

New Albany Planning Commission Agenda

Monday, June 21, 2021 7:00pm

NO PUBLIC IN-PERSON ATTENDANCE IS PERMITTED

Join this meeting on your computer, tablet or smartphone.

https://us02web.zoom.us/j/89183126656 Or dial in using your phone: 646-558-8656 Access Code/ Webinar ID: 891-8312-6656

Information and directions for logging into this meeting can be found at www.newalbanyohio.org

- I. Call To Order
- II. Roll Call
- **III. Action of Minutes:** May 17, 2021
- IV. Additions or Corrections to Agenda

Swear in All Witnesses/Applicants/Staff whom plan to speak regarding an application on tonight's agenda. "Do you swear to tell the truth and nothing but the truth".

- V. Hearing of Visitors for Items Not on Tonight's Agenda
- VII. Cases:

FDP-49-2021 Final Development Plan

Final Development Plan for a 36-lot residential subdivision on 29.87 acres generally located south of Brandon Road, east and west of Lambton Park Road and north of Eryehall Pass (PID: 222-004458).

Applicant: The New Albany Company LLC c/o Aaron Underhill, Esq.

Motion of Acceptance of staff reports and related documents into the record for FDP-49-2021.

Motion of approval for application FDP-49-2021 based on the findings in the staff report with the conditions listed in the staff report, subject to staff approval.

FPL-61-2021 Final Plat

Final plat for a 36-lot residential subdivision on 29.87 acres generally located south of Brandon Road, east and west of Lambton Park Road and north of Eryehall Pass (PID: 222-004458).

Applicant: The New Albany Company LLC c/o Aaron Underhill, Esq.

Motion of Acceptance of staff reports and related documents into the record for FPL-61-2021.

Motion of approval for application FPL-61-2021 based on the findings in the staff report with the conditions listed in the staff report, subject to staff approval.

ZC-43-2021 Zoning Amendment

Rezoning of 30.6 +/- acres from R-1 to Infill-Planned Unit Development (I-PUD) generally located at the southwest and southeast corners of the New Albany Condit Road and Central College Road intersection for an area to be known as the "NoNA Zoning District."

Applicant: NoNA Master Development LLC

Motion of Acceptance of staff reports and related documents into the record for ZC-43-2021.

Motion of approval for application ZC-43-2021 based on the findings in the staff report with the conditions listed in the staff report, subject to staff approval.

- VIII. Other Business
- IX. Poll members for comment
- X. Adjournment



Planning Commission met in regular session in the Council Chambers at Village Hall, 99 W. Main Street and was called to order by Planning Commission Chair Mr. Neil Kirby at 7:06 p.m.

Those answering roll call:

Mr. Neil Kirby, Chair
Mr. Brad Shockey
Mr. David Wallace
Mr. Hans Schell
Ms. Andrea Wiltrout
Mr. Matt Shull (Council liaison)
Present
Present
Present

(Mr. Kirby, Mr. Wallace, Mr. Schell, Ms. Wiltrout, and Mr. Shull present via Zoom.com).

Staff members present: Steven Mayer, Development Services Coordinator (via Zoom.com); Chris Christian, Planner; Mitch Banchefsky, City Attorney (via Zoom.com); and Josie Taylor, Clerk (via Zoom.com).

Moved by Mr. Wallace, seconded by Mr. Kirby to approve the April 19, 2021 meeting minutes. Mr. Wallace, yea; Mr. Kirby, yea; Mr. Schell, yea; Ms. Wiltrout, yea. Yea, 4; Nay, 0; Abstain, 0. Motion passed by a 4-0 vote.

Mr. Kirby asked if there were any additions or corrections to the Agenda.

Mr. Christian stated none from staff.

Mr. Wallace noted two applications from the prior month's meeting had been tabled until this evening's meeting but he did not see them on the Agenda.

Mr. Christian noted the applicant had withdrawn the previously tabled applications for CU-7-2021 and CU-9-2021.

Mr. Kirby swore all who would be speaking before the Planning Commission (hereafter, PC) this evening to tell the truth and nothing but the truth.

Mr. Underhill stated he swore to tell the truth and nothing but the truth.

Mr. Kirby asked if there were any persons wishing to speak on items not on tonight's Agenda. (No response.)

