



January 15, 2026

Tim Ganey  
Village of Baldwinsville  
16 W Genesee Street  
Baldwinsville, NY 13027

**Re: *Baldwin Hill Estates Expansion  
Subdivision Preliminary Plat Application  
CHA Project # 103797***

Dear Mr. Ganey:

Enclosed please find 11 sets of the Site Layout Plan, Traffic Study and Wetland Delineation for the Baldwin Hill Estates Expansion along Merlewood Parkway and the Town of Lysander. The traffic study states that the additional traffic generated will have no significant or notable impact on traffic operations. It does recommend a two way left turn lane along the existing hatched area on NYS Route 31 at the proposed road connection to provide a queue space for left turning vehicles. The site plan has been updated to reflect the recommendations of the traffic study as well as the wetlands per the attached wetland delineation.

The army corp of engineers has indicated that their jurisdictional determination will be completed within the coming weeks and the project avoids all wetlands found in the delineation report.

The following items are included in this submission:

- Traffic Study Prepared by GTS Consulting
- Wetland Delineation Prepared by Earth Dimensions, Inc.
- Site Plan layout – 11 Copies

We look forward to discussing the project with the Planning Board at the upcoming meeting. In the meantime, if you have any questions, please feel free to contact me directly at 315-257-7258 or [BHarrell@chasolutions.com](mailto:BHarrell@chasolutions.com).

Very truly yours,

A handwritten signature in black ink that reads "Ben Harrell". The signature is written in a cursive, slightly slanted style.

Ben Harrell, P.E.  
Project Engineer IV

JFT/BGH

V:\Projects\ANY\K7\103797.000\07\_Permitting\Local\2026-01-15 Village Resubmission\Prelim Site Plan-01-15-26.doc



**Wetland and Waterbodies Delineation Report**

for

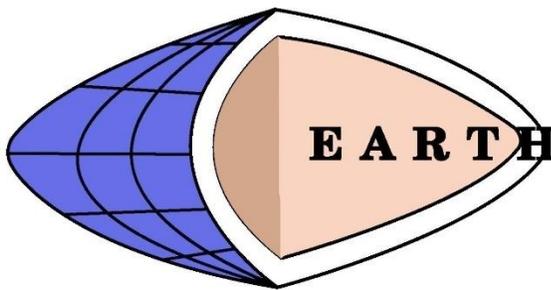
**BALDWIN HILL SECTION 4 &  
BALDWIN HILL APARTMENTS**

**Town of Lysander & Village of Baldwinsville**

**Onondaga County, New York**

for

**CHA**



**EARTH DIMENSIONS, INC.**

1091 Jamison Road, Elma, NY 14059

[www.earthdimensions.com](http://www.earthdimensions.com)

716-655-1717

February 13, 2024  
EDI Project Code: W8A24

**REPORT SUMMARIZING  
THE RESULTS OF  
A WETLAND DELINEATION SURVEY OF**

**BALDWIN HILL SECTION 4 &  
BALDWIN HILL APARTMENTS**

**Prepared for Submission to:**

U.S. ARMY CORPS OF ENGINEERS  
478 MAIN STREET  
BUFFALO, NEW YORK 14202

AND

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
5786 WIDEWATERS PARKWAY  
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REPORT DATE: February 13, 2024

EDI PROJECT CODE: W8A24

## PROJECT INFORMATION

Project Name ..... Baldwin Hill Section 4 & Baldwin Hill Apartments  
Street Address ..... 2914 Belgium Road  
SBL Numbers ..... 006.-07-03.1, 058.-06-09.1, 058.-06-11.1,  
..... 058.-06-12.1 & 073.-01-04.3  
Town/Village ..... Lysander/Baldwinsville  
County ..... Onondaga  
State ..... New York  
Latitude/Longitude (NAD83) ..... 43.16158°N, -76.30848°W  
Investigation Area ..... 38.37± Acres  
USGS 7.5 Minute Topographical Map ..... Baldwinsville Quadrangle  
Waterway ..... Unnamed Tributary to Seneca River  
Hydrologic Unit Code ..... 04140201  
Date of Delineation ..... February 6, 2024  
Consultant ..... Earth Dimensions, Inc.  
1091 Jamison Road  
Elma, New York 14059  
Point of Contact ..... Thomas Somerville  
(716)655-1717  
tsomerville@earthdimensions.com  
Engineer ..... CHA  
Property Owner ..... Jalac LLC  
Authority ..... Section 404, Article 24  
Permit/Letter Being Requested ..... Jurisdictional Determination

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## EXECUTIVE SUMMARY

CHA has proposed the development of a 38.37± acre project area located on the south side of Belgium Road in the Town of Lysander and Village of Baldwinsville, County of Onondaga, and State of New York. CHA has retained Earth Dimensions, Inc. (EDI) to complete a wetland delineation report that would allow the U.S. Army Corps of Engineers (USACE) and New York State Department of Environmental Conservation (NYSDEC) to determine their jurisdictional authority over the investigation area, pursuant to Section 404 of the Clean Water Act and Articles 15 (Protection of Waters) and 24 (Freshwater Wetlands) of the New York State Environmental Conservation Law. The proposed project does not qualify for Bipartisan Infrastructure Law (BIL) funding.

A preliminary review of available information pertaining to vegetation, soils, and hydrology in the project area was implemented prior to conducting a field investigation at the site. Sources of information included the United States Geological Survey (USGS), Natural Resources Conservation Service (NRCS), National Wetland Inventory (NWI), and NYSDEC Freshwater Wetland maps. The USGS, NRCS and NWI maps indicate the potential for wetlands under federal jurisdiction. The NYSDEC map indicates the potential for wetlands under state jurisdiction.

EDI applied methodology specified by the Corps of Engineers Wetlands Delineation Manual (January 1987) and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region Version 2.0 (January 2012) to perform a delineation of Federal jurisdictional wetlands within the site. EDI identified two (2) wetland areas totaling 0.52± acre and two (2) streams within the investigation area. The identification number of the wetlands, their acreage and boundary flags are as follows:

**TABLE 1: WETLAND SUMMARY**

Wetland Identification #	Geographic Center (WGS84)		Boundary Flag #	Total Acreage On-site	Wetland Type (Cowardin)	Wetland Type (Reschke)
	Latitude	Longitude				
Wetland 1	43.16229	-76.30773	W1-1 through W1-12	0.12±	PEM1B	Emergent Marsh
Wetland 2	43.16121	-76.30846	W2-1 through W2-25	0.40±	PFO1B	Hardwood Swamp
<b>Total Wetland Acreage:</b>				0.52±		

**TABLE 2: STREAM & DRAINAGE SUMMARY**

Stream Identification #	Geographic Center (WGS84)		Waterway	DEC Class	Linear Feet On-site	Highwater Width (Ft)	Flow Regime	Substrate	Classification (Cowardin)
	Latitude	Longitude							
Stream 1	43.16396	-76.330852	N/A	N/A	92	1 to 2 feet	Ephemeral	silt, rock	R4SB6
Stream 2	43.16080	-76.30735	UNT to Seneca River	N/A	132	2 to 3 feet	Intermittent	Silt	R4SB6

## SECTION I: INTRODUCTION

CHA has proposed the development of a 38.37± acre project acre on the south side of Belgium Road in the Town of Lysander and Village of Baldwinsville, County of Onondaga, and State of New York. The project has been given the name Baldwin Hill Section 4 & Baldwin Hill Apartments and is located on USGS 7.5 minute quadrangle map indexed as Baldwinsville (Figure 1). The field work was completed on February 6, 2024 using a Trimble Geo 7X GPS to locate wetland and drainage boundaries.

CHA has retained Earth Dimensions, Inc. (EDI) to complete a wetland delineation study at this site. The investigation was designed to facilitate a determination of the extent of USACE and NYSDEC jurisdiction over the project area pursuant to Section 404 of the Clean Water Act and Articles 15 (Protection of Waters) and 24 (Freshwater Wetlands) of the New York State Environmental Conservation Law.

EDI has performed a wetland delineation study at the site under guidelines specified by the *Corps of Engineers Wetlands Delineation Manual*, dated January 1987 (referred to hereafter as the Corps Manual) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region version 2.0* (January 2012) (referred to hereafter as the Northcentral and Northeast Regional Supplement). The purpose of this report is to present EDI's methods, results, conclusions and recommendations with respect to the Baldwin Hill Section 4 & Baldwin Hill Apartments project site.

## SECTION II: SITE DESCRIPTION

The Baldwin Hill Section 4 & Baldwin Hill Apartments project area is comprised of a 38.37± acre irregular shaped investigation area on the south side of Belgium Road and east side of Route 631. The investigation area is outlined on Figure 1 and depicted on the Wetland Delineation Map included in Appendix A (Figure 6). The northern portion of the investigation area is developed as a commercial lot.

The natural topography of the Baldwin Hill Section 4 & Baldwin Hill Apartments site is gently to moderately sloping. The uplands within the investigation area consisted of developed land, successional shrubland, successional northern hardwood, and successional fill pad communities. The wetland areas were found to consist of shallow emergent marsh and hardwood swamp communities. The vegetative communities of the investigation area are described according to *Ecological Communities of New York State* (Edinger et al. 2014).

## SECTION III: PRELIMINARY DATA REVIEW

### A. SUMMARY OF FINDINGS

Several sources of information may be reviewed to facilitate the completion of a wetland delineation study. In some cases, it is even possible to make a preliminary office wetland determination based upon available vegetation, soils, and hydrologic information for a project area. EDI completed a preliminary review of several data sources at the onset of this study. The results of the review are summarized as follows:

#### 1. USGS 7.5 Minute Topographical Map

The USGS quadrangle map (Figure 1) depicts the investigation area on the Baldwinsville quadrangle map. The figure depicts the flat to gently to moderately sloping topography of the site. Figure 1 depicts a wetland area and two streams within the investigation area.

#### 2. USFWS National Wetlands Inventory Map

The National Wetlands Inventory (NWI) map (Figure 2) obtained from the USFWS Wetland Mapper <http://www.fws.gov/wetlands/Data/Mapper.html> displays two (2) wetland types, PEM5Eh and R4SBC within the investigation area. The wetlands can be decoded as:

[P] Palustrine, [EM] Emergent, [5] Narrow leaved persistent, [E] Seasonally flooded/saturated,

[h] Diked/impounded

[R] Riverine, [4] Intermittent, [SB] Streambed, [C] Seasonally flooded

#### 3. Natural Resources Conservation Service Soils Map

The NRCS Soil Map (Figure 3) depicts the investigation area on the Onondaga County Soil Survey map obtained from the Web Soil Survey. As shown on that figure, the site has the following soil types:

##### Soil Conservation Service Legend

Map Unit Symbol	Map Unit Name	Hydric Rating
AIB	Alton gravelly fine sandy loam, 3 to 8% slopes	0
HIB	Hilton loam, 3 to 8% slopes	0
KeA	Kendaia silt loam, 0 to 3% slopes	5
LbC2	Lairdsville silty clay loam, 6 to 12% slopes, eroded	0

Ly	Lyons soils, 0 to 3% slopes	95
MdB	Madrid fine sandy loam, 2 to 8% slopes	0
MdC	Madrid fine sandy loam, 8 to 15% slopes	0
MdCK	Madrid fine sandy loam, rolling	0
OpD	Ontario and Madrid soils, 15 to 25% slopes	0

**Alton Series:** The Alton series consists of very deep, well drained or somewhat excessively drained soils formed in gravelly glacial outwash deposits. These soils are on terraces, kames, alluvial fans and remnant beach ridges. Saturated hydraulic conductivity in the mineral soil is high above 40 inches, and is high to very high below a depth of 40 inches. Slope ranges from 0 to 45 percent. Mean annual temperature is 49°F and mean annual precipitation is 38 inches.

**Hilton Series:** The Hilton series consists of very deep, moderately well drained soils formed in till of Wisconsin age, derived from sandstone and limestone. They are nearly level to sloping soils on till plains and glaciated dissected plateaus. Saturated hydraulic conductivity is moderately high or high in the mineral solum and moderately high to low in the substratum. Slope ranges from 0 to 15 percent. Mean annual temperature is 47°F and mean annual precipitation is 39 inches.

**Kendaia Series:** The Kendaia series consists of very deep, somewhat poorly drained soils formed in calcareous till. These areas occupy footslope positions and drainageways on dissected till plains, hills, and drumlins. Slope ranges from 0 to 15 percent. The mean annual temperature is 8°C and mean annual precipitation is 995 mm.

**Lairdsville Series:** The Lairdsville series consists of moderately deep, moderately well to well drained soils formed in till. They are nearly level to steep soils on bedrock-controlled landforms. Saturated hydraulic conductivity is moderately high to high in the mineral surface and low to moderately low in the subsoil and substratum. Slope ranges from 0 to 45 percent. Mean annual precipitation is about 37 inches and mean annual temperature is about 48°F.

**Lyons Series:** The Lyons series consists of very deep, poorly and very poorly drained soils on upland till plains in depressions and low areas in the landscape. They are occasionally in areas of seeps on gently sloping landscapes. They formed in calcareous till derived from limestone, calcareous shale and

sandstone. Slope ranges from 0 to 5 percent. The mean annual temperature is 48°F and mean annual precipitation is 38 inches.

**Madrid Series:** The Madrid series consists of very deep, well drained soils. They formed in loamy deposits derived mainly from sandstone, limestone and granite on till plains and moraines. Permeability is moderate or moderately slow in the solum and moderately slow in the substratum. Slope ranges from 3 to 50 percent. Mean annual temperature is 47°F and the mean annual precipitation is 37 inches.

**Ontario Series:** The Ontario series consists of deep or very deep, well drained soils formed in loamy till which is strongly influenced by limestone and sandstone. They are nearly level to very steep soils on convex upland till plains and drumlins. Slope ranges from 0 to 60 percent. Mean annual temperature is 46°F and mean annual precipitation is 39 inches.

The U.S. Department of Agriculture's National Technical Committee for Hydric Soils Criteria has developed a list of soils that often display hydric soil characteristics. Hydric soil typically forms in places of the landscape where surface water periodically collects for some time and/or where groundwater discharges sufficient to create waterlogged or anaerobic soils. Such anaerobic soils can support the growth and survival of hydrophytic vegetation that is tolerant of such conditions. The Hydric Rating indicates the proportion of map units that meets the criteria for hydric soils. Soil units are designated as "hydric," "predominantly hydric," "partially hydric," "predominantly nonhydric," or "nonhydric" depending on the hydric rating of its respective components. "Hydric" means that all components listed for a given map unit are rated as being hydric. "Predominantly hydric" means components that comprise 66 to 99 percent of the map unit are rated as hydric. "Partially hydric" means components that comprise 33 to 66 percent of the map unit are rated as hydric. "Predominantly nonhydric" means components that comprise up to 33 percent of the map unit are rated as hydric. "Nonhydric" means that none of the components are rated as hydric. Wetland hydrologic conditions, hydric soils, and hydrophytic vegetation are the three criteria of a wetland.

#### **4. NYSDEC Freshwater Wetlands Map**

The NYSDEC Freshwater Wetlands map (Figure 4) obtained from the online NYSDEC Environmental Resource Mapper displays the 500-foot checkzone to state jurisdictional Freshwater Wetland BAL-14 present in the eastern portion of the investigation area.

## **5. USGS StreamStats Drainage Map**

The USGS StreamStats map (Figure 7) depicts one blue-line stream within the investigation area. The stream is located in the northern portion of the site. The field investigation noted that the stream had been relocated many years ago.

## **6. FEMA Flood Map**

The Federal Emergency Management Agency (FEMA) flood map (Figure 11) obtained from the National Flood Hazard Layer on-line map shows no flood zones present within the investigation area.

## **B. RESULTS OF AGENCY INFORMATION REVIEW**

The preliminary data review revealed that the Corps may have jurisdiction over wetlands at the project location. The evidence consisted of potential federally regulated wetlands on the NWI map (Figure 2) and hydric soils and soils with possible inclusions depicted within the project area as shown on the NRCS map (Figure 3). The preliminary data review indicated that NYSDEC may have jurisdiction over wetlands on site as depicted on the NYSDEC Resource Mapper (Figure 4). Therefore, it was considered necessary to perform a field investigation at the site in order to determine the presence of federal and state protected wetlands. The methods specified in the Corps of Engineers Wetlands Delineation Manual (January 1987) and Northcentral and Northeast Regional Supplement Version 2.0 (January 2012) were employed during the field investigation. Procedures, results, and conclusions of the wetland delineation study are presented in the remainder of this report.

## SECTION IV: FIELD INVESTIGATION PROCEDURES

### **WETLANDS:**

#### Step 1

EDI applied methodology specified by the 1987 Corps of Engineers Wetlands Delineation Manual and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region to perform a delineation of Federal jurisdictional wetlands within the site. EDI used the Level 2 Routine Determination method (on-site inspection necessary) since insufficient information was available for making a determination for the entire project area. This methodology is consistent with Part IV, Section D of the Corps Manual.

#### Step 2

EDI's initial evaluation of the project area revealed that no atypical situations existed. If an atypical situation had existed, EDI would have used methodology outlined in Part IV, Section F of the Corps manual and/or Section 5 of the Northcentral and Northeast Supplement.

#### Step 3

EDI made the determination that normal environmental conditions were present, as the area was not lacking hydrophytic vegetation or hydrologic indicators due to annual, seasonal or long-term fluctuations in precipitation, surface water, or groundwater levels. The Northcentral and Northeast Supplement defines the growing season as beginning when one of the following indicators of biological activity are evident in a given year: (1) above-ground growth and development of vascular plants and/or (2) soil temperature measured at 12" below ground surface reaches 41°F. The end of the growing season is defined as the point at which deciduous species lose their leaves or the last herbaceous plants cease flowering and their leaves become dry or brown, whichever comes latest.

#### Step 4

In order to accurately identify the limits of various vegetative communities and extent of wetlands on-site, a routine determination method was used. As depicted in Appendix A and included in Appendix B, fifteen (15) data points were used to characterize the site.

### Step 5

The plant community inhabiting each observation point was characterized in accordance with methods specified in the Northcentral and Northeast Regional Supplement. Dominant plant species were identified within four vegetative strata (i.e. herb, sapling/shrub, tree and liana (woody vines) at each sampling point. The Northcentral and Northeast Regional Supplement defines the vegetative strata in the following manner:

**Herb** – A non-woody individual of a macrophytic species. Seedlings of woody plants (including vines) that are less than 3.28 feet in height are considered to be herbs.

**Sapling/Shrub** – A layer of vegetation composed of woody plants < 3.0 inches in diameter at breast height but greater than 3.28 feet in height, exclusive of woody vines.

**Tree** – A woody plant > 3.0 inches in diameter at breast height, regardless of height (exclusive of woody vines)

**Liana** – A layer of vegetation in forested plant communities that consist of woody vines greater than 3.28 feet in height.

As outlined in the manual, the quadrant sizes used for the vegetative strata were (i) a 3.28-foot radius for herbs; (ii) a ten-foot radius for saplings/shrubs and woody vines; and (iii) a 30-foot radius for trees. Dominant plant species were estimated using aerial coverage methods. Dominant species are defined in the Corps Manual as the most abundant plant species that when ranked in descending order of abundance and cumulatively totaled immediately exceed 50 percent of the total dominance measure for the stratum, plus any additional species comprising 20 percent or more of the total dominance measure.

The wetland indicator status (OBL, FACW, FAC, FACU, or UPL) listed for each identified species by the U.S. Fish and Wildlife Service in the National List of Plant Species that Occur in Wetlands: Northeast (Region 1) was recorded. The U.S. Fish and Wildlife wetland indicator status listings are defined as follows:

**OBL** – Plants that occur almost always (estimated probability >99 percent) in wetlands under natural conditions, but which may also occur rarely (estimated probability < 1 percent) in nonwetlands.

**FACW** – Plants that occur usually (estimated probability >67 percent to 99 percent) in wetlands, but also occur (estimated probability 1 percent to 33 percent) in nonwetlands.

FAC – Plants with a similar likelihood (estimated probability 33 percent to 67 percent) of occurring in both wetlands and nonwetlands.

FACU – Plants that occur sometimes (estimated probability 1 percent to <33 percent) in wetlands but occur more often (estimated probability >67 percent to 99 percent) in nonwetlands.

UPL – Plants that occur rarely (estimated probability < 1 percent) in wetlands but occur almost always (estimated probability >99 percent) in nonwetlands under natural conditions.

The plant community data was summarized on the data forms provided in the Northcentral and Northeast Regional Supplement included in this report as Appendix B.

### Step 6

Plant data from each observation point were tested against the hydrophytic vegetation criterion specified in the Corps Manual and Northcentral and Northeast Regional Supplement. The Northcentral and Northeast Regional Supplement identifies a four-tiered approach for making a determination of whether or not the hydrophytic vegetation criteria is met for a sample plot. Indicator 1 (Rapid Test for Hydrophytic Vegetation) was first applied to determine if all dominant species across all strata are rated OBL and/or FACW. If Indicator 1 did not meet the hydrophytic vegetation criteria, Indicator 2 was then applied (dominance test); if greater than 50% of all plant species across all strata were rated OBL, FACW, or FAC, the hydrophytic vegetation criteria was considered met. In rare cases, when Indicators 1 and 2 did not meet the hydrophytic vegetation criteria but soils and hydrology criteria were met, Indicators 3 (Prevalence Index) and 4 (Morphological Adaptations) were used to make a final determination. All observation points that met the hydrophytic vegetation criterion were considered potential wetlands. Soils were then characterized.

### Step 7

The Corps Manual specifies that soils need not be characterized (and are assumed hydric soils) at sampling points meeting the hydrophytic vegetation criterion if: (i) all dominant plant species have an indicator status of OBL, or (ii) all dominant species have an indicator status of OBL and/or FACW, and the wetland boundary is abrupt (at least one dominant OBL species must be present). All observation points sampled during this field investigation were examined directly for soil and hydrologic characteristics.

### Step 8

At observation points requiring a soil evaluation, soil borings were performed by an EDI Soil Scientist using methods specified in the Northcentral and Northeast Regional Supplement. Soil pits were dug using a tile spade. Testpits were generally dug to a depth of 20 inches below ground surface. Soils were examined for any of the hydric soil indicators, as outlined in the Field Indicators of Hydric Soils in the United States. A determination was made as to whether or not the hydric soil criterion was met. Soils data was recorded on the data forms included in Appendix B of this report.

### Step 9

EDI's Soil Scientist examined hydrologic indicators using methods specified by the Northcentral and Northeast Regional Supplement at each observation point. The wetland hydrology criterion was met if: (i) one or more primary field indicators was materially present, (ii) available hydrologic records provided necessary evidence, or (iii) two or more secondary indicators were present. Results were recorded on data forms taken from the Corps Manual and are included in this report as Appendix B.

### Step 10

A wetland determination was made for every observation point. If a sample plot met the hydrophytic vegetation, hydric soil, and wetland hydrology criteria, the area was considered to be wetland.

### Step 11

Based on the results of the transected data, wetland boundaries were established for each identified wetland using survey ribbon labeled "wetland delineation" and numbered consecutively along each wetland boundary. As outlined in the Corps Manual, the placement of flags was based on the limits of areas where all three parameters were met. Wetland flags were labeled W1-1 through W1-12 and W2-1 through W2-25.

### **STREAMS & DRAINAGES:**

The federally regulated Ordinary High Water (OHW) mark of streams within the Project area were delineated utilizing the definitional criteria as presented in Title 33, Code of Federal Regulations, Part 328, and the USACE Regulatory Guidance Letter 05-05 – Guidance on Ordinary

High Water Mark Identification. Each stream is categorized in regard to its flow regime as perennial, intermittent, or ephemeral, as defined by the USACE. The Ordinary High Water (OHW) mark for each stream is surveyed using the Trimble Geo 7X GPS. Each stream is assigned a letter designation, and survey points are numbered consecutively. Substrate characteristics and water depth are noted. Streams classified as AA, A, B, C, C(t), C(ts) and D in the State of New York are regulated by NYSDEC under Article 15 Use and Protection of Waters. Streams are given classifications which designate the level of protection afforded to each waterbody. Class AA and A are assigned to sources of drinking water. Class B streams are best suited for swimming and other contact recreation, but not drinking water. Class C streams identify waters that support fishing and non-contact activities. A classification with (t) designated a stream with the potential to support trout populations. A classification of (ts) identifies waters that may support trout spawning. Class D waters are the lowest classification and are often highly imperiled.

## SECTION V: RESULTS AND CONCLUSIONS

Earth Dimensions, Inc. (EDI) has completed a wetland delineation study at the Baldwin Hill Apartments site located in the Town of Lysander and Village of Baldwinsville, County of Onondaga, and State of New York. A field investigation was conducted by a Soil Scientist and a Wetland Ecologist from EDI. The wetland delineation study identified two (2) wetlands totaling 0.52± acre and two (2) streams present within the Baldwin Hill Apartments site. No waterbodies were identified within the investigation area.

Figure 5 depicts the vegetative communities as they existed at the time of the investigation. The uplands within the investigation area consisted of developed land, successional shrubland, successional northern hardwood, and successional fill pad communities. The wetland areas were found to consist of shallow emergent marsh and hardwood swamp communities. The vegetative communities of the investigation area are described according to Ecological Communities of New York State (Edinger et al. 2014).

The successional shrubland community is present in the northwest corner of the investigation area. The community was dominated by the following species: quaking aspen (*Populus tremuloides*), Russian olive (*Elaeagnus angustifolia*), Canada bluegrass (*Poa compressa*), Canada goldenrod (*Solidago canadensis*) and summer grape (*Vitis aestivalis*).

The successional northern hardwood community dominates the undeveloped upland portions of the site. The community was dominated by the following species: sugar maple (*Acer saccharum*), black cherry (*Prunus serotina*), white ash (*Fraxinus americana*), pignut hickory (*Carya glabra*), paper birch (*Betula papyrifera*), tuliptree (*Liriodendron tulipifera*), boxelder (*Acer negundo*), pin cherry (*Prunus pensylvanica*), hophornbeam (*Ostrya virginiana*), red maple (*Acer rubrum*), northern red oak (*Quercus rubra*), American beech (*Fagus grandifolia*), multiflora rose (*Rosa multiflora*), Alleghany blackberry (*Rubus alleghaniensis*), garlic mustard (*Alliaria petiolata*), Canada bluegrass (*Poa compressa*), Christmas fern (*Polystichum acrostichoides*), Canada goldenrod (*Solidago canadensis*), poison ivy (*Toxicodendron radicans*) and summer grape (*Vitis aestivalis*).

The successional fill pad community is present in the southern portion of the site and appears to have been present for many years. The community was dominated by the following species: spotted knapweed (*Centaurea stoebe*).

Wetland W1 is a 0.12± acre emergent marsh dominated by white ash (*Fraxinus americana*), European buckthorn (*Rhamnus cathartica*), Russian olive (*Elaeagnus angustifolia*), fowl bluegrass (*Poa palustris*) and calico aster (*Symphyotrichum lateriflorum*). Soils within wetland W1 are mapped as Madrid fine sandy loam and had a soil color of 7.5YR4/1 with 2% 7.5YR5/8 mottles. The texture is silt loam. This soil fits the NRCS F3 indicator (Depleted Matrix). Hydrology indicators present in Wetland W1 included high water table (A2), saturation (A3), inundation visible on aerial imagery (B7) and Water-Stained Leaves (B9). Wetland W1 originates from a spring and flows eastward.

Wetland W2 is a 0.40± acre hardwood swamp dominated by red maple (*Acer rubrum*), American elm (*Ulmus americana*), American hornbeam (*Carpinus caroliniana*), sensitive fern (*Onoclea sensibilis*), fowl bluegrass (*Poa palustris*), upright sedge (*Carex stricta*) and poison ivy (*Toxicodendron radicans*). Soils within wetland W2 are mapped as Lyons soils and had a topsoil color of 10YR3/1 with 3% 10YR5/8 mottles and a subsoil color of 10YR5/2 with 5% 10YR5/8 mottles. The texture is loam and fine sandy loam. This soil fits the NRCS F3 (Depleted Matrix) and F6 (Redox Dark Surface) indicators. Hydrology indicators present in Wetland W2 included surface water (A1), high water table (A2), saturation (A3), inundation visible on aerial imagery (B7) and Water-Stained Leaves (B9). Wetland W2 is a linear depressional wetland at the base of an old fill pile.

Stream 1 is located in the northwest portion of the site and enters the site for a very short distance. The stream originates from a culvert under Rte. 631 and flows southward off-site. This ephemeral channel is not a classified stream by NYSDEC standards. The substrate consists of silt and rocks, with moderately dense vegetation along the banks. Within the project area, Stream 1 is approximately 1 to 2 feet wide with an average water depth of 1 to 2 inches. EDI utilizes office and field observations to determine stream classifications. Stream 1 was identified as an ephemeral channel due to its limited size and flow, lack of scour present, and lack of representation on resource maps.

Stream 2 is located along the eastern limits of the site and originates from a hillside seep/spring. This intermittent channel is not a classified stream by NYSDEC standards. The substrate consists of silt, with limited woody vegetation along the banks. Within the project area, Stream 2 is

approximately 2 to 3 feet wide with an average water depth of 2 to 3 inches. EDI utilizes office and field observations to determine stream classifications. Stream 2 was identified as an intermittent channel due to its origination from a spring, limited size and flow and lack of scour present.

A map which depicts the site boundaries and the location of all observation points established during the field survey is included as Figure 6 in Appendix A of this report. Data forms are included as Appendix B. Appendix C includes representative photographs of the project area. Appendix D notes the references used during the preparation of this report and during the field investigation. Appendix E provides the names, addresses and phone numbers of the survey personnel involved in the wetland delineation study.

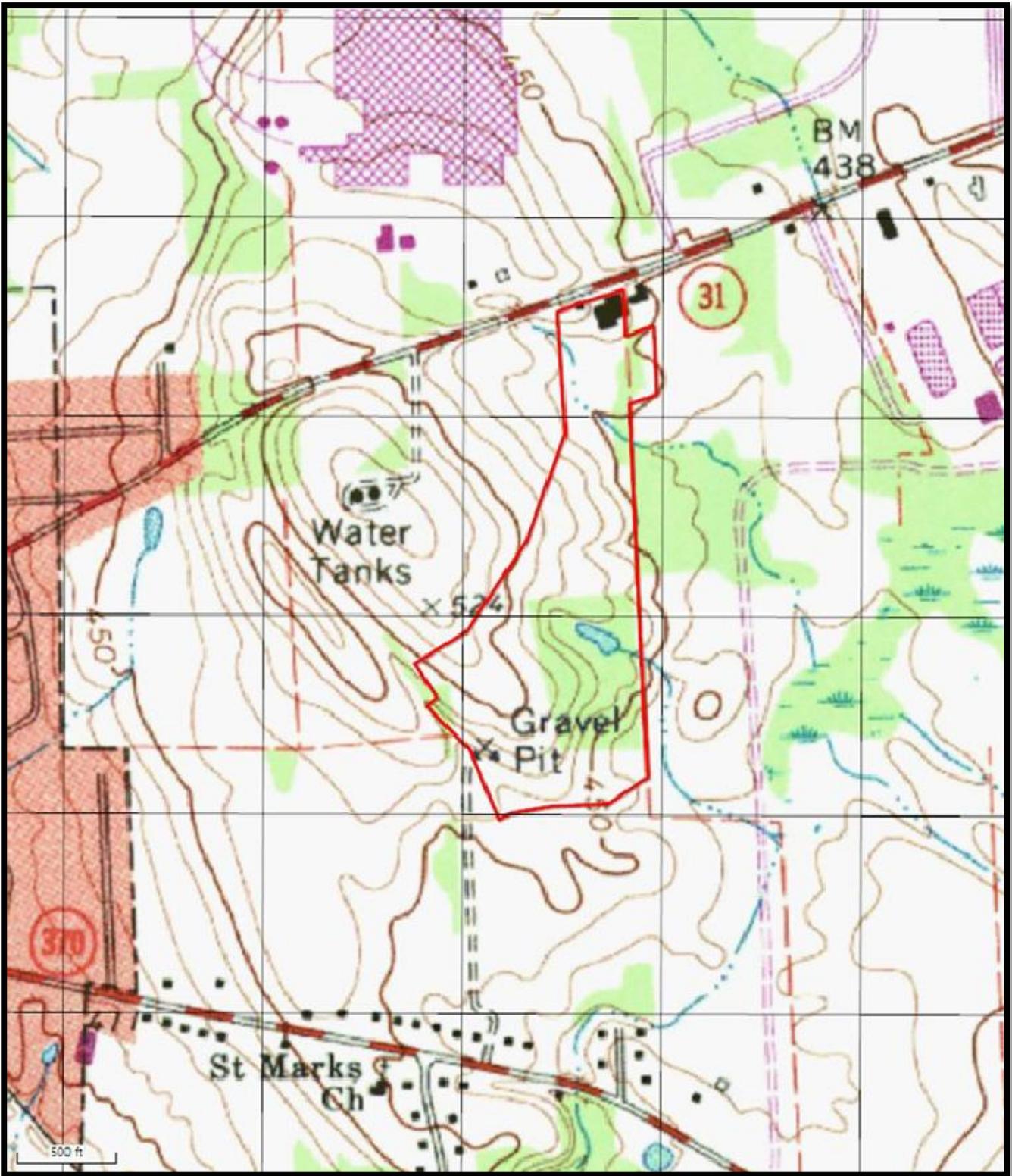
## SECTION VI: RECOMMENDATIONS

Two (2) wetland areas and two (2) streams were identified during the course of a field investigation based upon the three-parameter technique (vegetation, soils, and hydrology) outlined in the Corps Manual and Northcentral and Northeast Regional Supplement. EPA provided preliminary guidance on August 29, 2023 in response to the May 25, 2023, the U.S. Supreme Court ruling in the Sackett v EPA case. USACE and NYSDEC approach their regulatory analyses by first considering avoidance of wetlands and minimization of wetland losses. EDI recommends the following:

- (1) Submit this report to USACE and NYSDEC with a request for a wetland boundary confirmation and jurisdictional determination.
- (2) If no impacts are proposed to federal or state regulated wetlands or state regulated 100-foot adjacent area based on the outcome of the jurisdictional determination, it is the professional opinion of EDI that the project may proceed without the need for Section 404 or Article 24 Permits.
- (3) If any NYSDEC regulated upland adjacent area or federal or state jurisdictional wetland impacts are proposed, it is EDI's recommendation that a Joint Application for Permit and supporting documentation be submitted to the USACE and NYSDEC with a request for a Section 404 Permit, Section 401 Water Quality Certification and/or an Article 24 Permit.

