\
\hline Lights and Motorcycles & 59 & 12 & 0 & 71 & 10 & 14 & 0 & 24 & 14 & 39 & 0 & 53 & 148 \\
\hline \% Lights and Motorcycles & 100\% & 100\% & 0\% & 100\% & 100\% & 100\% & 0\% & 96.0\% & 100\% & 100\% & 0\% & 100\% & 99.3\% \\
\hline Heavy & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 0 & 0 & 0 & 0 & 1 \\
\hline \% Heavy & 0\% & 0\% & 0\% & 0\% & 0\% & 0\% & 100\% & 4.0\% & 0\% & 0\% & 0\% & 0\% & 0.7\% \\
\hline
\end{tabular}
* L: Left, R: Right, T: Thru, U: U-Turn

Forced Peak (4:30 PM - 5:30 PM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149486, Location: 43.115548, -77.422969
[N] Fellows Road
Total: 120
In: \(71 \quad\) Out: 49
กั N


Out: 73
In: 53
Total: 126
[S] Fellows Road

Fri Jan 19, 2024
242 West Main Street, Suite 100, Rochester, NY, 14614, US
Full Length (7 AM-9 AM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149388, Location: 43.108373, -77.422617
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \begin{tabular}{l}
Leg \\
Direction
\end{tabular} & \multicolumn{5}{|l|}{Fellows Road Southbound} & \multicolumn{4}{|l|}{Whitney Road Westbound} & \multicolumn{4}{|l|}{Roxwell Court Northbound} & \multicolumn{5}{|l|}{Whitney Road Eastbound} & \\
\hline Time & R & T & L & U & App & R & T & L U & App & R T & L & & App & R & T & L & U & App & Int \\
\hline 2024-01-19 7:00AM & 6 & 1 & 11 & 0 & 18 & 3 & 75 & 0 0 & 78 & \(0 \quad 0\) & 0 & 0 & 0 & 0 & 20 & 5 & 0 & 25 & 121 \\
\hline 7:15AM & 10 & 0 & 5 & 0 & 15 & 4 & 82 & 0 & 86 & 0 & 0 & 0 & 0 & 0 & 20 & 3 & 0 & 23 & 124 \\
\hline 7:30AM & 17 & 0 & 7 & 0 & 24 & 5 & 89 & 10 & 95 & 0 & 1 & 0 & 1 & 0 & 21 & 6 & 0 & 27 & 147 \\
\hline 7:45AM & 8 & 0 & 6 & 0 & 14 & 3 & 60 & 0 0 & 63 & 0 & 0 & 0 & 0 & 0 & 29 & 2 & 0 & 31 & 108 \\
\hline Hourly Total & 41 & 1 & 29 & 0 & 71 & 15 & 306 & 10 & 322 & 0 & 1 & 0 & 1 & 0 & 90 & 16 & 0 & 106 & 500 \\
\hline 8:00AM & 9 & 0 & 7 & 0 & 16 & 1 & 73 & 0 & 74 & 0 & 2 & 0 & 2 & 0 & 30 & 7 & 0 & 37 & 129 \\
\hline 8:15AM & 17 & 1 & 9 & 0 & 27 & 1 & 61 & 0 & 62 & 10 & 1 & 0 & 2 & 0 & 32 & 2 & 0 & 34 & 125 \\
\hline 8:30AM & 9 & 0 & 14 & 0 & 23 & 3 & 61 & 0 & 64 & 0 & 3 & 0 & 3 & 1 & 34 & 4 & 0 & 39 & 129 \\
\hline 8:45AM & 8 & 0 & 8 & 0 & 16 & 3 & 65 & 0 & 68 & 0 & 0 & 0 & 0 & 0 & 32 & 5 & 0 & 37 & 121 \\
\hline Hourly Total & 43 & 1 & 38 & 0 & 82 & 8 & 260 & 0 0 & 268 & 10 & 6 & 0 & 7 & 1 & 128 & 18 & 0 & 147 & 504 \\
\hline Total & 84 & 2 & 67 & 0 & 153 & 23 & 566 & 10 & 590 & 10 & 7 & 0 & 8 & 1 & 218 & 34 & 0 & 253 & 1004 \\
\hline \% Approach & 54.9\% & 1.3\% & 43.8\% & 0\% & - & 3.9\% & 95.9\% & 0.2\% 0\% & - & 12.5\% 0\% & 87.5\% & 0\% & - & 0.4\% & 86.2\% & 13.4\% & & - & \\
\hline \% Total & 8.4\% & 0.2\% & 6.7\% & 0\% & 15.2\% & 2.3\% & 56.4\% & 0.1\% 0\% & 58.8\% & 0.1\% 0\% & 0.7\% & & 0.8\% & 0.1\% & 21.7\% & 3.4\% & 0\% & 25.2\% & - \\
\hline Lights and Motorcycles & 80 & 2 & 62 & 0 & 144 & 20 & 555 & 10 & 576 & 10 & 6 & 0 & 7 & 1 & 195 & 32 & 0 & 228 & 955 \\
\hline \% Lights and Motorcycles & 95.2\% & 100\% & 92.5\% & 0\% & 94.1\% & 87.0\% & 98.1\% & 100\% 0\% 9 & 97.6\% & 100\% 0\% & 85.7\% & 0\% & 87.5\% & 100\% & 89.4\% & 94.1\% & 0\% & 90.1\% & 95.1\% \\
\hline Heavy & 4 & 0 & 5 & 0 & 9 & 3 & 11 & 0 & 14 & \(0 \quad 0\) & 1 & 0 & 1 & 0 & 23 & 2 & 0 & 25 & 49 \\
\hline \% Heavy & 4.8\% & 0\% & 7.5\% & 0\% & 5.9\% & 13.0\% & 1.9\% & 0\% 0\% & 2.4\% & 0\% 0\% & 14.3\% & 0\% & 12.5\% & 0\% & 10.6\% & 5.9\% & 0\% & 9.9\% & 4.9\% \\
\hline
\end{tabular}
* L: Left, R: Right, T: Thru, U: U-Turn

Full Length (7 AM-9 AM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149388, Location: 43.108373, -77.422617
[N] Fellows Road
Total: 210
In: 153 Out: 57


Out: \(4 \quad\) In: 8
Total: 12
[S] Roxwell Court

Fri Jan 19, 2024
242 West Main Street, Suite 100, Rochester, NY, 14614, US
Forced Peak (7:15 AM - 8:15 AM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149388, Location: 43.108373, -77.422617
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \begin{tabular}{l}
Leg \\
Direction
\end{tabular} & \multicolumn{3}{|l|}{Fellows Road Southbound} & \multicolumn{5}{|l|}{Whitney Road Westbound} & \multicolumn{5}{|l|}{Roxwell Court Northbound} & \multicolumn{5}{|l|}{Whitney Road Eastbound} & \\
\hline Time & R \(\quad\) T & L U & App & R & T & L & & App & R & T & L & U & App & R & T & L & U & App & Int \\
\hline 2024-01-19 7:15AM & 100 & 50 & 15 & 4 & 82 & 0 & 0 & 86 & 0 & 0 & 0 & 0 & 0 & 0 & 20 & 3 & 0 & 23 & 124 \\
\hline 7:30AM & 170 & 70 & 24 & 5 & 89 & 1 & 0 & 95 & 0 & 0 & 1 & 0 & 1 & 0 & 21 & 6 & 0 & 27 & 147 \\
\hline 7:45AM & 80 & 60 & 14 & 3 & 60 & 0 & & 63 & 0 & 0 & 0 & 0 & 0 & 0 & 29 & 2 & 0 & 31 & 108 \\
\hline 8:00AM & 90 & 70 & 16 & 1 & 73 & 0 & 0 & 74 & 0 & 0 & 2 & 0 & 2 & 0 & 30 & 7 & 0 & 37 & 129 \\
\hline Total & 440 & 250 & 69 & 13 & 304 & 1 & 0 & 318 & 0 & 0 & 3 & 0 & 3 & 0 & 100 & 18 & 0 & 118 & 508 \\
\hline \% Approach & 63.8\% 0\% & 36.2\% 0\% & - & 4.1\% & 95.6\% & 0.3\% & & - & 0\% & & 100\% & 0\% & - & 0\% & 84.7\% & 15.3\% & 0\% & - & \\
\hline \% Total & 8.7\% 0\% & 4.9\% 0\% & 13.6\% & 2.6\% & 59.8\% & 0.2\% & 0\% & 62.6\% & 0\% & 0\% & 0.6\% & 0\% & 0.6\% & 0\% & 19.7\% & 3.5\% & 0\% & 23.2\% & \\
\hline PHF & 0.647 & 0.893 & 0.719 & 0.650 & 0.854 & 0.250 & - & 0.837 & - & - & 0.375 & - & 0.375 & - & 0.833 & 0.643 & - & 0.797 & 0.864 \\
\hline Lights and Motorcycles & 420 & 250 & 67 & 11 & 298 & 1 & 0 & 310 & 0 & 0 & 3 & 0 & 3 & 0 & 91 & 16 & 0 & 107 & 487 \\
\hline \% Lights and Motorcycles & 95.5\% 0\% & 100\% 0\% & 97.1\% & 84.6\% & 98.0\% & 100\% & 0\% & 97.5\% & 0\% & 0\% & 100\% & 0\% & 100\% & 0\% & 91.0\% & 88.9\% & 0\% & 90.7\% & 95.9\% \\
\hline Heavy & 20 & \(0 \quad 0\) & 2 & 2 & 6 & 0 & & 8 & 0 & 0 & 0 & 0 & 0 & 0 & 9 & 2 & 0 & 11 & 21 \\
\hline \% Heavy & 4.5\% 0\% & 0\% 0\% & 2.9\% & 15.4\% & 2.0\% & & & 2.5\% & 0\% & & 0\% & & 0\% & 0\% & 9.0\% & 11.1\% & 0\% & 9.3\% & 4.1\% \\
\hline
\end{tabular}
* L: Left, R: Right, T: Thru, U: U-Turn

Forced Peak (7:15 AM - 8:15 AM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149388, Location: 43.108373, -77.422617
[N] Fellows Road
Total: 100
In: 69 Out: 31


Out: \(1 \quad\) In: 3
Total: 4
[S] Roxwell Court

Fri Jan 19, 2024
AM Peak (7:30 AM - 8:30 AM) - Overall Peak Hour
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149388, Location: 43.108373, -77.422617
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \begin{tabular}{l}
Leg \\
Direction
\end{tabular} & \multicolumn{4}{|l|}{Fellows Road Southbound} & \multicolumn{4}{|l|}{Whitney Road Westbound} & \multicolumn{4}{|l|}{\begin{tabular}{l}
Roxwell Court \\
Northbound
\end{tabular}} & \multicolumn{5}{|l|}{Whitney Road Eastbound} & \\
\hline Time & R & T & L U & App & R & T & L U & App & R T & L & U & App & R & T & L & U & App & Int \\
\hline 2024-01-19 7:30AM & 17 & 0 & 70 & 24 & 5 & 89 & 10 & 95 & 0 & 1 & 0 & 1 & 0 & 21 & 6 & 0 & 27 & 147 \\
\hline 7:45AM & 8 & 0 & 60 & 14 & 3 & 60 & 0 0 & 63 & 0 0 & 0 & 0 & 0 & 0 & 29 & 2 & 0 & 31 & 108 \\
\hline 8:00AM & 9 & 0 & 70 & 16 & 1 & 73 & 0 & 74 & 0 & 2 & 0 & 2 & 0 & 30 & 7 & 0 & 37 & 129 \\
\hline 8:15AM & 17 & 1 & 90 & 27 & 1 & 61 & 0 & 62 & 10 & 1 & 0 & 2 & 0 & 32 & 2 & 0 & 34 & 125 \\
\hline Total & 51 & 1 & 290 & 81 & 10 & 283 & 10 & 294 & 10 & 4 & 0 & 5 & 0 & 112 & 17 & 0 & 129 & 509 \\
\hline \% Approach & 63.0\% & 1.2\% & 35.8\% 0\% & - & 3.4\% & 96.3\% & 0.3\% 0\% & - & 20.0\% 0\% & 80.0\% & 0\% & - & 0\% & 86.8\% & 13.2\% & 0\% & - & \\
\hline \% Total & 10.0\% & 0.2\% & 5.7\% 0\% & 15.9\% & 2.0\% & 55.6\% & 0.2\% 0\% & 57.8\% & 0.2\% 0\% & 0.8\% & 0\% & 1.0\% & 0\% & 22.0\% & 3.3\% & 0\% & 25.3\% & \\
\hline PHF & 0.750 & 0.250 & 0.806 & 0.750 & 0.500 & 0.795 & 0.250 & 0.774 & 0.250 & 0.500 & - & 0.625 & - & 0.875 & 0.607 & - & 0.872 & 0.866 \\
\hline Lights and Motorcycles & 48 & 1 & \(28 \quad 0\) & 77 & 8 & 277 & 10 & 286 & 10 & 4 & 0 & 5 & 0 & 101 & 15 & 0 & 116 & 484 \\
\hline \% Lights and Motorcycles & 94.1\% & 100\% & 96.6\% 0\% & 95.1\% & 80.0\% & 97.9\% & 100\% 0\% & 97.3\% & 100\% 0\% & 100\% & 0\% & 100\% & 0\% & 90.2\% & 88.2\% & 0\% & 89.9\% & 95.1\% \\
\hline Heavy & 3 & 0 & 10 & 4 & 2 & 6 & \(0 \quad 0\) & 8 & \(0 \quad 0\) & 0 & 0 & 0 & 0 & 11 & 2 & 0 & 13 & 25 \\
\hline \% Heavy & 5.9\% & 0\% & 3.4\% 0\% & 4.9\% & 20.0\% & 2.1\% & 0\% 0\% & 2.7\% & 0\% 0\% & 0\% & & 0\% & 0\% & 9.8\% & 11.8\% & 0\% & 10.1\% & 4.9\% \\
\hline
\end{tabular}
* L: Left, R: Right, T: Thru, U: U-Turn

AM Peak (7:30 AM - 8:30 AM) - Overall Peak Hour
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149388, Location: 43.108373, -77.422617
[N] Fellows Road
Total: 108
In: 81 Out: 27
[W] Whitney Road
Total: 467
In: \(129 \quad\) Out: 338