Mr. Christian reviewed the process on how to speak on the Zoom meeting if anyone wanted to participate.

TM-44-2021 Text Modification

Text modification to the Walton-62 Commerce District I-PUD zoning district to add standard provisions relating to the variance and appeals(PIDs: 222-000616 and 222-000617).

Applicant: New Albany Company LLC, c/o Aaron Underhill, Esq.

Mr. Christian presented the staff report.

Mr. Kirby asked for confirmation there were no Engineering comments.

Mr. Christian stated there were not.

Mr. Kirby asked to hear from the applicant.

Mr. Aaron Underhill, attorney for the applicant, discussed the application.

Mr. Kirby asked if there were any questions or comments from the public. (No response.)

Mr. Wallace stated he had noticed a wording issue in Section 3 and was glad Mr. Christian had mentioned it in his presentation. Mr. Wallace stated he believed that Section 1B should use more gender neutral pronouns.

Mr. Underhill stated that was fine.

Mr. Wallace asked if this was standard language that would be in other PUD zoning text.

Mr. Christian stated yes.

Mr. Wallace asked if these types of variances were decided under the Duncan factors.

Mr. Christian stated they would be evaluated against the Duncan factors.

Mr. Banchefsky stated that was correct.

Mr. Wallace asked Mr. Banchefsky if the language in Section 2 changed the standard due from the Duncan factors.

Mr. Mayer stated it was boilerplate language from the city's codified ordinances and that the Duncan factors will continue to be used. Mr. Mayer stated the only change would be procedural in that now the PC, not the Board of Zoning Appeals, would hear the variances but the evaluation of variances would be under the Duncan factors.

Mr. Kirby asked if that answered the question.

Mr. Wallace asked if Section 2 was necessary.

Mr. Underhill sated he believed the language was from 1998 and had been used since then. Mr. Underhill said it had been interpreted as a recitation of code and there were numerous examples where the Duncan factors had been applied, as Mr. Mayer stated.

Mr. Wallace stated okay.

Mr. Schell stated that if the City was comfortable with the verbiage then he was too.

Moved by Mr. Kirby to accept the staff reports and related documents into the record for TM-44-2021, seconded by Ms. Wiltrout. Upon roll call vote: Mr. Kirby, yea; Ms. Wiltrout, yea; Mr. Schell, yea; Mr. Wallace, yea. Yea, 4; Nay, 0; Abstain, 0. Motion passed by a 4-0 vote.

Moved by Ms. Wiltrout to approve application TM-44-2021 based on the findings in the staff report, with the conditions listed in the staff report, subject to staff approval, seconded by Mr. Schell. Upon roll call: Ms. Wiltrout, yea; Mr. Schell, yea; Mr. Wallace, yea; Mr. Kirby, yea. Yea, 4; Nay, 0; Abstain, 0. Motion passed by a 4-0 vote.

Other Business

Mr. Kirby asked if there was any other business.

Mr. Christian stated no.

Mr. Mayer stated that another application for formal review would occur on June 7, 2021 and asked PC members to let staff know if they would be available for the meeting.

Ms. Wiltrout, Mr. Schell, Mr. Kirby, and Mr. Wallace stated they would be available.

Mr. Schell asked if the development would be age restricted.

Mr. Mayer stated some of it would be.

Poll Members for Comment

None.

Mr. Kirby adjourned the meeting at 7:23 p.m.

Submitted by Josie Taylor.

APPENDIX



Planning Commission Staff Report May 17, 2021 Meeting

WALTON-62 COMMERCE I-PUD ZONING TEXT AMENDMENT

LOCATION: Walton-62 Commerce District I-PUD zoning district at 9999 Johnstown Road

and 9887 Johnstown Road (PIDs: 222-000616 and 222-000617).

APPLICANT: New Albany Company LLC, c/o Aaron Underhill, Esq.

REQUEST: PUD Text Amendment

ZONING: I-PUD Infill Planned Unit Development (Walton-62 Commerce District)

STRATEGIC PLAN: Retail

APPLICATION: TM-44-2021

Review based on: Application materials received April 23, 2021.

Staff report completed by Chris Christian, Planner.