# **BALDWIN HILL SECTION 4 & BALDWIN HILL APARTMENTS**

APPENDIX A - FIGURES



**FIGURE 1: USGS 7.5 MINUTE TOPOGRAPHICAL MAP**

Baldwinsville Quadrangle / U.S. Geological Survey

Baldwin Hill Section 4 & Baldwin Hill Apartments

Town/Village of Lysander/Baldwinsville, Onondaga County, New York



**FIGURE 2: NATIONAL WETLANDS INVENTORY MAP**

<http://www.fws.gov/wetlands/data/mapper.HTML> (Visited 2/12/24)

Baldwin Hill Section 4 & Baldwin Hill Apartments

Town/Village of Lysander/Baldwinsville, Onondaga County, New York



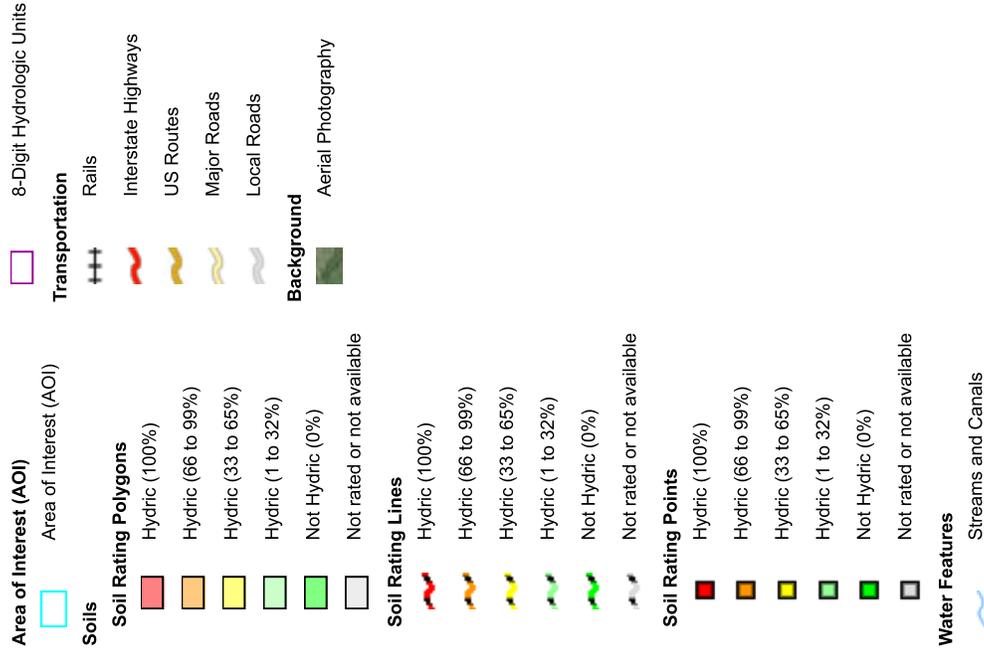
**FIGURE 3: NRCS SOIL SURVEY MAP**

<http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx> (Visited 2/12/24)

Baldwin Hill Section 4 & Baldwin Hill Apartments

Town/Village of Lysander/Baldwinsville, Onondaga County, New York

## MAP LEGEND



## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Onondaga County, New York  
 Survey Area Data: Version 18, Sep 5, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 3, 2021—Nov 7, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
AIB	Alton gravelly fine sandy loam, 3 to 8 percent slopes	0	1.6	4.2%
HIB	Hilton loam, 3 to 8 percent slopes	0	5.4	14.1%
KeA	Kendaia silt loam, 0 to 3 percent slopes	5	0.8	2.0%
LbC2	Lairdsville silty clay loam, 6 to 12 percent slopes, eroded	0	1.3	3.4%
Ly	Lyons soils, 0 to 3 percent slopes	95	2.4	6.2%
MdB	Madrid fine sandy loam, 2 to 8 percent slopes	0	6.3	16.5%
MdC	Madrid fine sandy loam, 8 to 15 percent slopes	0	19.1	50.0%
MdCK	Madrid fine sandy loam, rolling	0	1.2	3.2%
OpD	Ontario and Madrid soils, 15 to 25 percent slopes	0	0.2	0.4%
<b>Totals for Area of Interest</b>			<b>38.3</b>	<b>100.0%</b>



**FIGURE 4: NYSDEC ENVIRONMENTAL RESOURCE MAPPER**

<https://gisservices.dec.ny.gov/gis/erm/> (Visited 2/12/24)

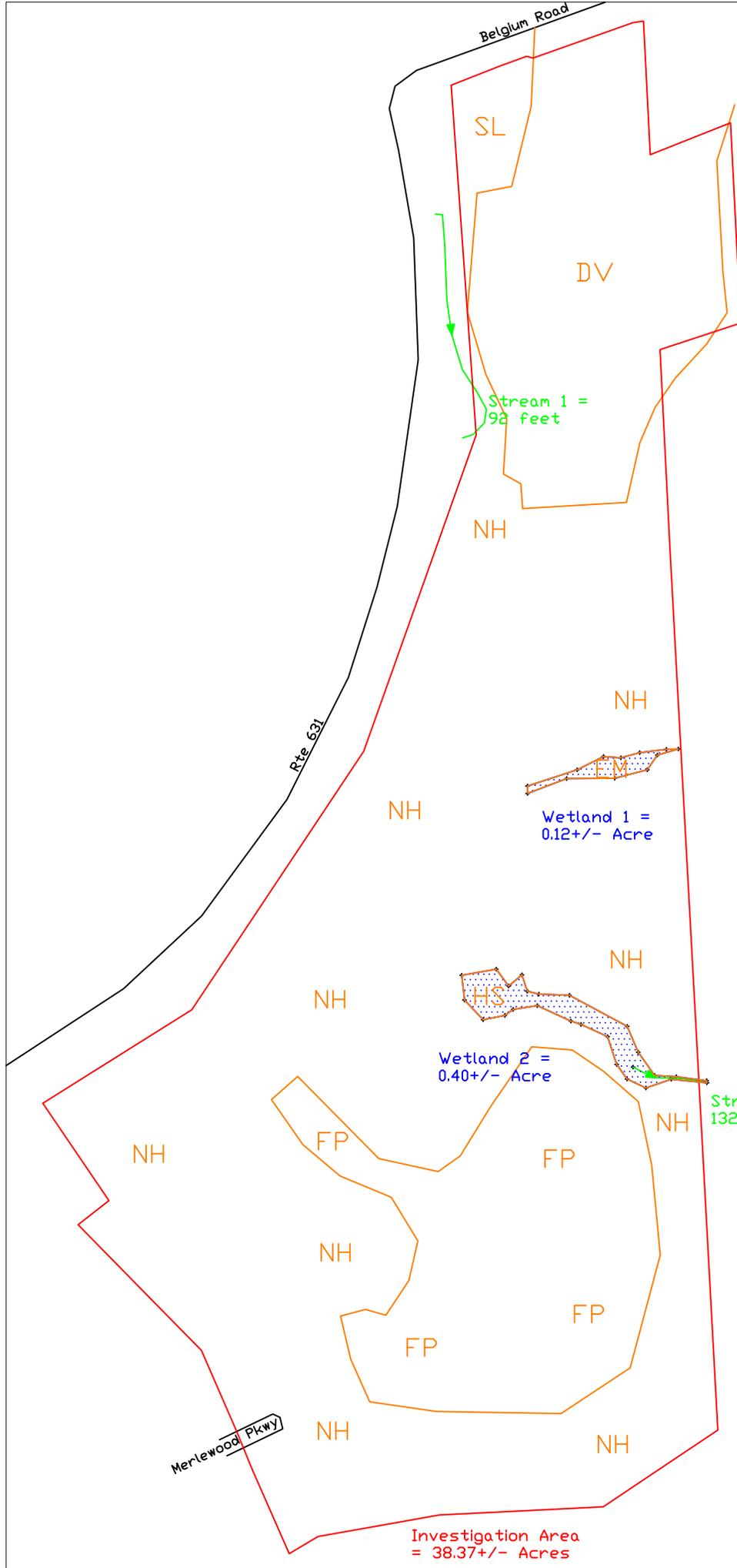
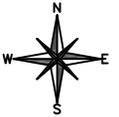
Baldwin Hill Section 4 & Baldwin Hill Apartments

Town/Village of Lysander/Baldwinsville, Onondaga County, New York

Figure 5 - General Vegetation Map

Town of Lysander

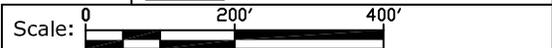
Onondaga County, New York



Baldwin Hill Apartments

LEGEND

	Limits of Investigation
	Community Boundary
	Wetland Area
	Developed
	Successional Shrubland
	Northern Hardwoods
	Fill Pad
	Hardwood Swamp
	Emergent Marsh



Map Date: February 12, 2024/ TJS for EDI  
Revised:

Base Map Provided By: Trimble Geo 7X

File Name: Delineation Map.dwg

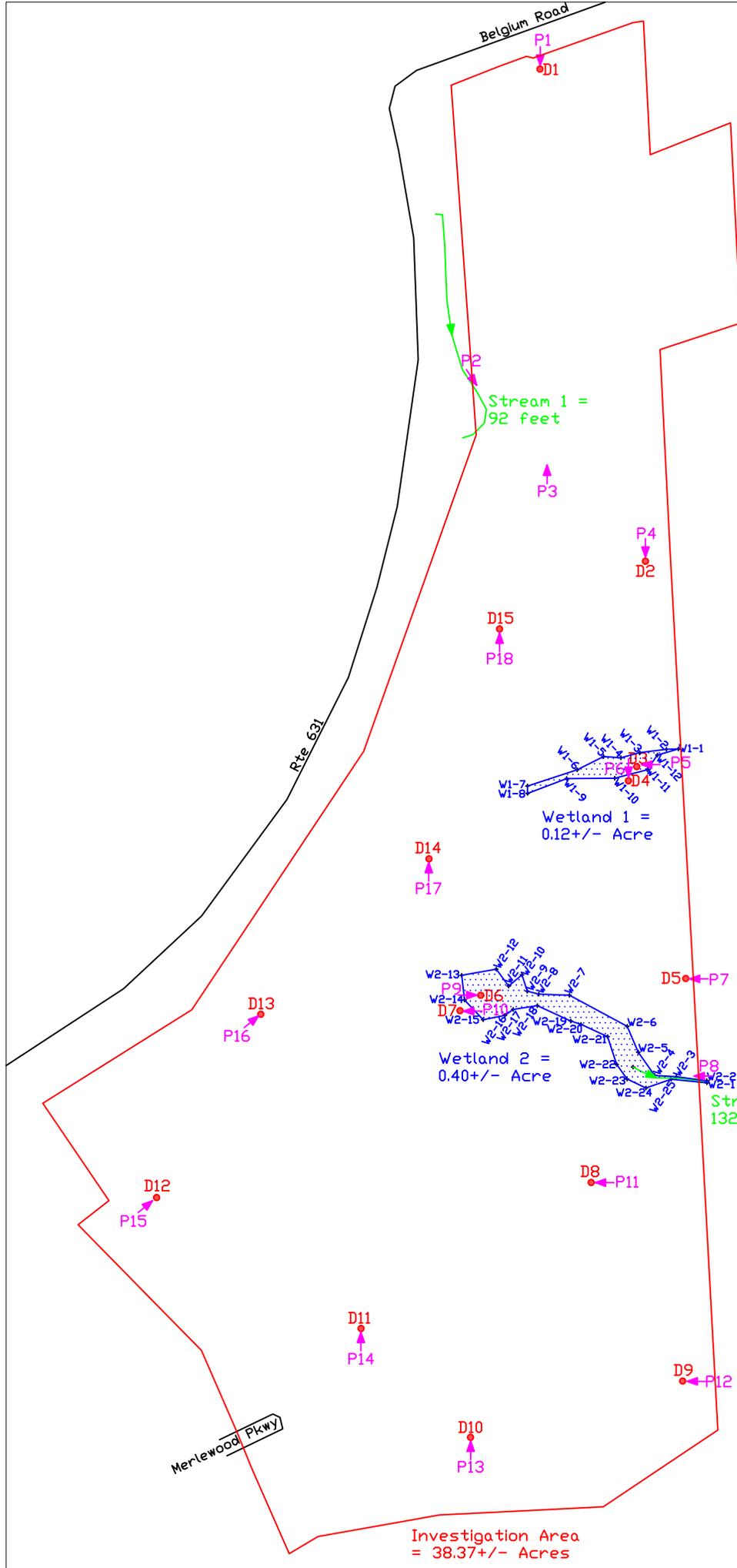
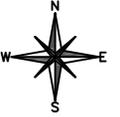
EDI Project Code: W8A24

Investigation Area = 38.37 +/- Acres

Figure 6 - Wetland Delineation Map

Town of Lysander

Onondaga County, New York

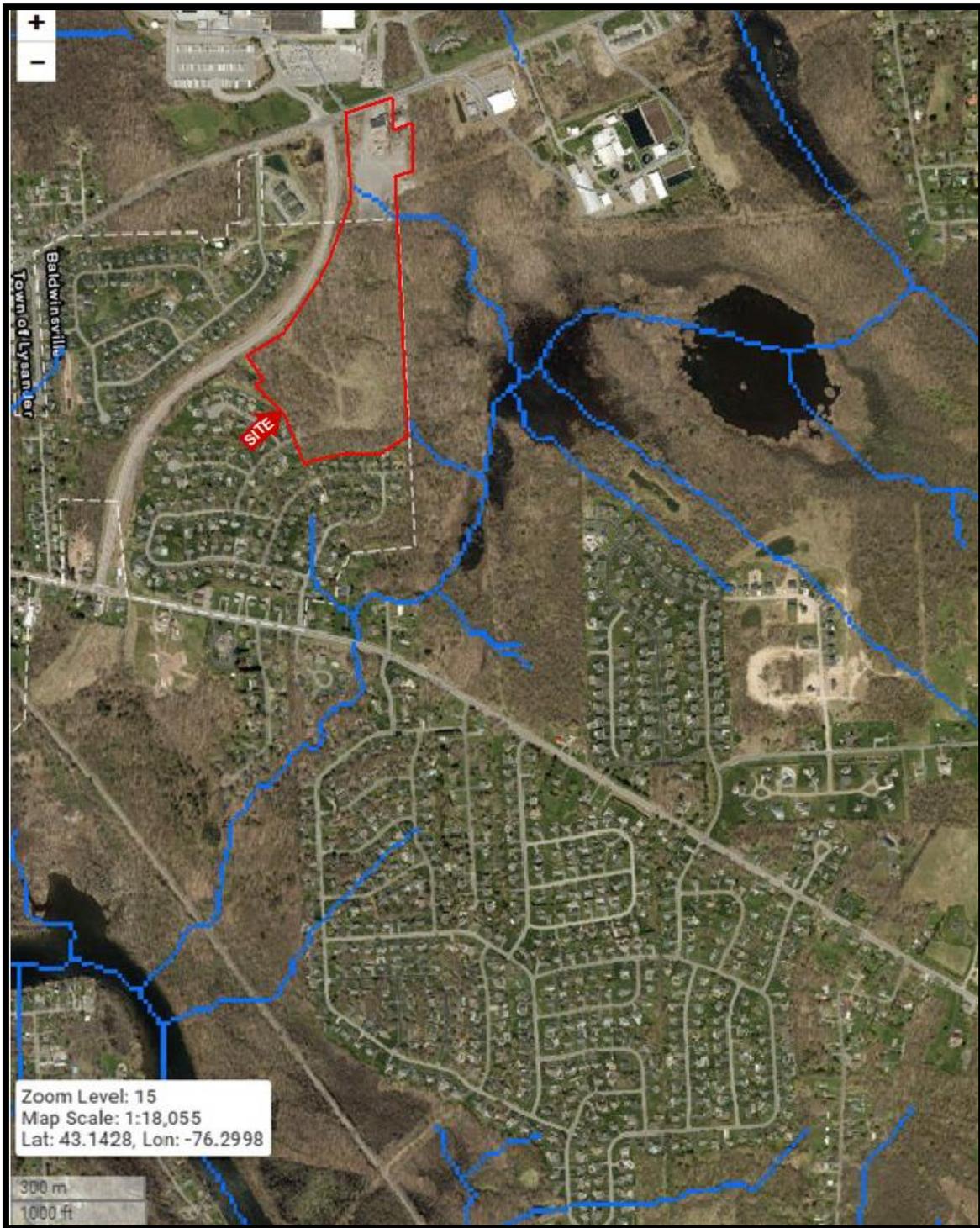


**Baldwin Hill Apartments  
LEGEND**

	Limits of Investigation
	Streams
	Wetland Boundary Flag
	Wetland Area
	Photo Location
	Data Point Location

Scale:
Map Date: February 12, 2024/ TJS for EDI Revised:
Base Map Provided By: Trimble Geo 7X
File Name: Delineation Map.dwg
EDI Project Code: W8A24

Investigation Area = 38.37 +/- Acres



**FIGURE 7: DRAINAGE MAP**

<https://streamstats.usgs.gov/ss/> (Visited 2/12/24)

Baldwin Hill Section 4 & Baldwin Hill Apartments

Town/Village of Lysander/Baldwinsville, Onondaga County, New York

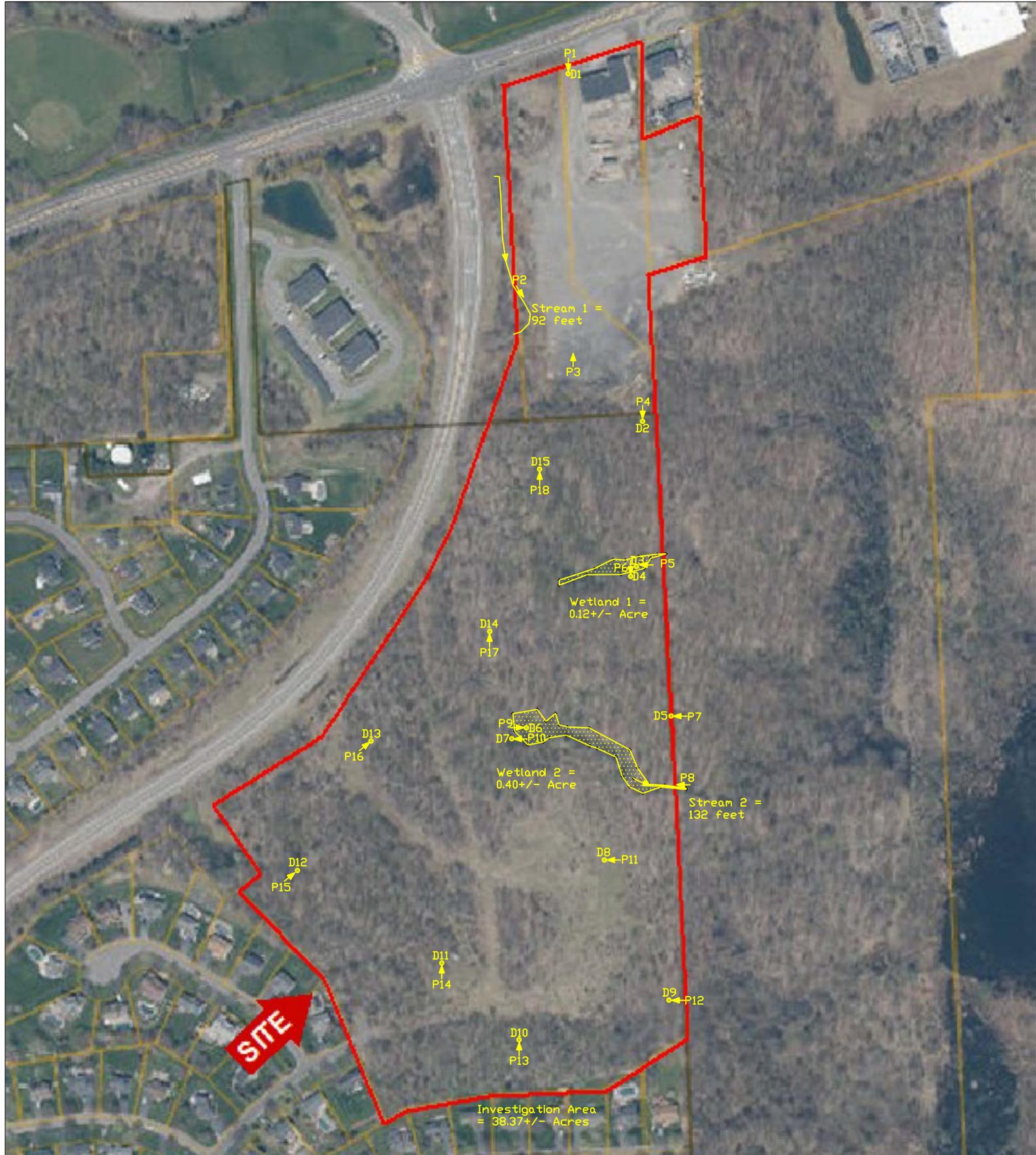


**FIGURE 8: SITE AERIAL PHOTOGRAPH**

<https://spatial.vhb.com/onondaga/> (Visited 2/12/24)

Baldwin Hill Section 4 & Baldwin Hill Apartments

Town/Village of Lysander/Baldwinsville, Onondaga County, New York



**Figure 9: Aerial Photo With Wetlands**

<https://spatial.vhb.com/onondaga/> (Visited 2/12/24)

Baldwin Hill Apartments

Town/Village of Lysander/Baldwinsville, Onondaga County, New York

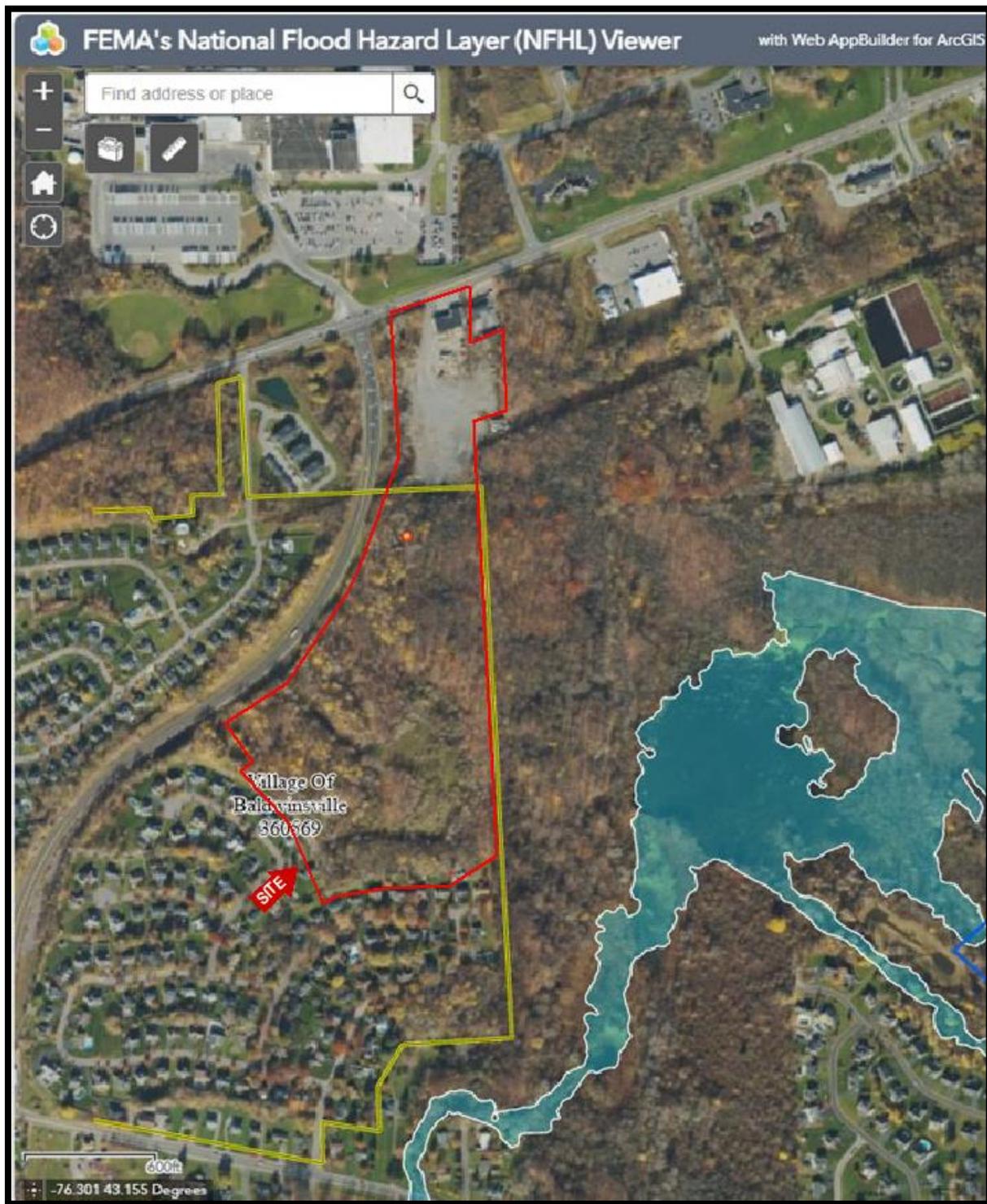


**Figure 10: Soils Map With Wetlands**

<http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx> (Visited 2/12/24)

Baldwin Hill Apartments

Town/Village of Lysander/Baldwinsville, Onondaga County, New York



**FIGURE 11: FEMA MAP**

<https://www.fema.gov/flood-maps> (Visited 2/12/24)

Baldwin Hill Section 4 & Baldwin Hill Apartments

Town/Village of Lysander/Baldwinsville, Onondaga County, New York

# **BALDWIN HILL SECTION 4 & BALDWIN HILL APARTMENTS**

APPENDIX B – DATA SHEETS

**WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**

Project/Site: Baldwin Hill Section 4 & Apartments Town/County: Baldwinsville/Onondaga County Sampling Date: February 6, 2024

Applicant/Owner: CHA State: New York Sampling Point: D1

Investigator(s): Scott Livingstone & Tom Somerville Section, Township, Range: various

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): CONVEX Slope (%): 30

Subregion (LRR or MLRA) LRRL Lat: 43.16565°N Long: -76.30920°W Datum: NAD83

Soil Map Unit Name: MADRID FINE SANDY LOAM 8-15% NW I classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: <u>N/A</u>	
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Remarks: (Explain alternative procedures here or in a separate report.)

• UPLAND SCROB/SHROB COMMUNITY  
• OLD FILL PILE

**HYDROLOGY**

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil Cracks (B6)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Microtopographic Relief (D4)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b>		Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>N/A</u>	
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>N/A</u>	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>N/A</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION : Use scientific names of plants.

Sampling Point: DI

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

\_\_\_\_\_ = Total Cover

Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Populus tremuloides</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>
2. <u>Alnus angustifolia</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>
3. <u>Pyrus communis</u>	<u>15</u>	<u>N</u>	<u>FACU</u>
4. <u>Pinus sylvestris</u>	<u>5</u>	<u>N</u>	<u>NI</u>
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

80 = Total Cover

Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Poa compressa</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>
2. <u>Solidago canadensis</u>	<u>5</u>	<u>Y</u>	<u>FACU</u>
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

25 = Total Cover

Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Vitis aestivalis</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

10 = Total Cover

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>-</u>	x 1 = <u>-</u>
FACW species <u>-</u>	x 2 = <u>-</u>
FAC species <u>-</u>	x 3 = <u>-</u>
FACU species <u>110</u>	x 4 = <u>440</u>
UPL species <u>-</u>	x 5 = <u>-</u>
Column Totals: <u>110</u> (A)	<u>440</u> (B)

Prevalence Index = B/A = 4.0

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
  - 2 - Dominance Test is >50%
  - 3 - Prevalence Index is < 3.0<sup>1</sup>
  - 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

**Herb** - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vines** - All woody vines greater than 3.28 ft in height.

Community Type: Successional shrubland

Hydrophytic Vegetation Present? Yes  No

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # 91 Direction of Photo South

- Adjacent to highway & buildings



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Baldwin Hill Section 4 & Apartments Town/County: Baldwinsville/Onondaga County Sampling Date: February 6, 2024

Applicant/Owner: CHA State: New York Sampling Point: D2

Investigator(s): Scott Livingstone & Tom Somerville Section, Township, Range: various

Landform (hillslope, terrace, etc.): Hill Slope Local relief (concave, convex, none): CONVEX Slope (%): 20

Subregion (LRR or MLRA) LRRL Lat: 43.16322°N Long: -76.30755°W Datum: NAD83

Soil Map Unit Name: LAIRDSVILLE SILTY CLAY LOAM, 6-12% NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)

Are Vegetation     , Soil     , or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes X No     

Are Vegetation     , Soil     , or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <u>    </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>    </u> No <u>X</u>
Hydric Soil Present?	Yes <u>    </u> No <u>X</u>	If yes, optional Wetland Site ID:	<u>N/A</u>
Wetland Hydrology Present?	Yes <u>    </u> No <u>X</u>		

Remarks: (Explain alternative procedures here or in a separate report.)

UPLAND WOODS

**HYDROLOGY**

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		<u>    </u> Surface Soil Cracks (B6)
<u>    </u> Surface Water (A1)	<u>    </u> Water-Stained Leaves (B9)	<u>    </u> Drainage Patterns (B10)
<u>    </u> High Water Table (A2)	<u>    </u> Aquatic Fauna (B13)	<u>    </u> Moss Trim Lines (B16)
<u>    </u> Saturation (A3)	<u>    </u> Marl Deposits (B15)	<u>    </u> Dry-Season Water Table (C2)
<u>    </u> Water Marks (B1)	<u>    </u> Hydrogen Sulfide Odor (C1)	<u>    </u> Crayfish Burrows (C8)
<u>    </u> Sediment Deposits (B2)	<u>    </u> Oxidized Rhizospheres on Living Roots (C3)	<u>    </u> Saturation Visible on Aerial Imagery (C9)
<u>    </u> Drift Deposits (B3)	<u>    </u> Presence of Reduced Iron (C4)	<u>    </u> Stunted or Stressed Plants (D1)
<u>    </u> Algal Mat or Crust (B4)	<u>    </u> Recent Iron Reduction in Tilled Soils (C6)	<u>    </u> Geomorphic Position (D2)
<u>    </u> Iron Deposits (B5)	<u>    </u> Thin Muck Surface (C7)	<u>    </u> Shallow Aquitard (D3)
<u>    </u> Inundation Visible on Aerial Imagery (B7)	<u>    </u> Other (Explain in Remarks)	<u>    </u> Microtopographic Relief (D4)
<u>    </u> Sparsely Vegetated Concave Surface (B8)		<u>    </u> FAC-Neutral Test (D5)

<b>Field Observations:</b>		Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>
Surface Water Present?	Yes <u>    </u> No <u>X</u> Depth (inches): <u>N/A</u>	
Water Table Present?	Yes <u>    </u> No <u>X</u> Depth (inches): <u>N/A</u>	
Saturation Present? (includes capillary fringe)	Yes <u>    </u> No <u>X</u> Depth (inches): <u>N/A</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION : Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:																
1. <u>Acer saccharum</u>	<u>40</u>	<u>Y</u>	<u>FACU</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)																
2. <u>Fraxinus americana</u>	<u>25</u>	<u>Y</u>	<u>FACU</u>	Total Number of Dominant Species Across All Strata: <u>5</u> (B)																
3. <u>Acer rubrum</u>	<u>15</u>	<u>N</u>	<u>FAC</u>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>20%</u> (A/B)																
4. <u>Pinus pensylvanica</u>	<u>5</u>	<u>N</u>	<u>FACU</u>																	
5. _____																				
6. _____																				
7. _____																				
<u>85</u> = Total Cover				<b>Prevalence Index worksheet:</b>																
Sapling/Shrub Stratum (Plot size: <u>15'</u> )				<table style="width:100%; border: none;"> <tr> <td style="width:50%;">Total % Cover of:</td> <td style="width:50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>-</u></td> <td>x 1 = <u>-</u></td> </tr> <tr> <td>FACW species <u>-</u></td> <td>x 2 = <u>-</u></td> </tr> <tr> <td>FAC species <u>23</u></td> <td>x 3 = <u>69</u></td> </tr> <tr> <td>FACU species <u>112</u></td> <td>x 4 = <u>448</u></td> </tr> <tr> <td>UPL species <u>-</u></td> <td>x 5 = <u>-</u></td> </tr> <tr> <td>Column Totals: <u>135</u> (A)</td> <td><u>517</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.83</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>-</u>	x 1 = <u>-</u>	FACW species <u>-</u>	x 2 = <u>-</u>	FAC species <u>23</u>	x 3 = <u>69</u>	FACU species <u>112</u>	x 4 = <u>448</u>	UPL species <u>-</u>	x 5 = <u>-</u>	Column Totals: <u>135</u> (A)	<u>517</u> (B)	Prevalence Index = B/A = <u>3.83</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>-</u>	x 1 = <u>-</u>																			
FACW species <u>-</u>	x 2 = <u>-</u>																			
FAC species <u>23</u>	x 3 = <u>69</u>																			
FACU species <u>112</u>	x 4 = <u>448</u>																			
UPL species <u>-</u>	x 5 = <u>-</u>																			
Column Totals: <u>135</u> (A)	<u>517</u> (B)																			
Prevalence Index = B/A = <u>3.83</u>																				
1. <u>Fraxinus americana</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>																	
2. <u>Acer rubrum</u>	<u>8</u>	<u>Y</u>	<u>FAC</u>																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
<u>38</u> = Total Cover				<b>Hydrophytic Vegetation Indicators:</b>																
Herb Stratum (Plot size: <u>5'</u> )				<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is < 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)																
1. <u>N/A</u>				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
_____ = Total Cover				<b>Definitions of Vegetation Strata:</b>																
Woody Vine Stratum (Plot size: <u>30'</u> )				<b>Tree</b> - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. <b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> - All woody vines greater than 3.28 ft in height.																
1. <u>Vitis gestivalis</u>	<u>12</u>	<u>Y</u>	<u>FACU</u>	Community Type: <u>Successional Northern Hardwoods</u>																
2. _____				Hydrophytic Vegetation Present? Yes <u>  </u> No <u>X</u>																
3. _____																				
4. _____																				
<u>12</u> = Total Cover																				

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # P4 Direction of Photo South



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Baldwin Hill Section 4 & Apartments Town/County: Baldwinsville/Onondaga County Sampling Date: February 6, 2024

Applicant/Owner: CHA State: New York Sampling Point: D3

Investigator(s): Scott Livingstone & Tom Somerville Section, Township, Range: various

Landform (hillslope, terrace, etc.): DEPRESSION Local relief (concave, convex, none): CONCAVE Slope (%): 5

Subregion (LRR or MLRA) LRRL Lat: 43.16230°N Long: -76.30760°W Datum: NAD83

Soil Map Unit Name: MADRID FINE SANDY LOAM, 8-15% NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)

Are Vegetation     , Soil     , or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes X No     

Are Vegetation     , Soil     , or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>    </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>    </u>
Hydric Soil Present?	Yes <u>X</u> No <u>    </u>	If yes, optional Wetland Site ID:	<u>W1</u>
Wetland Hydrology Present?	Yes <u>X</u> No <u>    </u>		

Remarks: (Explain alternative procedures here or in a separate report.)

• W1-1 → W1-12 (CLOSED)

• ORIGINATES FROM SPRING ON WEST EDGE;

• FLOWS UNDERGROUND AT EAST EDGE

**HYDROLOGY**

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		<u>    </u> Surface Soil Cracks (B6)
<u>    </u> Surface Water (A1)	<u>X</u> Water-Stained Leaves (B9)	<u>    </u> Drainage Patterns (B10)
<u>X</u> High Water Table (A2)	<u>    </u> Aquatic Fauna (B13)	<u>    </u> Moss Trim Lines (B16)
<u>X</u> Saturation (A3)	<u>    </u> Marl Deposits (B15)	<u>    </u> Dry-Season Water Table (C2)
<u>    </u> Water Marks (B1)	<u>    </u> Hydrogen Sulfide Odor (C1)	<u>    </u> Crayfish Burrows (C8)
<u>    </u> Sediment Deposits (B2)	<u>    </u> Oxidized Rhizospheres on Living Roots (C3)	<u>    </u> Saturation Visible on Aerial Imagery (C9)
<u>    </u> Drift Deposits (B3)	<u>    </u> Presence of Reduced Iron (C4)	<u>    </u> Stunted or Stressed Plants (D1)
<u>    </u> Algal Mat or Crust (B4)	<u>    </u> Recent Iron Reduction in Tilled Soils (C6)	<u>    </u> Geomorphic Position (D2)
<u>    </u> Iron Deposits (B5)	<u>    </u> Thin Muck Surface (C7)	<u>    </u> Shallow Aquitard (D3)
<u>X</u> Inundation Visible on Aerial Imagery (B7)	<u>    </u> Other (Explain in Remarks)	<u>    </u> Microtopographic Relief (D4)
<u>    </u> Sparsely Vegetated Concave Surface (B8)		<u>    </u> FAC-Neutral Test (D5)

<b>Field Observations:</b>		Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>
Surface Water Present?	Yes <u>    </u> No <u>X</u> Depth (inches): <u>N/A</u>	
Water Table Present?	Yes <u>X</u> No <u>    </u> Depth (inches): <u>SURFACE</u>	
Saturation Present? (includes capillary fringe)	Yes <u>X</u> No <u>    </u> Depth (inches): <u>SURFACE</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION : Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Fraxinus americana</u>	<u>15</u>	<u>Y</u>	<u>FACW</u>	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
<u>15</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Rhamnus cathartica</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Elaeagnus angustifolia</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
<u>15</u> = Total Cover				
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Poa palustris</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Symphoricarpos lateriflorum</u>	<u>18</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Solidago gigantea</u>	<u>9</u>	<u>N</u>	<u>FACW</u>	
4. <u>Oenothera sensibilis</u>	<u>6</u>	<u>N</u>	<u>FACW</u>	
5. <u>Solidago rigida</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
<u>87</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				
2. _____				
3. _____				
4. _____				
_____ = Total Cover				

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)  
 Total Number of Dominant Species Across All Strata: 5 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 60% (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: \_\_\_\_\_ Multiply by: \_\_\_\_\_  
 OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_  
 FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_  
 FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_  
 FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_  
 UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_  
 Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)  
 Prevalence Index = B/A = \_\_\_\_\_

**Hydrophytic Vegetation Indicators:**  
 \_\_\_\_\_ 1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 \_\_\_\_\_ 3 - Prevalence Index is < 3.0<sup>1</sup>  
 \_\_\_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**  
**Tree** - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  
**Sapling/shrub** - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  
**Herb** - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  
**Woody vines** - All woody vines greater than 3.28 ft in height.