Out: \(2 \quad\) In: 5
Total: 7
[S] Roxwell Court

Fellows Road and Whitney Road/Roxwell Court ... - TMC
Thu Jan 18, 2024
Full Length (4 PM-6 PM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149384, Location: 43.108373, -77.422617
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \begin{tabular}{l}
Leg \\
Direction
\end{tabular} & \multicolumn{5}{|l|}{Fellows Road Southbound} & \multicolumn{5}{|l|}{Whitney Road Westbound} & \multicolumn{5}{|l|}{Roxwell Court Northbound} & \multicolumn{5}{|l|}{Whitney Road Eastbound} & \\
\hline Time & R & T & L & U & App & R & T & L & U & App & R & T & L & U & App & R & T & L & & App & Int \\
\hline 2024-01-18 4:00PM & 8 & 0 & 7 & 0 & 15 & 10 & 43 & 0 & 0 & 53 & 0 & 0 & 0 & 0 & 0 & 0 & 64 & 16 & 0 & 80 & 148 \\
\hline 4:15PM & 13 & 0 & 10 & 0 & 23 & 7 & 46 & 0 & 0 & 53 & 0 & 0 & 1 & 0 & 1 & 0 & 61 & 14 & 0 & 75 & 152 \\
\hline 4:30PM & 13 & 0 & 6 & 0 & 19 & 5 & 37 & 0 & 0 & 42 & 0 & 1 & 1 & 0 & 2 & 1 & 84 & 10 & 0 & 95 & 158 \\
\hline 4:45PM & 8 & 0 & 10 & 0 & 18 & 9 & 50 & 0 & 0 & 59 & 0 & 0 & 1 & 0 & 1 & 0 & 54 & 17 & 0 & 71 & 149 \\
\hline Hourly Total & 42 & 0 & 33 & 0 & 75 & 31 & 176 & 0 & 0 & 207 & 0 & 1 & 3 & 0 & 4 & 1 & 263 & 57 & 0 & 321 & 607 \\
\hline 5:00PM & 7 & 0 & 8 & 0 & 15 & 3 & 42 & 0 & 0 & 45 & 0 & 0 & 0 & 0 & 0 & 1 & 75 & 19 & 0 & 95 & 155 \\
\hline 5:15PM & 19 & 0 & 5 & 0 & 24 & 3 & 58 & 0 & 0 & 61 & 0 & 0 & 1 & 0 & 1 & 2 & 82 & 13 & 0 & 97 & 183 \\
\hline 5:30PM & 13 & 0 & 6 & 0 & 19 & 4 & 40 & 0 & 0 & 44 & 0 & 0 & 0 & 0 & 0 & 1 & 80 & 20 & 0 & 101 & 164 \\
\hline 5:45PM & 5 & 0 & 5 & 0 & 10 & 7 & 41 & 0 & 0 & 48 & 0 & 0 & 0 & 0 & 0 & 0 & 77 & 23 & 0 & 100 & 158 \\
\hline Hourly Total & 44 & 0 & 24 & 0 & 68 & 17 & 181 & 0 & 0 & 198 & 0 & 0 & 1 & 0 & 1 & 4 & 314 & 75 & 0 & 393 & 660 \\
\hline Total & 86 & 0 & 57 & 0 & 143 & 48 & 357 & 0 & 0 & 405 & 0 & 1 & 4 & 0 & 5 & 5 & 577 & 132 & 0 & 714 & 1267 \\
\hline \% Approach & 60.1\% 0\% & 0\% & 39.9\% & 0\% & - & 11.9\% & 88.1\% & 0\% & 0\% & - & 0\% & 20.0\% & 80.0\% & 0\% & - & 0.7\% & 80.8\% & 18.5\% & 0\% & - & \\
\hline \% Total & 6.8\% 0\% & 0\% & 4.5\% & 0\% & 11.3\% & 3.8\% & 28.2\% & 0\% & 0\% & 32.0\% & 0\% & 0.1\% & 0.3\% & 0\% & 0.4\% & 0.4\% & 45.5\% & 10.4\% & 0\% & 56.4\% & - \\
\hline Lights and Motorcycles & 85 & 0 & 56 & 0 & 141 & 47 & 352 & 0 & 0 & 399 & 0 & 1 & 4 & 0 & 5 & 5 & 574 & 132 & 0 & 711 & 1256 \\
\hline \% Lights and Motorcycles & 98.8\% 0\% & 0\% & 98.2\% & 0\% & 98.6\% & 97.9\% & 98.6\% & 0\% & 0\% & 98.5\% & 0\% & 100\% & 100\% & 0\% & 100\% & 100\% & 99.5\% & 100\% & 0\% & 99.6\% & 99.1\% \\
\hline Heavy & 1 & 0 & 1 & 0 & 2 & 1 & 5 & 0 & 0 & 6 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 0 & 0 & 3 & 11 \\
\hline \% Heavy & 1.2\% 0 & 0\% & 1.8\% & 0\% & 1.4\% & 2.1\% & 1.4\% & 0\% & & 1.5\% & 0\% & 0\% & 0\% & 0\% & 0\% & 0\% & 0.5\% & 0\% & 0\% & 0.4\% & 0.9\% \\
\hline
\end{tabular}
* L: Left, R: Right, T: Thru, U: U-Turn

Full Length (4 PM-6 PM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149384, Location: 43.108373, -77.422617
[N] Fellows Road
Total: 324
In: 143 Out: 181
\(\infty\) ○


Out: \(5 \quad\) In: 5
Total: 10
[S] Roxwell Court

Fellows Road and Whitney Road/Roxwell Court ... - TMC
Thu Jan 18, 2024
Forced Peak (4:30 PM - 5:30 PM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149384, Location: 43.108373, -77.422617
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \begin{tabular}{l}
Leg \\
Direction
\end{tabular} & \multicolumn{5}{|l|}{Fellows Road Southbound} & \multicolumn{5}{|l|}{Whitney Road Westbound} & \multicolumn{5}{|l|}{\begin{tabular}{l}
Roxwell Court \\
Northbound
\end{tabular}} & \multicolumn{5}{|l|}{Whitney Road Eastbound} & \\
\hline Time & R & T & L & U & App & R & T & L & U & App & R & T & L & U & App & R & T & L & U & App & Int \\
\hline 2024-01-18 4:30PM & 13 & 0 & 6 & 0 & 19 & 5 & 37 & 0 & 0 & 42 & 0 & 1 & 1 & 0 & 2 & 1 & 84 & 10 & 0 & 95 & 158 \\
\hline 4:45PM & 8 & 0 & 10 & 0 & 18 & 9 & 50 & 0 & 0 & 59 & 0 & 0 & 1 & 0 & 1 & 0 & 54 & 17 & 0 & 71 & 149 \\
\hline 5:00PM & 7 & 0 & 8 & 0 & 15 & 3 & 42 & 0 & 0 & 45 & 0 & 0 & 0 & 0 & 0 & 1 & 75 & 19 & 0 & 95 & 155 \\
\hline 5:15PM & 19 & 0 & 5 & 0 & 24 & 3 & 58 & 0 & 0 & 61 & 0 & 0 & 1 & 0 & 1 & 2 & 82 & 13 & 0 & 97 & 183 \\
\hline Total & 47 & 0 & 29 & 0 & 76 & 20 & 187 & 0 & 0 & 207 & 0 & 1 & 3 & 0 & 4 & 4 & 295 & 59 & 0 & 358 & 645 \\
\hline \% Approach & 61.8\% 0\% & 0\% & 38.2\% & 0\% & - & 9.7\% & 90.3\% & 0\% & 0\% & - & 0\% & 25.0\% & 75.0\% & 0\% & - & 1.1\% & 82.4\% & 16.5\% & 0\% & & \\
\hline \% Total & 7.3\% 0\% & 0\% & 4.5\% & 0\% & 11.8\% & 3.1\% & 29.0\% & 0\% & 0\% & 32.1\% & 0\% & 0.2\% & 0.5\% & 0\% & 0.6\% & 0.6\% & 45.7\% & 9.1\% & 0\% & 55.5\% & \\
\hline PHF & 0.618 & - & 0.725 & - & 0.792 & 0.556 & 0.806 & - & - & 0.848 & - & 0.250 & 0.750 & - & 0.500 & 0.500 & 0.878 & 0.776 & - & 0.923 & 0.881 \\
\hline Lights and Motorcycles & 47 & 0 & 29 & 0 & 76 & 20 & 186 & 0 & 0 & 206 & 0 & 1 & 3 & 0 & 4 & 4 & 294 & 59 & 0 & 357 & 643 \\
\hline \% Lights and Motorcycles & 100\% 0\% & 0\% & 100\% & 0\% & 100\% & 100\% & 99.5\% & 0\% & 0\% & 99.5\% & 0\% & 100\% & 100\% & 0\% & 100\% & 100\% & 99.7\% & 100\% & 0\% & 99.7\% & 99.7\% \\
\hline Heavy & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 1 & 2 \\
\hline \% Heavy & 0\% 0\% & 0\% & 0\% & & 0\% & 0\% & 0.5\% & 0\% & 0\% & 0.5\% & 0\% & 0\% & 0\% & & 0\% & 0\% & 0.3\% & 0\% & 0\% & 0.3\% & 0.3\% \\
\hline
\end{tabular}
* L: Left, R: Right, T: Thru, U: U-Turn

Forced Peak (4:30 PM - 5:30 PM)
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149384, Location: 43.108373, -77.422617
[N] Fellows Road
Total: 156
In: 76 Out: 80


Out: \(4 \quad\) In: 4
Total: 8
[S] Roxwell Court

PM Peak (5 PM - 6 PM) - Overall Peak Hour
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149384, Location: 43.108373, -77.422617
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \begin{tabular}{l}
Leg \\
Direction
\end{tabular} & \multicolumn{4}{|l|}{Fellows Road Southbound} & \multicolumn{5}{|l|}{Whitney Road Westbound} & \multicolumn{5}{|l|}{Roxwell Court Northbound} & \multicolumn{5}{|l|}{Whitney Road Eastbound} & \\
\hline Time & R T & L & U & App & R & T & L & U & App & R & T & L & U & App & R & T & L & U & App & Int \\
\hline 2024-01-18 5:00PM & 70 & 8 & 0 & 15 & 3 & 42 & 0 & 0 & 45 & 0 & 0 & 0 & 0 & 0 & 1 & 75 & 19 & 0 & 95 & 155 \\
\hline 5:15PM & 190 & 5 & 0 & 24 & 3 & 58 & 0 & 0 & 61 & 0 & 0 & 1 & 0 & 1 & 2 & 82 & 13 & 0 & 97 & 183 \\
\hline 5:30PM & 130 & 6 & 0 & 19 & 4 & 40 & 0 & 0 & 44 & 0 & 0 & 0 & 0 & 0 & 1 & 80 & 20 & 0 & 101 & 164 \\
\hline 5:45PM & 50 & 5 & 0 & 10 & 7 & 41 & 0 & 0 & 48 & 0 & 0 & 0 & 0 & 0 & 0 & 77 & 23 & 0 & 100 & 158 \\
\hline Total & 440 & 24 & 0 & 68 & 17 & 181 & 0 & 0 & 198 & 0 & 0 & 1 & 0 & 1 & 4 & 314 & 75 & 0 & 393 & 660 \\
\hline \% Approach & 64.7\% 0\% & 35.3\% 0\% & 0\% & - & 8.6\% & 91.4\% & 0\% & 0\% & - & 0\% & 0\% & 100\% & 0\% & - & 1.0\% & 79.9\% & 19.1\% & 0\% & & - - \\
\hline \% Total & 6.7\% 0\% & 3.6\% 0 & 0\% & 10.3\% & 2.6\% & 27.4\% & 0\% & 0\% & 30.0\% & & 0\% & 0.2\% & 0\% & 0.2\% & 0.6\% & 47.6\% & 11.4\% & 0\% & 59.5\% & - \\
\hline PHF & 0.579 & 0.750 & - & 0.708 & 0.607 & 0.780 & - & - & 0.811 & & - & 0.250 & - & 0.250 & 0.500 & 0.957 & 0.815 & - & 0.973 & 0.902 \\
\hline Lights and Motorcycles & 440 & 24 & 0 & 68 & 17 & 179 & 0 & 0 & 196 & 0 & 0 & 1 & 0 & 1 & 4 & 313 & 75 & 0 & 392 & 657 \\
\hline \% Lights and Motorcycles & 100\% 0\% & 100\% 0 & 0\% & 100\% & 100\% & 98.9\% & 0\% & 0\% & 99.0\% & 0\% & 0\% & 100\% & 0\% & 100\% & 100\% & 99.7\% & 100\% & 0\% & 99.7\% & 99.5\% \\
\hline Heavy & \(0 \quad 0\) & 0 & 0 & 0 & 0 & 2 & 0 & 0 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 1 & 3 \\
\hline \% Heavy & 0\% 0\% & 0\% 0 & 0\% & 0\% & 0\% & 1.1\% & 0\% & 0\% & 1.0\% & 0\% & 0\% & 0\% & 0\% & 0\% & 0\% & 0.3\% & 0\% & 0\% & 0.3\% & 0.5\% \\
\hline
\end{tabular}
* L: Left, R: Right, T: Thru, U: U-Turn

PM Peak (5 PM - 6 PM) - Overall Peak Hour
All Classes (Lights and Motorcycles, Heavy)
All Movements
ID: 1149384, Location: 43.108373, -77.422617
[N] Fellows Road
Total: 160
In: 68 Out: 92
寸 ~


Out: \(4 \quad\) In: 1
Total: 5
[S] Roxwell Court

\section*{APPENDIX B: MISCELLANEOUS CALCULATIONS}

\section*{PASSERO \\ engineering anchitecture}

Fellows Road Properties, Town of Perinton, NY
Documentation of Ambient Traffic Volume Growth
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Roadway & Segment starts at & Segment end at & 2010 & 2011 & 2012 & 2013 & 2014 & 2015 & 2016 & 2017 & 2018 & 2019 & Annual Growth \\
\hline Penfield Rd & RT 250 & Salt Rd & & & & 11,432 & & & 11,313 & & & 12,162 & 1.04\% \\
\hline \multirow[t]{2}{*}{Whitney Rd} & \multirow[t]{2}{*}{CR18 PEFLD} & \multirow[t]{2}{*}{CR 42} & \multirow[t]{2}{*}{11,573} & & & \multirow[t]{2}{*}{11,474} & & & \multirow[t]{2}{*}{10,797} & & & & -1.15\% \\
\hline & & & & & & & & & & & & AVERAGE & -0.06\% \\
\hline
\end{tabular}

\begin{tabular}{|c|c|c|c|c|c|c|}
\hline Type & Northbound & Southbound & Direction Eastbound & Westbound & Unknown & Totals \\
\hline Left turn & 1 & & & & & 1 \\
\hline Rear-end & & & & 1 & & 1 \\
\hline Overtaking & & & & & & 0 \\
\hline Right Angle & & & & & & 0 \\
\hline Right Turn & & & & & & 0 \\
\hline Head On & & & & 1 & & 1 \\
\hline Side-swipe & & & & & & 0 \\
\hline Fixed Object & 1 & & & & & 1 \\
\hline Backing & & & & & & 0 \\
\hline Other & & & & & & 0 \\
\hline Bike/Ped & & & & & & 0 \\
\hline Animal & & & & 1 & & 1 \\
\hline Totals & 2 & 0 & 0 & 3 & 0 & 5 \\
\hline PDO & 2 & & & & & \\
\hline Injury & 3 & & & & & \\
\hline Injury + PDO & & & & & & \\
\hline Fatal & & & & & & \\
\hline NR & & & & & & \\
\hline Total & 5 & & & & & \\
\hline
\end{tabular}