I. REQUEST AND BACKGROUND

The applicant requests a modification to the Walton-62 Commerce District I-PUD zoning text to add standard provisions relating to the variance and appeals process within the zoning district. The entitlement process for properties within I-PUD zoning districts require a final development plan application to be reviewed and approved by the Planning Commission in most cases. Due to this, an additional provision is typically included in an I-PUD zoning text that allows the Planning Commission to review variance applications. This provision is currently absent in the text therefore variance applications are required to be heard by the Board of Zoning Appeals.

In order to create a streamlined entitlement process, the applicant and city staff propose to add the requirement in this text stating that variances and appeals are to be heard by the Planning Commission. There are no proposed changes to the permitted uses within the district or development standards.

The Planning Commission reviewed and recommended approval of the rezoning of this zoning district on April 24, 2019 (ZC-6-2019) and City Council approved the rezoning on May 7, 2019 (O-09-2019).

II. SITE DESCRIPTION & USE

The 12.47-acre zoning district is largely undeveloped currently. On March 16, 2020, the Planning Commission reviewed and approved a final development plan application for a Sheetz gas station and convenience store which is currently under construction in the zoning district (FDP-15-2020).

III. NEW ALBANY SRATEGIC PLAN

The zoning district is located within the Retail future land use district and the Engage New Albany Strategic Plan lists the following development standards for this land use:

- a) Parking areas should promote pedestrians by including walkways and landscaping to enhance visual aspects of the development.
- b) Combined curb cuts and cross-access easements are encouraged.
- c) Curb cuts on primary streets should be minimized and well-organized connections should be created within and between individual buildings.
- d) Retail building entrances should connect with pedestrian network and promote connectivity through the site.
- e) Integrate outdoor spaces for food related businesses.

IV. ASSESSMENT

Review is based on the city's Strategic Plan, existing zoning text, and planning, subdivision and zoning regulations, including the design standards. Primary concerns and issues have been indicated below, with needed action or recommended action in underlined text.

Per Codified Ordinance Chapter 1159.08 the basis for approval of an I-PUD shall be:

- a. That the proposed development is consistent in all respects with the purpose, intent and applicable standards of the Zoning Code;
- b. That the proposed development is in general conformity with the Strategic Plan or portion thereof as it may apply;
- c. That the proposed development advances the general welfare of the Municipality;
- d. That the benefits, improved arrangement and design of the proposed development justify the deviation from standard development requirements included in the Zoning Ordinance;
- e. Various types of land or building proposed in the project;
- f. Where applicable, the relationship of buildings and structures to each other and to such other facilities as are appropriate with regard to land area; proposed density of dwelling units may not violate any contractual agreement contained in any utility contract then in effect;
- g. Traffic and circulation systems within the proposed project as well as its appropriateness to existing facilities in the surrounding area;
- h. Building heights of all structures with regard to their visual impact on adjacent facilities;
- i. Front, side and rear yard definitions and uses where they occur at the development periphery;
- j. Gross commercial building area;
- k. Area ratios and designation of the land surfaces to which they apply;
- *l.* Spaces between buildings and open areas;
- m. Width of streets in the project;
- n. Setbacks from streets;
- o. Off-street parking and loading standards;
- p. The order in which development will likely proceed in complex, multi-use, multi-phase developments;
- *q.* The potential impact of the proposed plan on the student population of the local school district(s);
- r. The Ohio Environmental Protection Agency's 401 permit, and/or isolated wetland permit (if required);
- s. The U.S. Army Corps of Engineers 404 permit, or nationwide permit (if required).

<u>Per Codified Ordinance Chapter 1111.06 in deciding on the change, the Planning Commission shall consider, among other things, the following elements of the case:</u>

- (a) Adjacent land use.
- (b) The relationship of topography to the use intended or to its implications.
- (c) Access, traffic flow.
- (d) Adjacent zoning.
- (e) The correctness of the application for the type of change requested.
- (f) The relationship of the use requested to the public health, safety, or general welfare.

- (g) The relationship of the area requested to the area to be used.
- (h) The impact of the proposed use on the local school district(s).