**Community Type:** Emergent Marsh  
PEM1B  
 Hydrophytic Vegetation Present? Yes  No \_\_\_\_\_

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # P5 Direction of Photo West

- emergent community w/ wood lot

Wetland w2



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Baldwin Hill Section 4 & Apartments Town/County: Baldwinsville/Onondaga County Sampling Date: February 6, 2024

Applicant/Owner: CHA State: New York Sampling Point: D4

Investigator(s): Scott Livingstone & Tom Somerville Section, Township, Range: various

Landform (hillslope, terrace, etc.): Hill Slope Local relief (concave, convex, none): CONVEX Slope (%): 15

Subregion (LRR or MLRA) LRRL Lat: 43.16217°N Long: -76.30761°W Datum: NAD83

Soil Map Unit Name: MADRID FINE SANDY LOAM, 8-15% NW I classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)

Are Vegetation     , Soil     , or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes X No     

Are Vegetation     , Soil     , or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes X No       
 Hydric Soil Present? Yes X No       
 Wetland Hydrology Present? Yes X No     

Is the Sampled Area within a Wetland? Yes      No X  
 If yes, optional Wetland Site ID: N/A

Remarks: (Explain alternative procedures here or in a separate report.)

UPLAND WOODS

**HYDROLOGY**

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)

**Field Observations:**  
 Surface Water Present? Yes      No X Depth (inches): N/A  
 Water Table Present? Yes      No X Depth (inches): N/A  
 Saturation Present? (includes capillary fringe) Yes      No X Depth (inches): N/A

Wetland Hydrology Present? Yes      No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION : Use scientific names of plants.

Sampling Point: D4

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Fraxinus americana</u>	<u>50</u>	<u>Y</u>	<u>FACU</u>
2. <u>Quercus rubra</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>
3. <u>Acer saccharum</u>	<u>10</u>	<u>N</u>	<u>FACU</u>
4. _____			
5. _____			
6. _____			
7. _____			

90 = Total Cover

Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Acer saccharum</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>
2. <u>Fraxinus americana</u>	<u>9</u>	<u>Y</u>	<u>FACU</u>
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			

24 = Total Cover

Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Alliaria petiolata</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			

15 = Total Cover

Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			

\_\_\_\_\_ = Total Cover

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>-</u>	x 1 = <u>-</u>
FACW species <u>-</u>	x 2 = <u>-</u>
FAC species <u>-</u>	x 3 = <u>-</u>
FACU species <u>129</u>	x 4 = <u>516</u>
UPL species <u>-</u>	x 5 = <u>-</u>
Column Totals: <u>129</u> (A)	<u>516</u> (B)

Prevalence Index = B/A = 4.0

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
  - 2 - Dominance Test is >50%
  - 3 - Prevalence Index is < 3.0<sup>1</sup>
  - 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

**Herb** - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vines** - All woody vines greater than 3.28 ft in height.

Community Type: Successional Northern Hardwoods

Hydrophytic Vegetation Present? Yes  No

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # 96 Direction of Photo South



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Baldwin Hill Section 4 & Apartments Town/County: Baldwinsville/Onondaga County Sampling Date: February 6, 2024

Applicant/Owner: CHA State: New York Sampling Point: D5

Investigator(s): Scott Livingstone & Tom Somerville Section, Township, Range: various

Landform (hillslope, terrace, etc.): Hill slope Local relief (concave, convex, none): CONVEX Slope (%): 7

Subregion (LRR or MLRA) LRRL Lat: 43.16128°N Long: -76.30730°W Datum: NAD83

Soil Map Unit Name: MADRID FINE SANDY LOAM 8-15 NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)

Are Vegetation     , Soil     , or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes X No     

Are Vegetation     , Soil     , or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <u>    </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>    </u> No <u>X</u>
Hydric Soil Present?	Yes <u>    </u> No <u>X</u>	If yes, optional Wetland Site ID:	<u>N/A</u>
Wetland Hydrology Present?	Yes <u>    </u> No <u>X</u>		

Remarks: (Explain alternative procedures here or in a separate report.)

UPLAND WOODS

**HYDROLOGY**

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		<u>    </u> Surface Soil Cracks (B6)
<u>    </u> Surface Water (A1)	<u>    </u> Water-Stained Leaves (B9)	<u>    </u> Drainage Patterns (B10)
<u>    </u> High Water Table (A2)	<u>    </u> Aquatic Fauna (B13)	<u>    </u> Moss Trim Lines (B16)
<u>    </u> Saturation (A3)	<u>    </u> Marl Deposits (B15)	<u>    </u> Dry-Season Water Table (C2)
<u>    </u> Water Marks (B1)	<u>    </u> Hydrogen Sulfide Odor (C1)	<u>    </u> Crayfish Burrows (C8)
<u>    </u> Sediment Deposits (B2)	<u>    </u> Oxidized Rhizospheres on Living Roots (C3)	<u>    </u> Saturation Visible on Aerial Imagery (C9)
<u>    </u> Drift Deposits (B3)	<u>    </u> Presence of Reduced Iron (C4)	<u>    </u> Stunted or Stressed Plants (D1)
<u>    </u> Algal Mat or Crust (B4)	<u>    </u> Recent Iron Reduction in Tilled Soils (C6)	<u>    </u> Geomorphic Position (D2)
<u>    </u> Iron Deposits (B5)	<u>    </u> Thin Muck Surface (C7)	<u>    </u> Shallow Aquitard (D3)
<u>    </u> Inundation Visible on Aerial Imagery (B7)	<u>    </u> Other (Explain in Remarks)	<u>    </u> Microtopographic Relief (D4)
<u>    </u> Sparsely Vegetated Concave Surface (B8)		<u>    </u> FAC-Neutral Test (D5)

<b>Field Observations:</b>		Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>
Surface Water Present?	Yes <u>    </u> No <u>X</u> Depth (inches): <u>N/A</u>	
Water Table Present?	Yes <u>    </u> No <u>X</u> Depth (inches): <u>N/A</u>	
Saturation Present? (includes capillary fringe)	Yes <u>    </u> No <u>X</u> Depth (inches): <u>N/A</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION : Use scientific names of plants.

Sampling Point: D5

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Acer saccharum</u>	<u>60</u>	<u>Y</u>	<u>FACU</u>
2. <u>Quercus cbra</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			

90 = Total Cover

Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Fagus grandifolia</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>
2. <u>Acer saccharum</u>	<u>12</u>	<u>Y</u>	<u>FACU</u>
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			

27 = Total Cover

Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Allicaria petiolata</u>	<u>11</u>	<u>Y</u>	<u>FACU</u>
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			

11 = Total Cover

Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			

\_\_\_\_\_ = Total Cover

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>-</u>	x 1 = <u>-</u>
FACW species <u>-</u>	x 2 = <u>-</u>
FAC species <u>-</u>	x 3 = <u>-</u>
FACU species <u>128</u>	x 4 = <u>512</u>
UPL species <u>-</u>	x 5 = <u>-</u>
Column Totals: <u>128</u> (A)	<u>512</u> (B)

Prevalence Index = B/A = 4.0

**Hydrophytic Vegetation Indicators:**

- 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- 3 - Prevalence Index is < 3.0<sup>1</sup>
- 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

**Herb** - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vines** - All woody vines greater than 3.28 ft in height.

Community Type: Successional Northern Hardwoods

Hydrophytic Vegetation Present? Yes  No

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # P7 Direction of Photo West

SOIL

Sampling Point: 05

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	10YR 4/2	100					gr sil	
10-20	10YR 5/6	100					gr sil	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

- Hydric Soil Indicators:**
- Histosol (A1)
  - Histic Epipedon (A2)
  - Black Histic (A3)
  - Hydrogen Sulfide (A4)
  - Stratified Layers (A5)
  - Depleted Below Dark Surface (A11)
  - Thick Dark Surface (A12)
  - Sandy Mucky Mineral (S1)
  - Sandy Gleyed Matrix (S4)
  - Sandy Redox (S5)
  - Stripped Matrix (S6)
  - Dark Surface (S7) (LRR R, MLRA 149B)
  - Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
  - Thin Dark Surface (S9) (LRR R, MLRA 149B)
  - Loamy Mucky Mineral (F1) (LRR K, L)
  - Loamy Gleyed Matrix (F2)
  - Depleted Matrix (F3)
  - Redox Dark Surface (F6)
  - Depleted Dark Surface (F7)
  - Redox Depressions (F8)
  - 2 cm Muck (A10) (LRR K, L, MLRA 149B)
  - Coast Prairie Redox (A16) (LRR K, L, R)
  - 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
  - Dark Surface (S7) (LRR K, L, M)
  - Polyvalue Below Surface (S8) (LRR K, L)
  - Thin Dark Surface (S9) (LRR K, L)
  - Iron-Manganese Masses (F12) (LRR K, L, R)
  - Piedmont Floodplain Soils (F19) (MLRA 149B)
  - Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
  - Red Parent Material (TF2)
  - Very Shallow Dark Surface (TF12)
  - Other (Explain in Remarks)

<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes  No

Remarks:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Baldwin Hill Section 4 & Apartments Town/County: Baldwinsville/Onondaga County Sampling Date: February 6, 2024

Applicant/Owner: CHA State: New York Sampling Point: D6

Investigator(s): Scott Livingstone & Tom Somerville Section, Township, Range: various

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): CONCAVE Slope (%): 1

Subregion (LRR or MLRA) LRRL Lat: 43.16112°N Long: -76.30855°W Datum: NAD83

Soil Map Unit Name: LYONS SOILS, 0-3% SLOPES NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID: <u>W1</u>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

Remarks: (Explain alternative procedures here or in a separate report.)  
W2-1 → W2-25 (OPEN)

**HYDROLOGY**

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Moss Trim Lines (B16)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Microtopographic Relief (D4)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b>		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Surface Water Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>1"</u>	
Water Table Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>SURFACE</u>	
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>SURFACE</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION : Use scientific names of plants.

Sampling Point: D6

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Acer rubrum</u>	<u>40</u>	<u>Y</u>	<u>FAC</u>
2. <u>Ulmus americana</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			

50 = Total Cover

Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Carpinus caroliniana</u>	<u>30</u>	<u>Y</u>	<u>FAC</u>
2. <u>Ulmus americana</u>	<u>8</u>	<u>Y</u>	<u>FACW</u>
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			

38 = Total Cover

Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Drosera rotundifolia</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>
2. <u>Poa palustris</u>	<u>8</u>	<u>Y</u>	<u>FACW</u>
3. <u>Carex stricta</u>	<u>5</u>	<u>Y</u>	<u>OBL</u>
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			

23 = Total Cover

Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Toxicodendron radicans</u>	<u>15</u>	<u>Y</u>	<u>FAC</u>
2. _____			
3. _____			
4. _____			

15 = Total Cover

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 8 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species _____ x 1 = _____	
FACW species _____ x 2 = _____	
FAC species _____ x 3 = _____	
FACU species _____ x 4 = _____	
UPL species _____ x 5 = _____	
Column Totals: _____ (A) _____ (B)	

Prevalence Index = B/A = \_\_\_\_\_

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is < 3.0<sup>1</sup>

4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

**Herb** - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vines** - All woody vines greater than 3.28 ft in height.

Community Type: Hardwood Swamp

PFD2B

Hydrophytic Vegetation Present? Yes  No

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # 99 Direction of Photo EAST

wetland W2



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Baldwin Hill Section 4 & Apartments Town/County: Baldwinsville/Onondaga County Sampling Date: February 6, 2024

Applicant/Owner: CHA State: New York Sampling Point: A7

Investigator(s): Scott Livingstone & Tom Somerville Section, Township, Range: various

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): CONVEX Slope (%): 15

Subregion (LRR or MLRA) LRRL Lat: 43.16109°N Long: -76.30866°W Datum: NAD83

Soil Map Unit Name: MADRID FINE SANDY LOAM, 8-15% NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: <u>N/A</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <div style="font-size: 24px; font-weight: bold; text-align: center;">UPLAND WOODS</div>	

**HYDROLOGY**

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>N/A</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>N/A</u> Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>N/A</u>	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION : Use scientific names of plants.

Sampling Point: D7

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Acer saccharum</u>	<u>50</u>	<u>Y</u>	<u>FACU</u>
2. <u>Quercus rubra</u>	<u>15</u>	<u>N</u>	<u>FACU</u>
3. <u>Fraxinus americana</u>	<u>15</u>	<u>N</u>	<u>FACU</u>
4. <u>Fagus grandifolia</u>	<u>10</u>	<u>N</u>	<u>FACU</u>
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

90 = Total Cover

Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Acer saccharum</u>	<u>12</u>	<u>Y</u>	<u>FACU</u>
2. <u>Fraxinus americana</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

22 = Total Cover

Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Alliaria petiolata</u>	<u>13</u>	<u>Y</u>	<u>FACU</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

13 = Total Cover

Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Vitis aestivalis</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

10 = Total Cover

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Column Totals:	Multiply by:	Column Totals:
OBL species <u>-</u>	<u>135</u>	x 1 =	<u>-</u>
FACW species <u>-</u>		x 2 =	<u>-</u>
FAC species <u>-</u>		x 3 =	<u>-</u>
FACU species <u>135</u>	<u>135</u>	x 4 =	<u>540</u>
UPL species <u>-</u>		x 5 =	<u>-</u>
Column Totals:	<u>135</u> (A)		<u>540</u> (B)

Prevalence Index = B/A = 4.0

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
  - 2 - Dominance Test is >50%
  - 3 - Prevalence Index is < 3.0<sup>1</sup>
  - 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

**Herb** - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vines** - All woody vines greater than 3.28 ft in height.

Community Type: Successional Northern Hardwood

Hydrophytic Vegetation Present? Yes  No

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # P10 Direction of Photo West

SOIL

Sampling Point: D7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR4/1	100					l	
8-20	10YR5/1	100					grfs	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

- |   |  |  |   |  |  |
|---|--|--|---|--|--|
| <b>Hydric Soil Indicators:</b>                                |  |  | <b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b> |  |  |
| <input type="checkbox"/> Histosol (A1)                        | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)       |   |  |  |
| <input type="checkbox"/> Histic Epipedon (A2)                 | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)       | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)     |   |  |  |
| <input type="checkbox"/> Black Histic (A3)                    | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)             | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  |   |  |  |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                | <input type="checkbox"/> Loamy Gleyed Matrix (F2)                        | <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M)             |   |  |  |
| <input type="checkbox"/> Stratified Layers (A5)               | <input type="checkbox"/> Depleted Matrix (F3)                            | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)     |   |  |  |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)    | <input type="checkbox"/> Redox Dark Surface (F6)                         | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)           |   |  |  |
| <input type="checkbox"/> Thick Dark Surface (A12)             | <input type="checkbox"/> Depleted Dark Surface (F7)                      | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)   |   |  |  |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)             | <input type="checkbox"/> Redox Depressions (F8)                          | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |   |  |  |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)             |  | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)   |   |  |  |
| <input type="checkbox"/> Sandy Redox (S5)                     |  | <input type="checkbox"/> Red Parent Material (TF2)                   |   |  |  |
| <input type="checkbox"/> Stripped Matrix (S6)                 |  | <input type="checkbox"/> Very Shallow Dark Surface (TF12)            |   |  |  |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) |  | <input type="checkbox"/> Other (Explain in Remarks)                  |   |  |  |

<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if observed):</b>		Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Type: <u>NONE</u>	Depth (inches): <u>N/A</u>	

Remarks:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Baldwin Hill Section 4 & Apartments Town/County: Baldwinsville/Onondaga County Sampling Date: February 6, 2024

Applicant/Owner: CHA State: New York Sampling Point: D8

Investigator(s): Scott Livingstone & Tom Somerville Section, Township, Range: various

Landform (hillslope, terrace, etc.): Fill Pile Local relief (concave, convex, none): CONVEX Slope (%): 10

Subregion (LRR or MLRA) LRRL Lat: 43.16033°N Long: -76.30792°W Datum: NAD83

Soil Map Unit Name: LYONS SOILS, 0-3% SLOPES NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes  No   
 Hydric Soil Present? Yes  No   
 Wetland Hydrology Present? Yes  No

Is the Sampled Area within a Wetland? Yes  No   
 If yes, optional Wetland Site ID: N/A

Remarks: (Explain alternative procedures here or in a separate report.)

• UPLAND SUCCESSIONAL FIELD  
 • 50%+ HIGH FILL PILE (OLD)

**HYDROLOGY**

**Wetland Hydrology Indicators:**

**Secondary Indicators (minimum of two required)**

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- Marl Deposits (B15)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Moss Trim Lines (B16)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- Microtopographic Relief (D4)
- FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes  No  Depth (inches): N/A  
 Water Table Present? Yes  No  Depth (inches): N/A  
 Saturation Present? (includes capillary fringe) Yes  No  Depth (inches): N/A

Wetland Hydrology Present? Yes  No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION : Use scientific names of plants.

Sampling Point: D8

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
			_____ = Total Cover

Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
			_____ = Total Cover

Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Centaurea stoebe</u>	<u>60</u>	<u>Y</u>	<u>UPL</u>
2. <u>Daucus carota</u>	<u>12</u>	<u>N</u>	<u>FACU</u>
3. <u>Poa compressa</u>	<u>10</u>	<u>N</u>	<u>FACU</u>
4. <u>Solidago canadensis</u>	<u>8</u>	<u>N</u>	<u>FACU</u>
5. <u>Trifolium repens</u>	<u>5</u>	<u>N</u>	<u>FACU</u>
6. <u>Taraxacum officinale</u>	<u>5</u>	<u>N</u>	<u>FACU</u>
7. <u>Plantago major</u>	<u>3</u>	<u>N</u>	<u>FACU</u>
8. <u>Phleum pratense</u>	<u>2</u>	<u>N</u>	<u>FACU</u>
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
			<u>105</u> = Total Cover

Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
			_____ = Total Cover

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>—</u>	x 1 = <u>—</u>
FACW species <u>—</u>	x 2 = <u>—</u>
FAC species <u>—</u>	x 3 = <u>—</u>
FACU species <u>45</u>	x 4 = <u>180</u>
UPL species <u>60</u>	x 5 = <u>300</u>
Column Totals: <u>105</u> (A)	<u>480</u> (B)

Prevalence Index = B/A = 4.57

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
  - 2 - Dominance Test is >50%
  - 3 - Prevalence Index is < 3.0<sup>1</sup>
  - 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

**Herb** - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vines** - All woody vines greater than 3.28 ft in height.

Community Type: Successional Fill Pad

Hydrophytic Vegetation Present? Yes  No

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # R11 Direction of Photo West

- old fill pile, up to 50 feet high



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Baldwin Hill Section 4 & Apartments Town/County: Baldwinsville/Onondaga County Sampling Date: February 6, 2024

Applicant/Owner: CHA State: New York Sampling Point: D9

Investigator(s): Scott Livingstone & Tom Somerville Section, Township, Range: various

Landform (hillslope, terrace, etc.): Till Plain Local relief (concave, convex, none): CONVEX Slope (%): 5

Subregion (LRR or MLRA) LRRL Lat: 43.15938°N Long: -76.30726°W Datum: NAD83

Soil Map Unit Name: HILTON LOAM, 3-8% SLOPES NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)

Are Vegetation     , Soil     , or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes X No     

Are Vegetation     , Soil     , or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>    </u> No <u>X</u> Hydric Soil Present? Yes <u>    </u> No <u>X</u> Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>    </u> No <u>X</u> If yes, optional Wetland Site ID: <u>N/A</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <div style="font-size: 24pt; font-family: cursive;">UPLAND WOODS</div>	

**HYDROLOGY**

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <u>    </u> No <u>X</u> Depth (inches): <u>N/A</u> Water Table Present? Yes <u>    </u> No <u>X</u> Depth (inches): <u>N/A</u> Saturation Present? (includes capillary fringe) Yes <u>    </u> No <u>X</u> Depth (inches): <u>N/A</u>	Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION : Use scientific names of plants.

Sampling Point: D9

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Carya glabra</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>
2. <u>Acer saccharum</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>
3. <u>Fraxinus americana</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>
4. <u>Acer rubrum</u>	<u>10</u>	<u>N</u>	<u>FAC</u>
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

90 = Total Cover

Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Carya ovata</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>
2. <u>Prunus pennsylvanica</u>	<u>8</u>	<u>Y</u>	<u>FACU</u>
3. <u>Ostrya virginiana</u>	<u>6</u>	<u>Y</u>	<u>FACU</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

24 = Total Cover

Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Polystichum acrostichoides</u>	<u>6</u>	<u>Y</u>	<u>FACU</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

6 = Total Cover

Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Vitis aestivalis</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

10 = Total Cover

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Column Totals:	Multiply by:	Column Totals:
OBL species <u>-</u>	<u>130</u> (A)	x 1 = <u>-</u>	<u>510</u> (B)
FACW species <u>-</u>		x 2 = <u>-</u>	
FAC species <u>10</u>		x 3 = <u>30</u>	
FACU species <u>120</u>		x 4 = <u>480</u>	
UPL species <u>-</u>		x 5 = <u>-</u>	
Column Totals: <u>130</u> (A)			<u>510</u> (B)

Prevalence Index = B/A = 3.92

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
  - 2 - Dominance Test is >50%
  - 3 - Prevalence Index is < 3.0<sup>1</sup>
  - 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

**Herb** - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vines** - All woody vines greater than 3.28 ft in height.

Community Type: Successional Northern Hardwoods

Hydrophytic Vegetation Present? Yes  No

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # P12 Direction of Photo West



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Baldwin Hill Section 4 & Apartments Town/County: Baldwinsville/Onondaga County Sampling Date: February 6, 2024

Applicant/Owner: CHA State: New York Sampling Point: D10

Investigator(s): Scott Livingstone & Tom Somerville Section, Township, Range: various

Landform (hillslope, terrace, etc.): Hill slope Local relief (concave, convex, none): CONVEX Slope (%): 7

Subregion (LRR or MLRA) LRRL Lat: 43.15911°N Long: -76.36312°W Datum: NAD83

Soil Map Unit Name: MADRID FINE SANDY LOAM, 8-15% NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: <u>N/A</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <div style="font-size: 2em; font-family: cursive;">UPLAND WOODS</div>	

**HYDROLOGY**

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>N/A</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>N/A</u> Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>N/A</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION : Use scientific names of plants.

Sampling Point: D10

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Liriodendron tulipifera</i>	20	Y	FACU
2. <i>Acer negundo</i>	20	Y	FAC
3. <i>Populus tremuloides</i>	15	Y	FACU
4. _____			
5. _____			
6. _____			
7. _____			
<u>55</u> = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Corya glabra</i>	18	Y	FACU
2. <i>Acer negundo</i>	12	Y	FAC
3. <i>Fraxinus americana</i>	10	N	FACU
4. <i>Lonicera tatarica</i>	10	N	FACU
5. <i>Rhamnus cathartica</i>	6	N	FAC
6. _____			
7. _____			
<u>56</u> = Total Cover			
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Altaria petiolata</i>	15	Y	FACU
2. <i>Solidago canadensis</i>	12	Y	FACU
3. <i>Geum canadense</i>	6	N	FAC
4. <i>Rubus alleghaniensis</i>	5	N	FACU
5. <i>Rubus idaeus</i>	3	N	FACU
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			
<u>41</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Toxicodendron radicans</i>	12	Y	FAC
2. <i>Vitis aestivalis</i>	10	Y	FACU
3. _____			
4. _____			
<u>22</u> = Total Cover			

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 9 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>-</u> x 1 = <u>-</u>	
FACW species <u>-</u> x 2 = <u>-</u>	
FAC species <u>56</u> x 3 = <u>168</u>	
FACU species <u>118</u> x 4 = <u>472</u>	
UPL species <u>-</u> x 5 = <u>-</u>	
Column Totals: <u>174</u> (A)	<u>640</u> (B)
Prevalence Index = B/A = <u>3.68</u>	

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
  - 2 - Dominance Test is >50%
  - 3 - Prevalence Index is < 3.0<sup>1</sup>
  - 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

**Herb** - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vines** - All woody vines greater than 3.28 ft in height.

Community Type: Successional Northern Hardwood

Hydrophytic Vegetation Present? Yes  No

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # P13 Direction of Photo North



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Baldwin Hill Section 4 & Apartments Town/County: Baldwinsville/Onondaga County Sampling Date: February 6, 2024

Applicant/Owner: CHA State: New York Sampling Point: D11

Investigator(s): Scott Livingstone & Tom Somerville Section, Township, Range: various

Landform (hillslope, terrace, etc.): FILL PAD Local relief (concave, convex, none): CONVEX Slope (%): 5

Subregion (LRR or MLRA) LRRL Lat: 43.15964°N Long: -76.30934°W Datum: NAD83

Soil Map Unit Name: MADRID FINE SANDY LOAM, 8-15%NW I classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)

Are Vegetation     , Soil X, or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes X No     

Are Vegetation     , Soil     , or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>    </u> No <u>X</u> Hydric Soil Present? Yes <u>    </u> No <u>X</u> Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>    </u> No <u>X</u> If yes, optional Wetland Site ID: <u>N/A</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <div style="font-size: 1.2em; font-family: cursive;">                     UPLAND SAPLING WOODS / OLD FILL AREA                 </div>	

**HYDROLOGY**

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <u>    </u> No <u>X</u> Depth (inches): <u>N/A</u> Water Table Present? Yes <u>    </u> No <u>X</u> Depth (inches): <u>N/A</u> Saturation Present? Yes <u>    </u> No <u>X</u> Depth (inches): <u>N/A</u> (includes capillary fringe)	
Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:	

VEGETATION : Use scientific names of plants.

Sampling Point: D11

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Betula papyrifera</i>	50	Y	FACU
2. <i>Populus tremuloides</i>	10	N	FACU
3.			
4.			
5.			
6.			
7.			

60 = Total Cover

Sapling/Shrub Stratum (Plot size: 15')	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Betula papyrifera</i>	35	Y	FACU
2. <i>Rosa multiflora</i>	18	Y	FACU
3. <i>Pyrus communis</i>	15	Y	FACU
4. <i>Cornus racemosa</i>	6	N	FAC
5.			
6.			
7.			

74 = Total Cover

Herb Stratum (Plot size: 5')	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Fucus alleghaniensis</i>	18	Y	FACU
2. <i>Rosa multiflora</i>	15	Y	FACU
3. <i>Solidago canadensis</i>	10	N	FACU
4. <i>Poa compressa</i>	7	N	FACU
5. <i>Fragaria virginiana</i>	6	N	FACU
6.			
7.			
8.			
9.			
10.			
11.			
12.			

56 = Total Cover

Woody Vine Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Vitis aestivalis</i>	10	Y	FACU
2.			
3.			
4.			

10 = Total Cover

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Column Totals:	Multiply by:	Column Totals:
OBL species <u>—</u>	200	x 1 =	200
FACW species <u>—</u>		x 2 =	
FAC species <u>6</u>		x 3 =	18
FACU species <u>194</u>		x 4 =	776
UPL species <u>—</u>		x 5 =	—
Column Totals:	200 (A)		794 (B)

Prevalence Index = B/A = 3.97

**Hydrophytic Vegetation Indicators:**

- 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- 3 - Prevalence Index is < 3.0<sup>1</sup>
- 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

- Tree** - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
- Sapling/shrub** - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
- Herb** - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
- Woody vines** - All woody vines greater than 3.28 ft in height.

Community Type: Successional Northern Hardwoods

Hydrophytic Vegetation Present? Yes  No

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # P14 Direction of Photo North



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Baldwin Hill Section 4 & Apartments Town/County: Baldwinsville/Onondaga County Sampling Date: February 6, 2024

Applicant/Owner: CHA State: New York Sampling Point: D12

Investigator(s): Scott Livingstone & Tom Somerville Section, Township, Range: various

Landform (hillslope, terrace, etc.): Hill slope Local relief (concave, convex, none): CONVEX Slope (%): 10

Subregion (LRR or MLRA) LRRL Lat: 43.16027°N Long: -76.31066°W Datum: NAD83

Soil Map Unit Name: MADRID FINE SANDY LOAM, 8-15% NW I classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)

Are Vegetation     , Soil     , or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes X No     

Are Vegetation     , Soil     , or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>    </u> No <u>X</u> Hydric Soil Present? Yes <u>    </u> No <u>X</u> Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>    </u> No <u>X</u> If yes, optional Wetland Site ID: <u>N/A</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <div style="font-size: 2em; text-align: center; margin-top: 20px;">UPLAND WOODS</div>	

**HYDROLOGY**

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <u>    </u> No <u>X</u> Depth (inches): <u>N/A</u> Water Table Present? Yes <u>    </u> No <u>X</u> Depth (inches): <u>N/A</u> Saturation Present? (includes capillary fringe) Yes <u>    </u> No <u>X</u> Depth (inches): <u>N/A</u>	Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  	
Remarks:  	

VEGETATION : Use scientific names of plants.

Sampling Point: D12

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Carya glabra</u>	<u>70</u>	<u>Y</u>	<u>FACU</u>
2. <u>Acer saccharum</u>	<u>12</u>	<u>N</u>	<u>FACU</u>
3. <u>Prunus serotina</u>	<u>10</u>	<u>N</u>	<u>FACU</u>
4. _____			
5. _____			
6. _____			
7. _____			

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Carya glabra</u>	<u>18</u>	<u>Y</u>	<u>FACU</u>
2. <u>Prunus serotina</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>
3. <u>Rhamnus cathartica</u>	<u>5</u>	<u>N</u>	<u>FAC</u>
4. _____			
5. _____			
6. _____			
7. _____			

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>-</u>	x 1 = <u>-</u>
FACW species <u>-</u>	x 2 = <u>-</u>
FAC species <u>5</u>	x 3 = <u>15</u>
FACU species <u>132</u>	x 4 = <u>528</u>
UPL species <u>-</u>	x 5 = <u>-</u>
Column Totals: <u>137</u>	(A) <u>543</u> (B)

Prevalence Index = B/A = 3.96

Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Poa compressa</u>	<u>5</u>	<u>Y</u>	<u>FACU</u>
2. <u>Altaria petiolata</u>	<u>2</u>	<u>N</u>	<u>FACU</u>
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
  - 2 - Dominance Test is >50%
  - 3 - Prevalence Index is < 3.0<sup>1</sup>
  - 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			

**Definitions of Vegetation Strata:**

**Tree** - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

**Herb** - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vines** - All woody vines greater than 3.28 ft in height.

Community Type: Successional Northern Hardwood

Hydrophytic Vegetation Present? Yes  No

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # P15 Direction of Photo Northeast



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Baldwin Hill Section 4 & Apartments Town/County: Baldwinsville/Onondaga County Sampling Date: February 6, 2024

Applicant/Owner: CHA State: New York Sampling Point: D13

Investigator(s): Scott Livingstone & Tom Somerville Section, Township, Range: various

Landform (hillslope, terrace, etc.): Hill slope Local relief (concave, convex, none): CONVEX Slope (%): 5

Subregion (LRR or MLRA) LRRL Lat: 43.1613°N Long: -76.30998°W Datum: NAD83

Soil Map Unit Name: MADRID FINE SANDY LOAM, 2-87 NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)

Are Vegetation     , Soil     , or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes X No     

Are Vegetation     , Soil     , or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>    </u> No <u>X</u> Hydric Soil Present? Yes <u>    </u> No <u>X</u> Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>    </u> No <u>X</u> If yes, optional Wetland Site ID: <u>N/A</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <div style="font-size: 24px; font-family: cursive;">UPLAND WOODS</div>	

**HYDROLOGY**

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <u>    </u> No <u>X</u> Depth (inches): <u>N/A</u> Water Table Present? Yes <u>    </u> No <u>X</u> Depth (inches): <u>N/A</u> Saturation Present? Yes <u>    </u> No <u>X</u> Depth (inches): <u>N/A</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION : Use scientific names of plants.

Sampling Point: D13

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Populus tremuloides</u>	<u>25</u>	<u>Y</u>	<u>FACU</u>
2. <u>Prunus serotina</u>	<u>18</u>	<u>Y</u>	<u>FACU</u>
3. <u>Acer negundo</u>	<u>15</u>	<u>N</u>	<u>FAC</u>
4. <u>Acer saccharum</u>	<u>15</u>	<u>N</u>	<u>FACU</u>
5. <u>Prunus pennsylvanica</u>	<u>10</u>	<u>N</u>	<u>FACU</u>
6. _____			
7. _____			
<u>83</u> = Total Cover			

Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Prunus pennsylvanica</u>	<u>18</u>	<u>Y</u>	<u>FACU</u>
2. <u>Lonicera tatarica</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>
3. <u>Acer negundo</u>	<u>5</u>	<u>N</u>	<u>FAC</u>
4. _____			
5. _____			
6. _____			
7. _____			
<u>38</u> = Total Cover			

Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Althaea petiolata</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>
2. <u>Poa compressa</u>	<u>11</u>	<u>Y</u>	<u>FACU</u>
3. <u>Fragaria virginiana</u>	<u>3</u>	<u>N</u>	<u>FACU</u>
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			
<u>29</u> = Total Cover			

Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Vitis aestivalis</u>	<u>12</u>	<u>Y</u>	<u>FACU</u>
2. _____			
3. _____			
4. _____			
<u>12</u> = Total Cover			

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>-</u>	x 1 = <u>-</u>
FACW species <u>-</u>	x 2 = <u>-</u>
FAC species <u>20</u>	x 3 = <u>60</u>
FACU species <u>142</u>	x 4 = <u>568</u>
UPL species <u>-</u>	x 5 = <u>-</u>
Column Totals: <u>162</u> (A)	<u>628</u> (B)

Prevalence Index = B/A = 3.88

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
  - 2 - Dominance Test is >50%
  - 3 - Prevalence Index is < 3.0<sup>1</sup>
  - 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

**Herb** - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vines** - All woody vines greater than 3.28 ft in height.

Community Type: Successional Northern Hardwood

Hydrophytic Vegetation Present? Yes  No

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # P16 Direction of Photo Northeast



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Baldwin Hill Section 4 & Apartments Town/County: Baldwinsville/Onondaga County Sampling Date: February 6, 2024

Applicant/Owner: CHA State: New York Sampling Point: D14

Investigator(s): Scott Livingstone & Tom Somerville Section, Township, Range: various

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): CONVEX Slope (%): 7

Subregion (LRR or MLRA) LRRL Lat: 43.1687°N Long: -76.3089°W Datum: NAD83

Soil Map Unit Name: MADRID FINE SANDY LOAM, 2-87- NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
If yes, optional Wetland Site ID:	<u>N/A</u>	

Remarks: (Explain alternative procedures here or in a separate report.)