PROJECT:
LOCATION: PEAK HOUR:

Fellows Road Properties
Town of Perinton, NY
AM Peak


PROJECT:
LOCATION: PEAK HOUR:

Fellows Road Properties
Town of Perinton,NY
PM Peak

\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{9}{|c|}{PROJECT DEtalls} \\
\hline \multicolumn{9}{|l|}{Project Name: Fellows Rd Properties Type of Project:} \\
\hline \multicolumn{9}{|l|}{Project No: City:} \\
\hline \multicolumn{9}{|c|}{Country: Built-up Area(Sq.ft):} \\
\hline Analyst Name: & \multicolumn{2}{|l|}{Amy Dake} & \multicolumn{6}{|l|}{Built-up Area(Sq.ft):
Clients Name:} \\
\hline Date: & \multicolumn{2}{|l|}{1/22/2024} & \multicolumn{6}{|l|}{ZIP/Postal Code:} \\
\hline \multicolumn{3}{|l|}{State/Province:} & \multicolumn{6}{|l|}{\multirow[t]{2}{*}{No. of Scenarios: 2}} \\
\hline \multicolumn{3}{|l|}{Analysis Region:} & & & & & & \\
\hline \multicolumn{9}{|c|}{SCENARIO SUMMARY} \\
\hline Scenarios & Name & fland Uses & Phases of & No. of Years to Project| & & & ew V & \\
\hline Scenarios & Name & No. of Land Uses & Development & Traffic & User Group & Entry & Exit & Total \\
\hline Scenario - 1 & AM Peak & 3 & 1 & 0 & & 38 & 114 & 152 \\
\hline Scenario-2 & PM Peak & 3 & 1 & 0 & & 117 & 72 & 189 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{9}{|l|}{Scenario-1} \\
\hline \multicolumn{3}{|l|}{Dev. phase: 1} &  & & & & & \\
\hline \multicolumn{9}{|l|}{Analyst Note:} \\
\hline \multicolumn{9}{|l|}{Warning:} \\
\hline \multicolumn{9}{|l|}{VEHICLE TRIPS BEFORE REDUCTION} \\
\hline \multirow[t]{2}{*}{Land Use \& Data Source} & \multirow[t]{2}{*}{Location} & \multirow[t]{2}{*}{IV} & \multirow[t]{2}{*}{Size} & \multirow[t]{2}{*}{Time Period} & Method & Entry & Exit & \multirow[t]{2}{*}{Total} \\
\hline & & & & & Rate/Equation & Split\% & Split\% & \\
\hline 210 - Single-Family Detached Housing & \multirow[t]{2}{*}{General
Urban/Suburban} & \multirow[t]{2}{*}{Dwelling Units} & \multirow[t]{2}{*}{106} & \multirow[t]{2}{*}{Weekday, Peak Hour of Adjacent Street Traffic,} & Best Fit (LOG) & 20 & 59 & \multirow[t]{2}{*}{79} \\
\hline Data Source: Trip Generation Manual, 11th Ed & & & & & \(\operatorname{Ln}(\mathrm{T})=0.91 \operatorname{Ln}(\mathrm{X})+0.12\) & 25\% & 75\% & \\
\hline 215 - Single-Family Attached Housing & \multirow[t]{2}{*}{General Urban/Suburban} & \multirow[t]{2}{*}{Dwelling Units} & \multirow[t]{2}{*}{90} & \multirow[t]{2}{*}{Weekday, Peak Hour of Adjacent Street Traffic,} & Best Fit (LIN) & 10 & 31 & \multirow[t]{2}{*}{41} \\
\hline Data Source: Trip Generation Manual, 11th Ed & & & & & \(\mathrm{T}=0.52(\mathrm{X})-5.70\) & 25\% & 75\% & \\
\hline 220 - Multifamily Housing (Low-Rise) - Not Close & \multirow[t]{2}{*}{General Urban/Suburban} & \multirow[t]{2}{*}{Dwelling Units} & \multirow[t]{2}{*}{28} & \multirow[t]{2}{*}{Weekday, Peak Hour of Adjacent Street Traffic,} & Best Fit (LIN) & 8 & 24 & \multirow[t]{2}{*}{32} \\
\hline Data Source: Trip Generation Manual, 11th Ed & & & & & \(\mathrm{T}=0.31(\mathrm{X})+22.85\) & 24\% & 76\% & \\
\hline
\end{tabular}

\section*{VEHICLE TO PERSON TRIP CONVERSION}
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Land Use} & \multicolumn{2}{|l|}{Baseline Site Vehicle Mode Share} & \multicolumn{2}{|l|}{Baseline Site Vehicle Occupancy} & \multicolumn{2}{|l|}{Baseline Site Vehicle Directional Split} \\
\hline & Entry (\%) & Exit (\%) & Entry & Exit & Entry (\%) & Exit (\%) \\
\hline 210 - Single-Family Detached Housing & 100 & 100 & 1 & 1 & 25 & 75 \\
\hline 215 - Single-Family Attached Housing & 100 & 100 & 1 & 1 & 25 & 75 \\
\hline 220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit & 100 & 100 & 1 & 1 & 24 & 76 \\
\hline
\end{tabular}

\section*{ESTIMATED BASELINE SITE PERSON TRIPS}
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Land Use} & \multicolumn{2}{|r|}{Person Trips by Vehicle} & \multicolumn{2}{|l|}{Person Trips by Other Modes} & \multicolumn{2}{|l|}{Total Baseline Site Person Trips} \\
\hline & Entry & Exit & Entry & Exit & Entry & Exit \\
\hline \multirow[t]{2}{*}{210 - Single-Family Detached Housing} & 20 & 59 & 0 & 0 & 20 & 59 \\
\hline & \multicolumn{2}{|c|}{79} & \multicolumn{2}{|c|}{0} & \multicolumn{2}{|c|}{79} \\
\hline \multirow[t]{2}{*}{215 - Single-Family Attached Housing} & 10 & 31 & 0 & 0 & 10 & 31 \\
\hline & \multicolumn{2}{|c|}{41} & \multicolumn{2}{|c|}{0} & \multicolumn{2}{|c|}{41} \\
\hline \multirow[t]{2}{*}{220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit} & 8 & 24 & 0 & 0 & 8 & 24 \\
\hline & \multicolumn{2}{|c|}{32} & \multicolumn{2}{|c|}{0} & \multicolumn{2}{|c|}{32} \\
\hline
\end{tabular}

\section*{NEW VEHICLE TRIPS}
\begin{tabular}{|c|c|c|c|}
\hline \multirow[b]{2}{*}{Land Use} & \multicolumn{3}{|c|}{New Vehicle Trips} \\
\hline & Entry & Exit & Total \\
\hline 210 - Single-Family Detached Housing & 20 & 59 & 79 \\
\hline 215 - Single-Family Attached Housing & 10 & 31 & 41 \\
\hline 220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit & 8 & 24 & 32 \\
\hline
\end{tabular}

RESULTS
\begin{tabular}{|c|c|c|c|}
\hline Site Totals & Entry & Exit & Total \\
\hline Vehicle Trips Before Reduction & 38 & 114 & 152 \\
\hline External Vehicle Trips & 38 & 114 & 152 \\
\hline New Vehicle Trips & 38 & 114 & 152 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{9}{|l|}{Scenario-2} \\
\hline \multicolumn{3}{|l|}{Dev. phase: 1} &  & & & & & \\
\hline \multicolumn{9}{|l|}{Analyst Note:} \\
\hline \multicolumn{9}{|l|}{Warning:} \\
\hline \multicolumn{9}{|l|}{VEHICLE TRIPS BEFORE REDUCTION} \\
\hline \multirow[t]{2}{*}{Land Use \& Data Source} & \multirow[t]{2}{*}{Location} & \multirow[t]{2}{*}{IV} & \multirow[t]{2}{*}{Size} & \multirow[t]{2}{*}{Time Period} & Method & Entry & Exit & \multirow[t]{2}{*}{Total} \\
\hline & & & & & Rate/Equation & Split\% & Split\% & \\
\hline 210 - Single-Family Detached Housing & \multirow[t]{2}{*}{General
Urban/Suburban} & \multirow[t]{2}{*}{Dwelling Units} & \multirow[t]{2}{*}{106} & \multirow[t]{2}{*}{Weekday, Peak Hour of Adjacent Street Traffic,} & Best Fit (LOG) & 66 & 39 & \multirow[t]{2}{*}{105} \\
\hline Data Source: Trip Generation Manual, 11th Ed & & & & & \(\operatorname{Ln}(\mathrm{T})=0.94 \operatorname{Ln}(\mathrm{X})+0.27\) & 63\% & 37\% & \\
\hline 215 - Single-Family Attached Housing & \multirow[t]{2}{*}{General Urban/Suburban} & \multirow[t]{2}{*}{Dwelling Units} & \multirow[t]{2}{*}{90} & \multirow[t]{2}{*}{Weekday, Peak Hour of Adjacent Street Traffic,} & Best Fit (LIN) & 30 & 21 & \multirow[t]{2}{*}{51} \\
\hline Data Source: Trip Generation Manual, 11th Ed & & & & & \(\mathrm{T}=0.60\) (X) - 3.93 & 59\% & 41\% & \\
\hline 220 - Multifamily Housing (Low-Rise) - Not Close & \multirow[t]{2}{*}{General Urban/Suburban} & \multirow[t]{2}{*}{Dwelling Units} & \multirow[t]{2}{*}{28} & \multirow[t]{2}{*}{Weekday, Peak Hour of Adjacent Street Traffic,} & Best Fit (LIN) & 21 & 12 & \multirow[t]{2}{*}{33} \\
\hline Data Source: Trip Generation Manual, 11th Ed & & & & & \(\mathrm{T}=0.43\) (X) + 20.55 & 63\% & 37\% & \\
\hline
\end{tabular}

\section*{VEHICLE TO PERSON TRIP CONVERSION}
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Land Use} & \multicolumn{2}{|l|}{Baseline Site Vehicle Mode Share} & \multicolumn{2}{|l|}{Baseline Site Vehicle Occupancy} & \multicolumn{2}{|l|}{Baseline Site Vehicle Directional Split} \\
\hline & Entry (\%) & Exit (\%) & Entry & Exit & Entry (\%) & Exit (\%) \\
\hline 210 - Single-Family Detached Housing & 100 & 100 & 1 & 1 & 63 & 37 \\
\hline 215 - Single-Family Attached Housing & 100 & 100 & 1 & 1 & 59 & 41 \\
\hline 220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit & 100 & 100 & 1 & 1 & 63 & 37 \\
\hline
\end{tabular}

\section*{ESTIMATED BASELINE SITE PERSON TRIPS}
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Land Use} & \multicolumn{2}{|c|}{Person Trips by Vehicle} & \multicolumn{2}{|l|}{Person Trips by Other Modes} & \multicolumn{2}{|l|}{Total Baseline Site Person Trips} \\
\hline & Entry & Exit & Entry & Exit & Entry & Exit \\
\hline \multirow[t]{2}{*}{210 - Single-Family Detached Housing} & 66 & 39 & 0 & 0 & 66 & 39 \\
\hline & \multicolumn{2}{|c|}{105} & \multicolumn{2}{|c|}{0} & \multicolumn{2}{|c|}{105} \\
\hline \multirow[t]{2}{*}{215 - Single-Family Attached Housing} & 30 & 21 & 0 & 0 & 30 & 21 \\
\hline & \multicolumn{2}{|c|}{51} & \multicolumn{2}{|c|}{0} & \multicolumn{2}{|c|}{51} \\
\hline \multirow[t]{2}{*}{220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit} & 21 & 12 & 0 & 0 & 21 & 12 \\
\hline & \multicolumn{2}{|c|}{33} & \multicolumn{2}{|l|}{0} & \multicolumn{2}{|c|}{33} \\
\hline
\end{tabular}

\section*{NEW VEHICLE TRIPS}
\begin{tabular}{|c|c|c|c|}
\hline \multirow[t]{2}{*}{Land Use} & \multicolumn{3}{|c|}{New Vehicle Trips} \\
\hline & Entry & Exit & Total \\
\hline 210 - Single-Family Detached Housing & 66 & 39 & 105 \\
\hline 215 - Single-Family Attached Housing & 30 & 21 & 51 \\
\hline 220 - Multifamily Housing (Low-Rise) - Not Close to Rail Transit & 21 & 12 & 33 \\
\hline
\end{tabular}

RESULTS
\begin{tabular}{|c|c|c|c|}
\hline Site Totals & Entry & Exit & Total \\
\hline Vehicle Trips Before Reduction & 117 & 72 & 189 \\
\hline External Vehicle Trips & 117 & 72 & 189 \\
\hline New Vehicle Trips & 117 & 72 & 189 \\
\hline
\end{tabular}

\section*{Guideline for determining left-turn Lane at a two-way stop-controlled intersection}

INPUT
INPUT
\begin{tabular}{|l|c|}
\hline \multicolumn{1}{|c|}{ Variable } & Value \\
\hline Major Approach & Penfield Rd @ Fellows Rd \\
\hline Approach & Westbound (AM Peak Full Build) \\
\hline Design Speed Limit - MPH & 50 \\
\hline Percent of left-turns in advancing volume \(\left(\mathrm{V}_{\mathrm{A}}\right), \%\) : & \(2 \%\) \\
\hline Advancing volume \(\left(\mathrm{V}_{\mathrm{A}}\right)\), veh/h: & 780 \\
\hline Opposing volume \(\left(\mathrm{V}_{\mathrm{O}}\right)\), veh/h: & 298 \\
\hline
\end{tabular} \begin{tabular}{|l|c|}
\hline CALIBRATION CONSTANTS & Variable \\
\hline Average time for making left-turn, \(\mathrm{s}:\) & 3.0 \\
\hline Critical headway, \(\mathrm{s}:\) & 5.0 \\
\hline Average time for left-turn vehicle to clear the advancing lane, \(\mathrm{s}:\) & 1.9 \\
\hline
\end{tabular}
\begin{tabular}{|cc|cc|}
\hline PLOT - LINE 1 & PLOT - LINE 2 \\
\hline 0 & 298 & 780 & 0 \\
780 & 298 & 780 & 298 \\
\hline
\end{tabular}