V. EVALUATION

- 1. The applicant requests a modification to the Walton-62 Commerce District I-PUD zoning text to add standard provisions relating to the variance and appeals process for the district. City codified ordinance 1113 establishes that the Board of Zoning Appeals shall hear variances to the development standards contained in the city's zoning ordinance. The modifications allow variances within this specific zoning district to be heard by the Planning Commission. This is the typical I-PUD language present in the majority of PUD texts.
- 2. City staff and the applicant recently became aware of this standard language is missing. City staff believes the appeals and variance language was meant to be included during the original rezoning but was unintendedly left out.
- 3. There are no proposed changes to the permitted uses or development standards within the district.
- 4. The proposed appeals language is consistent with what already exists in city code. The modification clarifies appeals to the interpretation or administration of the zoning text will be heard by the Board of Zoning Appeals. Adding these requirements directly in the zoning text ensures that developers have all relevant information readily available in one zoning text document.
- 5. The entitlement process for properties within I-PUD zoning districts require a final development plan application to be reviewed and approved by the Planning Commission. Knowing speed to market is desirable by developers, the city and applicant historically have included language allowing variances to be heard by the Planning Commission as an economic development incentive. This provision is currently absent in the text therefore variance applications are required to be heard by the Board of Zoning Appeals by default, creating a longer entitlement process.
- 6. In order to create a streamlined entitlement process, the applicant proposes to add the requirement in this text stating that variances and appeals are to be heard by the Planning Commission. Through rezoning and final development plan applications, the Planning Commission becomes intimately familiar with the development standards established both in the strategic plan and zoning texts. For this reason, staff and the applicant believe that the Planning Commission is the most appropriate board to evaluate variance applications in this and other I-PUD zoning districts.

VI. RECOMMENDATION

Basis for Approval:

Staff recommends approval of the zoning text modification application. The applicant is not proposing to modify or add any new permitted uses or change any of the development standards. The application simplifies the entitlement process for new developers in this area and matches other approved PUD zoning texts. Due to the Planning Commissions intimate involvement in reviewing zoning change and final development plan applications within PUD zoning districts, staff believes that it is the most appropriate board to evaluate variance requests within this zoning district. This allows the Planning Commission to evaluate final development plans and variance comprehensively. Additionally, adding these provisions provides a streamlined entitlement process for new development by ensuring that one board meeting is necessary.

VII. ACTION

Suggested Motion for TM-44-2021:

Move to approve zoning text modification application TM-44-2021 (conditions of approval may be added).

Approximate site location:



Source: Google Earth



Planning Commission Staff Report June 21, 2021 Meeting

NEW ALBANY COUNTRY CLUB SECTION 30 FINAL DEVELOPMENT PLAN

LOCATION: A portion of a property generally located north and west of Lambton

Park and south of Brandon Road (PID: 222-004458).

APPLICANT: The New Albany Company LLC, c/o Aaron Underhill, Esq.

REQUEST: Final Development Plan

ZONING: 1998 NACO C-PUD; subarea 1.d

STRATEGIC PLAN: Residential District APPLICATION: FDP-49-2021

Review based on: Application materials received May 21 and June 7, 2021.

Staff report completed by Chris Christian, Planner.

I. REQUEST AND BACKGROUND

The application is for a final development plan for Section 30 of the New Albany Country Club. This new section includes 36 residential lots and three new streets. The applicant also requests review and approval of a final plat application (FPL-61-2021) that is evaluated under a separate staff report.

The property is zoned C-PUD. C.O. 1159.03 states the process in a C-PUD shall consist of a Comprehensive Plan which shall constitute the rezoning of the property; a Preliminary Development Plan which shall consist of more detailed plans for a subarea or subareas of the Comprehensive Plan; and a Final Development Plan which shall consist of a detailed development and engineering plans for a subarea or portion of a subarea. On March 15, 2021, the Planning Commission approved a preliminary development plan for this same area with conditions (PDP-20-2021).

The Parks and Trails Advisory Board reviewed the application at their June 7, 2021 meeting and recommended approval to the Planning Commission.

II. SITE DESCRIPTION & USE

The 29.87+/- acre development area is part of a larger 105.34+/- acre property. A majority of the 105.34 acre property contains portions of the New Albany Country Club golf course as well as some undeveloped land where residential uses are permitted to be developed. The surrounding land uses include the golf course and residentially zoned and used land.