UPLAND WOODS

**HYDROLOGY**

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Microtopographic Relief (D4)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u>N/A</u>
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u>N/A</u>
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u>N/A</u>

Wetland Hydrology Present? Yes  No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION : Use scientific names of plants.

Sampling Point: D14

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Populus tremuloides</u>	<u>75</u>	<u>Y</u>	<u>FACU</u>
2. <u>Prunus serotina</u>	<u>10</u>	<u>N</u>	<u>FACU</u>
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
<u>85</u> = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Acer saccharum</u>	<u>17</u>	<u>Y</u>	<u>FACU</u>
2. <u>Carya glabra</u>	<u>12</u>	<u>Y</u>	<u>FACU</u>
3. <u>Populus tremuloides</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>
4. _____			
5. _____			
6. _____			
7. _____			
<u>39</u> = Total Cover			
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Althaea petiolata</u>	<u>5</u>	<u>Y</u>	<u>FACU</u>
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			
<u>5</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
_____ = Total Cover			

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>—</u>	x 1 = <u>—</u>
FACW species <u>—</u>	x 2 = <u>—</u>
FAC species <u>—</u>	x 3 = <u>—</u>
FACU species <u>129</u>	x 4 = <u>516</u>
UPL species <u>—</u>	x 5 = <u>—</u>
Column Totals: <u>129</u> (A)	<u>516</u> (B)
Prevalence Index = B/A = <u>4.0</u>	

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
  - 2 - Dominance Test is >50%
  - 3 - Prevalence Index is < 3.0<sup>1</sup>
  - 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

**Herb** - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vines** - All woody vines greater than 3.28 ft in height.

Community Type: Successional Northern Hardwood

Hydrophytic Vegetation Present? Yes  No

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # P17 Direction of Photo North



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Baldwin Hill Section 4 & Apartments Town/County: Baldwinsville/Onondaga County Sampling Date: February 6, 2024

Applicant/Owner: CHA State: New York Sampling Point: D15

Investigator(s): Scott Livingstone & Tom Somerville Section, Township, Range: various

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): CONVEX Slope (%): 12

Subregion (LRR or MLRA) LRRL Lat: 43.16297°N Long: -76.30852°W Datum: NAD83

Soil Map Unit Name: MADRID FINE SANDY LOAM, 8-15% NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.

Table with 2 columns: Hydrophytic Vegetation Present?, Hydric Soil Present?, Wetland Hydrology Present? and Is the Sampled Area within a Wetland? with checkboxes and handwritten 'X' marks.

Remarks: (Explain alternative procedures here or in a separate report.) UPLAND WOODS

HYDROLOGY

Table with 2 columns: Wetland Hydrology Indicators (Primary and Secondary) and checkboxes for each indicator.

Field Observations table with rows for Surface Water Present?, Water Table Present?, Saturation Present? and checkboxes.

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION : Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Pinus Serotina</u>	<u>45</u>	<u>Y</u>	<u>FACU</u>
2. <u>Acer saccharum</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>
3. <u>Carya glabra</u>	<u>15</u>	<u>N</u>	<u>FACU</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

90 = Total Cover

Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Acer Saccharum</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>
2. <u>Fraxinus americana</u>	<u>13</u>	<u>Y</u>	<u>FACU</u>
3. <u>Rhamnus coccinifera</u>	<u>12</u>	<u>Y</u>	<u>FAC</u>
4. <u>Pinus Serotina</u>	<u>7</u>	<u>N</u>	<u>FACU</u>
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

47 = Total Cover

Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Alliaria petiolata</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

15 = Total Cover

Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Vitis aestivalis</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

20 = Total Cover

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 14% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>1</u>	x 1 = <u>1</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>12</u>	x 3 = <u>36</u>
FACU species <u>160</u>	x 4 = <u>640</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>172</u> (A)	<u>676</u> (B)

Prevalence Index = B/A = 3.93

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
  - 2 - Dominance Test is >50%
  - 3 - Prevalence Index is < 3.0<sup>1</sup>
  - 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

**Herb** - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vines** - All woody vines greater than 3.28 ft in height.

Community Type: Successional Northern Hardwood

Hydrophytic Vegetation Present? Yes  No

Remarks: (Include photo numbers here or on a separate sheet.)

Photo # P18 Direction of Photo North



# **BALDWIN HILL SECTION 4 & BALDWIN HILL APARTMENTS**

APPENDIX C - SITE PHOTOGRAPHS



**Photo 1:** Facing south. Depicts the successional shrubland community at data point D1. 2/6/24



**Photo 2:** Facing southeast. Depicts Stream 1 along the western limits of the investigation area. 2/6/24



**Photo 3:** Facing north. Depicts the developed area in the northern portion of the site. 2/6/24



**Photo 4:** Facing south. Depicts the successional northern hardwood community at data point D2. 2/6/24



**Photo 5:** Facing west. Depicts the emergent marsh community of wetland W1 at data point D3. 2/6/24



**Photo 6:** Facing south. Depicts the successional northern hardwood community at data point D4. 2/6/24



**Photo 7:** Facing west. Depicts the successional northern hardwood community at data point D5. 2/6/24



**Photo 8:** Facing west. Depicts Stream 2 flowing east along the east property line. 2/6/24



**Photo 9:** Facing east. Depicts the hardwood swamp community of wetland W2 at data point D6. 2/6/24



**Photo 10:** Facing west. Depicts the successional northern hardwood community at data point D7. 2/6/24



**Photo 11:** Facing west. Depicts the successional fill pad community at data point D8. 2/6/24



**Photo 12:** Facing west. Depicts the successional northern hardwood community at data point D9. 2/6/24



**Photo 13:** Facing north. Depicts the successional northern hardwood community at data point D10. 2/6/24



**Photo 14:** Facing north. Depicts the successional northern hardwood community at data point D11. 2/6/24



**Photo 15:** Facing northeast. Depicts the successional northern hardwood community at data point D12. 2/6/24



**Photo 16:** Facing northeast. Depicts the successional northern hardwood community at data point D13. 2/6/24



**Photo 17:** Facing north. Depicts the successional northern hardwood community at data point D14. 2/6/24



**Photo 18:** Facing north. Depicts the successional northern hardwood community at data point D15. 2/6/24

# **BALDWIN HILL SECTION 4 & BALDWIN HILL APARTMENTS**

APPENDIX D - REFERENCES

## **INFORMATIONAL REFERENCES USED BY EARTH DIMENSIONS INC.**

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# **BALDWIN HILL SECTION 4 & BALDWIN HILL APARTMENTS**

APPENDIX E – PROJECT CONTACT DETAILS

## **Wetland Personnel:**

### **Soils and Hydrology Sampling**

Scott Livingstone, Senior Soil Scientist  
Earth Dimensions, Inc.  
1091 Jamison Road  
Elma, New York 14059  
(716) 655-1717  
slivingstone@earthdimensions.com

### **Vegetation Sampling**

Tom Somerville, Ecologist  
Earth Dimensions, Inc.  
1091 Jamison Road  
Elma, New York 14059  
(716) 655-1717  
tsomerville@earthdimensions.com

### **Report Preparation**

Tom Somerville, Ecologist  
Earth Dimensions, Inc.  
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Elma, New York 14059  
(716) 655-1717  
tsomerville@earthdimensions.com

## **Client Contact:**

James Trasher  
CHA  
One Park Place  
300 South State Street #600  
Syracuse, New York 13202  
Jtrasher@CHAsolutions.Com  
(315) 382-1508

## **Landowner Contact:**

Jalac LLC  
3536 Timber Banks PKWY  
Baldwinsville, New York 13027



**T Consulting**



1396 White Bridge Road  
Chittenango, NY 13037  
Tel: (315) 391-5110

November 8, 2025

Cough Harbour & Associates, LLP  
One Park Place  
300 South State Street, Suite 600  
Syracuse, NY 13202-2024

Attn: Mr. James Trasher, P.E.

**Re: Traffic Impact Assessment – Proposed Baldwin Hill Estates Expansion  
Village of Baldwinsville, NY**

Dear Mr. Trasher:

I have completed my review of traffic operations associated with the proposed Baldwin Hill Estates expansion in the Village of Baldwinsville, NY. This letter summarizes the work completed in this review as well as my findings.

#### *Project Understanding*

The existing Baldwin Hill Estates development includes approximately 111 single family homes which are all accessed via Shriver Road to/from Cold Springs Road (NYS Route 370) in the Village of Baldwinsville. The proposed expansion includes an additional 54 single family homes to the north with a new roadway connecting to NYS Route 31 approximately 450 feet to the east of the Baldwinsville Bypass intersection.

A site plan developed by CHA has been attached.

#### *Data Collection*

Site visits were conducted on Thursday – October 30<sup>th</sup>, 2025 to collect the following:

- Existing Traffic Volume Counts – Traffic turning movement counts were collected at the following 2 study area intersections during the weekday morning (7-9am) and weekday evening (4-6pm) peak travel periods to ensure that actual peak hours of the adjacent streets were captured.
  - NYS Route 31 @ Baldwinsville Bypass / Anheuser Busch Driveway
  - NYS Route 370 @ Shriver Drive / Springwoods Circle

The traffic counts included separate heavy vehicle counts per direction and pedestrians. There were no pedestrians observed during the traffic count periods. All area schools were in session.

- NYS Route 31 & NYS Route 370 Gap Data – Gap data was collected to assess the ability for vehicles to turn in and out of the proposed road on NYS Route 31, and in and out of Shriver

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Drive on NYS Route 370. In order for a vehicle to turn right out of the proposed road, or left into the proposed road, the vehicle only requires a gap in the eastbound direction on NYS Route 31. To turn right out or left into Shriver Drive, a vehicle requires a gap only in the westbound direction on NYS Route 370. A vehicle requires a gap in traffic in both directions at the same time to turn left out of the proposed road onto NYS Route 31, or to turn left out of Shriver Drive onto NYS Route 370. These gaps in traffic were observed and timed on NYS Route 31 and NYS Route 370 during the count periods. The gaps were then converted to a number of vehicles that could turn left or right out of the proposed road or Shriver Drive during each gap and then totaled for the peak hour. For example, one vehicle can turn from the side road or driveway with a 6-9 second gap in traffic, two can turn with a 10-13 second gap, 3 with a 14-17 second gap, 4 with an 18-19 second gap, etc.

- Spot Speed Measurements – 50 speed measurements were collected in each direction on both NYS Route 31 and NYS Route 370 to identify average and 85<sup>th</sup> percentile operating speeds in the area passing the site. The data was collected for free flow traffic during off-peak times. The weather was clear and the roadway was dry.
- Sight Distance Measurements – Sight lines looking east/west along NYS Route 31 from the proposed road and along NYS Route 370 from Shriver Drive were collected for comparison to design standards in order to confirm that adequate sight lines are available for safe ingress and egress from the site.
- Operational Data - Other data needed to evaluate traffic operations, such as intersection geometry, control, and speeds limits were also collected. Existing signal timing data was obtained from NYSDOT to ensure that the traffic signal in the study area was properly modeled.

*Existing Operations*

NYS Route 31 has one lane in each direction through the study area with auxiliary eastbound and westbound left turn lanes at the Baldwinsville Bypass intersection. There is a hatched median at the proposed roadway connection to Route 31 that can provide space for vehicles turning left into the site.

NYS Route 370 has one lane in each direction through the study area with no auxiliary turn lanes at the Shriver Drive/Springwoods Circle intersection.

Baldwinsville Bypass has one lane in each direction between NYS Route 370 and NYS Route 31 with auxiliary northbound left and right turn lanes at the intersection with NYS Route 31.

The intersection of NYS Route 31 with Baldwinsville Bypass is controlled by a fully actuated, uncoordinated traffic signal under the jurisdiction of NYSDOT (#3229). The signal operations

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included protected/permitted east/west left turn phasing with a northbound right turn overlap phase. The intersection of NYS Route 370 with Shriver Drive/Springwoods Circle has stop sign control on the side streets with free flow traffic on NYS Route 370.

Based on the traffic counts collected, the peak hours were identified as follows:

Weekday Morning Peak Hour – 7:00am to 8:00am  
Weekday Evening Peak Hour – 4:00pm to 5:00pm

The 2025 existing traffic volumes collected in October are shown in the attached Figure 1 for the weekday morning and weekday evening peak hours. The traffic count data has been attached.

The existing traffic counts collected during the weekday morning and evening peak hours were reviewed and compared to historical traffic volumes on NYS Route 31 and NYS Route 370 to identify any necessary seasonal adjustments. Specifically, June 10<sup>th</sup>-11<sup>th</sup>, 2025 directional traffic counts on NYS Route 31 to the east of the Baldwinsville Bypass intersection, and September 23<sup>rd</sup>-25<sup>th</sup>, 2025 directional counts on NYS Route 370 to the east of Shriver Drive, were taken from the NYSDOT Traffic Data Viewer website.

The June 2025 traffic counts on NYS Route 31 had 506 vehicles eastbound/557 vehicles westbound during the morning peak hour and 748 vehicles eastbound/714 vehicles westbound during the evening peak hour. Based on the 2025 counts collected for this study, there were 500 vehicles eastbound/551 vehicles westbound during the morning peak hour and 776 vehicles eastbound/683 vehicles westbound during the evening peak hour. The combined directional counts collected in October 2025 are 1% lower than the historical counts during the morning peak hour and equal to the historical counts during the evening peak hour.

The September 2025 traffic counts on NYS Route 370 had 317 vehicles eastbound/269 vehicles westbound during the morning peak hour and 322 vehicles eastbound/376 vehicles westbound during the evening peak hour. Based on the 2025 counts collected for this study, there were 321 vehicles eastbound/315 vehicles westbound during the morning peak hour and 369 vehicles eastbound/373 vehicles westbound during the evening peak hour. The combined directional counts collected in October 2025 are 9% higher than the historical counts during the morning peak hour and 6% higher than the historical counts during the evening peak hour.

Since the traffic counts collected for this study are generally equal to or higher than historical counts on both roadways, there were no adjustments made to the existing traffic volumes. The historical count data has been attached.

Based on the gap data collected, there are sufficient gaps in traffic to accommodate over 300 vehicles turning right onto NYS Route 31 from the proposed roadway, and over 450 vehicles turning right onto

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NYS Route 370 from Shriver Drive during both peak hours. These gaps would also be available for vehicles turning left into the site from each roadway. There were sufficient gaps observed to accommodate approximately 216 vehicles turning left onto NYS Route 31 during the morning peak hour and 131 vehicles turning left onto NYS Route 31 during the evening peak hour. The gaps observed on NYS Route 370 were sufficient to accommodate approximately 334 vehicles turning left onto NYS Route 370 during the morning peak hour and 276 vehicles turning left onto NYS Route 370 during the evening peak hour. There are more than sufficient gaps expected to be available to accommodate the existing traffic volumes generated by the Baldwin Hill Estates development as well as any minor additional traffic generated from the proposed expansion. The gap data is attached.

The posted speed limit passing the site is 45 mph on NYS Route 31 and 40 mph on NYS Route 370. The speed data collected indicates that the average speeds passing the site on NYS Route 31 are 49 mph in both directions. The 85<sup>th</sup> percentile speeds based on the data collected are 52.5 mph eastbound and 52 mph westbound on NYS Route 31. The speed data indicates that the average speeds passing Shriver Drive on NYS Route 370 are 42 mph eastbound/41 mph westbound, with 85<sup>th</sup> percentile speed of 45.5 mph eastbound and 43 mph westbound. The speed data has been attached.

The following table provides a summary of the recommended sight distances along NYS Route 31 and NYS Route 370 from the AASHTO A Policy on Design of Highways and Streets as well as the available sight distances based on field measurements. Based on observed operating speeds, 55 mph was used for the sight distance review on NYS route 31 and 45 mph was used for the sight distance review on NYS Route 370. The recommended sight distances on NYS Route 31 were adjusted to account for the additional median space to be crossed when turning left out of the proposed road.

**Sight Distance Summary**

<b>Location</b>	<b>Operating Speed</b>	<b>Direction</b>	<b>AASHTO Recommended Sight Distance</b>	<b>Available Sight Distance</b>
Proposed Road @ NYS Route 31 – Turning Left	55 mph	Looking Left Looking Right	650 feet 650 feet	1,000+ feet 1,000+ feet
Proposed Road @ NYS Route 31 – Turning Right	55 mph	Looking Left	530 feet	1,000+ feet
Shriver Drive @ NYS Route 370 – Turning Left	45 mph	Looking Left Looking Right	500 feet 500 feet	825 feet 650 feet
Shriver Drive @ NYS Route 370 – Turning Right	45 mph	Looking Left	430 feet	825 feet

There are more than adequate sight distances available on NYS Route 31 looking in both directions from proposed road, and on NYS Route 370 looking in both directions from Shriver Drive. There are no concerns with sight distances and safety for ingress and egress from the site.

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Capacity analysis of the traffic operations was completed using Synchro11, the industry accepted standard for the analysis of both signalized and unsignalized intersections that are based on methodologies developed in the Highway Capacity Manual. Intersection and individual movement operations are graded in terms of Level of Service ranging from A to F, as described in the HCM. For example, an unsignalized intersection movement with an average delay of 5 seconds per vehicle is considered a Level of Service A while an average delay per vehicle of 20 seconds is considered a C. A Level of Service D or better is generally considered acceptable for a signalized intersection while a Level of Service E or better is generally considered acceptable for an unsignalized intersection.

The results of the Synchro capacity analysis indicate that all traffic movements in the study area are operating at acceptable Levels of Service C or better during both peak hours.

The detailed Level of Service and queue summary, and capacity analysis printouts have been attached.

There are no concerns noted with existing traffic operations on NYS Route 31 or NYS Route 370 in the vicinity of the project site as there are ample gaps in traffic and clear sight lines in both directions. There are acceptable delays at the study area intersections. These findings are consistent with observations made during the data collection.

*Accident Analysis*

An accident analysis was completed for the study area using history reports obtained for a three year period from January 2022 through December 2024. Over the three year period, there were 20 total accidents in the study area with 9 accidents at the NYS Route 31/Baldwinsville Bypass intersection and 1 accident at the NYS Route 370/Shriver Drive intersection.

The Safety Performance Function (SPF) Parameters for Intersections, Ramps, and Segments spreadsheet provided by NYSDOT was used to calculate the LOSS for the study area intersections based on the AADT volumes and observed number of accidents.

Of the 9 accidents at the NYS Route 31/Baldwinsville Bypass intersection, 6 were rear-end accidents, 1 was a right angle accident, 1 was a left turn accident, and 1 was a right turn accident. Based on intersection geometry and annual average daily traffic volumes, the predicted NYSDOT Safety Performance Function is 2.89 total accidents per year and 1.19 injury/fatality accidents per year. The calculated number of total accidents per year were 3.00. The calculated number of injury/fatality accidents per year were 0.66. The intersection was identified to have a LOSS rating of 3 based on total accidents and 2 based on injury accidents, indicating that it is not a significant accident intersection.

There was a left turn accident at the NYS Route 370/Shriver Drive intersection. Based on intersection geometry and annual average daily traffic volumes, the predicted NYSDOT Safety Performance Function is 0.83 total accidents per year and 0.29 injury/fatality accidents per year. The calculated number of total accidents per year were 0.33. The calculated number of injury/fatality accidents per

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**Re: Traffic Impact Assessment – Proposed Baldwin Hill Estates Expansion  
Village of Baldwinsville, NY**

year were 0.00. The intersection was identified to have a LOSS rating of 2 based on total accidents and 2 based on injury accidents, again indicating that it is not a significant accident intersection.

There were 5 midblock accidents on NYS Route 31 (3 rearend, 2 fixed object), 3 midblock accidents on Baldwinsville Bypass (2 animal related, 1 fixed object), 1 backing accident on NYS Route 370, and 1 parking lot accident included in the data.

Overall, 16 of the accidents in the study area were property damage only accidents with 4 injury accidents and no fatalities.

The detailed accident summary has been attached.

*2028 Background Operations*

The proposed Baldwin Hill Estates expansion is assumed to be completed over approximately 3 years, therefore 2028 was used as the design year for this study. In order to fully understand the impacts of the development on the adjacent roadway system, analysis of the operations immediately before the project opening must first be completed. The existing traffic volumes were first adjusted by a growth rate to account for any unknown development that may occur prior to completion of the project.

Historical traffic volumes along NYS Route 31 in the Route 631/Route 31 overlap section, along NYS Route 370 between the Route 31/Route 370 overlap and River Road, and along the Baldwinsville Bypass between Route 31 and Route 370, were taken from the NYSDOT Traffic Data Viewer website and reviewed in order to identify an appropriate background growth rate. Long term growth rates in the area have been negative on NYS Route 31 around  $-0.2\%$  per year, positive along NYS Route 370 around  $+0.1\%$  per year, and positive on Baldwinsville Bypass around  $+1.2\%$  per year, between 2015 and 2024. In order to maintain a conservative analysis, a positive  $1.0\%$  per year growth was chosen and used to grow the 2025 existing traffic volumes to the 2028 background condition. The growth calculations have been attached.

The 2028 base traffic volumes with  $1\%$  growth per year ( $3\%$  total) are shown in Figure 2.

Based on discussions with the Town of Lysander and the Village of Baldwinsville, there were two proposed/approved developments in the area that needed to be specifically included in growth projections. Trips generated by the Melvin Farms development in the Town of Lysander were taken from the June 2023 traffic impact study completed by GTS Consulting and extrapolated through the project study area as shown in the attached Figure 3. Trips generated by the Bronze Foundry development in the Village of Baldwinsville were taken from the October 10, 2024 traffic impact study completed by GTS Consulting and extrapolated through the project study area as shown in the attached Figure 4.

**Re: Traffic Impact Assessment – Proposed Baldwin Hill Estates Expansion  
 Village of Baldwinsville, NY**

The 2028 background weekday morning and weekday evening traffic volumes with growth and approved developments are shown in Figure 5.

The Synchro capacity analysis of the 2028 background condition shows only minor increases in delay from the existing condition during the three peak hours. All Levels of Service are maintained during the peak hours with the exception of the northbound right turn movement on Baldwinsville Bypass at NYS Route 31 during the evening peak hour, which drops from LOS A to LOS B with an increase in average delay of +2 seconds per vehicle.

The detailed Level of Service and queue summary, and capacity analysis printouts have been attached.

Prior to completing the build analysis for the proposed development, the 2028 background traffic volumes were redistributed with the proposed new Baldwin Hill Estates roadway connection to NYS Route 31. The existing traffic from the development was redistributed assuming approximately 45% travel to/from the west on NYS Route 370, 35% travel to/from the east on NYS Route 31, and 20% travel to/from the east on NYS Route 370, consistent with past residential studies in the area. The redistributed background traffic volumes are shown in the attached Figure 6.

*Trip Generation Estimate and Distribution*

The proposed residential expansion includes 54 single family homes. Trips generated by both the existing 111 single family homes and the proposed 54 single family home expansion were estimated using the ITE Trip Generation, 11<sup>th</sup> Edition, which is the industry accepted standard for estimating traffic generated by new developments. Land Use 210 – Single-Family Detached Housing was used.

Based on the estimates, the existing development would be expected to generate approximately 20 trips entering/58 trips exiting during the morning peak hour and 65 trips entering/39 trips exiting during the evening peak hour. Based on the October 2025 traffic counts, the existing development generated 8 trips entering/55 trips exiting during the morning peak hour and 54 trips entering/35 trips exiting during the evening peak hour. Given that the ITE trip generation estimate is slightly higher than the actual existing trips generated during both peak hours, the ITE estimates were used for the proposed expansion to maintain a conservatively high estimate.

The following table summarizes the trip generation estimate for the proposed Baldwin Hill Estates expansion in Baldwinsville, NY.

**Trip Generation Summary**

	<b>Morning Peak Hour</b>		<b>Evening Peak Hour</b>	
	<b>Entering</b>	<b>Exiting</b>	<b>Entering</b>	<b>Exiting</b>
Single Family Homes – 54 Homes	10	28	32	19

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**Re: Traffic Impact Assessment – Proposed Baldwin Hill Estates Expansion  
Village of Baldwinsville, NY**

The detailed trip generation calculations have been attached.

Overall, the proposed Baldwin Hill Estates expansion is expected to be a minor additional traffic generator with approximately 30 trips exiting during the morning peak hour and entering during the evening peak hour.

Based on existing traffic patterns and population centers in the area, 35% of the new trips generated are expected to travel to/from the east on NYS Route 31, 30% will travel to/from the west on NYS Route 370, 20% will travel to/from the east on NYS Route 370, and 15% will travel to/from the west on NYS Route 31. The anticipated arrival/departure distribution and resulting trips generated during each of the peak hours are shown in Figures 7-8. The resultant full build traffic volumes expected when the development is complete are shown in Figure 9.

*Build Operations*

Based on the projected turning movements on NYS Route 31 at the proposed road and on NYS Route 370 at Shriver Drive, there are more than sufficient gaps available to accommodate both the existing traffic and the minor additional traffic volumes from the proposed expansion.

The Synchro capacity analysis of the build condition with the proposed Baldwin Hill Estates expansion indicates that the additional development will have very minor impacts on traffic operations in the area with minimal increases in delay. All existing traffic movements in the area continue to operate at Level of Service C or better during both peak hours with no drops in LOS from the background condition. The proposed road at NYS Route 31 operates at Level of Service C during both peak hours with minimal delays on NYS Route 31.

It is recommended that the existing hatched area on NYS Route 31 at the proposed road connection be restriped to provide a two way center left turn lane for vehicles waiting to turn left into the roadway.

The detailed Level of Service and queue summary, and capacity analysis printouts have been attached.

*Conclusions*

The additional traffic generated by the proposed Baldwin Hill Estates expansion, with the new road connection to NYS Route 31, will have no significant or notable impact on traffic operations in the area. There are sufficient gaps in traffic to accommodate existing and proposed turning movements on both NYS Route 31 and NYS Route 370, good sight lines in each direction, no notable accident history in the area, and no capacity concerns. The minimal increase in traffic will generally not even be noticeable to existing motorists in the area.



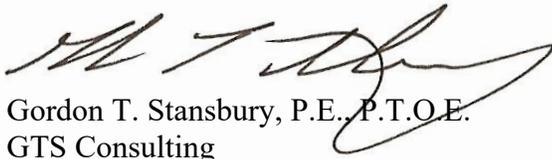
Mr. Trasher  
November 8, 2025  
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**Re: Traffic Impact Assessment – Proposed Baldwin Hill Estates Expansion  
Village of Baldwinsville, NY**

It is recommended that the existing hatched area on NYS Route 31 at the proposed road connection be restriped to provide a two way center left turn lane for vehicles waiting to turn left into the roadway.

If you have any questions or need additional information, please call.

Sincerely,



Gordon T. Stansbury, P.E., P.T.O.E.  
GTS Consulting

Attachments –

Site Plan  
Traffic Volume Figures 1-9  
Spot Speed Data  
Trip Generation Estimate  
Historical Count Data  
Synchro Capacity Printouts

Level of Service/Queue Summaries  
Gap Calculations  
Growth Rate Calculations  
Accident Data  
2025 Count Data

JALAC, LLC  
 3536 TIMBER BANKS PARKWAY  
 BALDWINVILLE NY 13027



IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE REGISTERED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM OR ANY PART OF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL. IF THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

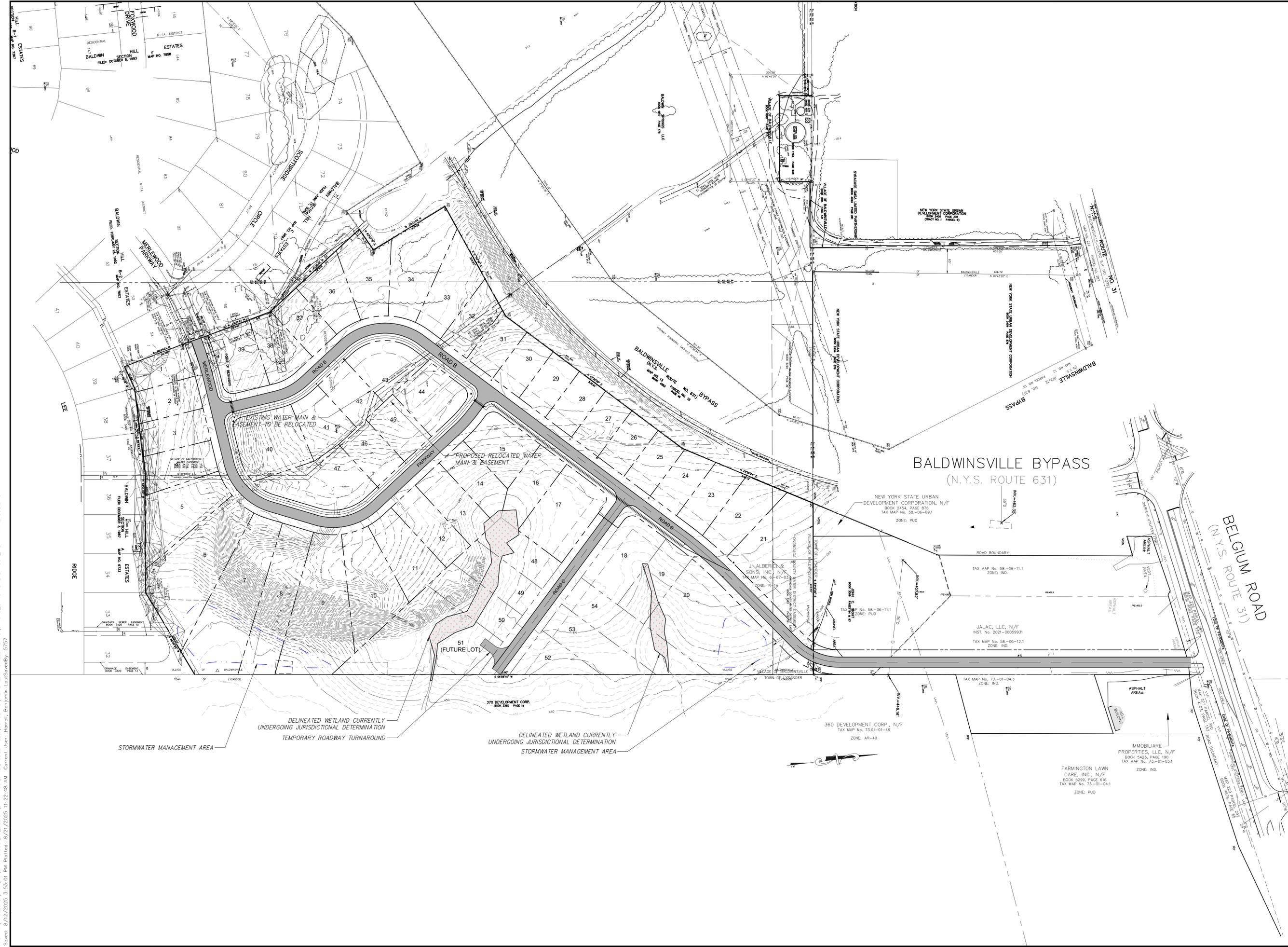
**BALDWIN HILL ESTATES  
 EXPANSION  
 VILLAGE OF BALDWINVILLE, NY**

No.	Submittal / Revision	App'd.	By	Date

**SITE LAYOUT PLAN**

Designed By: BGH	Drawn By: BGH	Checked By: JFT
Issue Date: 8/11/25	Project No: 074645	Scale: AS SHOWN

Drawing No.:  
**C-101**



File: V:\PROJECTS\NY\074645\000\09\_DESIGN\DRAWINGS\CIVIL\MODEL FILES\CONCEPTS\VL BALDWINVILLE PLANS\074645\_C-101 SITE LAYOUT\_VIL - INITIAL SUB.DWG  
 Saved: 8/12/2025 3:53:01 PM. Plotter: 8/21/2025 11:22:48 AM. Current User: Harrell, Benjamin. Last Saved By: 5757

**Proposed Baldwin Hill Estates Expansion – Village of Baldwinsville  
Intersection Level of Service & Queue Summary  
Weekday Morning Peak Hour**

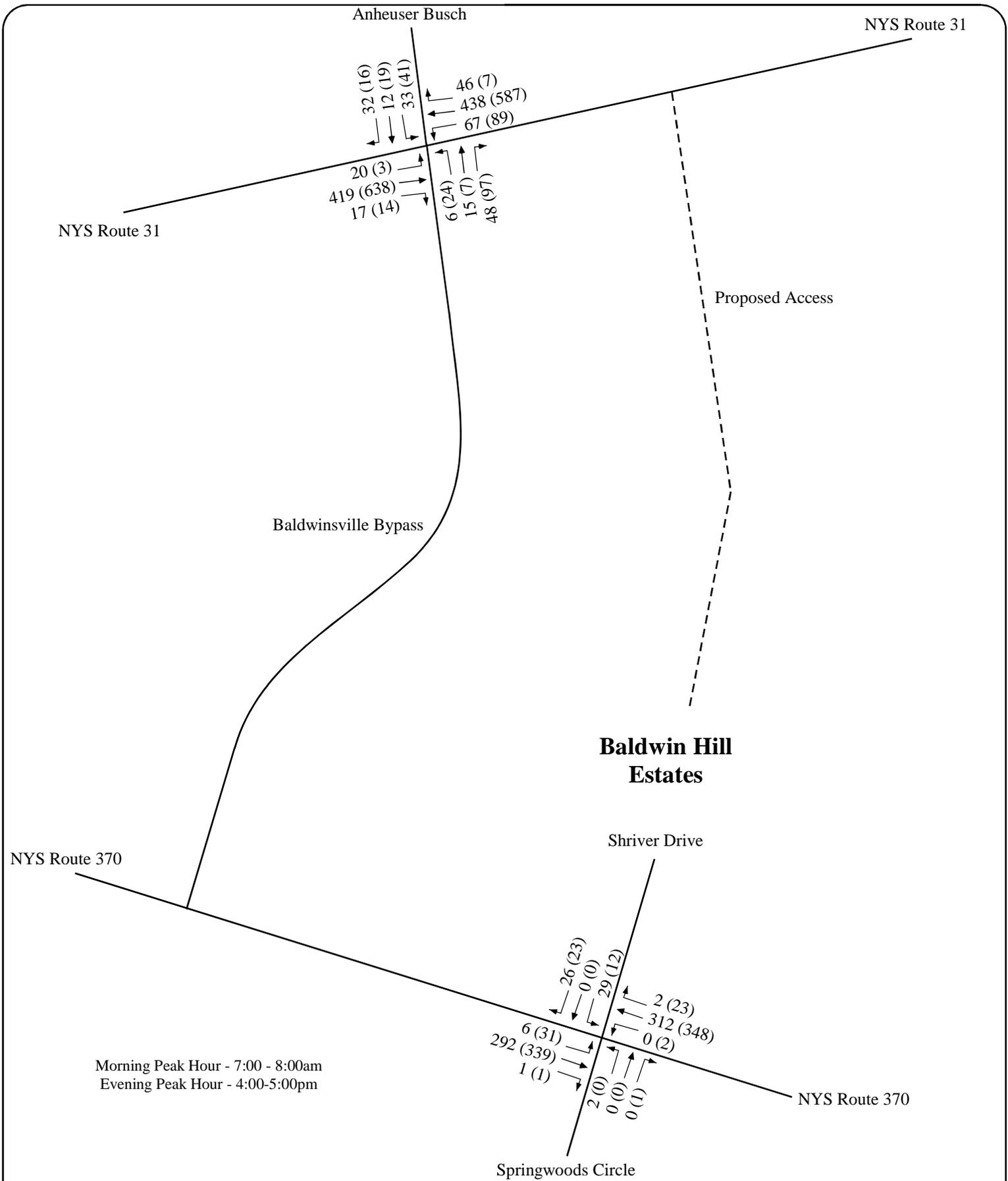
<b>Intersection</b>	<b>Available Storage</b>	<b>2025 Existing LOS(Delay)</b>	<b>2025 Existing Max Queue</b>	<b>2028 Background LOS(Delay)</b>	<b>2028 Background Max Queue</b>	<b>2028 Build LOS(Delay)</b>	<b>2028 Build Max Queue</b>
<b>NYS Route 31 @ Baldwinsville Bypass / Anheuser Busch</b>		<b>B(11)</b>		<b>B(11)</b>		<b>B(11)</b>	
EB Left	220	A(9)	15	A(9)	15	A(9)	15
EB Through/Right	-	B(12)	205	B(13)	240	B(13)	240
WB Left	225	A(4)	20	A(4)	20	A(4)	20
WB Through/Right	450	A(5)	146	A(6)	163	A(6)	164
NB Left	525	C(25)	11	C(25)	11	C(25)	11
NB Through	-	C(26)	19	C(26)	19	C(26)	19
NB Right	425	A(5)	9	A(5)	9	A(5)	9
SB Left/Through	-	C(35)	39	C(35)	40	C(35)	40
SB Right	225	A(6)	0	A(6)	0	A(6)	0
<b>NYS Route 370 @ Shriver Drive / Springwoods Circle</b>							
EB Left/Through/Right	-	a(1)	0	a(1)	0	a(1)	0
WB Left/Through/Right	-	a(0)	0	a(0)	0	a(0)	0
NB Left/Through/Right	-	c(18)	0	c(21)	3	c(21)	3
SB Left/Through/Right	-	c(16)	18	c(18)	23	c(16)	15
<b>NYS Route 31 @ Proposed Road</b>							
EB Through/Right	450	-	-	-	-	a(0)	0
WB Left	100	-	-	-	-	a(9)	0
WB Through	-	-	-	-	-	a(0)	0
NB Left/Right	-	-	-	-	-	c(16)	8