OUTPUT
\begin{tabular}{|l|c|}
\hline \multicolumn{1}{|c|}{ Variable } & Value \\
\hline Limiting advancing volume \(\left(\mathrm{V}_{\mathrm{A}}\right)\), veh/h: & 833 \\
\hline Guidance for determining the need for a major-road left-turn bay: \\
\hline Westbound (AM Peak Full Build) Left-turn treatment NOT warranted at Penfield Rd @ Fellows Rd Interse \\
\hline
\end{tabular}
\begin{tabular}{lr}
\(\rho\) & 0.015 \\
\(\mathrm{f}=\) & 0.79 \\
Wait Time & 1.194 s \\
Service Rate & \(977 \mathrm{veh} / \mathrm{h}\) \\
Arrival Rate & \(833 \mathrm{veh} / \mathrm{h}\)
\end{tabular}
\begin{tabular}{|c|c|}
\hline Vo & Time_tw \\
\hline 0 & 0.0 \\
\hline 100 & 0.4 \\
\hline 200 & 0.8 \\
\hline 300 & 1.2 \\
\hline 400 & 1.7 \\
\hline 500 & 2.2 \\
\hline 600 & 2.8 \\
\hline 700 & 3.5 \\
\hline 800 & 4.2 \\
\hline 900 & 5.0 \\
\hline 1000 & 5.8 \\
\hline
\end{tabular}
\begin{tabular}{|r|r|r|r|r|r|}
\multicolumn{1}{c}{ \% LT veh. } & \multicolumn{2}{c}{\(2 \%\)} & \multicolumn{1}{c}{\(10 \%\)} & \multicolumn{1}{c}{\(15 \%\)} & \(20 \%\) \\
\hline Vo & \(\mathrm{V}_{\mathrm{A}}\) & \(\mathrm{V}_{\mathrm{A}}\) & \(\mathrm{V}_{\mathrm{A}}\) & \(\mathrm{V}_{\mathrm{A}}\) & \(\mathrm{V}_{\mathrm{A}}\) \\
\hline 0 & 1178 & 503 & 422 & 377 & 308 \\
\hline 100 & 1043 & 445 & 374 & 334 & 273 \\
\hline 200 & 929 & 396 & 333 & 297 & 243 \\
\hline 300 & 831 & 355 & 298 & 266 & 217 \\
\hline 400 & 747 & 319 & 268 & 239 & 195 \\
\hline 500 & 672 & 287 & 241 & 215 & 176 \\
\hline 600 & 607 & 259 & 218 & 194 & 159 \\
\hline 700 & 549 & 234 & 197 & 176 & 143 \\
\hline 800 & 497 & 212 & 178 & 159 & 130 \\
\hline 900 & 451 & 192 & 162 & 144 & 118 \\
\hline 1000 & 409 & 175 & 147 & 131 & 107 \\
\hline
\end{tabular}

\section*{Guideline for determining left-turn Lane at a two-way stop-controlled intersection}

INPUT
INPUT
\begin{tabular}{|l|c|}
\hline \multicolumn{1}{|c|}{ Variable } & Value \\
\hline Major Approach & Penfield Rd @ Fellows Rd \\
\hline Approach & Westbound (PM Peak Full Build) \\
\hline Design Speed Limit -MPH & 50 \\
\hline Percent of left-turns in advancing volume \(\left(\mathrm{V}_{\mathrm{A}}\right), \%:\) & \(9 \%\) \\
\hline Advancing volume \(\left(\mathrm{V}_{\mathrm{A}}\right)\), veh/h: & 546 \\
\hline Opposing volume \(\left(\mathrm{V}_{\mathrm{O}}\right)\), veh/h: & 930 \\
\hline
\end{tabular} \begin{tabular}{|l|l|}
\hline CALIBRATION CONSTANTS & \\
\hline Variable & Value \\
\hline Average time for making left-turn, s: & 3.0 \\
\hline Critical headway, \(\mathrm{s}:\) & 5.0 \\
\hline Average time for left-turn vehicle to clear the advancing lane, \(\mathrm{s}:\) & 1.9 \\
\hline
\end{tabular}
\begin{tabular}{|cc|cc|}
\hline PLOT - LINE 1 & & PLOT - LINE 2 \\
\hline 0 & 930 & 546 & 0 \\
546 & 930 & 546 & 930 \\
\hline
\end{tabular}

OUTPUT
\begin{tabular}{|l|c|}
\hline \multicolumn{1}{|c|}{ Variable } & Value \\
\hline Limiting advancing volume \(\left(\mathrm{V}_{\mathrm{A}}\right)\), veh/h: & 196 \\
\hline Guidance for determining the need for a major-road left-turn bay: \\
\hline Westbound (PM Peak Full Build) Left-turn treatment warranted at Penfield Rd @ Fellows Rd Intersection \\
\hline
\end{tabular}
\begin{tabular}{lr}
\(\rho\) & 0.015 \\
\(\mathrm{f}=\) & 0.79 \\
Wait Time & 5.215 s \\
Service Rate & \(622 \mathrm{veh} / \mathrm{h}\) \\
Arrival Rate & \(196 \mathrm{veh} / \mathrm{h}\)
\end{tabular}
\begin{tabular}{|c|c|}
\hline Vo & Time_tw \\
\hline 0 & 0.0 \\
\hline 100 & 0.4 \\
\hline 200 & 0.8 \\
\hline 300 & 1.2 \\
\hline 400 & 1.7 \\
\hline 500 & 2.2 \\
\hline 600 & 2.8 \\
\hline 700 & 3.5 \\
\hline 800 & 4.2 \\
\hline 900 & 5.0 \\
\hline 1000 & 5.8 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|}
\hline \% LT veh. & 9\% & 10\% & 15\% & 20\% & 40\% \\
\hline Vo & \(\mathrm{V}_{\mathrm{A}}\) & \(\mathrm{V}_{\mathrm{A}}\) & \(\mathrm{V}_{\mathrm{A}}\) & \(\mathrm{V}_{\mathrm{A}}\) & \(\mathrm{V}_{\text {A }}\) \\
\hline 0 & 528 & 503 & 422 & 377 & 308 \\
\hline 100 & 467 & 445 & 374 & 334 & 273 \\
\hline 200 & 416 & 396 & 333 & 297 & 243 \\
\hline 300 & 372 & 355 & 298 & 266 & 217 \\
\hline 400 & 334 & 319 & 268 & 239 & 195 \\
\hline 500 & 301 & 287 & 241 & 215 & 176 \\
\hline 600 & 272 & 259 & 218 & 194 & 159 \\
\hline 700 & 246 & 234 & 197 & 176 & 143 \\
\hline 800 & 223 & 212 & 178 & 159 & 130 \\
\hline 900 & 202 & 192 & 162 & 144 & 118 \\
\hline 1000 & 183 & 175 & 147 & 131 & 107 \\
\hline
\end{tabular}

\section*{Guideline for determining left-turn Lane at a two-way stop-controlled intersection}

INPUT
INPUT
\begin{tabular}{|l|c|}
\hline \multicolumn{1}{|c|}{ Variable } & Value \\
\hline Major Approach & Penfield Rd @ Fellows Rd \\
\hline Approach & Westbound (AM Peak Background) \\
\hline Design Speed Limit - MPH & 50 \\
\hline Percent of left-turns in advancing volume \(\left(\mathrm{V}_{\mathrm{A}}\right), \%:\) & \(0 \%\) \\
\hline Advancing volume \(\left(\mathrm{V}_{\mathrm{A}}\right)\), veh/h: & 769 \\
\hline Opposing volume \(\left(\mathrm{V}_{\mathrm{O}}\right)\), veh/h: & 283 \\
\hline
\end{tabular} \begin{tabular}{|l|l|}
\hline CALIBRATION CONSTANTS & \\
\hline Variable & Value \\
\hline Average time for making left-turn, s: & 3.0 \\
\hline Critical headway, \(\mathrm{s}:\) & 5.0 \\
\hline Average time for left-turn vehicle to clear the advancing lane, \(\mathrm{s}:\) & 1.9 \\
\hline
\end{tabular}
\begin{tabular}{|cc|cc|}
\hline PLOT - LINE 1 & PLOT - LINE 2 \\
\hline 0 & 283 & 769 & 0 \\
769 & 283 & 769 & 283 \\
\hline
\end{tabular}

OUTPUT
\begin{tabular}{|l|l|}
\hline \multicolumn{1}{|c|}{ Variable } & Value \\
\hline Limiting advancing volume (VA), veh/h: & 2128 \\
\hline Guidance for determining the need for a major-road left-turn bay: \\
\hline Westbound (AM Peak Background) Left-turn treatment NOT warranted at Penfield Rd @ Fellows Rd Inte. \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|}
\hline \(\rho\) & 0.015 & & \\
\hline \(\mathrm{f}=\) & 0.79 & & \\
\hline Wait Time & 1.125 s & & \\
\hline Service Rate & 987 veh/h & & \\
\hline Arrival Rate & 2128 veh/h & & \\
\hline Vo & Time_tw & Vo & Serv_rate \\
\hline 0 & 0.0 & 0 & 1200 \\
\hline 100 & 0.4 & 100 & 1121 \\
\hline 200 & 0.8 & 200 & 1046 \\
\hline 300 & 1.2 & 300 & 976 \\
\hline 400 & 1.7 & 400 & 910 \\
\hline 500 & 2.2 & 500 & 848 \\
\hline 600 & 2.8 & 600 & 789 \\
\hline 700 & 3.5 & 700 & 735 \\
\hline 800 & 4.2 & 800 & 683 \\
\hline 900 & 5.0 & 900 & 635 \\
\hline 1000 & 5.8 & 1000 & 590 \\
\hline
\end{tabular}
\begin{tabular}{|r|r|r|r|r|r|}
\multicolumn{1}{c}{ \% LT veh. } & \multicolumn{2}{c}{\(0 \%\)} & \multicolumn{1}{c}{\(10 \%\)} & \multicolumn{1}{c}{\(15 \%\)} & \multicolumn{1}{c|}{\(20 \%\)} \\
\hline V & \(\mathrm{~V}_{\mathrm{A}}\) & \(\mathrm{V}_{\mathrm{A}}\) & \(\mathrm{V}_{\mathrm{A}}\) & \(\mathrm{V}_{\mathrm{A}}\) & \(\mathrm{V}_{\mathrm{A}}\) \\
\hline 0 & 2961 & 503 & 422 & 377 & 308 \\
\hline 100 & 2621 & 445 & 374 & 334 & 273 \\
\hline 200 & 2335 & 396 & 333 & 297 & 243 \\
\hline 300 & 2089 & 355 & 298 & 266 & 217 \\
\hline 400 & 1876 & 319 & 268 & 239 & 195 \\
\hline 500 & 1690 & 287 & 241 & 215 & 176 \\
\hline 600 & 1526 & 259 & 218 & 194 & 159 \\
\hline 700 & 1380 & 234 & 197 & 176 & 143 \\
\hline 800 & 1250 & 212 & 178 & 159 & 130 \\
\hline 900 & 1134 & 192 & 162 & 144 & 118 \\
\hline 1000 & 1029 & 175 & 147 & 131 & 107 \\
\hline
\end{tabular}

\section*{Guideline for determining left-turn Lane at a two-way stop-controlled intersection}

\section*{two LANE ROADWAY}
INPUT
\begin{tabular}{|l|c|}
\hline \multicolumn{1}{|c|}{ Variable } & Value \\
\hline Major Approach & Penfield Rd @ Fellows Rd \\
\hline Approach & Westbound (PM Peak Background) \\
\hline Design Speed Limit - MPH & 50 \\
\hline Percent of left-turns in advancing volume \(\left(\mathrm{V}_{\mathrm{A}}\right), \%:\) & \(3 \%\) \\
\hline Advancing volume \(\left(\mathrm{V}_{\mathrm{A}}\right)\), veh/h: & 513 \\
\hline Opposing volume \(\left(\mathrm{V}_{\mathrm{O}}\right)\), veh/h: & 883 \\
\hline
\end{tabular} \begin{tabular}{|l|l|}
\hline CALIBRATION CONSTANTS & \\
\hline Variable & Value \\
\hline Average time for making left-turn, \(\mathrm{s}:\) & 3.0 \\
\hline Critical headway, \(\mathrm{s}:\) & 5.0 \\
\hline Average time for left-turn vehicle to clear the advancing lane, \(\mathrm{s}:\) & 1.9 \\
\hline
\end{tabular}
\begin{tabular}{|cc|cc|}
\hline PLOT - LINE 1 & & PLOT - LINE 2 \\
\hline 0 & 883 & 513 & 0 \\
513 & 883 & 513 & 883 \\
\hline
\end{tabular}

OUTPUT
\begin{tabular}{|l|c|}
\hline \multicolumn{1}{|c|}{ Variable } & Value \\
\hline Limiting advancing volume \(\left(\mathrm{V}_{\mathrm{A}}\right)\), veh/h: & 338 \\
\hline Guidance for determining the need for a major-road left-turn bay: \\
\hline Westbound (PM Peak Background) Left-turn treatment warranted at Penfield Rd @ Fellows Rd Intersecti \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|}
\hline \(\rho\) & 0.015 & & \\
\hline \(\mathrm{f}=\) & 0.79 & & \\
\hline Wait Time & 4.821 s & & \\
\hline Service Rate & 643 veh/h & & \\
\hline Arrival Rate & 338 veh/h & & \\
\hline Vo & Time_tw & Vo & Serv_rate \\
\hline 0 & 0.0 & 0 & 1200 \\
\hline 100 & 0.4 & 100 & 1121 \\
\hline 200 & 0.8 & 200 & 1046 \\
\hline 300 & 1.2 & 300 & 976 \\
\hline 400 & 1.7 & 400 & 910 \\
\hline 500 & 2.2 & 500 & 848 \\
\hline 600 & 2.8 & 600 & 789 \\
\hline 700 & 3.5 & 700 & 735 \\
\hline 800 & 4.2 & 800 & 683 \\
\hline 900 & 5.0 & 900 & 635 \\
\hline 1000 & 5.8 & 1000 & 590 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|}
\hline \% LT veh. & 3\% & 10\% & 15\% & 20\% & 40\% \\
\hline Vo & \(\mathrm{V}_{\mathrm{A}}\) & \(\mathrm{V}_{\text {A }}\) & \(\mathrm{V}_{\text {A }}\) & \(\mathrm{V}_{\text {A }}\) & \(\mathrm{V}_{\text {A }}\) \\
\hline 0 & 867 & 503 & 422 & 377 & 308 \\
\hline 100 & 768 & 445 & 374 & 334 & 273 \\
\hline 200 & 684 & 396 & 333 & 297 & 243 \\
\hline 300 & 612 & 355 & 298 & 266 & 217 \\
\hline 400 & 550 & 319 & 268 & 239 & 195 \\
\hline 500 & 495 & 287 & 241 & 215 & 176 \\
\hline 600 & 447 & 259 & 218 & 194 & 159 \\
\hline 700 & 404 & 234 & 197 & 176 & 143 \\
\hline 800 & 366 & 212 & 178 & 159 & 130 \\
\hline 900 & 332 & 192 & 162 & 144 & 118 \\
\hline 1000 & 302 & 175 & 147 & 131 & 107 \\
\hline
\end{tabular}