III. PLAN REVIEW

Staff's review is based on New Albany plans and studies, zoning text, and zoning regulations. Primary concerns and issues have been indicated below, with needed action or recommended action in <u>underlined text</u>. Planning Commission's review authority is found under Chapter 1159.

The Commission should consider, at a minimum, the following (per Section 1159.08):

(a) That the proposed development is consistent in all respects with the purpose, intent and applicable standards of the Zoning Code;

- (b) That the proposed development is in general conformity with the Strategic Plan/Rocky Fork-Blacklick Accord or portion thereof as it may apply;
- (c) That the proposed development advances the general welfare of the Municipality;
- (d) That the benefits, improved arrangement and design of the proposed development justify the deviation from standard development requirements included in the Zoning Ordinance:
- (e) Various types of land or building proposed in the project;
- (f) Where applicable, the relationship of buildings and structures to each other and to such other facilities as are appropriate with regard to land area; proposed density may not violate any contractual agreement contained in any utility contract then in effect;
- (g) Traffic and circulation systems within the proposed project as well as its appropriateness to existing facilities in the surrounding area;
- (h) Building heights of all structures with regard to their visual impact on adjacent facilities;
- (i) Front, side and rear yard definitions and uses where they occur at the development periphery;
- (j) Gross commercial building area;
- (k) Area ratios and designation of the land surfaces to which they apply;
- (l) Spaces between buildings and open areas;
- (m) Width of streets in the project;
- (n) Setbacks from streets;
- (o) Off-street parking and loading standards;
- (p) The order in which development will likely proceed in complex, multi-use, multi-phase developments;
- (q) The potential impact of the proposed plan on the student population of the local school district(s);
- (r) The Ohio Environmental Protection Agency's 401 permit, and/or isolated wetland permit (if required);
- (s) The U.S. Army Corps of Engineers 404 permit, or nationwide permit (if required).

It is also important to evaluate the PUD portion based on the purpose and intent. Per Section 1159.02, PUD's are intended to:

- a. Ensure that future growth and development occurs in general accordance with the Strategic Plan;
- b. Minimize adverse impacts of development on the environment by preserving native vegetation, wetlands and protected animal species to the greatest extent possible
- c. Increase and promote the use of pedestrian paths, bicycle routes and other non-vehicular modes of transportation;
- d. Result in a desirable environment with more amenities than would be possible through the strict application of the minimum commitment to standards of a standard zoning district:
- e. Provide for an efficient use of land, and public resources, resulting in co-location of harmonious uses to share facilities and services and a logical network of utilities and streets, thereby lowering public and private development costs;
- f. Foster the safe, efficient and economic use of land, transportation, public facilities and services;
- g. Encourage concentrated land use patterns which decrease the length of automobile travel, encourage public transportation, allow trip consolidation and encourage pedestrian circulation between land uses;
- h. Enhance the appearance of the land through preservation of natural features, the provision of underground utilities, where possible, and the provision of recreation areas and open space in excess of existing standards;
- *i.* Avoid the inappropriate development of lands and provide for adequate drainage and reduction of flood damage;
- j. Ensure a more rational and compatible relationship between residential and nonresidential uses for the mutual benefit of all;
- k. Provide an environment of stable character compatible with surrounding areas; and

l. Provide for innovations in land development, especially for affordable housing and infill development.

A. Engage New Albany Strategic Plan

The site is located within the Residential District future land use district. The Engage New Albany Strategic Plan lists the following development standards for the Residential District:

- Organically shaped stormwater management ponds and areas should be incorporated into the overall design as natural features and assets to the community.
- Houses should front onto public open spaces and not back onto public parks or streets.
- All or adequate amounts of open space and parkland is strongly encouraged to be provided on-site.
- A hierarchy of open spaces is encouraged. Each development should have at least one open space located near the center of the development. Typically, neighborhood parks range from a half an acre to 5 acres. Multiple greens may be necessary in large developments to provide centrally located greens.
- Adequate amounts of open space and parkland are encouraged to be provided on site.
- Rear or side loaded garages are encouraged. When a garage faces the street, the front façade of the garage should be set back from the front facade of the house.
- Any proposed residential development outside of the Village Center shall have a base
 density of 1 dwelling unit per gross acre in order to preserve and protect the community's
 natural resources and support the overall land conservation goals of the community. A
 transfer of residential density can be used to achieve a gross density of 1 dwelling unit
 per acre.
- Private streets are at odds with many of the community's planning principles such as: interconnectivity, a hierarchy of street typologies and a connected community. To achieve these principles, streets within residential developments must be public.