A(9) – Signalized Level of Service (Average Delay per Vehicle in Seconds) – Synchron11  
a(9) – Unsignalized Level of Service (Average Delay per Vehicle in Seconds) – Synchron11  
95<sup>th</sup> Percentile Queues in Feet – Synchron11

**Proposed Baldwin Hill Estates Expansion – Village of Baldwinsville  
Intersection Level of Service & Queue Summary  
Weekday Evening Peak Hour**

<b>Intersection</b>	<b>Available Storage</b>	<b>2025 Existing LOS(Delay)</b>	<b>2025 Existing Max Queue</b>	<b>2028 Background LOS(Delay)</b>	<b>2028 Background Max Queue</b>	<b>2028 Build LOS(Delay)</b>	<b>2028 Build Max Queue</b>
<b>NYS Route 31 @ Baldwinsville Bypass / Anheuser Busch</b>		<b>B(13)</b>		<b>B(14)</b>		<b>B(13)</b>	
EB Left	220	A(8)	4	A(9)	4	A(8)	4
EB Through/Right	-	B(18)	374	B(20)	477	B(17)	481
WB Left	225	A(5)	23	A(5)	24	A(5)	22
WB Through/Right	450	A(6)	177	A(6)	206	A(6)	208
NB Left	525	C(28)	28	C(28)	29	C(28)	29
NB Through	-	C(25)	12	C(25)	12	C(25)	12
NB Right	425	A(10)	36	B(12)	42	B(11)	38
SB Left/Through	-	C(34)	55	C(34)	56	C(33)	56
SB Right	225	A(1)	0	A(1)	0	A(1)	0
<b>NYS Route 370 @ Shriver Drive / Springwoods Circle</b>							
EB Left/Through/Right	-	a(1)	3	a(1)	3	a(1)	3
WB Left/Through/Right	-	a(0)	0	a(0)	0	a(0)	0
NB Left/Through/Right	-	b(11)	0	b(11)	0	b(11)	0
SB Left/Through/Right	-	b(14)	8	c(15)	10	c(15)	10
<b>NYS Route 31 @ Proposed Road</b>							
EB Through/Right	450	-	-	-	-	a(0)	0
WB Left	100	-	-	-	-	b(11)	3
WB Through	-	-	-	-	-	a(0)	0
NB Left/Right	-	-	-	-	-	c(22)	10

A(9) – Signalized Level of Service (Average Delay per Vehicle in Seconds) – Synchron11  
a(9) – Unsignalized Level of Service (Average Delay per Vehicle in Seconds) – Synchron11  
95<sup>th</sup> Percentile Queues in Feet – Synchron11



Morning Peak Hour - 7:00 - 8:00am  
 Evening Peak Hour - 4:00-5:00pm

**Proposed Baldwin Hill Estates Expansion - Village of Baldwinsville, NY**

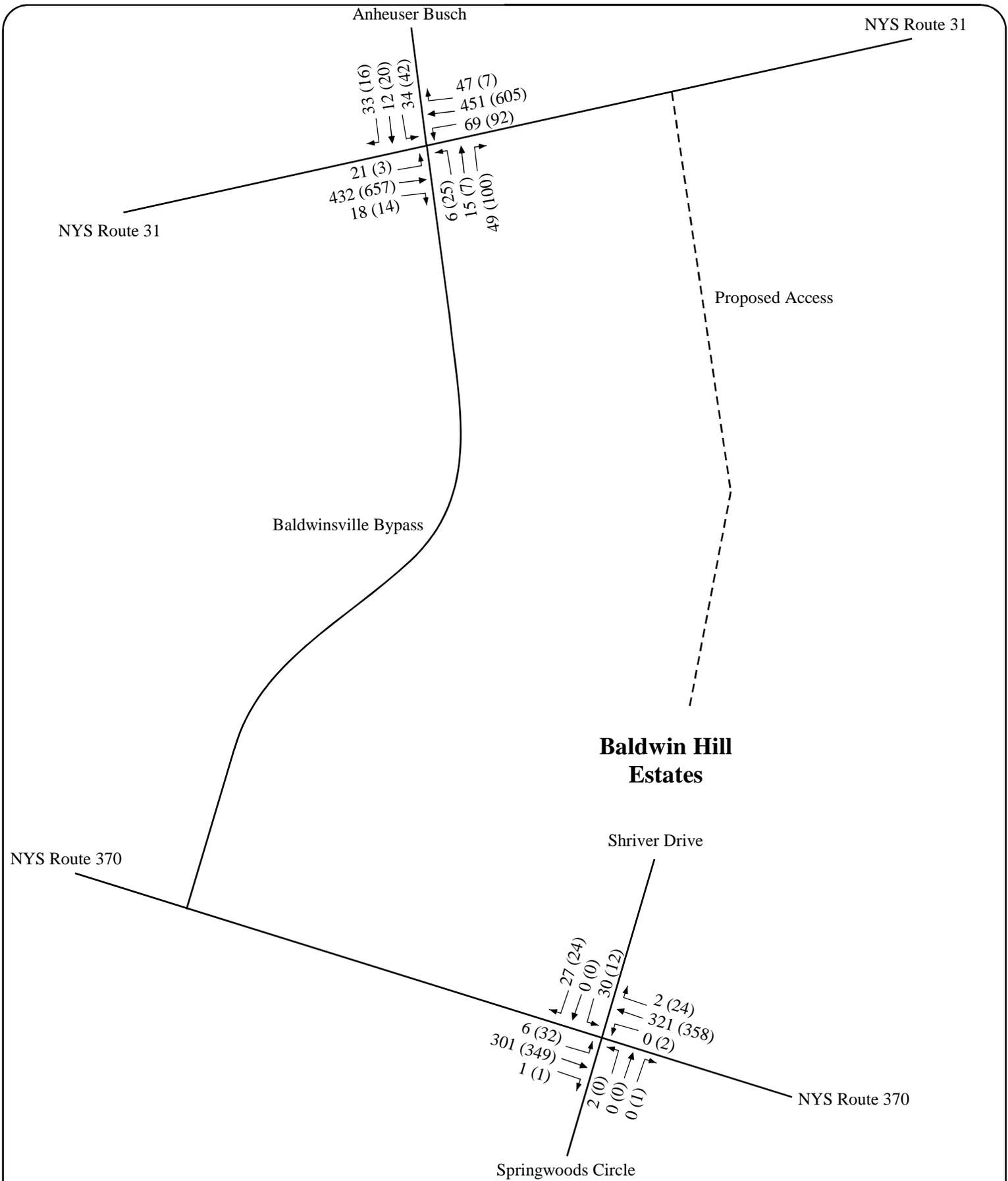
2025 Existing Traffic Volumes - Collected October 30th, 2025

Weekday Morning (Evening) Peak Hour



Figure 1

Not To Scale

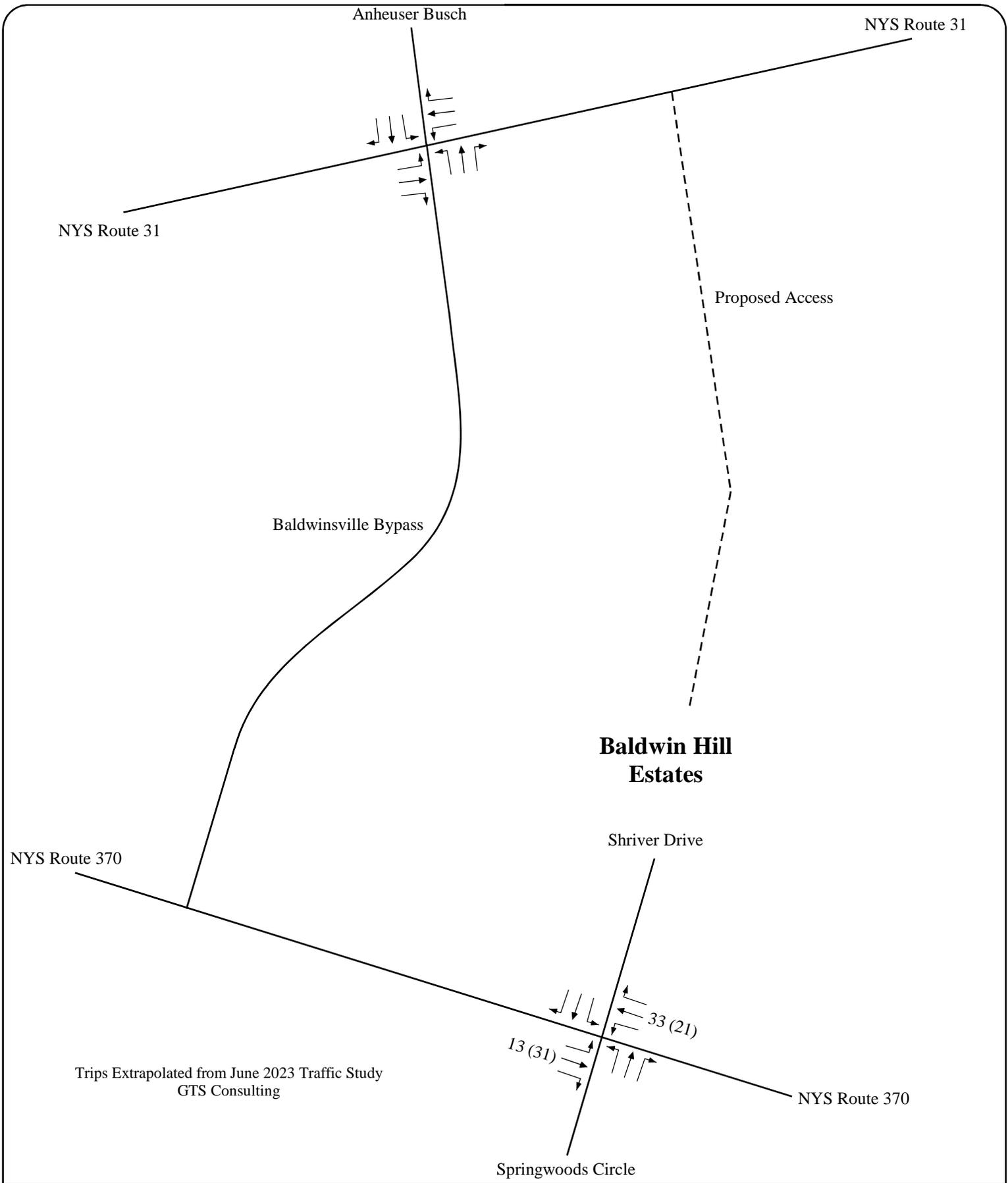


**Proposed Baldwin Hill Estates Expansion - Village of Baldwinsville, NY**  
 2028 Base Traffic Volumes - With 1% Growth per Year (3% Total)  
 Weekday Morning (Evening) Peak Hour



Figure 2

Not To Scale



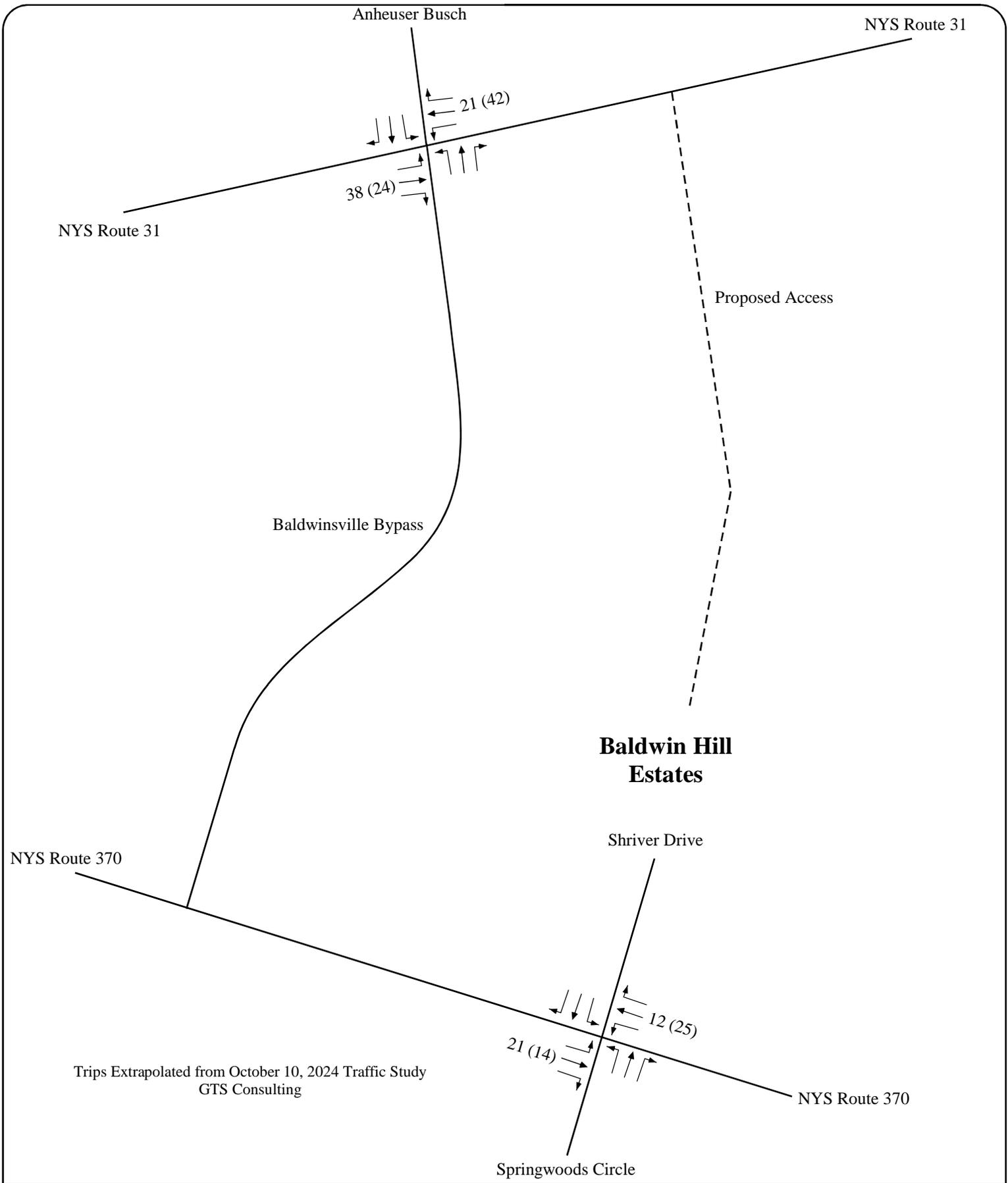
Trips Extrapolated from June 2023 Traffic Study  
GTS Consulting

**Proposed Baldwin Hill Estates Expansion - Village of Baldwinsville, NY**  
 Approved Development Trips - Melvin Farms Residential  
 Weekday Morning (Evening) Peak Hour



Figure 3

Not To Scale



**Proposed Baldwin Hill Estates Expansion - Village of Baldwinsville, NY**

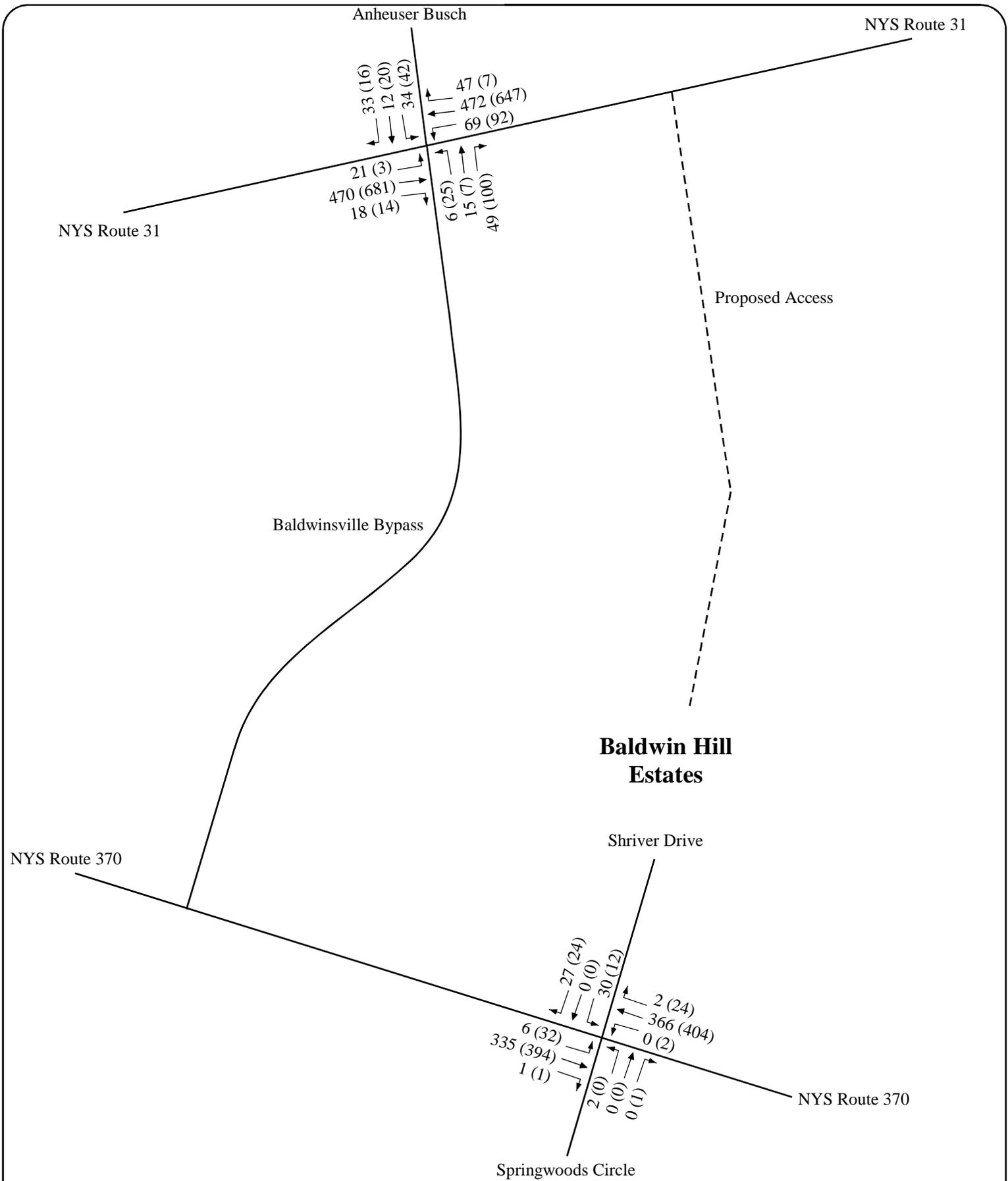
Approved Development Trips - Bronze Foundry Lofts

Weekday Morning (Evening) Peak Hour



Figure 4

Not To Scale

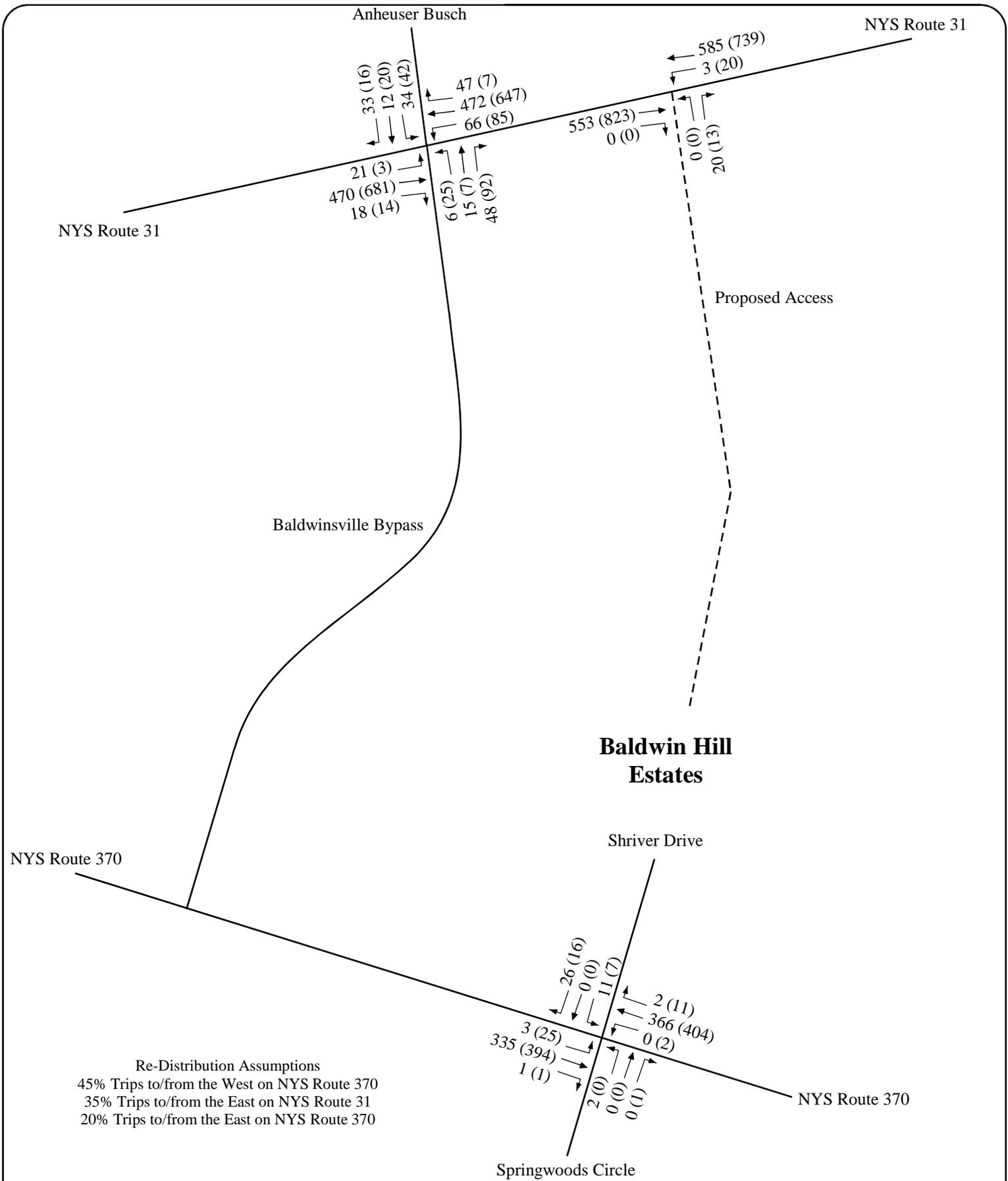


**Proposed Baldwin Hill Estates Expansion - Village of Baldwinsville, NY**  
 2028 Background Traffic Volumes - With Growth & Approved Development  
 Weekday Morning (Evening) Peak Hour



Figure 5

Not To Scale

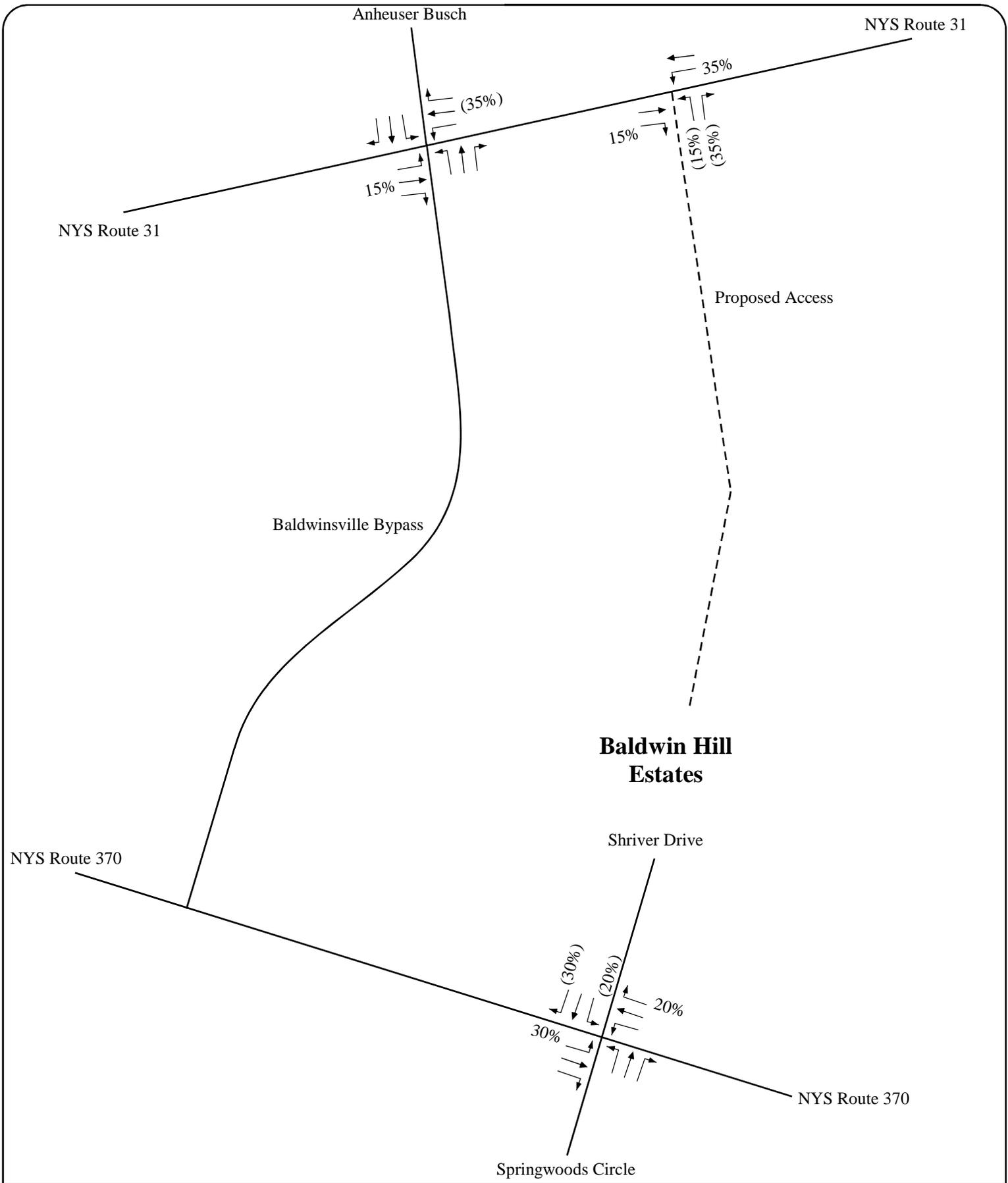


**Proposed Baldwin Hill Estates Expansion - Village of Baldwinsville, NY**  
 2028 Redistributed Traffic Volumes - With Proposed Connection to NYS Route 31  
 Weekday Morning (Evening) Peak Hour



Figure 6

Not To Scale



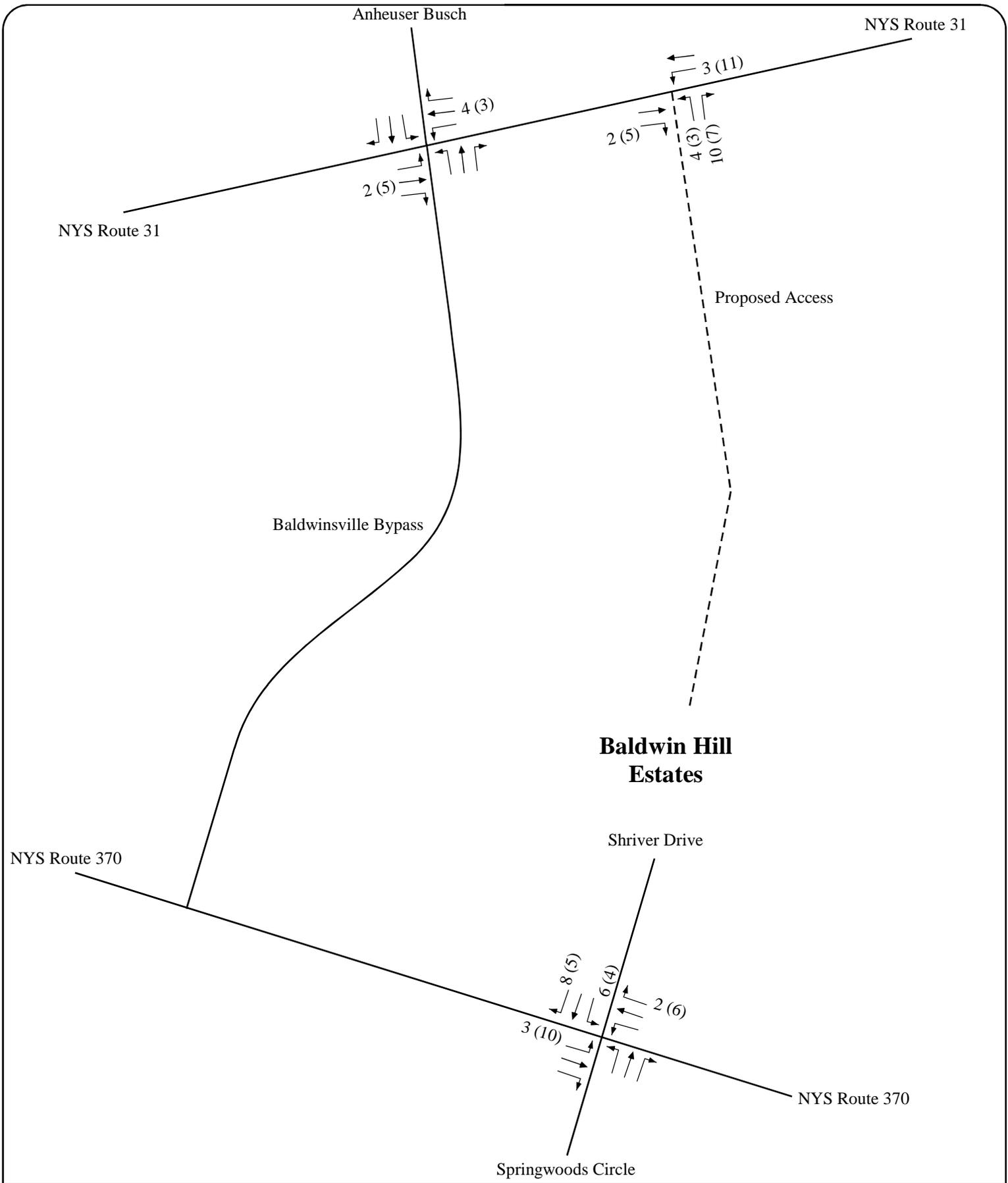
**Proposed Baldwin Hill Estates Expansion - Village of Baldwinsville, NY**

Arrival / Departure Trip Distribution  
 Entering (Exiting) Trip Percentage



Figure 7

Not To Scale



**Proposed Baldwin Hill Estates Expansion - Village of Baldwinsville, NY**

Trips Generated

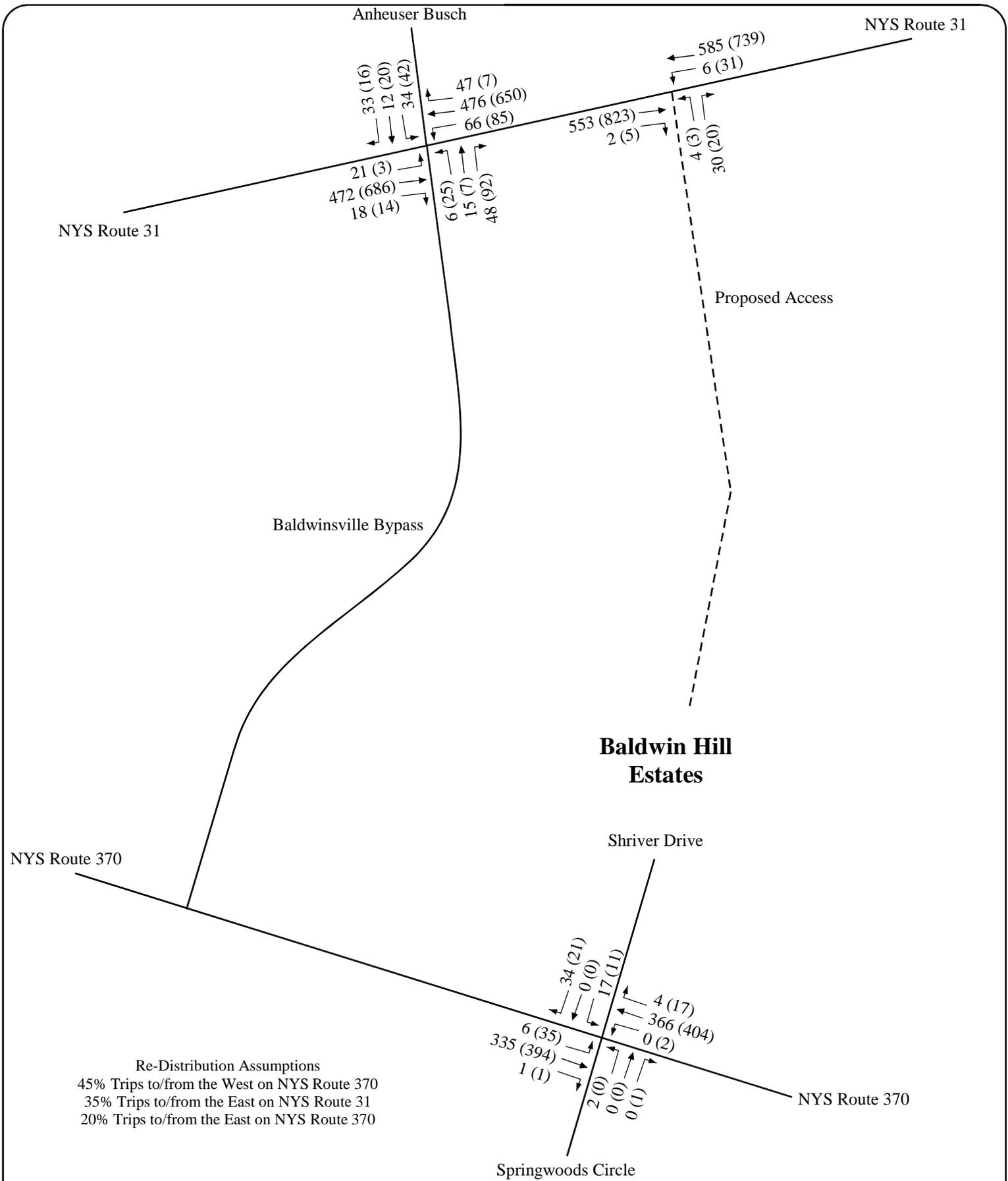
Weekday Morning (Evening) Peak Hour



**GTS Consulting**

Figure 8

Not To Scale



**Re-Distribution Assumptions**  
 45% Trips to/from the West on NYS Route 370  
 35% Trips to/from the East on NYS Route 31  
 20% Trips to/from the East on NYS Route 370