\section*{APPENDIX C: LOS CALCULATIONS - EXISTING CONDITIONS}
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline & \(\rightarrow\) & & 7 & & 4 & 1 \\
\hline Lane Group & EBT & EBR & WBL & WBT & NBL & NBR \\
\hline Lane Configurations & \(\hat{A}\) & & & \(\uparrow\) & Y & \\
\hline Traffic Volume (vph) & 246 & 29 & 2 & 748 & 59 & 8 \\
\hline Future Volume (vph) & 246 & 29 & 2 & 748 & 59 & 8 \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & 0.986 & & & & 0.984 & \\
\hline Flt Protected & & & & & 0.958 & \\
\hline Satd. Flow (prot) & 1714 & 0 & 0 & 1863 & 1791 & 0 \\
\hline Flt Permitted & & & & & 0.958 & \\
\hline Satd. Flow (perm) & 1714 & 0 & 0 & 1863 & 1791 & 0 \\
\hline Link Speed (mph) & 45 & & & 45 & 35 & \\
\hline Link Distance ( t ) & 369 & & & 524 & 386 & \\
\hline Travel Time (s) & 5.6 & & & 7.9 & 7.5 & \\
\hline Peak Hour Factor & 0.98 & 0.98 & 0.98 & 0.98 & 0.98 & 0.98 \\
\hline Heavy Vehicles (\%) & 9\% & 12\% & 0\% & 2\% & 0\% & 0\% \\
\hline Adj. Flow (vph) & 251 & 30 & 2 & 763 & 60 & 8 \\
\hline Shared Lane Traffic (\%) & & & & & & \\
\hline Lane Group Flow (vph) & 281 & 0 & 0 & 765 & 68 & 0 \\
\hline Enter Blocked Intersection & No & No & No & No & No & No \\
\hline Lane Alignment & Left & Right & Left & Left & Left & Right \\
\hline Median Width(f) & 0 & & & 0 & 12 & \\
\hline Link Offset(t) & 0 & & & 0 & 0 & \\
\hline Crosswalk Width(ft) & 16 & & & 16 & 16 & \\
\hline Two way Left Turn Lane & & & & & & \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Turning Speed (mph) & & 9 & 15 & & 15 & 9 \\
\hline Sign Control & Free & & & Free & Stop & \\
\hline Intersection Summary & & & & & & \\
\hline Area Type: & her & & & & & \\
\hline \multicolumn{7}{|l|}{Control Type: Unsignalized} \\
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Intersection Capacity Utilization 51.4\%
Analysis Period (min) 15}} & & & \multicolumn{3}{|r|}{\multirow[t]{2}{*}{ICU Level of Service A}} \\
\hline & & & & & & \\
\hline
\end{tabular}



HCM 6th TWSC
Fellows Rd Properties
3: Fellows Road \& Furman Road


\section*{1/25/2024}

Passero Associates
Synchro 11 Repor
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\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Lane Group & EBL & EBT & EBR & WBL & WBT & WBR & NBL & NBT & NBR & SBL & SBT & SBR \\
\hline Lane Configurations & & \({ }_{*}\) & & & \(\uparrow\) & & & \(\dagger\) & & & \(\dagger\) & \\
\hline Traffic Volume (vph) & 20 & 111 & 0 & 1 & 337 & 14 & 3 & 0 & 0 & 28 & 0 & 49 \\
\hline Future Volume (vph) & 20 & 111 & 0 & 1 & 337 & 14 & 3 & 0 & 0 & 28 & 0 & 49 \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & & & & & 0.995 & & & & & & 0.914 & \\
\hline FIt Protected & & 0.992 & & & & & & 0.950 & & & 0.982 & \\
\hline Satd. Flow (prot) & 0 & 1724 & 0 & 0 & 1844 & 0 & 0 & 1805 & 0 & 0 & 1653 & \\
\hline FIt Permitted & & 0.992 & & & & & & 0.950 & & & 0.982 & \\
\hline Satd. Flow (perm) & 0 & 1724 & 0 & 0 & 1844 & 0 & 0 & 1805 & 0 & 0 & 1653 & \\
\hline Link Speed (mph) & & 35 & & & 35 & & & 30 & & & 30 & \\
\hline Link Distance (t) & & 630 & & & 774 & & & 513 & & & 1914 & \\
\hline Travel Time (s) & & 12.3 & & & 15.1 & & & 11.7 & & & 43.5 & \\
\hline Peak Hour Factor & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 \\
\hline Heavy Vehicles (\%) & 11\% & 9\% & 0\% & 0\% & 2\% & 15\% & 0\% & 0\% & 0\% & 0\% & 0\% & 5\% \\
\hline Adj. Flow (vph) & 23 & 129 & 0 & 1 & 392 & 16 & 3 & 0 & 0 & 33 & 0 & 57 \\
\hline \multicolumn{13}{|l|}{Shared Lane Traffic (\%)} \\
\hline Lane Group Flow (vph) & 0 & 152 & 0 & 0 & 409 & 0 & 0 & 3 & 0 & 0 & 90 & \\
\hline Enter Blocked Intersection & No & No & No & No & No & No & No & No & No & No & No & No \\
\hline Lane Alignment & Left & Left & Right & Left & Left & Right & Left & Left & Right & Left & Left & Rig \\
\hline Median Width(ft) & & 0 & & & 0 & & & 0 & & & 0 & \\
\hline Link Offset(ft) & & 0 & & & 0 & & & 0 & & & 0 & \\
\hline Crosswalk Width(tt) & & 16 & & & 16 & & & 16 & & & 16 & \\
\hline \multicolumn{13}{|l|}{Two way Left Turn Lane} \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Turning Speed (mph) & 15 & & 9 & 15 & & 9 & 15 & & 9 & 15 & & \\
\hline Sign Control & & Free & & & Free & & & Stop & & & Stop & \\
\hline
\end{tabular}

Sign Control
Area Type:
Other

Control Type: Unsignalize
y Utilization 32.5\%
ICU Level of Service A
Analysis Period (min) 15

HCM 6th TWSC
5: Roxwell Court/Fellows Road \& Whitney Road




\section*{\(1125 / 2024\)}

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\begin{tabular}{|c|c|c|c|c|c|c|}
\hline & \(\checkmark\) & & & 7 & & \(\downarrow\) \\
\hline Lane Group & WBL & WBR & NBT & NBR & SBL & SBT \\
\hline Lane Configurations & M & & \(\stackrel{1}{ }\) & & & \(\uparrow\) \\
\hline Traffic Volume (vph) & 16 & 11 & 43 & 16 & 13 & 65 \\
\hline Future Volume (vph) & 16 & 11 & 43 & 16 & 13 & 65 \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & 0.944 & & 0.963 & & & \\
\hline Flt Protected & 0.971 & & & & & 0.992 \\
\hline Satd. Flow (prot) & 1742 & 0 & 1830 & 0 & 0 & 1885 \\
\hline Flt Permitted & 0.971 & & & & & 0.992 \\
\hline Satd. Flow (perm) & 1742 & 0 & 1830 & 0 & 0 & 1885 \\
\hline Link Speed (mph) & 40 & & 30 & & & 35 \\
\hline Link Distance (ft) & 2113 & & 694 & & & 582 \\
\hline Travel Time (s) & 36.0 & & 15.8 & & & 11.3 \\
\hline Peak Hour Factor & 0.81 & 0.81 & 0.81 & 0.81 & 0.81 & 0.81 \\
\hline Heavy Vehicles (\%) & 0\% & 0\% & 0\% & 0\% & 0\% & 0\% \\
\hline Adj. Flow (vph) & 20 & 14 & 53 & 20 & 16 & 80 \\
\hline Shared Lane Traffic (\%) & & & & & & \\
\hline Lane Group Flow (vph) & 34 & 0 & 73 & 0 & 0 & 96 \\
\hline Enter Blocked Intersection & No & No & No & No & No & No \\
\hline Lane Alignment & Left & Right & Left & Right & Left & Left \\
\hline Median Width(f) & 12 & & 0 & & & 0 \\
\hline Link Offset(ft) & 0 & & 0 & & & 0 \\
\hline Crosswalk Width(ft) & 16 & & 16 & & & 16 \\
\hline Two way Left Turn Lane & & & & & & \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Turning Speed (mph) & 15 & 9 & & 9 & 15 & \\
\hline Sign Control & Stop & & Free & & & Free \\
\hline Intersection Summary & & & & & & \\
\hline Area Type: & her & & & & & \\
\hline \multicolumn{7}{|l|}{Control Type: Unsignalized} \\
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Intersection Capacity Utilization 20.8\% Analysis Period (min) 15}} & & & \multicolumn{3}{|r|}{\multirow[t]{2}{*}{ICU Level of Service A}} \\
\hline & & & & & & \\
\hline
\end{tabular}

HCM 6th TWSC
Fellows Rd Properties
3: Fellows Road \& Furman Road


\section*{1/25/2024}

Passero Associates
Synchro 11 Repor
Page 4
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Lane Group & EBL & EBT & EBR & WBL & WBT & WBR & NBL & NBT & NBR & SBL & SBT & SBR \\
\hline Lane Configurations & & \(\uparrow\) & & & \(\uparrow\) & & & \(\uparrow\) & & & \({ }_{\$}\) & \\
\hline Traffic Volume (vph) & 65 & 327 & 4 & 0 & 208 & 22 & 3 & 1 & 0 & 32 & 0 & 52 \\
\hline Future Volume (vph) & 65 & 327 & 4 & 0 & 208 & 22 & 3 & 1 & 0 & 32 & 0 & 52 \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & & 0.999 & & & 0.987 & & & & & & 0.916 & \\
\hline Flt Protected & & 0.992 & & & & & & 0.964 & & & 0.981 & \\
\hline Satd. Flow (prot) & 0 & 1883 & 0 & 0 & 1858 & 0 & 0 & 1832 & 0 & 0 & 1707 & \\
\hline FIt Permitted & & 0.992 & & & & & & 0.964 & & & 0.981 & \\
\hline Satd. Flow (perm) & 0 & 1883 & 0 & 0 & 1858 & 0 & 0 & 1832 & 0 & 0 & 1707 & \\
\hline Link Speed (mph) & & 35 & & & 35 & & & 30 & & & 30 & \\
\hline Link Distance (ft) & & 630 & & & 774 & & & 513 & & & 1914 & \\
\hline Travel Time (s) & & 12.3 & & & 15.1 & & & 11.7 & & & 43.5 & \\
\hline Peak Hour Factor & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 \\
\hline Heavy Vehicles (\%) & 0\% & 0\% & 0\% & 0\% & 1\% & 0\% & 0\% & 0\% & 0\% & 0\% & 0\% & 0\% \\
\hline Adj. Flow (vph) & 74 & 372 & 5 & 0 & 236 & 25 & 3 & 1 & 0 & 36 & 0 & 59 \\
\hline \multicolumn{13}{|l|}{Shared Lane Traffic (\%)} \\
\hline Lane Group Flow (vph) & 0 & 451 & 0 & 0 & 261 & 0 & 0 & 4 & 0 & 0 & 95 & \\
\hline Enter Blocked Intersection & No & No & No & No & No & No & No & No & No & No & No & No \\
\hline Lane Alignment & Left & Left & Right & Left & Left & Right & Left & Left & Right & Left & Left & Rig \\
\hline Median Width(ft) & & 0 & & & 0 & & & 0 & & & 0 & \\
\hline Link Offset(ft) & & 0 & & & 0 & & & 0 & & & 0 & \\
\hline Crosswalk Width(t) & & 16 & & & 16 & & & 16 & & & 16 & \\
\hline \multicolumn{13}{|l|}{Two way Left Turn Lane} \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Turning Speed (mph) & 15 & & 9 & 15 & & 9 & 15 & & 9 & 15 & & \\
\hline Sign Control & & Free & & & Free & & & Stop & & & Stop & \\
\hline
\end{tabular}

Intersection Summary \(\quad\) Other
Area Type:
Control Type: Unsignalized
ntersection Capacity Utilization 48.2\%
ICU Level of Service A
Analysis Period (min) 15

HCM 6th TWSC
5: Roxwell Court/Fellows Road \& Whitney Road


\section*{APPENDIX D: LOS CALCULATIONS - BACKGROUND CONDITIONS}
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline & \(\rightarrow\) & & 7 & & 4 & P \\
\hline Lane Group & EBT & EBR & WBL & WBT & NBL & NBR \\
\hline Lane Configurations & F & & & \(\uparrow\) & Y & \\
\hline Traffic Volume (vph) & 253 & 30 & 2 & 767 & 60 & 8 \\
\hline Future Volume (vph) & 253 & 30 & 2 & 767 & 60 & 8 \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & 0.986 & & & & 0.984 & \\
\hline Flt Protected & & & & & 0.958 & \\
\hline Satd. Flow (prot) & 1714 & 0 & 0 & 1863 & 1791 & 0 \\
\hline Flt Permitted & & & & & 0.958 & \\
\hline Satd. Flow (perm) & 1714 & 0 & 0 & 1863 & 1791 & 0 \\
\hline Link Speed (mph) & 45 & & & 45 & 35 & \\
\hline Link Distance (ft) & 369 & & & 524 & 386 & \\
\hline Travel Time (s) & 5.6 & & & 7.9 & 7.5 & \\
\hline Peak Hour Factor & 0.98 & 0.98 & 0.98 & 0.98 & 0.98 & 0.98 \\
\hline Heavy Vehicles (\%) & 9\% & 12\% & 0\% & 2\% & 0\% & 0\% \\
\hline Adj. Flow (vph) & 258 & 31 & 2 & 783 & 61 & 8 \\
\hline Shared Lane Traffic (\%) & & & & & & \\
\hline Lane Group Flow (vph) & 289 & 0 & 0 & 785 & 69 & 0 \\
\hline Enter Blocked Intersection & No & No & No & No & No & No \\
\hline Lane Alignment & Left & Right & Left & Left & Left & Right \\
\hline Median Width(ft) & 0 & & & 0 & 12 & \\
\hline Link Offset(ft) & 0 & & & 0 & 0 & \\
\hline Crosswalk Width(ft) & 16 & & & 16 & 16 & \\
\hline Two way Left Turn Lane & & & & & & \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Turning Speed (mph) & & 9 & 15 & & 15 & 9 \\
\hline Sign Control & Free & & & Free & Stop & \\
\hline Intersection Summary & & & & & & \\
\hline Area Type: & her & & & & & \\
\hline \multicolumn{7}{|l|}{Control Type: Unsignalized} \\
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Intersection Capacity Utilization 52.4\%
Analysis Period (min) 15}} & & & \multicolumn{3}{|r|}{\multirow[t]{2}{*}{ICU Level of Service A}} \\
\hline & & & & & & \\
\hline
\end{tabular}

HCM 6th TWSC
\begin{tabular}{lrllllll}
\hline & & & & & & & \\
\hline & & & & & \\
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\end{tabular}

\section*{1/26/2024}

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HCM 6th TWSC


\section*{1/26/2024}

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\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Lane Group & EBL & EBT & EBR & WBL & WBT & WBR & NBL & NBT & NBR & SBL & SBT & SBR \\
\hline Lane Configurations & & \(\dagger\) & & & \({ }_{\text {¢ }}\) & & & \(\dagger\) & & & \({ }_{4}\) & \\
\hline Traffic Volume (vph) & 20 & 114 & 0 & 1 & 346 & 15 & 3 & 0 & 0 & 28 & 0 & 50 \\
\hline Future Volume (vph) & 20 & 114 & 0 & 1 & 346 & 15 & 3 & 0 & 0 & 28 & 0 & 50 \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & & & & & 0.995 & & & & & & 0.914 & \\
\hline Flt Protected & & 0.993 & & & & & & 0.950 & & & 0.982 & \\
\hline Satd. Flow (prot) & 0 & 1726 & 0 & 0 & 1844 & 0 & 0 & 1805 & 0 & 0 & 1653 & 0 \\
\hline Flt Permitted & & 0.993 & & & & & & 0.950 & & & 0.982 & \\
\hline Satd. Flow (perm) & 0 & 1726 & 0 & 0 & 1844 & 0 & 0 & 1805 & 0 & 0 & 1653 & 0 \\
\hline Link Speed (mph) & & 35 & & & 35 & & & 30 & & & 30 & \\
\hline Link Distance (ft) & & 630 & & & 774 & & & 513 & & & 1914 & \\
\hline Travel Time (s) & & 12.3 & & & 15.1 & & & 11.7 & & & 43.5 & \\
\hline Peak Hour Factor & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 \\
\hline Heavy Vehicles (\%) & 11\% & 9\% & 0\% & 0\% & 2\% & 15\% & 0\% & 0\% & 0\% & 0\% & 0\% & 5\% \\
\hline Adj. Flow (vph) & 23 & 133 & 0 & 1 & 402 & 17 & 3 & 0 & 0 & 33 & 0 & 58 \\
\hline \multicolumn{13}{|l|}{Shared Lane Traffic (\%)} \\
\hline Lane Group Flow (vph) & 0 & 156 & 0 & 0 & 420 & 0 & 0 & 3 & 0 & 0 & 91 & 0 \\
\hline Enter Blocked Intersection & No & No & No & No & No & No & No & No & No & No & No & No \\
\hline Lane Alignment & Left & Left & Right & Left & Left & Right & Left & Left & Right & Left & Left & Right \\
\hline Median Width(t) & & 0 & & & 0 & & & 0 & & & 0 & \\
\hline Link Offset(ft) & & 0 & & & 0 & & & 0 & & & 0 & \\
\hline Crosswalk Width(t) & & 16 & & & 16 & & & 16 & & & 16 & \\
\hline \multicolumn{13}{|l|}{Two way Left Turn Lane} \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Turning Speed (mph) & 15 & & 9 & 15 & & 9 & 15 & & 9 & 15 & & \\
\hline Sign Control & & Free & & & Free & & & Stop & & & Stop & \\
\hline
\end{tabular}

Intersection Summary
Area Type: Other
Area Type:
Control Type: Unsignalized
Control Type: Unsignaized
Intersection Capacity Utilization 32.7\%
Analysis Period (min) 15

ICU Level of Service A

HCM 6th TWSC
5: Roxwell Court/Fellows Road \& Whitney Road



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Passero Associates
Synchro 11 Report
Page 4
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Lane Group & EBL & EBT & EBR & WBL & WBT & WBR & NBL & NBT & NBR & SBL & SBT & SBR \\
\hline Lane Configurations & & \({ }_{\text {¢ }}\) & & & \(\uparrow\) & & & \(\uparrow\) & & & \(\uparrow\) & \\
\hline Traffic Volume (vph) & 67 & 336 & 5 & 0 & 213 & 23 & 3 & 1 & 0 & 33 & , & 53 \\
\hline Future Volume (vph) & 67 & 336 & 5 & 0 & 213 & 23 & 3 & 1 & 0 & 33 & 0 & 53 \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & & 0.998 & & & 0.987 & & & & & & 0.917 & \\
\hline FIt Protected & & 0.992 & & & & & & 0.964 & & & 0.981 & \\
\hline Satd. Flow (prot) & 0 & 1881 & 0 & 0 & 1859 & 0 & 0 & 1832 & 0 & 0 & 1709 & \\
\hline Flt Permitted & & 0.992 & & & & & & 0.964 & & & 0.981 & \\
\hline Satd. Flow (perm) & 0 & 1881 & 0 & 0 & 1859 & 0 & 0 & 1832 & 0 & 0 & 1709 & \\
\hline Link Speed (mph) & & 35 & & & 35 & & & 30 & & & 30 & \\
\hline Link Distance (t) & & 630 & & & 774 & & & 513 & & & 1914 & \\
\hline Travel Time (s) & & 12.3 & & & 15.1 & & & 11.7 & & & 43.5 & \\
\hline Peak Hour Factor & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 \\
\hline Heavy Vehicles (\%) & 0\% & 0\% & 0\% & 0\% & 1\% & 0\% & 0\% & 0\% & 0\% & 0\% & 0\% & 0\% \\
\hline Adj. Flow (vph) & 76 & 382 & 6 & 0 & 242 & 26 & 3 & 1 & 0 & 38 & 0 & 60 \\
\hline \multicolumn{13}{|l|}{Shared Lane Traffic (\%)} \\
\hline Lane Group Flow (vph) & 0 & 464 & 0 & 0 & 268 & 0 & 0 & 4 & 0 & 0 & 98 & \\
\hline Enter Blocked Intersection & No & No & No & No & No & No & No & No & No & No & No & No \\
\hline Lane Alignment & Left & Left & Right & Left & Left & Right & Left & Left & Right & Left & Left & Right \\
\hline Median Width(ft) & & 0 & & & 0 & & & 0 & & & 0 & \\
\hline Link Offset(ft) & & 0 & & & 0 & & & 0 & & & 0 & \\
\hline Crosswalk Width(tt) & & 16 & & & 16 & & & 16 & & & 16 & \\
\hline \multicolumn{13}{|l|}{Two way Left Turn Lane} \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Turning Speed (mph) & 15 & & 9 & 15 & & 9 & 15 & & 9 & 15 & & \\
\hline Sign Control & & Free & & & Free & & & Stop & & & Stop & \\
\hline
\end{tabular}

\section*{\(\begin{array}{ll}\text { Intersection Summary } & \\ \text { Area Type: Other }\end{array}\) \\ Area Type:
Control Type: Unsignalized}

Intersection Capacity Utilization 49.3\%
ICU Level of Service A
Analysis Period (min) 15


\section*{APPENDIX E: LOS CALCULATIONS - FULL BUILD CONDITIONS}


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\section*{1/30/2024}

Passero Associates
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multicolumn{7}{|l|}{\begin{tabular}{l}
Lanes, Volumes, Timings \\
4: Furman Road \& Proposed Driveway
\end{tabular}} & Fellows Rd Properties 2029 Full Build AM \\
\hline & \(\lambda\) & \(\rightarrow\) & \(\leftarrow\) & 4 & - & \(\checkmark\) & \\
\hline Lane Group & EBL & EBT & WBT & WBR & SBL & SBR & \\
\hline Lane Configurations & & \(\uparrow\) & \(\hat{}\) & & M & & \\
\hline Traffic Volume (vph) & 3 & 16 & 22 & 0 & 1 & 9 & \\
\hline Future Volume (vph) & 3 & 16 & 22 & 0 & 1 & 9 & \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & \\
\hline Frt & & & & & 0.877 & & \\
\hline Flt Protected & & 0.993 & & & 0.995 & & \\
\hline Satd. Flow (prot) & 0 & 1850 & 1863 & 0 & 1625 & 0 & \\
\hline Flt Permitted & & 0.993 & & & 0.995 & & \\
\hline Satd. Flow (perm) & 0 & 1850 & 1863 & 0 & 1625 & 0 & \\
\hline Link Speed (mph) & & 30 & 40 & & 30 & & \\
\hline Link Distance (t) & & 1350 & 763 & & 478 & & \\
\hline Travel Time (s) & & 30.7 & 13.0 & & 10.9 & & \\
\hline Peak Hour Factor & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 & \\
\hline Adj. Flow (vph) & 3 & 17 & 24 & 0 & 1 & 10 & \\
\hline \multicolumn{8}{|l|}{Shared Lane Traffic (\%)} \\
\hline Lane Group Flow (vph) & 0 & 20 & 24 & 0 & 11 & 0 & \\
\hline Enter Blocked Intersection & No & No & No & No & No & No & \\
\hline Lane Alignment & Left & Left & Left & Right & Left & Right & \\
\hline Median Width(t) & & 0 & 0 & & 12 & & \\
\hline Link Offset(ft) & & 0 & 0 & & 0 & & \\
\hline Crosswalk Width(ft) & & 16 & 16 & & 16 & & \\
\hline \multicolumn{8}{|l|}{Two way Left Turn Lane} \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & \\
\hline Turning Speed (mph) & 15 & & & 9 & 15 & 9 & \\
\hline Sign Control & & Free & Free & & Stop & & \\
\hline \multicolumn{8}{|l|}{Intersection Summary} \\
\hline Area Type: & & & & & & & \\
\hline \multicolumn{8}{|l|}{Control Type: Unsignalized} \\
\hline \multicolumn{8}{|l|}{Intersection Capacity Utilization 13.4\% ICU Level of Service A} \\
\hline Analysis Period (min) 15 & & & & & & & \\
\hline
\end{tabular}

\section*{01/30/202}

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\section*{1/30/2024}

Passero Associates
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{9}{|l|}{\begin{tabular}{l}
Lanes, Volumes, Timings \\
5: Roxwell Court/Fellows Road \& Whitney
\end{tabular}} & \multicolumn{4}{|l|}{Fellows Rd Properties 2029 Full Build AM} \\
\hline & \(\Rightarrow\) & & & & & & 4 & \(\uparrow\) & 1 & & & \(\checkmark\) \\
\hline Lane Group & EBL & EBT & EBR & WBL & WBT & WBR & NBL & NBT & NBR & SBL & SBT & SBR \\
\hline Lane Configurations & & \(\uparrow\) & & & \(\uparrow\) & & & ¢ & & & \(\uparrow\) & \\
\hline Traffic Volume (vph) & 27 & 114 & 0 & 1 & 346 & 20 & 3 & 0 & 0 & 42 & , & \\
\hline Future Volume (vph) & 27 & 114 & 0 & 1 & 346 & 20 & 3 & 0 & 0 & 42 & 0 & \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & & & & & 0.993 & & & & & & 0.915 & \\
\hline FIt Protected & & 0.991 & & & & & & 0.950 & & & 0.982 & \\
\hline Satd. Flow (prot) & 0 & 1721 & 0 & 0 & 1837 & 0 & 0 & 1805 & 0 & 0 & 1655 & \\
\hline FIt Permitted & & 0.991 & & & & & & 0.950 & & & 0.982 & \\
\hline Satd. Flow (perm) & 0 & 1721 & 0 & 0 & 1837 & 0 & 0 & 1805 & 0 & 0 & 1655 & \\
\hline Link Speed (mph) & & 35 & & & 35 & & & 30 & & & 30 & \\
\hline Link Distance (t) & & 630 & & & 774 & & & 513 & & & 1914 & \\
\hline Travel Time (s) & & 12.3 & & & 15.1 & & & 11.7 & & & 43.5 & \\
\hline Peak Hour Factor & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 & 0.86 \\
\hline Heavy Vehicles (\%) & 11\% & 9\% & 0\% & 0\% & 2\% & 15\% & 0\% & 0\% & 0\% & 0\% & 0\% & 5\% \\
\hline Adj. Flow (vph) & 31 & 133 & 0 & 1 & 402 & 23 & 3 & 0 & 0 & 49 & , & 83 \\
\hline \multicolumn{13}{|l|}{Shared Lane Traffic (\%)} \\
\hline Lane Group Flow (vph) & 0 & 164 & 0 & 0 & 426 & 0 & 0 & 3 & 0 & 0 & 132 & \\
\hline Enter Blocked Intersection & No & No & No & No & No & No & No & No & No & No & No & No \\
\hline Lane Alignment & Left & Left & Right & Left & Left & Right & Left & Left & Right & Left & Left & Righ \\
\hline Median Width(ft) & & 0 & & & 0 & & & 0 & & & 0 & \\
\hline Link Offset(ft) & & 0 & & & 0 & & & 0 & & & 0 & \\
\hline Crosswalk Width(tt) & & 16 & & & 16 & & & 16 & & & 16 & \\
\hline \multicolumn{13}{|l|}{Two way Left Turn Lane} \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Turning Speed (mph) & 15 & & 9 & 15 & & 9 & 15 & & 9 & 15 & & \\
\hline Sign Control & & Free & & & Free & & & Stop & & & Stop & \\
\hline \multicolumn{13}{|l|}{Intersection Summary} \\
\hline \multicolumn{13}{|l|}{\multirow[t]{2}{*}{Area Type: Other
Control Type: Unsignalized}} \\
\hline & & & & & & & & & & & & \\
\hline \multicolumn{13}{|l|}{} \\
\hline \multicolumn{13}{|l|}{\begin{tabular}{l}
Intersection Capacity Utilization 40.4\% \\
ICU Level of Service A Analysis Period (min) 15
\end{tabular}} \\
\hline
\end{tabular}

\begin{tabular}{|c|c|c|c|c|c|c|}
\hline & \(\rightarrow\) & & \(\dagger\) & & 4 & P \\
\hline Lane Group & EBT & EBR & WBL & WBT & NBL & NBR \\
\hline Lane Configurations & f & & & \(\uparrow\) & M & \\
\hline Traffic Volume (vph) & 793 & 137 & 49 & 497 & 77 & 31 \\
\hline Future Volume (vph) & 793 & 137 & 49 & 497 & 77 & 31 \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & 0.980 & & & & 0.962 & \\
\hline Flt Protected & & & & 0.996 & 0.965 & \\
\hline Satd. Flow (prot) & 1846 & 0 & 0 & 1859 & 1764 & 0 \\
\hline Flt Permitted & & & & 0.996 & 0.965 & \\
\hline Satd. Flow (perm) & 1846 & 0 & 0 & 1859 & 1764 & 0 \\
\hline Link Speed (mph) & 45 & & & 45 & 35 & \\
\hline Link Distance (ft) & 369 & & & 524 & 386 & \\
\hline Travel Time (s) & 5.6 & & & 7.9 & 7.5 & \\
\hline Peak Hour Factor & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 \\
\hline Heavy Vehicles (\%) & 1\% & 0\% & 0\% & 2\% & 0\% & 0\% \\
\hline Adj. Flow (vph) & 881 & 152 & 54 & 552 & 86 & 34 \\
\hline Shared Lane Trafic (\%) & & & & & & \\
\hline Lane Group Flow (vph) & 1033 & 0 & 0 & 606 & 120 & 0 \\
\hline Enter Blocked Intersection & No & No & No & No & No & No \\
\hline Lane Alignment & Left & Right & Left & Left & Left & Right \\
\hline Median Width(ft) & 0 & & & 0 & 12 & \\
\hline Link Offset(ft) & 0 & & & 0 & 0 & \\
\hline Crosswalk Width(ft) & 16 & & & 16 & 16 & \\
\hline Two way Left Turn Lane & & & & & & \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Turning Speed (mph) & & 9 & 15 & & 15 & , \\
\hline Sign Control & Free & & & Free & Stop & \\
\hline Intersection Summary & & & & & & \\
\hline Area Type: & her & & & & & \\
\hline \multicolumn{7}{|l|}{Control Type: Unsignalized} \\
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Intersection Capacity Utilization 79.7\%
Analysis Period (min) 15}} & & & \multicolumn{3}{|r|}{\multirow[t]{2}{*}{ICU Level of Service D}} \\
\hline & & & & & & \\
\hline
\end{tabular}