**Proposed Baldwin Hill Estates Expansion - Village of Baldwinsville, NY**

2028 Build Traffic Volumes

Weekday Morning (Evening) Peak Hour



Figure 9

Not To Scale

## Intersection Gap Study

Project: Proposed Baldwin Hill Estates Expansion - Village of Baldwinsville, NY  
 Date: 10/30/2025



Intersection: Site Access @ NYS Route 31  
 Movement: Right Turns Exiting / Left Turns Entering

Time Interval		6-9 sec x 1	10-13 sec x 2	14-17 sec x 3	18-19 sec x 4	20-23 sec x 5	24-25 sec x 6	26-29 sec x 7	>29 sec x 8	Interval Total	Hour Total
<b>Morning Peak Hour</b>											
7:00-7:15am	# of Gaps	10	5	5	3	2	0	3	5		
	<b># of Vehicles</b>	<b>10</b>	<b>10</b>	<b>15</b>	<b>12</b>	<b>10</b>	<b>0</b>	<b>21</b>	<b>40</b>	<b>118</b>	
7:15-7:30am	# of Gaps	8	2	3	0	3	1	1	10		
	<b># of Vehicles</b>	<b>8</b>	<b>4</b>	<b>9</b>	<b>0</b>	<b>15</b>	<b>6</b>	<b>7</b>	<b>80</b>	<b>129</b>	
7:30-7:45am	# of Gaps	11	1	1	1	6	2	2	5		
	<b># of Vehicles</b>	<b>11</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>30</b>	<b>12</b>	<b>14</b>	<b>40</b>	<b>116</b>	
7:45-8:00am	# of Gaps	10	8	4	4	4	3	3	2		
	<b># of Vehicles</b>	<b>10</b>	<b>16</b>	<b>12</b>	<b>16</b>	<b>20</b>	<b>18</b>	<b>21</b>	<b>16</b>	<b>129</b>	<b>492</b>

### Evening Peak Hour

4:00-4:15pm	# of Gaps	14	5	3	1	0	1	2	1		
	<b># of Vehicles</b>	<b>14</b>	<b>10</b>	<b>9</b>	<b>4</b>	<b>0</b>	<b>6</b>	<b>14</b>	<b>8</b>	<b>65</b>	
4:15-4:30pm	# of Gaps	17	12	4	1	1	0	2	1		
	<b># of Vehicles</b>	<b>17</b>	<b>24</b>	<b>12</b>	<b>4</b>	<b>5</b>	<b>0</b>	<b>14</b>	<b>8</b>	<b>84</b>	
4:30-4:45pm	# of Gaps	11	4	5	1	6	0	1	2		
	<b># of Vehicles</b>	<b>11</b>	<b>8</b>	<b>15</b>	<b>4</b>	<b>30</b>	<b>0</b>	<b>7</b>	<b>16</b>	<b>91</b>	
4:45-5:00pm	# of Gaps	15	8	6	2	2	1	1	1		
	<b># of Vehicles</b>	<b>15</b>	<b>16</b>	<b>18</b>	<b>8</b>	<b>10</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>88</b>	<b>328</b>

## Intersection Gap Study

Project: Proposed Baldwin Hill Estates Expansion - Village of Baldwinsville, NY  
 Date: 10/30/2025



Intersection: Site Access @ NYS Route 31  
 Movement: Left Turns Exiting

Time Interval		6-9 sec x 1	10-13 sec x 2	14-17 sec x 3	18-19 sec x 4	20-23 sec x 5	24-25 sec x 6	26-29 sec x 7	>29 sec x 8	Interval Total	Hour Total
<b>Morning Peak Hour</b>											
7:00-7:15am	# of Gaps	19	5	2	1	1	0	0	0		
	<b># of Vehicles</b>	<b>19</b>	<b>10</b>	<b>6</b>	<b>4</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>44</b>	
7:15-7:30am	# of Gaps	10	4	3	3	1	0	0	2		
	<b># of Vehicles</b>	<b>10</b>	<b>8</b>	<b>9</b>	<b>12</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>60</b>	
7:30-7:45am	# of Gaps	17	3	5	2	2	0	0	0		
	<b># of Vehicles</b>	<b>17</b>	<b>6</b>	<b>15</b>	<b>8</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>56</b>	
7:45-8:00am	# of Gaps	17	6	6	1	1	0	0	0		
	<b># of Vehicles</b>	<b>17</b>	<b>12</b>	<b>18</b>	<b>4</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>56</b>	<b>216</b>

### Evening Peak Hour

4:00-4:15pm	# of Gaps	5	5	1	1	1	0	0	1		
	<b># of Vehicles</b>	<b>5</b>	<b>10</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>35</b>	
4:15-4:30pm	# of Gaps	7	7	3	0	0	0	0	0		
	<b># of Vehicles</b>	<b>7</b>	<b>14</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>	
4:30-4:45pm	# of Gaps	14	5	1	0	0	0	1	0		
	<b># of Vehicles</b>	<b>14</b>	<b>10</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>34</b>	
4:45-5:00pm	# of Gaps	12	8	0	1	0	0	0	0		
	<b># of Vehicles</b>	<b>12</b>	<b>16</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>32</b>	<b>131</b>

## Intersection Gap Study

Project: Proposed Baldwin Hill Estates Expansion - Village of Baldwinsville, NY  
 Date: 10/30/2025



Intersection: Shriver Road @ NYS Route 370  
 Movement: Right Turns Exiting / Left Turns Entering

Time Interval		6-9 sec x 1	10-13 sec x 2	14-17 sec x 3	18-19 sec x 4	20-23 sec x 5	24-25 sec x 6	26-29 sec x 7	>29 sec x 8	Interval Total	Hour Total
<b>Morning Peak Hour</b>											
7:00-7:15am	# of Gaps	14	3	5	1	2	1	1	5		
	<b># of Vehicles</b>	<b>14</b>	<b>6</b>	<b>15</b>	<b>4</b>	<b>10</b>	<b>6</b>	<b>7</b>	<b>40</b>	<b>102</b>	
7:15-7:30am	# of Gaps	8	9	5	2	5	2	1	4		
	<b># of Vehicles</b>	<b>8</b>	<b>18</b>	<b>15</b>	<b>8</b>	<b>25</b>	<b>12</b>	<b>7</b>	<b>32</b>	<b>125</b>	
7:30-7:45am	# of Gaps	6	6	9	3	3	1	2	8		
	<b># of Vehicles</b>	<b>6</b>	<b>12</b>	<b>27</b>	<b>12</b>	<b>15</b>	<b>6</b>	<b>14</b>	<b>64</b>	<b>156</b>	
7:45-8:00am	# of Gaps	9	9	2	3	4	1	0	6		
	<b># of Vehicles</b>	<b>9</b>	<b>18</b>	<b>6</b>	<b>12</b>	<b>20</b>	<b>6</b>	<b>0</b>	<b>48</b>	<b>119</b>	<b>502</b>

### Evening Peak Hour

4:00-4:15pm	# of Gaps	13	7	8	1	5	1	0	4		
	<b># of Vehicles</b>	<b>13</b>	<b>14</b>	<b>24</b>	<b>4</b>	<b>25</b>	<b>6</b>	<b>0</b>	<b>32</b>	<b>118</b>	
4:15-4:30pm	# of Gaps	18	9	8	3	3	0	1	4		
	<b># of Vehicles</b>	<b>18</b>	<b>18</b>	<b>24</b>	<b>12</b>	<b>15</b>	<b>0</b>	<b>7</b>	<b>32</b>	<b>126</b>	
4:30-4:45pm	# of Gaps	17	6	5	1	6	2	1	2		
	<b># of Vehicles</b>	<b>17</b>	<b>12</b>	<b>15</b>	<b>4</b>	<b>30</b>	<b>12</b>	<b>7</b>	<b>16</b>	<b>113</b>	
4:45-5:00pm	# of Gaps	20	4	10	1	2	0	2	3		
	<b># of Vehicles</b>	<b>20</b>	<b>8</b>	<b>30</b>	<b>4</b>	<b>10</b>	<b>0</b>	<b>14</b>	<b>24</b>	<b>110</b>	<b>467</b>

## Intersection Gap Study

Project: Proposed Baldwin Hill Estates Expansion - Village of Baldwinsville, NY  
 Date: 10/30/2025



Intersection: Shriver Road @ NYS Route 370  
 Movement: Left Turns Exiting

Time Interval		6-9 sec x 1	10-13 sec x 2	14-17 sec x 3	18-19 sec x 4	20-23 sec x 5	24-25 sec x 6	26-29 sec x 7	>29 sec x 8	Interval Total	Hour Total
<b>Morning Peak Hour</b>											
7:00-7:15am	# of Gaps	15	7	4	2	1	2	1	1		
	<b># of Vehicles</b>	<b>15</b>	<b>14</b>	<b>12</b>	<b>8</b>	<b>5</b>	<b>12</b>	<b>7</b>	<b>8</b>	<b>81</b>	
7:15-7:30am	# of Gaps	12	9	6	2	6	0	0	1		
	<b># of Vehicles</b>	<b>12</b>	<b>18</b>	<b>18</b>	<b>8</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>94</b>	
7:30-7:45am	# of Gaps	26	8	8	2	0	0	1	0		
	<b># of Vehicles</b>	<b>26</b>	<b>16</b>	<b>24</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>81</b>	
7:45-8:00am	# of Gaps	13	14	3	0	1	0	1	2		
	<b># of Vehicles</b>	<b>13</b>	<b>28</b>	<b>9</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>7</b>	<b>16</b>	<b>78</b>	<b>334</b>

### Evening Peak Hour

4:00-4:15pm	# of Gaps	20	8	5	1	1	0	1	2		
	<b># of Vehicles</b>	<b>20</b>	<b>16</b>	<b>15</b>	<b>4</b>	<b>5</b>	<b>0</b>	<b>7</b>	<b>16</b>	<b>83</b>	
4:15-4:30pm	# of Gaps	23	14	3	1	1	0	1	0		
	<b># of Vehicles</b>	<b>23</b>	<b>28</b>	<b>9</b>	<b>4</b>	<b>5</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>76</b>	
4:30-4:45pm	# of Gaps	17	4	2	2	2	1	0	1		
	<b># of Vehicles</b>	<b>17</b>	<b>8</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>6</b>	<b>0</b>	<b>8</b>	<b>63</b>	
4:45-5:00pm	# of Gaps	28	4	2	0	1	0	1	0		
	<b># of Vehicles</b>	<b>28</b>	<b>8</b>	<b>6</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>54</b>	<b>276</b>

**Proposed Baldwin Hill Estates Expansion - Village of Baldwinsville, NY**

Speed Study Measurements - NYS Route 31 Passing Site

10/30/2025

Distance Travelled (ft) = 145      50 Speed Measurements per Direction      Speed Limit 45 mph

EB Time Seconds	Calculated Speed	EB Time Seconds	Calculated Speed	WB Time Seconds	Calculated Speed	WB Time Seconds	Calculated Speed
2.42	41	2.03	49	2.31	43	2.04	48
2.37	42	2.02	49	2.3	43	2.04	48
2.28	43	2	49	2.28	43	2.03	49
2.28	43	2	49	2.25	44	2.03	49
2.25	44	1.97	50	2.25	44	2.03	49
2.25	44	1.97	50	2.25	44	2	49
2.22	45	1.96	50	2.25	44	1.98	50
2.22	45	1.94	51	2.22	45	1.97	50
2.22	45	1.94	51	2.19	45	1.97	50
2.19	45	1.94	51	2.18	45	1.97	50
2.16	46	1.94	51	2.18	45	1.94	51
2.13	46	1.93	51	2.16	46	1.94	51
2.13	46	1.93	51	2.15	46	1.94	51
2.09	47	1.92	51	2.14	46	1.94	51
2.09	47	1.91	52	2.13	46	1.94	51
2.09	47	1.91	52	2.12	47	1.91	52
2.06	48	1.9	52	2.12	47	1.91	52
2.06	48	1.89	52	2.1	47	1.91	52
2.06	48	1.87	53	2.1	47	1.9	52
2.06	48	1.87	53	2.1	47	1.88	53
2.05	48	1.83	54	2.09	47	1.85	53
2.04	48	1.82	54	2.07	48	1.85	53
2.04	48	1.82	54	2.06	48	1.85	53
2.03	49	1.81	55	2.06	48	1.7	58
2.03	49	1.67	59	2.06	48	1.65	60

Eastbound

Average Speed = 49 mph

85th Percentile Speed = 52.5 mph

Westbound

Average Speed = 49 mph

85th Percentile Speed = 52 mph

**Proposed Baldwin Hill Estates Expansion - Village of Baldwinsville, NY**

Speed Study Measurements - NYS Route 370 Passing Site

10/30/2025

Distance Travelled (ft) = 115      50 Speed Measurements per Direction      Speed Limit 40 mph

<b>EB Time Seconds</b>	<b>Calculated Speed</b>	<b>EB Time Seconds</b>	<b>Calculated Speed</b>	<b>WB Time Seconds</b>	<b>Calculated Speed</b>	<b>WB Time Seconds</b>	<b>Calculated Speed</b>
2.1	37	1.9	41	2.13	37	1.91	41
2.1	37	1.9	41	2.1	37	1.9	41
2.07	38	1.88	42	2.1	37	1.90	41
2.06	38	1.88	42	2.06	38	1.9	41
2.03	39	1.88	42	2.06	38	1.88	42
2.03	39	1.86	42	2.03	39	1.87	42
2.03	39	1.85	42	2.02	39	1.87	42
2.01	39	1.85	42	2.02	39	1.85	42
2.01	39	1.85	42	2.02	39	1.85	42
2.01	39	1.84	43	2.02	39	1.85	42
2.00	39	1.83	43	2.01	39	1.85	42
2.00	39	1.82	43	2	39	1.85	42
2	39	1.82	43	2	39	1.84	43
2	39	1.81	43	2	39	1.82	43
1.97	40	1.79	44	2	39	1.82	43
1.97	40	1.79	44	2	39	1.82	43
1.97	40	1.75	45	1.97	40	1.81	43
1.97	40	1.72	46	1.97	40	1.81	43
1.96	40	1.72	46	1.96	40	1.81	43
1.96	40	1.7	46	1.94	40	1.79	44
1.94	40	1.67	47	1.94	40	1.79	44
1.93	41	1.66	47	1.94	40	1.78	44
1.91	41	1.65	48	1.94	40	1.75	45
1.91	41	1.63	48	1.93	41	1.72	46
1.91	41	1.5	52	1.91	41	1.63	48

Eastbound

Average Speed = 42 mph

85th Percentile Speed = 45.5 mph

Westbound

Average Speed = 41 mph

85th Percentile Speed = 43 mph

## Background Traffic Growth Calculations

### Proposed Baldwin Hill Estates Expansion - Village of Baldwinsville, NY

Historical Traffic Counts Taken from the NYSDOT Traffic Data Viewer Website

#### NYS Route 31 - Between Start Routes 31/631 Overlap and End Routes 31/631 Overlap

2024	2021	2018	2015
15,187 veh	15,098 veh	15,766 veh	15,479 veh
+0.2% per year		-3.9% per year	
-0.6% per year		+0.6% per year	
-0.2% per year			

#### NYS Route 370 - Between Routes 31/370 Overlap to River Road

2024	2021	2018	2015
7,496 veh	6,577 veh	7,309 veh	7,410 veh
+4.7% per year		-3.3% per year	
+0.4% per year		-0.5% per year	
+0.1% per year			

#### Baldwinsville Bypass - Between Route 31 and Route 370

2024	2021	2018	2015
2,400 veh	2,426 veh	2,342 veh	2,171 veh
-0.4% per year		+1.2% per year	
+0.4% per year		+2.6% per year	
+1.2% per year			

**Use +1.0% annual growth for traffic projections**

# Proposed Baldwin Hill Estates Expansion Village of Baldwinsville, NY

## Trip Generation Estimate

Existing Development                      111 Single Family Homes

Proposed Additional Development                      54 Single Family Homes

Existing Traffic Generated                      Morning Peak Hour - 8 Entering / 55 Exiting    Evening Peak hour - 54 Entering / 35 Exiting

### *ITE Trip Generation - 11th Edition*

#### *Land Use 210 - Single-Family Detached Housing*

AM Peak Hour	0.70 Trips/Unit	26% Enter	74% Exit
PM Peak Hour	0.94 Trips/Unit	63% Enter	37% Exit

### Trip Generation Estimate - Existing Development

Development	Size	Weekday Morning Peak Hour			Weekday Evening Peak Hour		
		Total Trips	Entering	Exiting	Total Trips	Entering	Exiting
Existing Development	111 Homes	78	20	58	104	65	39

*ITE Trip Generation Estimate More Conservative than Existing Traffic Generation, Use ITE for Proposed Estimates*

### Trip Generation Estimate - Proposed Development

Development	Size	Weekday Morning Peak Hour			Weekday Evening Peak Hour		
		Total Trips	Entering	Exiting	Total Trips	Entering	Exiting
Proposed Development	54 Homes	38	10	28	51	32	19

**Proposed Baldwin Hill Estates Expansion - Village of Baldwinsville, NY  
Accident History Summaries - January 1 2022 Through December 31, 2024**

Accident #	Date	Location	Type	# Cars	Severity	Direction	Conditions	Contributing Factors
1	4/22/2022	Rt 31 - 263' W of Willet	Rearend	2	PDO	WB / WB Stopped	Dry	Following Too Closely
2	6/3/2022	Baldwinsville Bypss @ Rt 31	Rearend	2	INJ	WB / WB Stopped	Dry	Alcohol Involvement
3	10/26/2022	Baldwinsville Bypss @ Rt 31	Rearend	2	PDO	EB / EB Stopped	Dry	Following Too Closely
4	3/8/2023	Baldwinsville Bypss @ Rt 31	Rearend	2	PDO	EB / EB Stopped	Dry	Following Too Closely
5	7/17/2023	Baldwinsville Bypss @ Rt 31	Right Angle	2	PDO	EB Left / SB	Dry	Traffic Control Disregarded
6	10/2/2023	Rt 31 - 0.1mi W of Loop Rd	Fixed Object	1	PDO	WB / Tree	Dry	Lost Control (Coughing)
7	10/22/2023	P-Lot - 2964 Rt 31	Backing	2	PDO	NB Backing / SB Parked	Wet	Backing Unsafely
8	3/8/2024	Baldwinsville Bypss @ Rt 31	Rearend	2	PDO	WB / WB Stopped	Dry	Unsafe Speed
9	5/21/2024	Baldwinsville Bypss @ Rt 31	Rearend	2	INJ	WB / WB Stopped	Dry	Following Too Closely
10	6/17/2024	Rt 31 - 528' W of Loop Rd	Fixed Object	1	INJ	EB / Guide Rail	Dry	Drugs
11	10/8/2024	Rt 31 - 528' E of Bypass	Rearend	2	PDO	WB / WB Stopped	Wet	Following Too Closely
12	11/10/2024	Baldwinsville Bypss @ Rt 31	Rearend	2	PDO	EB / EB Stopped	Wet	Following Too Closely
13	11/27/2024	Baldwinsville Bypss @ Rt 31	Left Turn	2	PDO	NB Left / SB	Dry	Failure to Yield ROW
14	12/5/2024	Rt 31 - 528' E of Bypass	Rearend	2	PDO	EB / EB	Icy	Following Too Closely
15	2/12/2024	Bypass - 1000' N of Rt 370	Fixed Object	1	PDO	SB / Sign	Dry	Distracted Driver
16	3/23/2024	Bypass - 200' S of Rt 31	Animal	1	PDO	NB / Deer	Icy	Animal's Actions
17	5/23/2024	Baldwinsville Bypss @ Rt 31	Right Turn	2	PDO	NB Right / NB Right	Dry	Turning Improper
18	8/5/2024	Bypass - 1000' N of Rt 370	Animal	1	PDO	NB / Deer	Dry	Animal's Actions
19	12/16/2023	Rt 370 - 100' E of Shriver	Backing	2	INJ	SB Backing / EB	Dry	Backing Unsafely
20	7/15/2024	Shriver @ Rt 370	Left Turn	2	PDO	EB Left / SB Stopped	Dry	Turning Improper

NYS Rt 31 @ Baldwinsville Bypass - 9 Accidents

- 6 - Rearend Accidents
- 1 - Right Angle Accident
- 1 - Left Turn Accident
- 1 - Right Turn Accident

NY Rt 370 @ Shriver Drive - 1 Accident

- 1 - Left Turn Accident

Midblock Bypass - 3 Accidents

- 2 - Animal Related Accidents
- 1 - Fixed Object Accident

Midblock NYS Route 31 - 5 Accidents

- 3 - Rearend Accidents
- 2 - Fixed Object Accidents

- 1 accident on NYS Route 370 included in data - Backing
- 1 accident in area parking lots included in data - Backing

NYS Rt 31 @ Baldwinsville Bypass Intersection - Evening Peak Hour - 1338 Veh EW / 204 Veh NS. Assumed PM Peak is 9% of AADT, AADT = 14867 Veh EW / 2267 Veh N/S

NY Rt 370 @ Shriver Drive Intersection - Evening Peak Hour - 744 Veh EW / 36 Veh NS. Assumed PM Peak is 9% of AADT, AADT = 8267 Veh EW / 400 Veh N/S

**Intersection Accident Severity**

**NYS Rt 31 @ Baldwinsville Bypass - 9 Accidents**

9 Total Accidents

2 Injury Accidents / 0 Fatality Accidents

**Not a Severe Accident Location**

NYS DOT Safety Performance Function = 2.89 Accidents/Year

NYS DOT Safety Performance Function = 1.19 Accidents/Year

Calculated Rate = 3.00 Accidents/Year

Calculated Rate = 0.66 Accidents/Year

**Basic  
LOSS**

**3**

**2**

**NY Rt 370 @ Shriver Drive - 1 Accident**

1 Total Accidents

0 Injury Accidents / 0 Fatality Accidents

**Not a Severe Accident Location**

NYS DOT Safety Performance Function = 0.83 Accidents/Year

NYS DOT Safety Performance Function = 0.29 Accidents/Year

Calculated Rate = 0.33 Accidents/Year

Calculated Rate = 0.00 Accidents/Year

**2**

**2**

**Hourly Direction Report NYSDOT\_SC 330252000000 Tuesday, June 10, 2025 to Wednesday, June 11, 2025**

Site Name 330252  
 Site ID 330252000000  
 Description NY31 from START 31/631 OLAP to END 31/631 OLAP  
 Region 3  
 County Onondaga  
 DOTID 100280  
 County Order 9

Exclude data: None

Time	EB	WB	Total
00:00:00	28	24	52
01:00:00	13	16	29
02:00:00	11	12	23
03:00:00	28	11	38
04:00:00	32	31	63
05:00:00	99	88	188
06:00:00	229	268	496
07:00:00	506	557	1064
08:00:00	532	550	1082
09:00:00	532	496	1027
10:00:00	574	526	1100
11:00:00	590	600	1190
12:00:00	597	583	1180
13:00:00	564	570	1134
14:00:00	600	684	1284
15:00:00	757	659	1416
16:00:00	748	714	1462
17:00:00	680	738	1417
18:00:00	534	654	1188
19:00:00	500	469	970
20:00:00	453	414	866
21:00:00	194	241	436
22:00:00	86	126	212
23:00:00	76	60	136
7am-7pm	7214	7330	14544
6am-10pm	8591	8720	17312
6am-12am	8753	8907	17660
12am-12am	8964	9089	18053
am Peak	11:00:00	11:00:00	11:00:00
Peak Volume	590	600	1190
pm Peak	15:00:00	17:00:00	16:00:00
Peak Volume	757	738	1462

**Hourly Direction Report NYSDOT\_SC 330203000000 Tuesday, September 23, 2025 to Thursday, September 25, 2025**

Site Name 330203  
 Site ID 330203000000  
 Description NY370 from END NY31/NY370 OLAP to RIVER RD COLD SPRINGS  
 Region 3  
 County Onondaga  
 DOTID 100340  
 County Order 3

Exclude data: None

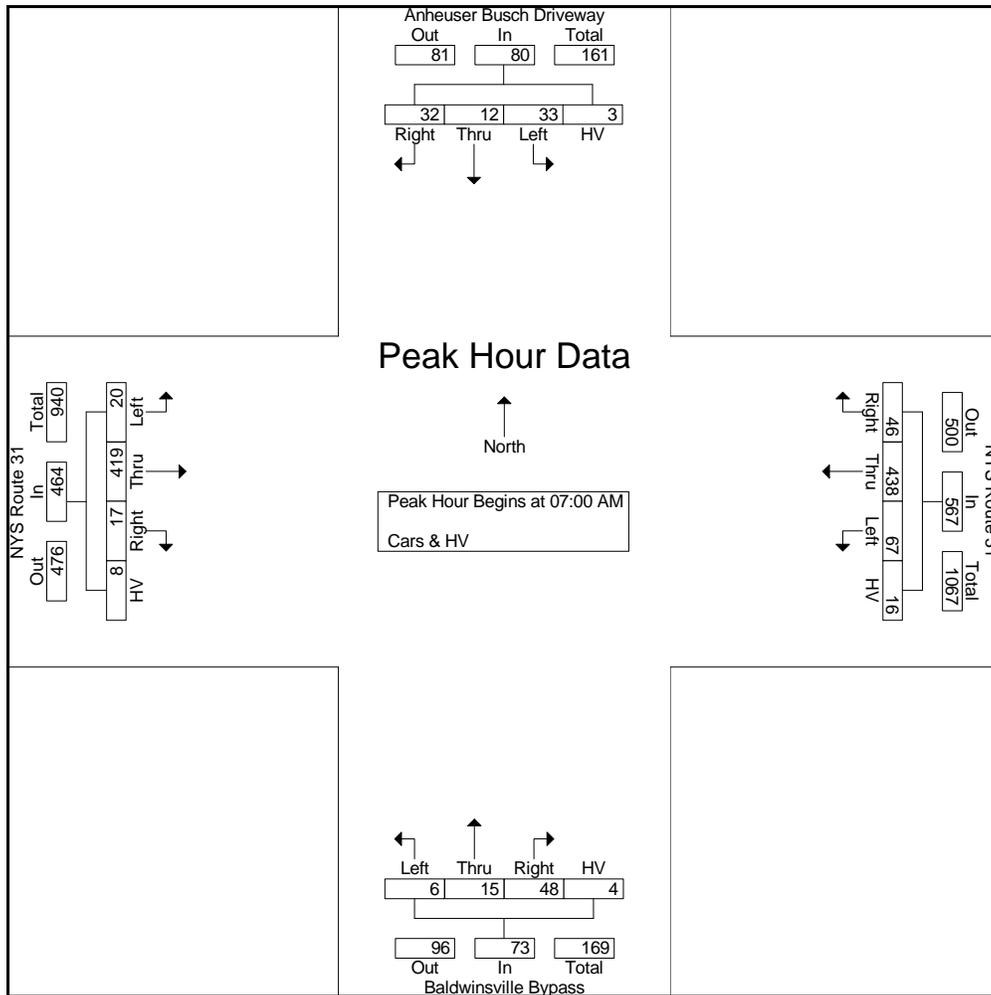
Time	EB	WB	Total
00:00:00	13	14	27
01:00:00	10	7	17
02:00:00	5	8	14
03:00:00	9	24	32
04:00:00	16	27	43
05:00:00	83	55	138
06:00:00	171	123	295
07:00:00	317	269	586
08:00:00	286	233	519
09:00:00	219	178	396
10:00:00	191	169	360
11:00:00	211	188	399
12:00:00	190	192	382
13:00:00	212	207	419
14:00:00	262	263	525
15:00:00	313	342	655
16:00:00	322	376	698
17:00:00	284	384	668
18:00:00	231	253	484
19:00:00	198	185	383
20:00:00	137	113	250
21:00:00	79	79	158
22:00:00	33	46	79
23:00:00	33	24	56
7am-7pm	3037	3053	6090
6am-10pm	3622	3554	7176
6am-12am	3688	3623	7311
12am-12am	3824	3757	7581
am Peak	7:00:00	7:00:00	7:00:00
Peak Volume	317	269	586
pm Peak	16:00:00	17:00:00	16:00:00
Peak Volume	322	384	698

File Name : Route 31 @ Bladwinville Bypass  
 Site Code : 00000001  
 Start Date : 10/30/2025  
 Page No : 1

Groups Printed- Cars & HV

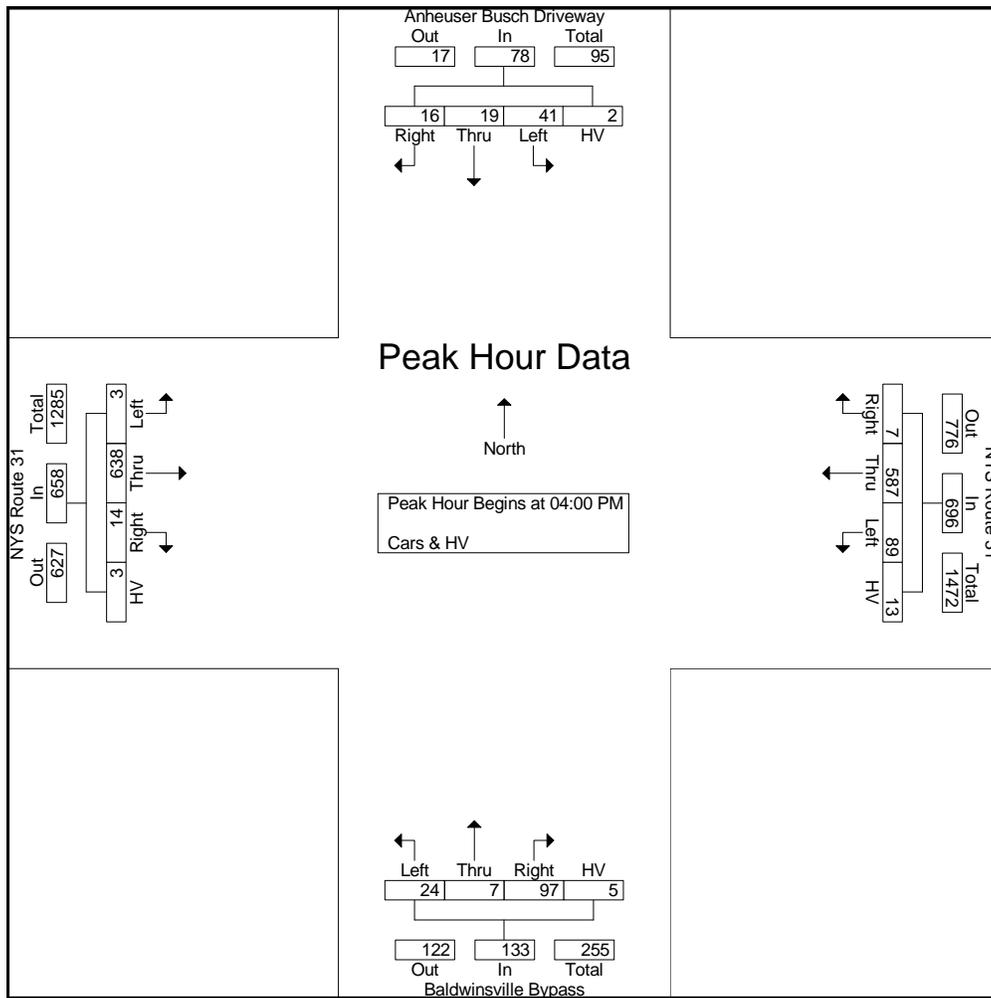
Start Time	Anheuser Busch Driveway Southbound				NYS Route 31 Westbound				Baldwinville Bypass Northbound				NYS Route 31 Eastbound				Int. Total
	Right	Thru	Left	HV	Right	Thru	Left	HV	Right	Thru	Left	HV	Right	Thru	Left	HV	
07:00 AM	21	9	26	1	10	126	17	1	8	3	1	0	1	94	1	1	320
07:15 AM	5	2	1	0	8	110	17	4	9	1	0	1	6	89	1	4	258
07:30 AM	3	1	3	0	12	92	14	6	15	3	1	1	5	132	9	2	299
07:45 AM	3	0	3	2	16	110	19	5	16	8	4	2	5	104	9	1	307
Total	32	12	33	3	46	438	67	16	48	15	6	4	17	419	20	8	1184
08:00 AM	5	6	4	0	4	101	18	5	22	4	0	0	3	96	3	2	273
08:15 AM	3	2	7	1	1	141	25	5	13	2	0	0	4	103	2	0	309
08:30 AM	1	0	3	0	1	111	10	1	16	1	1	1	4	115	1	1	267
08:45 AM	0	0	4	1	4	102	10	5	23	1	2	2	4	132	1	0	291
Total	9	8	18	2	10	455	63	16	74	8	3	3	15	446	7	3	1140
04:00 PM	8	6	12	0	3	140	19	7	34	4	5	2	7	183	1	1	432
04:15 PM	5	6	17	0	1	149	24	2	20	1	3	1	1	171	0	1	402
04:30 PM	1	3	8	2	2	140	26	3	16	2	4	1	1	141	1	0	351
04:45 PM	2	4	4	0	1	158	20	1	27	0	12	1	5	143	1	1	380
Total	16	19	41	2	7	587	89	13	97	7	24	5	14	638	3	3	1565
05:00 PM	1	2	6	2	3	173	26	4	10	0	5	1	3	137	0	0	373
05:15 PM	1	1	3	1	0	176	21	0	24	1	7	1	2	141	3	2	384
05:30 PM	2	0	3	1	3	143	22	2	17	0	1	1	4	169	1	0	369
05:45 PM	2	0	5	1	3	149	14	2	25	0	6	1	6	146	0	1	361
Total	6	3	17	5	9	641	83	8	76	1	19	4	15	593	4	3	1487
Grand Total	63	42	109	12	72	2121	302	53	295	31	52	16	61	2096	34	17	5376
Apprch %	27.9	18.6	48.2	5.3	2.8	83.2	11.9	2.1	74.9	7.9	13.2	4.1	2.8	94.9	1.5	0.8	
Total %	1.2	0.8	2	0.2	1.3	39.5	5.6	1	5.5	0.6	1	0.3	1.1	39	0.6	0.3	

Start Time	Anheuser Busch Driveway Southbound					NYS Route 31 Westbound					Baldwinville Bypass Northbound					NYS Route 31 Eastbound					Int. Total
	Right	Thru	Left	HV	App. Total	Right	Thru	Left	HV	App. Total	Right	Thru	Left	HV	App. Total	Right	Thru	Left	HV	App. Total	
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	21	9	26	1	57	10	126	17	1	154	8	3	1	0	12	1	94	1	1	97	320
07:15 AM	5	2	1	0	8	8	110	17	4	139	9	1	0	1	11	6	89	1	4	100	258
07:30 AM	3	1	3	0	7	12	92	14	6	124	15	3	1	1	20	5	132	9	2	148	299
07:45 AM	3	0	3	2	8	16	110	19	5	150	16	8	4	2	30	5	104	9	1	119	307
Total Volume	32	12	33	3	80	46	438	67	16	567	48	15	6	4	73	17	419	20	8	464	1184
% App. Total	40	15	41.2	3.8		8.1	77.2	11.8	2.8		65.8	20.5	8.2	5.5		3.7	90.3	4.3	1.7		
PHF	.381	.333	.317	.375	.351	.719	.869	.882	.667	.920	.750	.469	.375	.500	.608	.708	.794	.556	.500	.784	.925



Start Time	Anheuser Busch Driveway Southbound					NYS Route 31 Westbound					Bladwinsville Bypass Northbound					NYS Route 31 Eastbound					Int. Total
	Right	Thru	Left	HV	App. Total	Right	Thru	Left	HV	App. Total	Right	Thru	Left	HV	App. Total	Right	Thru	Left	HV	App. Total	
04:00 PM	8	6	12	0	26	3	140	19	7	169	34	4	5	2	45	7	183	1	1	192	432
04:15 PM	5	6	17	0	28	1	149	24	2	176	20	1	3	1	25	1	171	0	1	173	402
04:30 PM	1	3	8	2	14	2	140	26	3	171	16	2	4	1	23	1	141	1	0	143	351
04:45 PM	2	4	4	0	10	1	158	20	1	180	27	0	12	1	40	5	143	1	1	150	380
Total Volume	16	19	41	2	78	7	587	89	13	696	97	7	24	5	133	14	638	3	3	658	1565
% App. Total	20.5	24.4	52.6	2.6		1	84.3	12.8	1.9		72.9	5.3	18	3.8		2.1	97	0.5	0.5		
PHF	.500	.792	.603	.250	.696	.583	.929	.856	.464	.967	.713	.438	.500	.625	.739	.500	.872	.750	.750	.857	.906

Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1  
 Peak Hour for Entire Intersection Begins at 04:00 PM



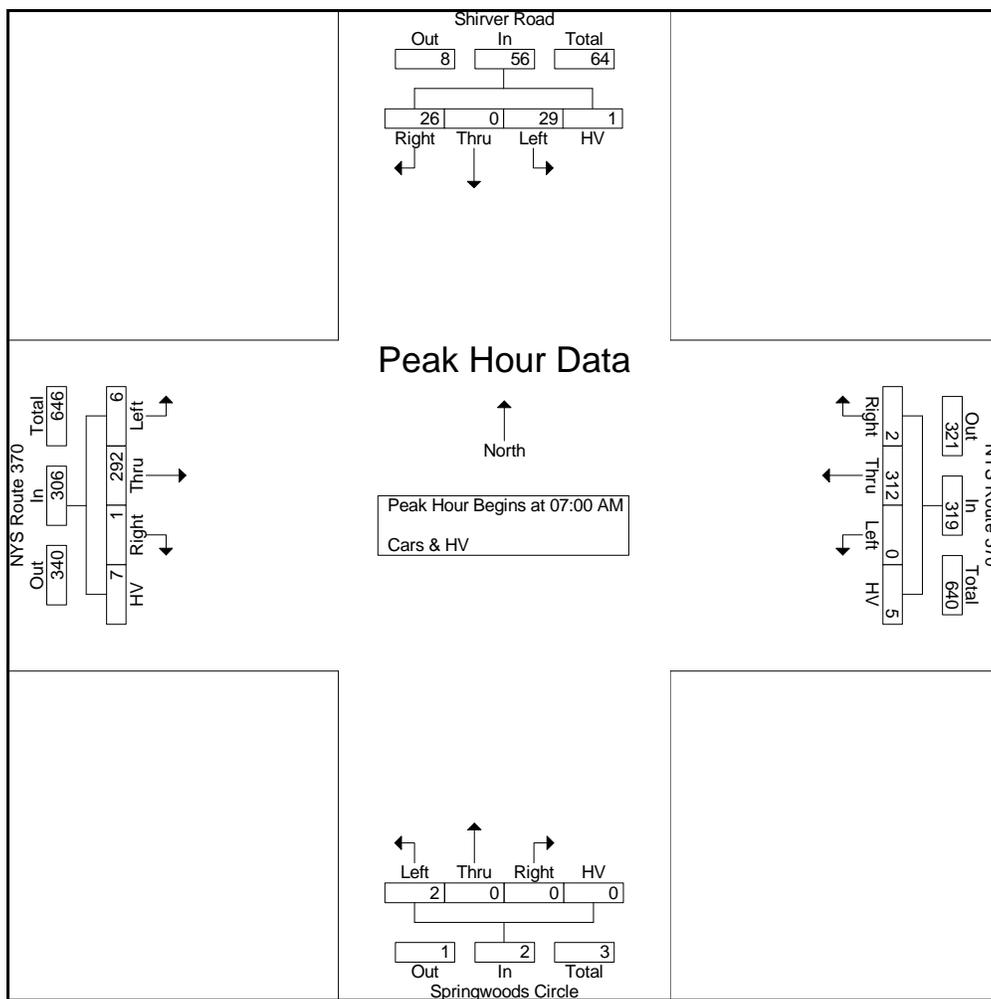


File Name : Route 370 @ Shriver - Springwoods  
 Site Code : 00000002  
 Start Date : 10/30/2025  
 Page No : 1

Groups Printed- Cars & HV

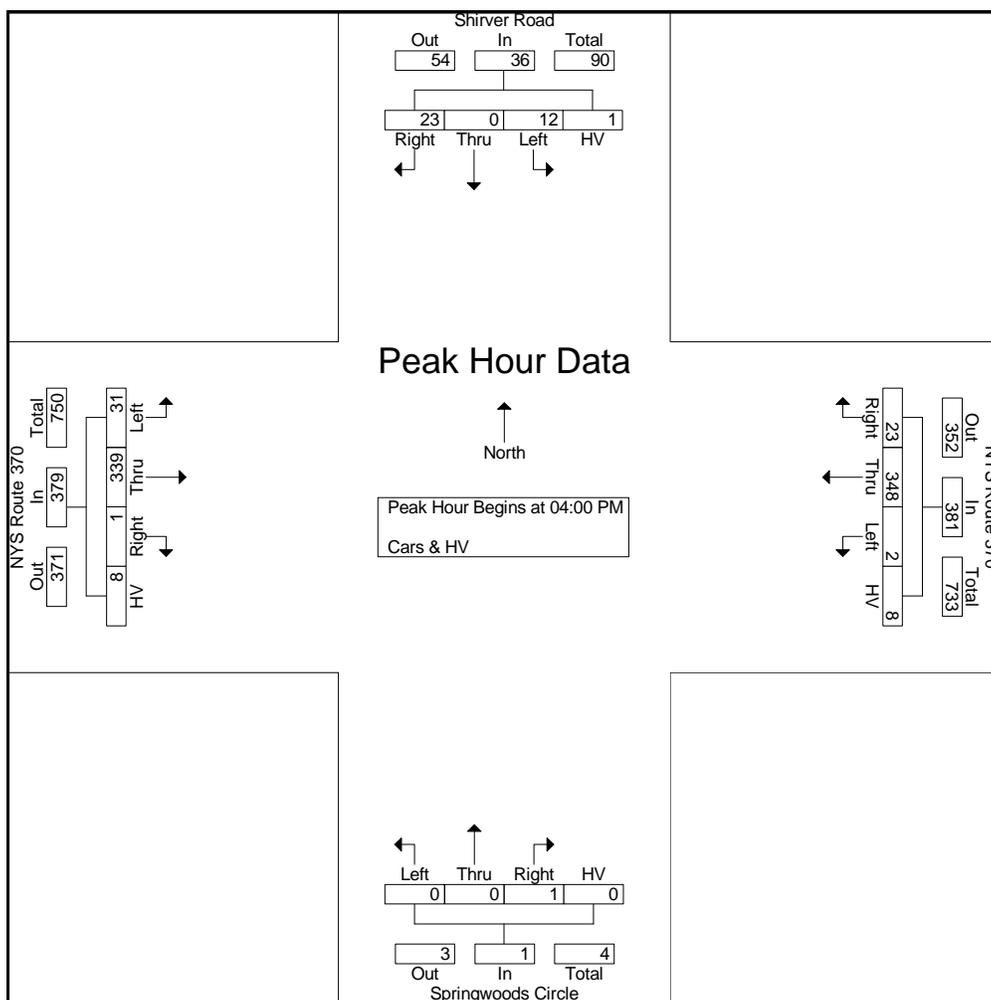
Start Time	Shriver Road Southbound				NYS Route 370 Westbound				Springwoods Circle Northbound				NYS Route 370 Eastbound				Int. Total
	Right	Thru	Left	HV	Right	Thru	Left	HV	Right	Thru	Left	HV	Right	Thru	Left	HV	
07:00 AM	12	0	7	1	1	104	0	0	0	0	0	0	0	60	1	0	186
07:15 AM	4	0	10	0	0	76	0	1	0	0	1	0	1	81	3	4	181
07:30 AM	6	0	5	0	1	56	0	2	0	0	1	0	0	76	1	2	150
07:45 AM	4	0	7	0	0	76	0	2	0	0	0	0	0	75	1	1	166
Total	26	0	29	1	2	312	0	5	0	0	2	0	1	292	6	7	683
08:00 AM	7	0	2	0	2	56	0	1	0	0	0	0	0	75	1	2	146
08:15 AM	5	0	8	0	0	72	0	1	0	0	0	0	0	70	4	2	162
08:30 AM	3	0	6	0	1	79	0	2	0	0	0	0	1	60	3	0	155
08:45 AM	3	0	3	0	2	66	0	1	0	0	1	0	0	57	2	3	138
Total	18	0	19	0	5	273	0	5	0	0	1	0	1	262	10	7	601
04:00 PM	6	0	2	0	11	70	0	3	0	0	0	0	1	87	12	2	194
04:15 PM	4	0	2	0	4	87	2	3	1	0	0	0	0	66	7	2	178
04:30 PM	6	0	5	1	6	93	0	0	0	0	0	0	0	92	6	3	212
04:45 PM	7	0	3	0	2	98	0	2	0	0	0	0	0	94	6	1	213
Total	23	0	12	1	23	348	2	8	1	0	0	0	1	339	31	8	797
05:00 PM	2	0	7	0	7	80	0	1	0	0	0	0	0	96	9	0	202
05:15 PM	6	0	2	0	14	107	0	2	0	0	0	0	0	74	8	0	213
05:30 PM	7	0	4	0	5	79	0	0	0	0	0	0	0	79	7	0	181
05:45 PM	4	0	5	0	7	63	0	0	0	0	0	0	0	58	7	0	144
Total	19	0	18	0	33	329	0	3	0	0	0	0	0	307	31	0	740
Grand Total	86	0	78	2	63	1262	2	21	1	0	3	0	3	1200	78	22	2821
Apprch %	51.8	0	47	1.2	4.7	93.6	0.1	1.6	25	0	75	0	0.2	92.1	6	1.7	
Total %	3	0	2.8	0.1	2.2	44.7	0.1	0.7	0	0	0.1	0	0.1	42.5	2.8	0.8	

Start Time	Shriver Road Southbound					NYS Route 370 Westbound					Springwoods Circle Northbound					NYS Route 370 Eastbound					Int. Total
	Right	Thru	Left	HV	App. Total	Right	Thru	Left	HV	App. Total	Right	Thru	Left	HV	App. Total	Right	Thru	Left	HV	App. Total	
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	12	0	7	1	20	1	104	0	0	105	0	0	0	0	0	0	60	1	0	61	186
07:15 AM	4	0	10	0	14	0	76	0	1	77	0	0	1	0	1	1	81	3	4	89	181
07:30 AM	6	0	5	0	11	1	56	0	2	59	0	0	1	0	1	0	76	1	2	79	150
07:45 AM	4	0	7	0	11	0	76	0	2	78	0	0	0	0	0	0	75	1	1	77	166
Total Volume	26	0	29	1	56	2	312	0	5	319	0	0	2	0	2	1	292	6	7	306	683
% App. Total	46.4	0	51.8	1.8		0.6	97.8	0	1.6		0	0	100	0		0.3	95.4	2	2.3		
PHF	.542	.000	.725	.250	.700	.500	.750	.000	.625	.760	.000	.000	.500	.000	.500	.250	.901	.500	.438	.860	.918



Start Time	Shriver Road Southbound					NYS Route 370 Westbound					Springwoods Circle Northbound					NYS Route 370 Eastbound					Int. Total
	Right	Thru	Left	HV	App. Total	Right	Thru	Left	HV	App. Total	Right	Thru	Left	HV	App. Total	Right	Thru	Left	HV	App. Total	
04:00 PM	6	0	2	0	8	11	70	0	3	84	0	0	0	0	0	1	87	12	2	102	194
04:15 PM	4	0	2	0	6	4	87	2	3	96	1	0	0	0	1	0	66	7	2	75	178
04:30 PM	6	0	5	1	12	6	93	0	0	99	0	0	0	0	0	0	92	6	3	101	212
04:45 PM	7	0	3	0	10	2	98	0	2	102	0	0	0	0	0	0	94	6	1	101	213
Total Volume	23	0	12	1	36	23	348	2	8	381	1	0	0	0	1	1	339	31	8	379	797
% App. Total	63.9	0	33.3	2.8		6	91.3	0.5	2.1		100	0	0	0		0.3	89.4	8.2	2.1		
PHF	.821	.000	.600	.250	.750	.523	.888	.250	.667	.934	.250	.000	.000	.000	.250	.250	.902	.646	.667	.929	.935

Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1  
 Peak Hour for Entire Intersection Begins at 04:00 PM



File Name : Route 370 @ Shriver - Springwoods  
 Site Code : 00000002  
 Start Date : 10/30/2025  
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Groups Printed- Peds

Start Time	Shirver Road Southbound				NYS Route 370 Westbound				Springwoods Circle Northbound				NYS Route 370 Eastbound				Int. Total	
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds		
07:15 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Total	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	3
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Grand Total	0	0	0	1	0	0	0	0	0	0	0	6	0	0	0	2		9
Apprch %	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	100		
Total %	0	0	0	11.1	0	0	0	0	0	0	0	66.7	0	0	0	22.2		

Lanes, Volumes, Timings

1: Baldwinsville Bypass/Anheuser Busch & NYS Route 31

11/07/2025

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	20	419	17	67	438	46	6	15	48	33	12	32
Future Volume (vph)	20	419	17	67	438	46	6	15	48	33	12	32
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	220		0	225		0	525		425	0		225
Storage Lanes	1		0	1		0	1		1	0		1
Taper Length (ft)	25			25			25			25		
Satd. Flow (prot)	1770	1852	0	1752	1819	0	1703	1792	1524	0	1763	1553
Flt Permitted	0.469			0.338			0.699				0.768	
Satd. Flow (perm)	874	1852	0	623	1819	0	1253	1792	1524	0	1403	1553
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			10				79			87
Link Speed (mph)		45			45			45			30	
Link Distance (ft)		707			449			803			568	
Travel Time (s)		10.7			6.8			12.2			12.9	
Peak Hour Factor	0.78	0.78	0.78	0.92	0.92	0.92	0.61	0.61	0.61	0.50	0.50	0.50
Heavy Vehicles (%)	2%	2%	2%	3%	3%	3%	6%	6%	6%	4%	4%	4%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	26	559	0	73	526	0	10	25	79	0	90	64
Enter Blocked Intersection	No	No	No	No	No	No						
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	2	1		2	1		2	2	2	1	2	0
Detector Template										Left		
Leading Detector (ft)	60	321		60	321		60	60	60	20	60	0
Trailing Detector (ft)	-10	315		-10	315		-10	-10	-10	0	-10	0
Detector 1 Position(ft)	-10	315		-10	315		-10	-10	-10	0	-10	0
Detector 1 Size(ft)	30	6		30	6		30	30	30	20	30	20
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)	30			30			30	30	30		30	
Detector 2 Size(ft)	30			30			30	30	30		30	
Detector 2 Type	Cl+Ex			Cl+Ex			Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)	0.0			0.0			0.0	0.0	0.0		0.0	
Turn Type	Perm	NA		pm+pt	NA		Perm	NA	pm+ov	Perm	NA	Perm
Protected Phases		2		1	6			4	1		8	
Permitted Phases	2			6			4		4	8		8
Detector Phase	2	2		1	6		4	4	1	8	8	8
Switch Phase												
Minimum Initial (s)	10.0	10.0		4.0	10.0		6.0	6.0	4.0	6.0	6.0	6.0

# Lanes, Volumes, Timings

## 1: Baldwinsville Bypass/Anheuser Busch & NYS Route 31

11/07/2025

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Minimum Split (s)	16.0	16.0		8.5	16.0		11.5	11.5	8.5	11.5	11.5	11.5
Total Split (s)	41.0	41.0		22.5	41.0		30.5	30.5	22.5	30.5	30.5	30.5
Total Split (%)	43.6%	43.6%		23.9%	43.6%		32.4%	32.4%	23.9%	32.4%	32.4%	32.4%
Maximum Green (s)	35.0	35.0		18.0	35.0		25.0	25.0	18.0	25.0	25.0	25.0
Yellow Time (s)	4.5	4.5		3.5	4.5		4.0	4.0	3.5	4.0	4.0	4.0
All-Red Time (s)	1.5	1.5		1.0	1.5		1.5	1.5	1.0	1.5	1.5	1.5
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0		0.0	0.0
Total Lost Time (s)	6.0	6.0		4.5	6.0		5.5	5.5	4.5		5.5	5.5
Lead/Lag	Lag	Lag		Lead					Lead			
Lead-Lag Optimize?	Yes	Yes		Yes					Yes			
Vehicle Extension (s)	5.0	5.0		2.0	5.0		2.0	2.0	2.0	2.0	2.0	2.0
Recall Mode	Max	Max		None	Max		None	None	None	None	None	None
Act Effect Green (s)	40.1	40.1		48.2	48.0		8.8	8.8	17.3		8.8	8.8
Actuated g/C Ratio	0.62	0.62		0.75	0.75		0.14	0.14	0.27		0.14	0.14
v/c Ratio	0.05	0.49		0.13	0.39		0.06	0.10	0.17		0.47	0.22
Control Delay	8.8	11.9		3.8	5.4		25.2	25.5	5.4		34.6	6.1
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0	0.0		0.0	0.0
Total Delay	8.8	11.9		3.8	5.4		25.2	25.5	5.4		34.6	6.1
LOS	A	B		A	A		C	C	A		C	A
Approach Delay		11.8			5.2			11.5			22.8	
Approach LOS		B			A			B			C	
Queue Length 50th (ft)	5	133		7	71		4	9	0		34	0
Queue Length 95th (ft)	15	205		20	146		11	19	9		39	0
Internal Link Dist (ft)		627			369			723			488	
Turn Bay Length (ft)	220			225			525		425			225
Base Capacity (vph)	543	1152		783	1626		489	700	748		548	659
Starvation Cap Reductn	0	0		0	0		0	0	0		0	0
Spillback Cap Reductn	0	0		0	0		0	0	0		0	0
Storage Cap Reductn	0	0		0	0		0	0	0		0	0
Reduced v/c Ratio	0.05	0.49		0.09	0.32		0.02	0.04	0.11		0.16	0.10

### Intersection Summary

Area Type: Other  
 Cycle Length: 94  
 Actuated Cycle Length: 64.4  
 Natural Cycle: 50  
 Control Type: Actuated-Uncoordinated  
 Maximum v/c Ratio: 0.49  
 Intersection Signal Delay: 10.2  
 Intersection Capacity Utilization 57.9%  
 Analysis Period (min) 15

Intersection LOS: B  
 ICU Level of Service B

### Splits and Phases: 1: Baldwinsville Bypass/Anheuser Busch & NYS Route 31

Ø1	Ø2	Ø4
22.5 s	41 s	30.5 s
Ø6	Ø8	
41 s		30.5 s

Lanes, Volumes, Timings  
 3: Springwoods Circle/Shriver Drive & NYS Route 370

11/07/2025

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	6	292	1	0	312	2	2	0	0	29	0	26
Future Volume (vph)	6	292	1	0	312	2	2	0	0	29	0	26
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	0	1861	0	0	1861	0	0	1787	0	0	1698	0
Flt Permitted		0.999						0.950			0.974	
Satd. Flow (perm)	0	1861	0	0	1861	0	0	1787	0	0	1698	0
Link Speed (mph)		40			40			30			30	
Link Distance (ft)		771			880			465			434	
Travel Time (s)		13.1			15.0			10.6			9.9	
Confl. Peds. (#/hr)	1		2	2		1						
Peak Hour Factor	0.86	0.86	0.86	0.76	0.76	0.76	0.50	0.50	0.50	0.70	0.70	0.70
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	1%	1%	1%	2%	2%	2%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	348	0	0	414	0	0	4	0	0	78	0
Enter Blocked Intersection	No	No	No	No	No	No						
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Free			Free			Stop			Stop	

Intersection Summary

Area Type: Other  
 Control Type: Unsignalized  
 Intersection Capacity Utilization 30.2%  
 Analysis Period (min) 15  
 ICU Level of Service A

HCM 6th TWSC  
 3: Springwoods Circle/Shriver Drive & NYS Route 370

11/07/2025

Intersection

Int Delay, s/veh	1.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	6	292	1	0	312	2	2	0	0	29	0	26
Future Vol, veh/h	6	292	1	0	312	2	2	0	0	29	0	26
Conflicting Peds, #/hr	1	0	2	2	0	1	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	86	86	86	76	76	76	50	50	50	70	70	70
Heavy Vehicles, %	2	2	2	2	2	2	1	1	1	2	2	2
Mvmt Flow	7	340	1	0	411	3	4	0	0	41	0	37

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	415	0	0	343	0	0	788	772	343	769	771	414
Stage 1	-	-	-	-	-	-	357	357	-	414	414	-
Stage 2	-	-	-	-	-	-	431	415	-	355	357	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.11	6.51	6.21	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.11	5.51	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.11	5.51	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.509	4.009	3.309	3.518	4.018	3.318
Pot Cap-1 Maneuver	1144	-	-	1216	-	-	310	331	702	318	331	638
Stage 1	-	-	-	-	-	-	663	630	-	616	593	-
Stage 2	-	-	-	-	-	-	605	594	-	662	628	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1143	-	-	1214	-	-	290	327	701	316	327	637
Mov Cap-2 Maneuver	-	-	-	-	-	-	290	327	-	316	327	-
Stage 1	-	-	-	-	-	-	656	624	-	610	592	-
Stage 2	-	-	-	-	-	-	570	593	-	657	622	-

Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.2			0			17.6			15.7		
HCM LOS							C			C		

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	290	1143	-	-	1214	-	-	415
HCM Lane V/C Ratio	0.014	0.006	-	-	-	-	-	0.189
HCM Control Delay (s)	17.6	8.2	0	-	0	-	-	15.7
HCM Lane LOS	C	A	A	-	A	-	-	C
HCM 95th %tile Q(veh)	0	0	-	-	0	-	-	0.7

Lanes, Volumes, Timings

1: Baldwinsville Bypass/Anheuser Busch & NYS Route 31

11/07/2025

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	3	638	14	89	587	7	24	7	97	41	19	16
Future Volume (vph)	3	638	14	89	587	7	24	7	97	41	19	16
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	220		0	225		0	525		425	0		225
Storage Lanes	1		0	1		0	1		1	0		1
Taper Length (ft)	25			25			25			25		
Satd. Flow (prot)	1787	1876	0	1770	1859	0	1736	1827	1553	0	1784	1568
Flt Permitted	0.433			0.194			0.701				0.790	
Satd. Flow (perm)	815	1876	0	361	1859	0	1281	1827	1553	0	1457	1568
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		1			1				77			87
Link Speed (mph)		45			45			45			30	
Link Distance (ft)		707			449			803			568	
Travel Time (s)		10.7			6.8			12.2			12.9	
Peak Hour Factor	0.86	0.86	0.86	0.97	0.97	0.97	0.74	0.74	0.74	0.70	0.70	0.70
Heavy Vehicles (%)	1%	1%	1%	2%	2%	2%	4%	4%	4%	3%	3%	3%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	3	758	0	92	612	0	32	9	131	0	86	23
Enter Blocked Intersection	No											
Lane Alignment	Left	Left	Right									
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	2	1		2	1		2	2	2	1	2	0
Detector Template										Left		
Leading Detector (ft)	60	321		60	321		60	60	60	20	60	0
Trailing Detector (ft)	-10	315		-10	315		-10	-10	-10	0	-10	0
Detector 1 Position(ft)	-10	315		-10	315		-10	-10	-10	0	-10	0
Detector 1 Size(ft)	30	6		30	6		30	30	30	20	30	20
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)	30			30			30	30	30		30	
Detector 2 Size(ft)	30			30			30	30	30		30	
Detector 2 Type	CI+Ex			CI+Ex			CI+Ex	CI+Ex	CI+Ex		CI+Ex	
Detector 2 Channel												
Detector 2 Extend (s)	0.0			0.0			0.0	0.0	0.0		0.0	
Turn Type	Perm	NA		pm+pt	NA		Perm	NA	pm+ov	Perm	NA	Perm
Protected Phases		2		1	6			4	1		8	
Permitted Phases	2			6			4		4	8		8
Detector Phase	2	2		1	6		4	4	1	8	8	8
Switch Phase												
Minimum Initial (s)	10.0	10.0		4.0	10.0		6.0	6.0	4.0	6.0	6.0	6.0

Lanes, Volumes, Timings

1: Baldwinsville Bypass/Anheuser Busch & NYS Route 31

11/07/2025

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Minimum Split (s)	16.0	16.0		8.5	16.0		11.5	11.5	8.5	11.5	11.5	11.5
Total Split (s)	41.0	41.0		22.5	41.0		30.5	30.5	22.5	30.5	30.5	30.5
Total Split (%)	43.6%	43.6%		23.9%	43.6%		32.4%	32.4%	23.9%	32.4%	32.4%	32.4%
Maximum Green (s)	35.0	35.0		18.0	35.0		25.0	25.0	18.0	25.0	25.0	25.0
Yellow Time (s)	4.5	4.5		3.5	4.5		4.0	4.0	3.5	4.0	4.0	4.0
All-Red Time (s)	1.5	1.5		1.0	1.5		1.5	1.5	1.0	1.5	1.5	1.5
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0		0.0	0.0
Total Lost Time (s)	6.0	6.0		4.5	6.0		5.5	5.5	4.5		5.5	5.5
Lead/Lag	Lag	Lag		Lead					Lead			
Lead-Lag Optimize?	Yes	Yes		Yes					Yes			
Vehicle Extension (s)	5.0	5.0		2.0	5.0		2.0	2.0	2.0	2.0	2.0	2.0
Recall Mode	Max	Max		None	Max		None	None	None	None	None	None
Act Effct Green (s)	35.5	35.5		47.3	47.3		8.5	8.5	17.0		8.5	8.5
Actuated g/C Ratio	0.56	0.56		0.75	0.75		0.13	0.13	0.27		0.13	0.13
v/c Ratio	0.01	0.72		0.23	0.44		0.18	0.04	0.28		0.44	0.08
Control Delay	8.3	17.5		4.6	5.8		27.9	24.9	9.8		33.6	0.6
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0	0.0		0.0	0.0
Total Delay	8.3	17.5		4.6	5.8		27.9	24.9	9.8		33.6	0.6
LOS	A	B		A	A		C	C	A		C	A
Approach Delay		17.5			5.7			13.9			26.6	
Approach LOS		B			A			B			C	
Queue Length 50th (ft)	1	212		8	88		12	3	15		32	0
Queue Length 95th (ft)	4	374		23	177		28	12	36		55	0
Internal Link Dist (ft)		627			369			723			488	
Turn Bay Length (ft)	220			225			525		425			225
Base Capacity (vph)	457	1054		677	1662		513	733	766		584	681
Starvation Cap Reductn	0	0		0	0		0	0	0		0	0
Spillback Cap Reductn	0	0		0	0		0	0	0		0	0
Storage Cap Reductn	0	0		0	0		0	0	0		0	0
Reduced v/c Ratio	0.01	0.72		0.14	0.37		0.06	0.01	0.17		0.15	0.03

Intersection Summary

Area Type: Other  
 Cycle Length: 94  
 Actuated Cycle Length: 63.1  
 Natural Cycle: 60  
 Control Type: Actuated-Uncoordinated  
 Maximum v/c Ratio: 0.72  
 Intersection Signal Delay: 12.9  
 Intersection Capacity Utilization 64.2%  
 Analysis Period (min) 15

Intersection LOS: B  
 ICU Level of Service C

Splits and Phases: 1: Baldwinsville Bypass/Anheuser Busch & NYS Route 31

22.5 s	41 s	30.5 s
41 s		30.5 s

Lanes, Volumes, Timings  
 3: Springwoods Circle/Shriver Drive & NYS Route 370

11/07/2025

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	31	339	1	2	348	23	0	0	1	12	0	23
Future Volume (vph)	31	339	1	2	348	23	0	0	1	12	0	23
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	0	1855	0	0	1848	0	0	1627	0	0	1652	0
Flt Permitted		0.996									0.983	
Satd. Flow (perm)	0	1855	0	0	1848	0	0	1627	0	0	1652	0
Link Speed (mph)		40			40			30			30	
Link Distance (ft)		771			880			465			434	
Travel Time (s)		13.1			15.0			10.6			9.9	
Confl. Peds. (#/hr)	1		2	2		1						
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.50	0.50	0.50	0.75	0.75	0.75
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	1%	1%	1%	3%	3%	3%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	399	0	0	401	0	0	2	0	0	47	0
Enter Blocked Intersection	No	No	No	No	No	No						
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Free			Free			Stop			Stop	

Intersection Summary

Area Type: Other  
 Control Type: Unsignalized  
 Intersection Capacity Utilization 55.7%  
 Analysis Period (min) 15  
 ICU Level of Service B

HCM 6th TWSC  
 3: Springwoods Circle/Shriver Drive & NYS Route 370

11/07/2025

Intersection

Int Delay, s/veh	1.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	31	339	1	2	348	23	0	0	1	12	0	23
Future Vol, veh/h	31	339	1	2	348	23	0	0	1	12	0	23
Conflicting Peds, #/hr	1	0	2	2	0	1	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	93	93	93	93	93	93	50	50	50	75	75	75
Heavy Vehicles, %	2	2	2	2	2	2	1	1	1	3	3	3
Mvmt Flow	33	365	1	2	374	25	0	0	2	16	0	31

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	400	0	0	368	0	0	840	838	368	825	826	388
Stage 1	-	-	-	-	-	-	434	434	-	392	392	-
Stage 2	-	-	-	-	-	-	406	404	-	433	434	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.11	6.51	6.21	7.13	6.53	6.23
Critical Hdwy Stg 1	-	-	-	-	-	-	6.11	5.51	-	6.13	5.53	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.11	5.51	-	6.13	5.53	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.509	4.009	3.309	3.527	4.027	3.327
Pot Cap-1 Maneuver	1159	-	-	1191	-	-	286	303	680	290	306	658
Stage 1	-	-	-	-	-	-	602	583	-	631	605	-
Stage 2	-	-	-	-	-	-	624	601	-	599	579	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1158	-	-	1189	-	-	264	291	679	280	293	657
Mov Cap-2 Maneuver	-	-	-	-	-	-	264	291	-	280	293	-
Stage 1	-	-	-	-	-	-	579	561	-	608	603	-
Stage 2	-	-	-	-	-	-	594	599	-	576	557	-

Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.7			0			10.3			13.9		
HCM LOS							B			B		

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	679	1158	-	-	1189	-	-	449
HCM Lane V/C Ratio	0.003	0.029	-	-	0.002	-	-	0.104
HCM Control Delay (s)	10.3	8.2	0	-	8	0	-	13.9
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0	0.1	-	-	0	-	-	0.3

Lanes, Volumes, Timings

1: Baldwinsville Bypass/Anheuser Busch & NYS Route 31

11/07/2025

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	21	470	18	69	472	47	6	15	49	34	12	33
Future Volume (vph)	21	470	18	69	472	47	6	15	49	34	12	33
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	220		0	225		0	525		425	0		225
Storage Lanes	1		0	1		0	1		1	0		1
Taper Length (ft)	25			25			25			25		
Satd. Flow (prot)	1770	1852	0	1752	1819	0	1703	1792	1524	0	1761	1553
Flt Permitted	0.453			0.294			0.697				0.766	
Satd. Flow (perm)	844	1852	0	542	1819	0	1249	1792	1524	0	1399	1553
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			10				80			87
Link Speed (mph)		45			45			45			30	
Link Distance (ft)		707			449			803			568	
Travel Time (s)		10.7			6.8			12.2			12.9	
Peak Hour Factor	0.78	0.78	0.78	0.92	0.92	0.92	0.61	0.61	0.61	0.50	0.50	0.50
Heavy Vehicles (%)	2%	2%	2%	3%	3%	3%	6%	6%	6%	4%	4%	4%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	27	626	0	75	564	0	10	25	80	0	92	66
Enter Blocked Intersection	No											
Lane Alignment	Left	Left	Right									
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	2	1		2	1		2	2	2	1	2	0
Detector Template										Left		
Leading Detector (ft)	60	321		60	321		60	60	60	20	60	0
Trailing Detector (ft)	-10	315		-10	315		-10	-10	-10	0	-10	0
Detector 1 Position(ft)	-10	315		-10	315		-10	-10	-10	0	-10	0
Detector 1 Size(ft)	30	6		30	6		30	30	30	20	30	20
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)	30			30			30	30	30		30	
Detector 2 Size(ft)	30			30			30	30	30		30	
Detector 2 Type	CI+Ex			CI+Ex			CI+Ex	CI+Ex	CI+Ex		CI+Ex	
Detector 2 Channel												
Detector 2 Extend (s)	0.0			0.0			0.0	0.0	0.0		0.0	
Turn Type	Perm	NA		pm+pt	NA		Perm	NA	pm+ov	Perm	NA	Perm
Protected Phases		2		1	6			4	1		8	
Permitted Phases	2			6			4		4	8		8
Detector Phase	2	2		1	6		4	4	1	8	8	8
Switch Phase												
Minimum Initial (s)	10.0	10.0		4.0	10.0		6.0	6.0	4.0	6.0	6.0	6.0

# Lanes, Volumes, Timings

## 1: Baldwinsville Bypass/Anheuser Busch & NYS Route 31

11/07/2025

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Minimum Split (s)	16.0	16.0		8.5	16.0		11.5	11.5	8.5	11.5	11.5	11.5
Total Split (s)	41.0	41.0		22.5	41.0		30.5	30.5	22.5	30.5	30.5	30.5
Total Split (%)	43.6%	43.6%		23.9%	43.6%		32.4%	32.4%	23.9%	32.4%	32.4%	32.4%
Maximum Green (s)	35.0	35.0		18.0	35.0		25.0	25.0	18.0	25.0	25.0	25.0
Yellow Time (s)	4.5	4.5		3.5	4.5		4.0	4.0	3.5	4.0	4.0	4.0
All-Red Time (s)	1.5	1.5		1.0	1.5		1.5	1.5	1.0	1.5	1.5	1.5
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0		0.0	0.0
Total Lost Time (s)	6.0	6.0		4.5	6.0		5.5	5.5	4.5		5.5	5.5
Lead/Lag	Lag	Lag		Lead					Lead			
Lead-Lag Optimize?	Yes	Yes		Yes					Yes			
Vehicle Extension (s)	5.0	5.0		2.0	5.0		2.0	2.0	2.0	2.0	2.0	2.0
Recall Mode	Max	Max		None	Max		None	None	None	None	None	None
Act Effect Green (s)	40.0	40.0		48.2	48.0		8.9	8.9	17.4		8.9	8.9
Actuated g/C Ratio	0.62	0.62		0.75	0.74		0.14	0.14	0.27		0.14	0.14
v/c Ratio	0.05	0.54		0.15	0.42		0.06	0.10	0.17		0.48	0.23
Control Delay	9.0	13.0		4.0	5.7		25.2	25.5	5.3		34.8	6.4
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0	0.0		0.0	0.0
Total Delay	9.0	13.0		4.0	5.7		25.2	25.5	5.3		34.8	6.4
LOS	A	B		A	A		C	C	A		C	A
Approach Delay		12.8			5.5			11.4			23.0	
Approach LOS		B			A			B			C	
Queue Length 50th (ft)	5	159		7	79		4	9	0		35	0
Queue Length 95th (ft)	15	240		20	163		11	19	9		40	0
Internal Link Dist (ft)		627			369			723			488	
Turn Bay Length (ft)	220			225			525		425			225
Base Capacity (vph)	523	1150		744	1622		486	698	749		545	658
Starvation Cap Reductn	0	0		0	0		0	0	0		0	0
Spillback Cap Reductn	0	0		0	0		0	0	0		0	0
Storage Cap Reductn	0	0		0	0		0	0	0		0	0
Reduced v/c Ratio	0.05	0.54		0.10	0.35		0.02	0.04	0.11		0.17	0.10