HCM 6th TWSC

\begin{tabular}{|c|c|c|c|c|c|c|}
\hline & \(\checkmark\) & & 4 & \(>\) & & \(\downarrow\) \\
\hline Lane Group & WBL & WBR & NBT & NBR & SBL & SBT \\
\hline Lane Configurations & M & & \(\dagger\) & & & \(\uparrow\) \\
\hline Trafic Volume (vph) & 20 & 45 & 60 & 33 & 74 & 87 \\
\hline Future Volume (vph) & 20 & 45 & 60 & 33 & 74 & 87 \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & 0.907 & & 0.952 & & & \\
\hline Flt Protected & 0.985 & & & & & 0.978 \\
\hline Satd. Flow (prot) & 1664 & 0 & 1773 & 0 & 0 & 1822 \\
\hline Fit Permitted & 0.985 & & & & & 0.978 \\
\hline Satd. Flow (perm) & 1664 & 0 & 1773 & 0 & 0 & 1822 \\
\hline Link Speed (mph) & 30 & & 35 & & & 35 \\
\hline Link Distance ( t ) & 822 & & 1480 & & & 908 \\
\hline Travel Time (s) & 18.7 & & 28.8 & & & 17.7 \\
\hline Peak Hour Factor & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 \\
\hline Adj. Flow (vph) & 22 & 49 & 65 & 36 & 80 & 95 \\
\hline \multicolumn{7}{|l|}{Shared Lane Traffic (\%)} \\
\hline Lane Group Flow (vph) & 71 & 0 & 101 & 0 & 0 & 175 \\
\hline Enter Blocked Intersection & No & No & No & No & No & No \\
\hline Lane Alignment & Left & Right & Left & Right & Left & Left \\
\hline Median Width(t) & 12 & & 0 & & & 0 \\
\hline Link Offset(ft) & 0 & & 0 & & & 0 \\
\hline Crosswalk Width(ft) & 16 & & 16 & & & 16 \\
\hline \multicolumn{7}{|l|}{Two way Left Turn Lane} \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Turning Speed (mph) & 15 & 9 & & 9 & 15 & \\
\hline Sign Control & Stop & & Free & & & Free \\
\hline \multicolumn{7}{|l|}{Intersection Summary} \\
\hline Area Type: & ther & & & & & \\
\hline \multicolumn{7}{|l|}{Control Type: Unsignalized} \\
\hline \multicolumn{4}{|l|}{} & \multicolumn{3}{|r|}{\multirow[t]{2}{*}{ICU Level of Service A}} \\
\hline \multicolumn{2}{|l|}{Intersection Capacity Utilization 25.9\% Analysis Period (min) 15} & & & & & \\
\hline
\end{tabular}

HCM 6th TWSC

\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline & \(\dagger\) & & \(\uparrow\) & \% & & \(\downarrow\) & \\
\hline Lane Group & WBL & WBR & NBT & NBR & SBL & SBT & \\
\hline Lane Configurations & \% & & \(\dagger\) & & & \(\uparrow\) & \\
\hline Traffic Volume (vph) & 18 & 15 & 77 & 19 & 20 & 87 & \\
\hline Future Volume (vph) & 18 & 15 & 77 & 19 & 20 & 87 & \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & \\
\hline Frt & 0.937 & & 0.974 & & & & \\
\hline Flt Protected & 0.974 & & & & & 0.991 & \\
\hline Satd. Flow (prot) & 1734 & 0 & 1851 & 0 & 0 & 1883 & \\
\hline FIt Permitted & 0.974 & & & & & 0.991 & \\
\hline Satd. Flow (perm) & 1734 & 0 & 1851 & 0 & 0 & 1883 & \\
\hline Link Speed (mph) & 40 & & 30 & & & 35 & \\
\hline Link Distance (ft) & 1350 & & 694 & & & 1480 & \\
\hline Travel Time (s) & 23.0 & & 15.8 & & & 28.8 & \\
\hline Peak Hour Factor & 0.81 & 0.81 & 0.81 & 0.81 & 0.81 & 0.81 & \\
\hline Heavy Vehicles (\%) & 0\% & 0\% & 0\% & 0\% & 0\% & 0\% & \\
\hline Adj. Flow (vph) & 22 & 19 & 95 & 23 & 25 & 107 & \\
\hline \multicolumn{7}{|l|}{Shared Lane Traffic (\%)} & \\
\hline Lane Group Flow (vph) & 41 & 0 & 118 & 0 & , & 132 & \\
\hline Enter Blocked Intersection & No & No & No & No & No & No & \\
\hline Lane Alignment & Left & Right & Left & Right & Left & Left & \\
\hline Median Width(f) & 12 & & 0 & & & 0 & \\
\hline Link Offset(ft) & 0 & & 0 & & & 0 & \\
\hline Crosswalk Width(ft) & 16 & & 16 & & & 16 & \\
\hline \multicolumn{7}{|l|}{Two way Left Turn Lane} & \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & \\
\hline Turning Speed (mph) & 15 & 9 & & 9 & 15 & & \\
\hline Sign Control & Stop & & Free & & & Free & \\
\hline \multicolumn{7}{|l|}{Intersection Summary} & \\
\hline \multicolumn{7}{|l|}{Area Type: Other} & \\
\hline Control Type: Unsignalized & & & & & & & \\
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Intersection Capacity Utilization 22.4\% Analysis Period (min) 15}} & \multicolumn{6}{|r|}{\multirow[t]{2}{*}{ICU Level of Service A}} \\
\hline & & & & & & & \\
\hline
\end{tabular}

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\section*{1/30/2024}

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\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multicolumn{7}{|l|}{\begin{tabular}{l}
Lanes, Volumes, Timings \\
4: Furman Road \& Proposed Driveway
\end{tabular}} & Fellows Rd Properties 2029 Full Build PM \\
\hline & \(\lambda\) & \(\rightarrow\) & \(\leftarrow\) & 4 & - & \(\checkmark\) & \\
\hline Lane Group & EBL & EBT & WBT & WBR & SBL & SBR & \\
\hline Lane Configurations & & \(\uparrow\) & \(\hat{}\) & & M & & \\
\hline Traffic Volume (vph) & 9 & 30 & 27 & 1 & 1 & 6 & \\
\hline Future Volume (vph) & 9 & 30 & 27 & 1 & 1 & 6 & \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & \\
\hline Frt & & & 0.995 & & 0.882 & & \\
\hline Flt Protected & & 0.989 & & & 0.994 & & \\
\hline Satd. Flow (prot) & 0 & 1842 & 1853 & 0 & 1633 & 0 & \\
\hline Flt Permitted & & 0.989 & & & 0.994 & & \\
\hline Satd. Flow (perm) & 0 & 1842 & 1853 & 0 & 1633 & 0 & \\
\hline Link Speed (mph) & & 30 & 30 & & 30 & & \\
\hline Link Distance (t) & & 1350 & 763 & & 478 & & \\
\hline Travel Time (s) & & 30.7 & 17.3 & & 10.9 & & \\
\hline Peak Hour Factor & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 & \\
\hline Adj. Flow (vph) & 10 & 33 & 29 & 1 & 1 & 7 & \\
\hline \multicolumn{8}{|l|}{Shared Lane Traffic (\%)} \\
\hline Lane Group Flow (vph) & 0 & 43 & 30 & 0 & 8 & 0 & \\
\hline Enter Blocked Intersection & No & No & No & No & No & No & \\
\hline Lane Alignment & Left & Left & Left & Right & Left & Right & \\
\hline Median Width(t) & & 0 & 0 & & 12 & & \\
\hline Link Offset(ft) & & 0 & 0 & & 0 & & \\
\hline Crosswalk Width(ft) & & 16 & 16 & & 16 & & \\
\hline \multicolumn{8}{|l|}{Two way Left Turn Lane} \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & \\
\hline Turning Speed (mph) & 60 & & & 60 & 60 & 60 & \\
\hline Sign Control & & Free & Free & & Stop & & \\
\hline \multicolumn{8}{|l|}{Intersection Summary} \\
\hline Area Type: & & & & & & & \\
\hline \multicolumn{8}{|l|}{Control Type: Unsignalized} \\
\hline \multicolumn{8}{|l|}{Intersection Capacity Utilization 18.7\% ICU Level of Service A} \\
\hline Analysis Period (min) 15 & & & & & & & \\
\hline
\end{tabular}

\section*{01/30/202}

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HCM 6th TWSC

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{9}{|l|}{\begin{tabular}{l}
Lanes, Volumes, Timings \\
5: Roxwell Court/Fellows Road \& Whitney Road
\end{tabular}} & \multicolumn{4}{|l|}{Fellows Rd Propertie 2029 Full Build P} \\
\hline & \(\rangle\) & \(\rightarrow\) & & & & 4 & 4 & \(\uparrow\) & 1 & & \(\downarrow\) & \(\downarrow\) \\
\hline Lane Group & EBL & EBT & EBR & WBL & WBT & WBR & NBL & NBT & NBR & SBL & SBT & SBR \\
\hline Lane Configurations & & \(\dagger\) & & & \(\dagger\) & & & ¢ & & & \({ }_{\text {¢ }}\) & \\
\hline Trafic Volume (vph) & 89 & 336 & 5 & 0 & 213 & 37 & 3 & 1 & 0 & 41 & 0 & \\
\hline Future Volume (vph) & 89 & 336 & 5 & 0 & 213 & 37 & 3 & 1 & 0 & 41 & 0 & 6 \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 190 \\
\hline Lane Utill. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & & 0.998 & & & 0.980 & & & & & & 0.917 & \\
\hline Flt Protected & & 0.990 & & & & & & 0.964 & & & 0.981 & \\
\hline Satd. Flow (prot) & 0 & 1877 & 0 & 0 & 1846 & 0 & 0 & 1832 & 0 & 0 & 1709 & \\
\hline Flt Permitted & & 0.990 & & & & & & 0.964 & & & 0.981 & \\
\hline Satd. Flow (perm) & 0 & 1877 & 0 & 0 & 1846 & 0 & 0 & 1832 & 0 & 0 & 1709 & \\
\hline Link Speed (mph) & & 35 & & & 35 & & & 30 & & & 30 & \\
\hline Link Distance ( t ) & & 630 & & & 774 & & & 513 & & & 1914 & \\
\hline Travel Time (s) & & 12.3 & & & 15.1 & & & 11.7 & & & 43.5 & \\
\hline Peak Hour Factor & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.88 & 0.8 \\
\hline Heavy Vehicles (\%) & 0\% & 0\% & 0\% & 0\% & 1\% & 0\% & 0\% & 0\% & 0\% & 0\% & 0\% & 0\% \\
\hline \multicolumn{13}{|l|}{\(\begin{array}{llllllllllll}\text { Adj. Flow (vph) } & 101 & 382 & 6 & 0 & 242 & 42 & 3 \\ \text { Shared Lane Traffic (\%) } & & & & & \end{array}\)} \\
\hline \multicolumn{13}{|l|}{} \\
\hline Lane Group Flow (vph) & 0 & 489 & 0 & 0 & 284 & 0 & 0 & 4 & 0 & 0 & 123 & \\
\hline Enter Blocked Intersection & No & No & No & No & No & No & No & No & No & No & No & No \\
\hline Lane Alignment & Left & Left & Right & Left & Left & Right & Left & Left & Right & Left & Left & Righ \\
\hline Median Width(t) & & 0 & & & 0 & & & 0 & & & 0 & \\
\hline Link Offset(ft) & & 0 & & & 0 & & & 0 & & & 0 & \\
\hline Crosswalk Width(ft) & & 16 & & & 16 & & & 16 & & & 16 & \\
\hline \multicolumn{13}{|l|}{Two way Left Turn Lane} \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Turning Speed (mph) & 15 & & 9 & 15 & & 9 & 15 & & 9 & 15 & & \\
\hline Sign Control & & Free & & & Free & & & Stop & & & Stop & \\
\hline \multicolumn{13}{|l|}{Intersection Summary} \\
\hline Area Type: & & & & & & & & & & & & \\
\hline \multicolumn{13}{|l|}{Control Type: Unsignalized} \\
\hline Intersection Capacity Utiliza & 52.6\% & & & & Level & Servic & & & & & & \\
\hline Analysis Period (min) 15 & & & & & & & & & & & & \\
\hline
\end{tabular}