### Intersection Summary

Area Type: Other  
 Cycle Length: 94  
 Actuated Cycle Length: 64.5  
 Natural Cycle: 55  
 Control Type: Actuated-Uncoordinated  
 Maximum v/c Ratio: 0.54  
 Intersection Signal Delay: 10.8  
 Intersection Capacity Utilization 59.8%  
 Analysis Period (min) 15

Intersection LOS: B  
 ICU Level of Service B

### Splits and Phases: 1: Baldwinsville Bypass/Anheuser Busch & NYS Route 31

22.5 s	41 s							30.5 s				
41 s								30.5 s				

# Lanes, Volumes, Timings

## 3: Springwoods Circle/Shriver Drive & NYS Route 370

11/07/2025

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	6	335	1	0	366	2	2	0	0	30	0	27
Future Volume (vph)	6	335	1	0	366	2	2	0	0	30	0	27
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	0	1861	0	0	1861	0	0	1787	0	0	1698	0
Flt Permitted		0.999						0.950			0.974	
Satd. Flow (perm)	0	1861	0	0	1861	0	0	1787	0	0	1698	0
Link Speed (mph)		40			40			30			30	
Link Distance (ft)		771			880			465			434	
Travel Time (s)		13.1			15.0			10.6			9.9	
Confl. Peds. (#/hr)	1		2	2		1						
Peak Hour Factor	0.86	0.86	0.86	0.76	0.76	0.76	0.50	0.50	0.50	0.70	0.70	0.70
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	1%	1%	1%	2%	2%	2%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	398	0	0	485	0	0	4	0	0	82	0
Enter Blocked Intersection	No	No	No	No	No	No						
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Free			Free			Stop			Stop	

### Intersection Summary

Area Type: Other

Control Type: Unsignalized

Intersection Capacity Utilization 32.5%

ICU Level of Service A

Analysis Period (min) 15

HCM 6th TWSC  
 3: Springwoods Circle/Shriver Drive & NYS Route 370

11/07/2025

Intersection

Int Delay, s/veh	1.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	6	335	1	0	366	2	2	0	0	30	0	27
Future Vol, veh/h	6	335	1	0	366	2	2	0	0	30	0	27
Conflicting Peds, #/hr	1	0	2	2	0	1	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	86	86	86	76	76	76	50	50	50	70	70	70
Heavy Vehicles, %	2	2	2	2	2	2	1	1	1	2	2	2
Mvmt Flow	7	390	1	0	482	3	4	0	0	43	0	39

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	486	0	0	393	0	0	910	893	393	890	892	485
Stage 1	-	-	-	-	-	-	407	407	-	485	485	-
Stage 2	-	-	-	-	-	-	503	486	-	405	407	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.11	6.51	6.21	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.11	5.51	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.11	5.51	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.509	4.009	3.309	3.518	4.018	3.318
Pot Cap-1 Maneuver	1077	-	-	1166	-	-	256	282	658	264	281	582
Stage 1	-	-	-	-	-	-	623	599	-	563	552	-
Stage 2	-	-	-	-	-	-	553	553	-	622	597	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1076	-	-	1164	-	-	237	279	657	262	278	581
Mov Cap-2 Maneuver	-	-	-	-	-	-	237	279	-	262	278	-
Stage 1	-	-	-	-	-	-	617	593	-	558	551	-
Stage 2	-	-	-	-	-	-	516	552	-	617	591	-

Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.1			0			20.5			18.2		
HCM LOS							C			C		

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	237	1076	-	-	1164	-	-	354
HCM Lane V/C Ratio	0.017	0.006	-	-	-	-	-	0.23
HCM Control Delay (s)	20.5	8.4	0	-	0	-	-	18.2
HCM Lane LOS	C	A	A	-	A	-	-	C
HCM 95th %tile Q(veh)	0.1	0	-	-	0	-	-	0.9

Lanes, Volumes, Timings

1: Baldwinsville Bypass/Anheuser Busch & NYS Route 31

11/07/2025

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	3	681	14	92	647	7	25	7	100	42	20	16
Future Volume (vph)	3	681	14	92	647	7	25	7	100	42	20	16
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	220		0	225		0	525		425	0		225
Storage Lanes	1		0	1		0	1		1	0		1
Taper Length (ft)	25			25			25			25		
Satd. Flow (prot)	1787	1876	0	1770	1859	0	1736	1827	1553	0	1784	1568
Flt Permitted	0.409			0.162			0.699				0.792	
Satd. Flow (perm)	769	1876	0	302	1859	0	1277	1827	1553	0	1461	1568
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		1			1				63			87
Link Speed (mph)		45			45			45			30	
Link Distance (ft)		707			449			803			568	
Travel Time (s)		10.7			6.8			12.2			12.9	
Peak Hour Factor	0.86	0.86	0.86	0.97	0.97	0.97	0.74	0.74	0.74	0.70	0.70	0.70
Heavy Vehicles (%)	1%	1%	1%	2%	2%	2%	4%	4%	4%	3%	3%	3%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	3	808	0	95	674	0	34	9	135	0	89	23
Enter Blocked Intersection	No	No	No	No	No	No						
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	2	1		2	1		2	2	2	1	2	0
Detector Template										Left		
Leading Detector (ft)	60	321		60	321		60	60	60	20	60	0
Trailing Detector (ft)	-10	315		-10	315		-10	-10	-10	0	-10	0
Detector 1 Position(ft)	-10	315		-10	315		-10	-10	-10	0	-10	0
Detector 1 Size(ft)	30	6		30	6		30	30	30	20	30	20
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)	30			30			30	30	30		30	
Detector 2 Size(ft)	30			30			30	30	30		30	
Detector 2 Type	Cl+Ex			Cl+Ex			Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)	0.0			0.0			0.0	0.0	0.0		0.0	
Turn Type	Perm	NA		pm+pt	NA		Perm	NA	pm+ov	Perm	NA	Perm
Protected Phases		2		1	6			4	1		8	
Permitted Phases	2			6			4		4	8		8
Detector Phase	2	2		1	6		4	4	1	8	8	8
Switch Phase												
Minimum Initial (s)	10.0	10.0		4.0	10.0		6.0	6.0	4.0	6.0	6.0	6.0

# Lanes, Volumes, Timings

## 1: Baldwinsville Bypass/Anheuser Busch & NYS Route 31

11/07/2025

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Minimum Split (s)	16.0	16.0		8.5	16.0		11.5	11.5	8.5	11.5	11.5	11.5
Total Split (s)	41.0	41.0		22.5	41.0		30.5	30.5	22.5	30.5	30.5	30.5
Total Split (%)	43.6%	43.6%		23.9%	43.6%		32.4%	32.4%	23.9%	32.4%	32.4%	32.4%
Maximum Green (s)	35.0	35.0		18.0	35.0		25.0	25.0	18.0	25.0	25.0	25.0
Yellow Time (s)	4.5	4.5		3.5	4.5		4.0	4.0	3.5	4.0	4.0	4.0
All-Red Time (s)	1.5	1.5		1.0	1.5		1.5	1.5	1.0	1.5	1.5	1.5
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0		0.0	0.0
Total Lost Time (s)	6.0	6.0		4.5	6.0		5.5	5.5	4.5		5.5	5.5
Lead/Lag	Lag	Lag		Lead					Lead			
Lead-Lag Optimize?	Yes	Yes		Yes					Yes			
Vehicle Extension (s)	5.0	5.0		2.0	5.0		2.0	2.0	2.0	2.0	2.0	2.0
Recall Mode	Max	Max		None	Max		None	None	None	None	None	None
Act Effct Green (s)	35.5	35.5		47.4	47.4		8.6	8.6	17.1		8.6	8.6
Actuated g/C Ratio	0.56	0.56		0.75	0.75		0.14	0.14	0.27		0.14	0.14
v/c Ratio	0.01	0.77		0.26	0.48		0.20	0.04	0.29		0.45	0.08
Control Delay	8.7	19.6		5.0	6.3		28.1	24.9	11.6		34.0	0.6
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0	0.0		0.0	0.0
Total Delay	8.7	19.6		5.0	6.3		28.1	24.9	11.6		34.0	0.6
LOS	A	B		A	A		C	C	B		C	A
Approach Delay		19.6			6.2			15.4			27.1	
Approach LOS		B			A			B			C	
Queue Length 50th (ft)	1	237		9	102		12	3	21		33	0
Queue Length 95th (ft)	4	#477		24	206		29	12	42		56	0
Internal Link Dist (ft)		627			369			723			488	
Turn Bay Length (ft)	220			225			525		425			225
Base Capacity (vph)	431	1053		650	1659		511	732	758		585	680
Starvation Cap Reductn	0	0		0	0		0	0	0		0	0
Spillback Cap Reductn	0	0		0	0		0	0	0		0	0
Storage Cap Reductn	0	0		0	0		0	0	0		0	0
Reduced v/c Ratio	0.01	0.77		0.15	0.41		0.07	0.01	0.18		0.15	0.03

### Intersection Summary

Area Type: Other

Cycle Length: 94

Actuated Cycle Length: 63.2

Natural Cycle: 60

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.77

Intersection Signal Delay: 14.1

Intersection LOS: B

Intersection Capacity Utilization 67.4%

ICU Level of Service C

Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

### Splits and Phases: 1: Baldwinsville Bypass/Anheuser Busch & NYS Route 31

22.5 s	41 s	30.5 s
41 s		30.5 s

Lanes, Volumes, Timings

3: Springwoods Circle/Shriver Drive & NYS Route 370

11/07/2025

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	32	394	1	2	404	24	0	0	1	12	0	24
Future Volume (vph)	32	394	1	2	404	24	0	0	1	12	0	24
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	0	1855	0	0	1848	0	0	1627	0	0	1652	0
Flt Permitted		0.996									0.984	
Satd. Flow (perm)	0	1855	0	0	1848	0	0	1627	0	0	1652	0
Link Speed (mph)		40			40			30			30	
Link Distance (ft)		771			880			465			434	
Travel Time (s)		13.1			15.0			10.6			9.9	
Confl. Peds. (#/hr)	1		2	2		1						
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.50	0.50	0.50	0.75	0.75	0.75
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	1%	1%	1%	3%	3%	3%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	459	0	0	462	0	0	2	0	0	48	0
Enter Blocked Intersection	No	No	No	No	No	No						
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Free			Free			Stop			Stop	

Intersection Summary

Area Type: Other

Control Type: Unsignalized

Intersection Capacity Utilization 59.7%

ICU Level of Service B

Analysis Period (min) 15

HCM 6th TWSC  
 3: Springwoods Circle/Shriver Drive & NYS Route 370

11/07/2025

Intersection

Int Delay, s/veh	1.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	32	394	1	2	404	24	0	0	1	12	0	24
Future Vol, veh/h	32	394	1	2	404	24	0	0	1	12	0	24
Conflicting Peds, #/hr	1	0	2	2	0	1	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	93	93	93	93	93	93	50	50	50	75	75	75
Heavy Vehicles, %	2	2	2	2	2	2	1	1	1	3	3	3
Mvmt Flow	34	424	1	2	434	26	0	0	2	16	0	32

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	461	0	0	427	0	0	962	960	427	946	947	448
Stage 1	-	-	-	-	-	-	495	495	-	452	452	-
Stage 2	-	-	-	-	-	-	467	465	-	494	495	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.11	6.51	6.21	7.13	6.53	6.23
Critical Hdwy Stg 1	-	-	-	-	-	-	6.11	5.51	-	6.13	5.53	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.11	5.51	-	6.13	5.53	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.509	4.009	3.309	3.527	4.027	3.327
Pot Cap-1 Maneuver	1100	-	-	1132	-	-	236	258	630	240	260	609
Stage 1	-	-	-	-	-	-	558	548	-	585	569	-
Stage 2	-	-	-	-	-	-	578	565	-	555	544	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1099	-	-	1130	-	-	216	246	629	231	248	608
Mov Cap-2 Maneuver	-	-	-	-	-	-	216	246	-	231	248	-
Stage 1	-	-	-	-	-	-	535	525	-	561	567	-
Stage 2	-	-	-	-	-	-	546	563	-	531	521	-

Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.6			0			10.7			15.4		
HCM LOS							B			C		

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	629	1099	-	-	1130	-	-	394
HCM Lane V/C Ratio	0.003	0.031	-	-	0.002	-	-	0.122
HCM Control Delay (s)	10.7	8.4	0	-	8.2	0	-	15.4
HCM Lane LOS	B	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0	0.1	-	-	0	-	-	0.4

# Lanes, Volumes, Timings

## 1: Baldwinsville Bypass/Anheuser Busch & NYS Route 31

11/07/2025

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	21	472	18	66	476	47	6	15	48	34	12	33
Future Volume (vph)	21	472	18	66	476	47	6	15	48	34	12	33
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	220		0	225		0	525		425	0		225
Storage Lanes	1		0	1		0	1		1	0		1
Taper Length (ft)	25			25			25			25		
Satd. Flow (prot)	1770	1853	0	1752	1821	0	1703	1792	1524	0	1761	1553
Flt Permitted	0.451			0.293			0.697				0.766	
Satd. Flow (perm)	840	1853	0	540	1821	0	1249	1792	1524	0	1399	1553
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			10				79			87
Link Speed (mph)		45			45			45			30	
Link Distance (ft)		707			449			803			568	
Travel Time (s)		10.7			6.8			12.2			12.9	
Peak Hour Factor	0.78	0.78	0.78	0.92	0.92	0.92	0.61	0.61	0.61	0.50	0.50	0.50
Heavy Vehicles (%)	2%	2%	2%	3%	3%	3%	6%	6%	6%	4%	4%	4%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	27	628	0	72	568	0	10	25	79	0	92	66
Enter Blocked Intersection	No											
Lane Alignment	Left	Left	Right									
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	2	1		2	1		2	2	2	1	2	0
Detector Template										Left		
Leading Detector (ft)	60	321		60	321		60	60	60	20	60	0
Trailing Detector (ft)	-10	315		-10	315		-10	-10	-10	0	-10	0
Detector 1 Position(ft)	-10	315		-10	315		-10	-10	-10	0	-10	0
Detector 1 Size(ft)	30	6		30	6		30	30	30	20	30	20
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)	30			30			30	30	30		30	
Detector 2 Size(ft)	30			30			30	30	30		30	
Detector 2 Type	CI+Ex			CI+Ex			CI+Ex	CI+Ex	CI+Ex		CI+Ex	
Detector 2 Channel												
Detector 2 Extend (s)	0.0			0.0			0.0	0.0	0.0		0.0	
Turn Type	Perm	NA		pm+pt	NA		Perm	NA	pm+ov	Perm	NA	Perm
Protected Phases		2		1	6			4	1		8	
Permitted Phases	2			6			4		4	8		8
Detector Phase	2	2		1	6		4	4	1	8	8	8
Switch Phase												
Minimum Initial (s)	10.0	10.0		4.0	10.0		6.0	6.0	4.0	6.0	6.0	6.0

Lanes, Volumes, Timings

1: Baldwinsville Bypass/Anheuser Busch & NYS Route 31

11/07/2025

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Minimum Split (s)	16.0	16.0		8.5	16.0		11.5	11.5	8.5	11.5	11.5	11.5
Total Split (s)	41.0	41.0		22.5	41.0		30.5	30.5	22.5	30.5	30.5	30.5
Total Split (%)	43.6%	43.6%		23.9%	43.6%		32.4%	32.4%	23.9%	32.4%	32.4%	32.4%
Maximum Green (s)	35.0	35.0		18.0	35.0		25.0	25.0	18.0	25.0	25.0	25.0
Yellow Time (s)	4.5	4.5		3.5	4.5		4.0	4.0	3.5	4.0	4.0	4.0
All-Red Time (s)	1.5	1.5		1.0	1.5		1.5	1.5	1.0	1.5	1.5	1.5
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0		0.0	0.0
Total Lost Time (s)	6.0	6.0		4.5	6.0		5.5	5.5	4.5		5.5	5.5
Lead/Lag	Lag	Lag		Lead					Lead			
Lead-Lag Optimize?	Yes	Yes		Yes					Yes			
Vehicle Extension (s)	5.0	5.0		2.0	5.0		2.0	2.0	2.0	2.0	2.0	2.0
Recall Mode	Max	Max		None	Max		None	None	None	None	None	None
Act Effect Green (s)	40.1	40.1		48.2	48.0		8.9	8.9	17.4		8.9	8.9
Actuated g/C Ratio	0.62	0.62		0.75	0.74		0.14	0.14	0.27		0.14	0.14
v/c Ratio	0.05	0.55		0.14	0.42		0.06	0.10	0.17		0.48	0.23
Control Delay	8.9	13.0		4.0	5.8		25.0	25.5	5.3		34.8	6.4
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0	0.0		0.0	0.0
Total Delay	8.9	13.0		4.0	5.8		25.0	25.5	5.3		34.8	6.4
LOS	A	B		A	A		C	C	A		C	A
Approach Delay		12.8			5.6			11.5			22.9	
Approach LOS		B			A			B			C	
Queue Length 50th (ft)	5	160		7	80		4	9	0		35	0
Queue Length 95th (ft)	15	240		20	164		11	19	9		40	0
Internal Link Dist (ft)		627			369			723			488	
Turn Bay Length (ft)	220			225			525		425			225
Base Capacity (vph)	521	1151		743	1625		487	699	749		545	658
Starvation Cap Reductn	0	0		0	0		0	0	0		0	0
Spillback Cap Reductn	0	0		0	0		0	0	0		0	0
Storage Cap Reductn	0	0		0	0		0	0	0		0	0
Reduced v/c Ratio	0.05	0.55		0.10	0.35		0.02	0.04	0.11		0.17	0.10

Intersection Summary

Area Type: Other  
 Cycle Length: 94  
 Actuated Cycle Length: 64.5  
 Natural Cycle: 55  
 Control Type: Actuated-Uncoordinated  
 Maximum v/c Ratio: 0.55  
 Intersection Signal Delay: 10.8  
 Intersection Capacity Utilization 60.0%  
 Analysis Period (min) 15  
 Intersection LOS: B  
 ICU Level of Service B

Splits and Phases: 1: Baldwinsville Bypass/Anheuser Busch & NYS Route 31

Ø1	Ø2	Ø4
22.5 s	41 s	30.5 s
Ø6		Ø8
41 s		30.5 s

Lanes, Volumes, Timings  
 3: Springwoods Circle/Shriver Drive & NYS Route 370

11/07/2025

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	6	335	1	0	366	4	2	0	0	17	0	34
Future Volume (vph)	6	335	1	0	366	4	2	0	0	17	0	34
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	0	1861	0	0	1861	0	0	1787	0	0	1666	0
Flt Permitted		0.999						0.950			0.984	
Satd. Flow (perm)	0	1861	0	0	1861	0	0	1787	0	0	1666	0
Link Speed (mph)		40			40			30			30	
Link Distance (ft)		771			880			465			434	
Travel Time (s)		13.1			15.0			10.6			9.9	
Confl. Peds. (#/hr)	1		2	2		1						
Peak Hour Factor	0.86	0.86	0.86	0.76	0.76	0.76	0.50	0.50	0.50	0.70	0.70	0.70
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	1%	1%	1%	2%	2%	2%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	398	0	0	487	0	0	4	0	0	73	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Free			Free			Stop			Stop	

Intersection Summary

Area Type: Other  
 Control Type: Unsignalized  
 Intersection Capacity Utilization 32.5% ICU Level of Service A  
 Analysis Period (min) 15

HCM 6th TWSC  
 3: Springwoods Circle/Shriver Drive & NYS Route 370

11/07/2025

Intersection

Int Delay, s/veh	1.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	6	335	1	0	366	4	2	0	0	17	0	34
Future Vol, veh/h	6	335	1	0	366	4	2	0	0	17	0	34
Conflicting Peds, #/hr	1	0	2	2	0	1	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	86	86	86	76	76	76	50	50	50	70	70	70
Heavy Vehicles, %	2	2	2	2	2	2	1	1	1	2	2	2
Mvmt Flow	7	390	1	0	482	5	4	0	0	24	0	49

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	488	0	0	393	0	0	916	895	393	891	893	486
Stage 1	-	-	-	-	-	-	407	407	-	486	486	-
Stage 2	-	-	-	-	-	-	509	488	-	405	407	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.11	6.51	6.21	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.11	5.51	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.11	5.51	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.509	4.009	3.309	3.518	4.018	3.318
Pot Cap-1 Maneuver	1075	-	-	1166	-	-	254	281	658	263	281	581
Stage 1	-	-	-	-	-	-	623	599	-	563	551	-
Stage 2	-	-	-	-	-	-	549	552	-	622	597	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1074	-	-	1164	-	-	231	278	657	261	278	580
Mov Cap-2 Maneuver	-	-	-	-	-	-	231	278	-	261	278	-
Stage 1	-	-	-	-	-	-	617	593	-	558	550	-
Stage 2	-	-	-	-	-	-	503	551	-	617	591	-

Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.1			0			20.9			15.6		
HCM LOS							C			C		

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	231	1074	-	-	1164	-	-	412
HCM Lane V/C Ratio	0.017	0.006	-	-	-	-	-	0.177
HCM Control Delay (s)	20.9	8.4	0	-	0	-	-	15.6
HCM Lane LOS	C	A	A	-	A	-	-	C
HCM 95th %tile Q(veh)	0.1	0	-	-	0	-	-	0.6

Lanes, Volumes, Timings  
 10: Proposed Road & NYS Route 31

11/07/2025

						
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	553	2	6	585	4	30
Future Volume (vph)	553	2	6	585	4	30
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)		0	100		0	0
Storage Lanes		0	1		1	0
Taper Length (ft)			25		25	
Satd. Flow (prot)	1861	0	1752	1845	1631	0
Flt Permitted			0.950		0.995	
Satd. Flow (perm)	1861	0	1752	1845	1631	0
Link Speed (mph)	45			45	30	
Link Distance (ft)	449			703	357	
Travel Time (s)	6.8			10.7	8.1	
Peak Hour Factor	0.78	0.78	0.92	0.92	0.90	0.90
Heavy Vehicles (%)	2%	2%	3%	3%	2%	2%
Shared Lane Traffic (%)						
Lane Group Flow (vph)	712	0	7	636	37	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane				Yes	Yes	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)		9	15		15	9
Sign Control	Free			Free	Stop	

Intersection Summary

Area Type: Other  
 Control Type: Unsignalized  
 Intersection Capacity Utilization 40.8% ICU Level of Service A  
 Analysis Period (min) 15

HCM 6th TWSC  
10: Proposed Road & NYS Route 31

11/07/2025

Intersection

Int Delay, s/veh	0.5					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↔		↔	↑	↔	
Traffic Vol, veh/h	553	2	6	585	4	30
Future Vol, veh/h	553	2	6	585	4	30
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	78	78	92	92	90	90
Heavy Vehicles, %	2	2	3	3	2	2
Mvmt Flow	709	3	7	636	4	33

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0	712	0	1361
Stage 1	-	-	-	-	711
Stage 2	-	-	-	-	650
Critical Hdwy	-	-	4.13	-	6.42
Critical Hdwy Stg 1	-	-	-	-	5.42
Critical Hdwy Stg 2	-	-	-	-	5.42
Follow-up Hdwy	-	-	2.227	-	3.518
Pot Cap-1 Maneuver	-	-	883	-	163
Stage 1	-	-	-	-	487
Stage 2	-	-	-	-	520
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	883	-	162
Mov Cap-2 Maneuver	-	-	-	-	162
Stage 1	-	-	-	-	487
Stage 2	-	-	-	-	516

Approach	EB	WB	NB
HCM Control Delay, s	0	0.1	16.1
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	362	-	-	883	-
HCM Lane V/C Ratio	0.104	-	-	0.007	-
HCM Control Delay (s)	16.1	-	-	9.1	-
HCM Lane LOS	C	-	-	A	-
HCM 95th %tile Q(veh)	0.3	-	-	0	-

Lanes, Volumes, Timings

1: Baldwinsville Bypass/Anheuser Busch & NYS Route 31

11/07/2025

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	3	686	14	85	650	7	25	7	92	42	20	16
Future Volume (vph)	3	686	14	85	650	7	25	7	92	42	20	16
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	220		0	225		0	525		425	0		225
Storage Lanes	1		0	1		0	1		1	0		1
Taper Length (ft)	25			25			25			25		
Satd. Flow (prot)	1787	1876	0	1770	1859	0	1736	1827	1553	0	1784	1568
Flt Permitted	0.408			0.175			0.699				0.792	
Satd. Flow (perm)	768	1876	0	326	1859	0	1277	1827	1553	0	1461	1568
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		1			1				62			87
Link Speed (mph)		45			45			45			30	
Link Distance (ft)		707			449			803			568	
Travel Time (s)		10.7			6.8			12.2			12.9	
Peak Hour Factor	0.86	0.86	0.86	0.97	0.97	0.97	0.74	0.74	0.74	0.70	0.70	0.70
Heavy Vehicles (%)	1%	1%	1%	2%	2%	2%	4%	4%	4%	3%	3%	3%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	3	814	0	88	677	0	34	9	124	0	89	23
Enter Blocked Intersection	No	No	No	No	No	No						
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	2	1		2	1		2	2	2	1	2	0
Detector Template										Left		
Leading Detector (ft)	60	321		60	321		60	60	60	20	60	0
Trailing Detector (ft)	-10	315		-10	315		-10	-10	-10	0	-10	0
Detector 1 Position(ft)	-10	315		-10	315		-10	-10	-10	0	-10	0
Detector 1 Size(ft)	30	6		30	6		30	30	30	20	30	20
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)	30			30			30	30	30		30	
Detector 2 Size(ft)	30			30			30	30	30		30	
Detector 2 Type	Cl+Ex			Cl+Ex			Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)	0.0			0.0			0.0	0.0	0.0		0.0	
Turn Type	Perm	NA		pm+pt	NA		Perm	NA	pm+ov	Perm	NA	Perm
Protected Phases		2		1	6			4	1		8	
Permitted Phases	2			6			4		4	8		8
Detector Phase	2	2		1	6		4	4	1	8	8	8
Switch Phase												
Minimum Initial (s)	10.0	10.0		4.0	10.0		6.0	6.0	4.0	6.0	6.0	6.0

# Lanes, Volumes, Timings

## 1: Baldwinsville Bypass/Anheuser Busch & NYS Route 31

11/07/2025

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Minimum Split (s)	16.0	16.0		8.5	16.0		11.5	11.5	8.5	11.5	11.5	11.5
Total Split (s)	41.0	41.0		22.5	41.0		30.5	30.5	22.5	30.5	30.5	30.5
Total Split (%)	43.6%	43.6%		23.9%	43.6%		32.4%	32.4%	23.9%	32.4%	32.4%	32.4%
Maximum Green (s)	35.0	35.0		18.0	35.0		25.0	25.0	18.0	25.0	25.0	25.0
Yellow Time (s)	4.5	4.5		3.5	4.5		4.0	4.0	3.5	4.0	4.0	4.0
All-Red Time (s)	1.5	1.5		1.0	1.5		1.5	1.5	1.0	1.5	1.5	1.5
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0		0.0	0.0
Total Lost Time (s)	6.0	6.0		4.5	6.0		5.5	5.5	4.5		5.5	5.5
Lead/Lag	Lag	Lag		Lead					Lead			
Lead-Lag Optimize?	Yes	Yes		Yes					Yes			
Vehicle Extension (s)	5.0	5.0		2.0	5.0		2.0	2.0	2.0	2.0	2.0	2.0
Recall Mode	Max	Max		None	Max		None	None	None	None	None	None
Act Effct Green (s)	38.5	38.5		46.2	46.4		8.6	8.6	16.9		8.6	8.6
Actuated g/C Ratio	0.62	0.62		0.75	0.75		0.14	0.14	0.27		0.14	0.14
v/c Ratio	0.01	0.70		0.23	0.49		0.19	0.04	0.27		0.44	0.08
Control Delay	8.3	17.4		4.7	6.4		27.9	24.7	11.1		33.4	0.5
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0	0.0		0.0	0.0
Total Delay	8.3	17.4		4.7	6.4		27.9	24.7	11.1		33.4	0.5
LOS	A	B		A	A		C	C	B		C	A
Approach Delay		17.4			6.2			15.2			26.6	
Approach LOS		B			A			B			C	
Queue Length 50th (ft)	1	240		8	103		12	3	18		33	0
Queue Length 95th (ft)	4	#481		22	208		29	12	38		56	0
Internal Link Dist (ft)		627			369			723			488	
Turn Bay Length (ft)	220			225			525		425			225
Base Capacity (vph)	478	1168		675	1662		531	759	774		607	702
Starvation Cap Reductn	0	0		0	0		0	0	0		0	0
Spillback Cap Reductn	0	0		0	0		0	0	0		0	0
Storage Cap Reductn	0	0		0	0		0	0	0		0	0
Reduced v/c Ratio	0.01	0.70		0.13	0.41		0.06	0.01	0.16		0.15	0.03

### Intersection Summary

Area Type: Other  
 Cycle Length: 94  
 Actuated Cycle Length: 61.9  
 Natural Cycle: 60  
 Control Type: Actuated-Uncoordinated  
 Maximum v/c Ratio: 0.70  
 Intersection Signal Delay: 13.2  
 Intersection Capacity Utilization 67.6%  
 Analysis Period (min) 15  
 Intersection LOS: B  
 ICU Level of Service C

# 95th percentile volume exceeds capacity, queue may be longer.  
 Queue shown is maximum after two cycles.

### Splits and Phases: 1: Baldwinsville Bypass/Anheuser Busch & NYS Route 31

 Ø1	 Ø2	 Ø4
22.5 s	41 s	30.5 s
 Ø6		 Ø8
41 s		30.5 s

# Lanes, Volumes, Timings

## 3: Springwoods Circle/Shriver Drive & NYS Route 370

11/07/2025

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	35	394	1	2	404	17	0	0	1	11	0	21
Future Volume (vph)	35	394	1	2	404	17	0	0	1	11	0	21
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	0	1855	0	0	1853	0	0	1627	0	0	1654	0
Flt Permitted		0.996									0.983	
Satd. Flow (perm)	0	1855	0	0	1853	0	0	1627	0	0	1654	0
Link Speed (mph)		40			40			30			30	
Link Distance (ft)		771			880			465			434	
Travel Time (s)		13.1			15.0			10.6			9.9	
Confl. Peds. (#/hr)	1		2	2		1						
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.50	0.50	0.50	0.75	0.75	0.75
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	1%	1%	1%	3%	3%	3%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	463	0	0	454	0	0	2	0	0	43	0
Enter Blocked Intersection	No	No	No	No	No	No						
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Free			Free			Stop			Stop	

### Intersection Summary

Area Type: Other

Control Type: Unsignalized

Intersection Capacity Utilization 61.7%

ICU Level of Service B

Analysis Period (min) 15

HCM 6th TWSC  
 3: Springwoods Circle/Shriver Drive & NYS Route 370

11/07/2025

Intersection

Int Delay, s/veh	1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	35	394	1	2	404	17	0	0	1	11	0	21
Future Vol, veh/h	35	394	1	2	404	17	0	0	1	11	0	21
Conflicting Peds, #/hr	1	0	2	2	0	1	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	93	93	93	93	93	93	50	50	50	75	75	75
Heavy Vehicles, %	2	2	2	2	2	2	1	1	1	3	3	3
Mvmt Flow	38	424	1	2	434	18	0	0	2	15	0	28

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	453	0	0	427	0	0	964	960	427	950	951	444
Stage 1	-	-	-	-	-	-	503	503	-	448	448	-
Stage 2	-	-	-	-	-	-	461	457	-	502	503	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.11	6.51	6.21	7.13	6.53	6.23
Critical Hdwy Stg 1	-	-	-	-	-	-	6.11	5.51	-	6.13	5.53	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.11	5.51	-	6.13	5.53	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.509	4.009	3.309	3.527	4.027	3.327
Pot Cap-1 Maneuver	1108	-	-	1132	-	-	236	258	630	239	259	612
Stage 1	-	-	-	-	-	-	553	543	-	588	571	-
Stage 2	-	-	-	-	-	-	582	569	-	550	540	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1107	-	-	1130	-	-	217	245	629	229	246	611
Mov Cap-2 Maneuver	-	-	-	-	-	-	217	245	-	229	246	-
Stage 1	-	-	-	-	-	-	527	517	-	561	569	-
Stage 2	-	-	-	-	-	-	554	567	-	524	515	-

Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.7			0			10.7			15.4		
HCM LOS							B			C		

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	629	1107	-	-	1130	-	-	388
HCM Lane V/C Ratio	0.003	0.034	-	-	0.002	-	-	0.11
HCM Control Delay (s)	10.7	8.4	0	-	8.2	0	-	15.4
HCM Lane LOS	B	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0	0.1	-	-	0	-	-	0.4

Lanes, Volumes, Timings  
 10: Proposed Road & NYS Route 31

11/07/2025

						
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	823	5	31	739	3	20
Future Volume (vph)	823	5	31	739	3	20
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)		0	100		0	0
Storage Lanes		0	1		1	0
Taper Length (ft)			25		25	
Satd. Flow (prot)	1879	0	1770	1863	1631	0
Flt Permitted			0.950		0.994	
Satd. Flow (perm)	1879	0	1770	1863	1631	0
Link Speed (mph)	45			45	30	
Link Distance (ft)	449			703	357	
Travel Time (s)	6.8			10.7	8.1	
Peak Hour Factor	0.86	0.86	0.97	0.97	0.90	0.90
Heavy Vehicles (%)	1%	1%	2%	2%	2%	2%
Shared Lane Traffic (%)						
Lane Group Flow (vph)	963	0	32	762	25	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane				Yes		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)		9	15		15	9
Sign Control	Free			Free	Stop	

Intersection Summary

Area Type: Other  
 Control Type: Unsignalized  
 Intersection Capacity Utilization 53.6% ICU Level of Service A  
 Analysis Period (min) 15

HCM 6th TWSC  
 10: Proposed Road & NYS Route 31

11/07/2025

Intersection

Int Delay, s/veh	0.5					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↔		↔	↑	↔	
Traffic Vol, veh/h	823	5	31	739	3	20
Future Vol, veh/h	823	5	31	739	3	20
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	86	86	97	97	90	90
Heavy Vehicles, %	1	1	2	2	2	2
Mvmt Flow	957	6	32	762	3	22

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0	963	0	1786 960
Stage 1	-	-	-	-	960 -
Stage 2	-	-	-	-	826 -
Critical Hdwy	-	-	4.12	-	6.42 6.22
Critical Hdwy Stg 1	-	-	-	-	5.42 -
Critical Hdwy Stg 2	-	-	-	-	5.42 -
Follow-up Hdwy	-	-	2.218	-	3.518 3.318
Pot Cap-1 Maneuver	-	-	715	-	90 311
Stage 1	-	-	-	-	372 -
Stage 2	-	-	-	-	430 -
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	715	-	86 311
Mov Cap-2 Maneuver	-	-	-	-	86 -
Stage 1	-	-	-	-	372 -
Stage 2	-	-	-	-	411 -

Approach	EB	WB	NB
HCM Control Delay, s	0	0.4	22.4
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	232	-	-	715	-
HCM Lane V/C Ratio	0.11	-	-	0.045	-
HCM Control Delay (s)	22.4	-	-	10.3	-
HCM Lane LOS	C	-	-	B	-
HCM 95th %tile Q(veh)	0.4	-	-	0.1	-