\section*{APPENDIX F: LOS CALCULATIONS - FULL BUILD CONDITIONS WITH MITIGATION}
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline & \(\rightarrow\) & & \(\checkmark\) & & 4 & 1 \\
\hline Lane Group & EBT & EBR & WBL & WBT & NBL & NBR \\
\hline Lane Configurations & F & & \% & \(\uparrow\) & M & \\
\hline Traffic Volume (vph) & 253 & 45 & 13 & 767 & 106 & 40 \\
\hline Future Volume (vph) & 253 & 45 & 13 & 767 & 106 & 40 \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 \\
\hline Storage Length (t) & & 0 & 150 & & 0 & 0 \\
\hline Storage Lanes & & 0 & 1 & & 1 & 0 \\
\hline Taper Length (ft) & & & 25 & & 25 & \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & 0.980 & & & & 0.963 & \\
\hline Flt Protected & & & 0.950 & & 0.965 & \\
\hline Satd. Flow (prot) & 1701 & 0 & 1805 & 1863 & 1766 & 0 \\
\hline FIt Permitted & & & 0.950 & & 0.965 & \\
\hline Satd. Flow (perm) & 1701 & 0 & 1805 & 1863 & 1766 & 0 \\
\hline Link Speed (mph) & 45 & & & 45 & 35 & \\
\hline Link Distance (ft) & 369 & & & 524 & 386 & \\
\hline Travel Time (s) & 5.6 & & & 7.9 & 7.5 & \\
\hline Peak Hour Factor & 0.98 & 0.98 & 0.98 & 0.98 & 0.98 & 0.98 \\
\hline Heavy Vehicles (\%) & 9\% & 12\% & 0\% & 2\% & 0\% & 0\% \\
\hline Adj. Flow (vph) & 258 & 46 & 13 & 783 & 108 & 41 \\
\hline Shared Lane Traffic (\%) & & & & & & \\
\hline Lane Group Flow (vph) & 304 & 0 & 13 & 783 & 149 & 0 \\
\hline Enter Blocked Intersection & No & No & No & No & No & No \\
\hline Lane Alignment & Left & Right & Left & Left & Left & Right \\
\hline Median Width(t) & 12 & & & 12 & 12 & \\
\hline Link Offset(ft) & 0 & & & 0 & 0 & \\
\hline Crosswalk Width(ft) & 16 & & & 16 & 16 & \\
\hline Two way Left Turn Lane & Yes & & & Yes & & \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Turning Speed (mph) & & 9 & 15 & & 15 & 9 \\
\hline Sign Control & Free & & & Free & Stop & \\
\hline \multicolumn{7}{|l|}{Intersection Summary} \\
\hline Area Type: & \multicolumn{6}{|l|}{Other} \\
\hline \multicolumn{7}{|l|}{Control Type: Unsignalized} \\
\hline \multicolumn{4}{|l|}{\multirow[t]{2}{*}{Intersection Capacity Utilization 55.4\%
Analysis Period (min) 15}} & \multicolumn{3}{|r|}{\multirow[t]{2}{*}{ICU Level of Service B}} \\
\hline & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{lrrrrrrr}
\hline & & & & & & & \\
\hline & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline & \(\checkmark\) & & \(\uparrow\) & \(p\) & & \(\downarrow\) \\
\hline Lane Group & WBL & WBR & NBT & NBR & SBL & SBT \\
\hline Lane Configurations & M & & \(\dagger\) & & & \(\uparrow\) \\
\hline Traffic Volume (vph) & 32 & 72 & 46 & 11 & 24 & 36 \\
\hline Future Volume (vph) & 32 & 72 & 46 & 11 & 24 & 36 \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & 0.907 & & 0.974 & & & \\
\hline Flt Protected & 0.985 & & & & & 0.980 \\
\hline Satd. Flow (prot) & 1664 & 0 & 1814 & 0 & 0 & 1825 \\
\hline Flt Permitted & 0.985 & & & & & 0.980 \\
\hline Satd. Flow (perm) & 1664 & 0 & 1814 & 0 & 0 & 1825 \\
\hline Link Speed (mph) & 30 & & 30 & & & 30 \\
\hline Link Distance (ft) & 822 & & 1480 & & & 908 \\
\hline Travel Time (s) & 18.7 & & 33.6 & & & 20.6 \\
\hline Peak Hour Factor & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 \\
\hline Adj. Flow (vph) & 35 & 78 & 50 & 12 & 26 & 39 \\
\hline \multicolumn{7}{|l|}{Shared Lane Traffic (\%)} \\
\hline Lane Group Flow (vph) & 113 & 0 & 62 & 0 & 0 & 65 \\
\hline Enter Blocked Intersection & No & No & No & No & No & No \\
\hline Lane Alignment & Left & Right & Left & Right & Left & Left \\
\hline Median Width(ft) & 12 & & 0 & & & 0 \\
\hline Link Offset(ft) & 0 & & 0 & & & 0 \\
\hline Crosswalk Width(ft) & 16 & & 16 & & & 16 \\
\hline \multicolumn{7}{|l|}{Two way Left Turn Lane} \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Turning Speed (mph) & 60 & 60 & & 60 & 60 & \\
\hline Sign Control & Stop & & Free & & & Free \\
\hline \multicolumn{7}{|l|}{Intersection Summary} \\
\hline Area Type: & & & & & & \\
\hline \multicolumn{7}{|l|}{Control Type: Unsignalized} \\
\hline \multicolumn{4}{|l|}{Intersection Capacity Utilization 22.8\%} & \multicolumn{3}{|r|}{\multirow[t]{2}{*}{ICU Level of Service A}} \\
\hline \multicolumn{2}{|l|}{Analysis Period (min) 15} & & & & & \\
\hline
\end{tabular}


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3: Fellows Road \& Furman Road


Frt
t Protected
\(\begin{array}{ll} & 0.97 \\ \text { Satd. Flow (prot) } & 0.971\end{array}\)
\(\begin{array}{lllllll} & 1676 & 0 & 1771 & 0 & 0 & 1890\end{array}\)
\(\begin{array}{lllllll}\text { satd. Flow (perm) } & 1676 & 0 & 1771 & 0 & 0 & 0.994 \\ 1800\end{array}\)
\begin{tabular}{lrrrr} 
& & & \\
Satd. Flow (perm) & 40 & 30 & 0 & 1800 \\
Link Speed (mph) & 4350 & 694 & 35 \\
\hline
\end{tabular}

Link Distance (ft)
\begin{tabular}{lllll} 
Travel Time (s) & 23.0 & 15.8 & 28.8 \\
Peak Hour Factor & 0.8 & & & \\
\hline
\end{tabular}
\(\begin{array}{lllllll}\text { Heavy Vehicles (\%) } & 0.94 & 0.94 & 0.94 & 0.94 & 0.94 & 0.94\end{array}\)
\(\begin{array}{lrrrrrrr}\text { Adj. Flow (vph) } & 20 & 13 & 48 & 12 & 9 & 64\end{array}\)
Shared Lane Traffic (\%)
\(\begin{array}{lllllll}\text { Lane Group Flow (vph) } & 33 & 0 & 60 & 0 & 0 & 73\end{array}\)
Enter Blocked Intersection No No No No No No
ane Alignment
edian Width(tt)
Cosswalk Width
Crosswalk Width(ft)
\begin{tabular}{lrrrrrl|}
\hline Two way Left Turn Lane & & & & & & \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
Turning Speed (mph) & 15 & 9 & Free & 9 & 15 & Free \\
\hline Sign Control & Stop & & & & & \\
\hline
\end{tabular}
\begin{tabular}{ll} 
Intersection Summary \\
\hline Area Type: Other
\end{tabular}
Area Type:
Intersection Capacity Utilization 19.9\%
Analysis Period (min) 15


\section*{4: Furman Road \& Proposed Driveway}
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline Lane Group & EBL & EBT & WBT & WBR & SBL & SBR \\
\hline Lane Configurations & & \(\uparrow\) & \(\hat{F}\) & & M & \\
\hline Traffic Volume (vph) & 3 & 16 & 22 & 0 & 1 & 9 \\
\hline Future Volume (vph) & 3 & 16 & 22 & 0 & 1 & 9 \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & & & & & 0.877 & \\
\hline Flt Protected & & 0.993 & & & 0.995 & \\
\hline Satd. Flow (prot) & 0 & 1850 & 1863 & 0 & 1625 & 0 \\
\hline Flt Permitted & & 0.993 & & & 0.995 & \\
\hline Satd. Flow (perm) & 0 & 1850 & 1863 & 0 & 1625 & 0 \\
\hline Link Speed (mph) & & 30 & 40 & & 30 & \\
\hline Link Distance (t) & & 1350 & 763 & & 478 & \\
\hline Travel Time (s) & & 30.7 & 13.0 & & 10.9 & \\
\hline Peak Hour Factor & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 \\
\hline Adj. Flow (vph) & 3 & 17 & 24 & 0 & 1 & 10 \\
\hline Shared Lane Traffic (\%) & & & & & & \\
\hline Lane Group Flow (vph) & 0 & 20 & 24 & 0 & 11 & 0 \\
\hline Enter Blocked Intersection & No & No & No & No & No & No \\
\hline Lane Alignment & Left & Left & Left & Right & Left & Right \\
\hline Median Width(ft) & & 0 & 0 & & 12 & \\
\hline Link Offset(ft) & & 0 & 0 & & 0 & \\
\hline Crosswalk Width(ft) & & 16 & 16 & & 16 & \\
\hline \multicolumn{7}{|l|}{Two way Left Turn Lane} \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Turning Speed (mph) & 15 & & & 9 & 15 & 9 \\
\hline Sign Control & & Free & Free & & Stop & \\
\hline \multicolumn{7}{|l|}{Intersection Summary} \\
\hline \multicolumn{7}{|l|}{\multirow[t]{2}{*}{Area Type. \({ }^{\text {Control Type: Unsignalized }}\)}} \\
\hline & & & & & & \\
\hline \multicolumn{4}{|l|}{Intersection Capacity Utilization 13.4\%} & \multicolumn{3}{|r|}{\multirow[t]{2}{*}{ICU Level of Service A}} \\
\hline \multicolumn{2}{|l|}{Analysis Period (min) 15} & & & & & \\
\hline
\end{tabular}


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\begin{tabular}{|c|c|c|c|c|c|c|}
\hline & \(\checkmark\) & 4 & \(\uparrow\) & \(p\) & & \(\downarrow\) \\
\hline Lane Group & WBL & WBR & NBT & NBR & SBL & SBT \\
\hline Lane Configurations & M & & \(\stackrel{1}{ }\) & & & \(\uparrow\) \\
\hline Traffic Volume (vph) & 20 & 45 & 60 & 33 & 74 & 87 \\
\hline Future Volume (vph) & 20 & 45 & 60 & 33 & 74 & 87 \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & 0.907 & & 0.952 & & & \\
\hline Flt Protected & 0.985 & & & & & 0.978 \\
\hline Satd. Flow (prot) & 1664 & 0 & 1773 & 0 & 0 & 1822 \\
\hline Flt Permitted & 0.985 & & & & & 0.978 \\
\hline Satd. Flow (perm) & 1664 & 0 & 1773 & 0 & 0 & 1822 \\
\hline Link Speed (mph) & 30 & & 35 & & & 35 \\
\hline Link Distance (t) & 822 & & 1480 & & & 908 \\
\hline Travel Time (s) & 18.7 & & 28.8 & & & 17.7 \\
\hline Peak Hour Factor & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 \\
\hline Adj. Flow (vph) & 22 & 49 & 65 & 36 & 80 & 95 \\
\hline \multicolumn{7}{|l|}{Shared Lane Traffic (\%)} \\
\hline Lane Group Flow (vph) & 71 & 0 & 101 & 0 & 0 & 175 \\
\hline Enter Blocked Intersection & No & No & No & No & No & No \\
\hline Lane Alignment & Left & Right & Left & Right & Left & Left \\
\hline Median Width(t) & 12 & & 0 & & & 0 \\
\hline Link Offset(ft) & 0 & & 0 & & & 0 \\
\hline Crosswalk Width(ft) & 16 & & 16 & & & 16 \\
\hline \multicolumn{7}{|l|}{Two way Left Turn Lane} \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Turning Speed (mph) & 15 & 9 & & 9 & 15 & \\
\hline Sign Control & Stop & & Free & & & Free \\
\hline \multicolumn{7}{|l|}{Intersection Summary} \\
\hline Area Type: & her & & & & & \\
\hline \multicolumn{7}{|l|}{Control Type: Unsignalized} \\
\hline \multicolumn{4}{|l|}{Intersection Capacity Utilization 25.9\%} & \multicolumn{3}{|r|}{\multirow[t]{2}{*}{ICU Level of Service A}} \\
\hline \multicolumn{2}{|l|}{Analysis Period (min) 15} & & & & & \\
\hline
\end{tabular}
\begin{tabular}{lrrrrrr}
\hline & & & & & & \\
\hline
\end{tabular}

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3: Fellows Road \& Furman Road


Lane Util. Factor
FIt Protected Satd. Flow (prot)
Satd. Flow (prot)
Satd. Flow (perm)
Sink Speed (mph)
ink Distance (tt)
Link Distance (ft)
Peak Hour Factor
Heavy Vehicles (\%)
Adj. Flow (vph)
Shared Lane Traffic (\%)
\(\begin{array}{lllllll}\text { Lane Group Flow (vph) } & 41 & 0 & 118 & 0 & 0 & 132\end{array}\)
No No No No No No
ane Alignment
Median Width(f)
Crosswalk Width
Crosswalk Width(ft)
\begin{tabular}{lrrrrrrr|}
\hline Two way Left Turn Lane & & & & & & \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
Turning Speed (mph) & 15 & 9 & & 9 & 15 & \\
\hline Sign Control & Stop & & Free & & & Free \\
\hline
\end{tabular}
Intersection Summary \(\quad\) Othe
Area Type:
Control Type. Unsignalzed
Analysis Period (min) 15
ICU Level of Service A


\section*{4: Furman Road \& Proposed Driveway}
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline Lane Group & EBL & EBT & WBT & WBR & SBL & SBR \\
\hline Lane Configurations & & \(\uparrow\) & \(\hat{\beta}\) & & \% & \\
\hline Traffic Volume (vph) & 9 & 30 & 27 & 1 & 1 & 6 \\
\hline Future Volume (vph) & 9 & 30 & 27 & 1 & 1 & 6 \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & & & 0.995 & & 0.882 & \\
\hline Flt Protected & & 0.989 & & & 0.994 & \\
\hline Satd. Flow (prot) & 0 & 1842 & 1853 & 0 & 1633 & 0 \\
\hline Flt Permitted & & 0.989 & & & 0.994 & \\
\hline Satd. Flow (perm) & 0 & 1842 & 1853 & 0 & 1633 & 0 \\
\hline Link Speed (mph) & & 30 & 30 & & 30 & \\
\hline Link Distance (ft) & & 1350 & 763 & & 478 & \\
\hline Travel Time (s) & & 30.7 & 17.3 & & 10.9 & \\
\hline Peak Hour Factor & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 \\
\hline Adj. Flow (vph) & 10 & 33 & 29 & 1 & 1 & 7 \\
\hline Shared Lane Traffic (\%) & & & & & & \\
\hline Lane Group Flow (vph) & 0 & 43 & 30 & 0 & 8 & 0 \\
\hline Enter Blocked Intersection & No & No & No & No & No & No \\
\hline Lane Alignment & Left & Left & Left & Right & Left & Right \\
\hline Median Width(ft) & & 0 & 0 & & 12 & \\
\hline Link Offset(ft) & & 0 & 0 & & 0 & \\
\hline Crosswalk Width(ft) & & 16 & 16 & & 16 & \\
\hline Two way Left Turn Lane & & & & & & \\
\hline Headway Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Turning Speed (mph) & 60 & & & 60 & 60 & 60 \\
\hline Sign Control & & Free & Free & & Stop & \\
\hline Intersection Summary & & & & & & \\
\hline \multicolumn{7}{|l|}{\multirow[t]{2}{*}{Area Type: \({ }^{\text {Control Type: Unsignalized }}\) Other}} \\
\hline & & & & & & \\
\hline \multicolumn{4}{|l|}{} & & Level & Service A \\
\hline \multicolumn{2}{|l|}{Intersection Capacity Utilization 18.7\% Analysis Period (min) 15} & & & \multicolumn{3}{|l|}{} \\
\hline
\end{tabular}


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