The Engage New Albany Strategic Plan recommends the following standards as prerequisites for all development proposals in New Albany:

- Development should meet setback recommendations contained in strategic plan.
- Streets must be public and not gated. Cul-de-sacs are strongly discouraged.
- Parks and open spaces should be provided, publicly dedicated and meet the quantity requirements established in the city's subdivision regulations (i.e. 20% gross open space and 2,400 sf of parkland dedication for each lot).
 - O All or adequate amounts of open space and parkland is strongly encouraged to be provided on-site. If it cannot be provided on-site, purchasing and publicly dedicating land to expand the Rocky Fork Metro Park or park space for the Joint Parks District is an acceptable alternative.
- The New Albany Design Guidelines & Requirements for residential development must be met.
- Quality streetscape elements, including an amenity zone, street trees, and sidewalks or leisure
- trails, and should be provided on both sides of all public streets.
- Homes should front streets, parks and open spaces.
- A residential density of 1 dwelling unit (du) per acre is required for single-family residential and a density of 3 du per acre for age restricted housing.
 - O Higher density may be allowed if additional land is purchased and deed restricted. This type of density "offset" ensures that the gross density of the community will not be greater than 1 unit per acre. Any land purchased for use as an offset, should be within the NAPLS district or within the metro park zone.
 - 3 du/acre is only acceptable if 100% age restricted. Otherwise, the federal regulations and criteria for subdivisions to qualify as age-restricted must be accounted for when calculating density (i.e. 80% age restricted and 20% non-age restricted).

O Age restriction must be recorded as a deed restriction and included as a requirement in the subdivision's zoning text.

B. Use, Site and Layout

- 1. The applicant proposes to create a new section of the New Albany Country Club, Section 30 within the 1.d subarea (Lambton Park Central Cluster) of the 1998 NACO C-PUD Comprehensive Plan.
- 2. Zoning text section 1d.01(1) permits a maximum of 88 single family cluster detached and attached housing types to be developed in the subarea. The applicant proposes to develop 36 units within the subarea and deposit the remaining 52 permitted units into the NACO PUD housing bank on record with the city.
- 3. Zoning text section 1d.01(8) requires all lots to have frontage and access on a public and/or private right-of-way and this requirement is being met.
- 4. Zoning text section 1d.01(3) states that the minimum lot width at the building line shall be 50 feet. All of the proposed lots are meeting this requirement.
- 5. Zoning text section 1d.01(9) states that reasonable and good faith efforts will be made to not back homes onto public rights-of-way and public parks. There are lots situated where homes may back onto the adjacent private, New Albany Country Club golf course and proposed privately owned reserve areas within the subdivision. As proposed, this requirement is being met as the lots are situated to allow homes to front onto public rights-of-way.

6. Zoning text section 1d.01(4) requires the following setbacks:

| Perimeter Boundary | Required Setback |
|--------------------|----------------------------|
| Front Yard | 15 feet |
| Rear Yard | 10 feet |
| Side Yard | 10 feet for detached homes |
| | 0 feet for attached homes |

All of the proposed lots are meeting the minimum required setbacks.

C. Access, Loading, Parking

- 1. As proposed, the site is serviced using a new street created using an existing stub of Baughman Grant and one new curb cut on Lambton Park Street that aligns with Head of Pond Road.
 - a. Zoning text section 1d.02(2)(a) requires cluster street to be 22 feet wide from curb to curb with 40 feet of right-of-way to be provided. In order to address comments and concerns expressed during the preliminary development plan hearing, the applicant proposes a 22-foot paved street at both entrances into this new section in order to deemphasize the street and force traffic to slow down when approaching these intersections. The remainder of the street will be 24 feet wide throughout the rest of the section and 50 feet of right-of-way is being provided for the entire street, meeting the zoning text requirement. For comparison, typical subdivision streets are 26 feet wide based on the city's subdivision regulations. The 22 and 24 foot street sections here appear to be appropriate.
- 2. The subdivision includes one cul-de-sac street on the northern portion of the site and a one-way loop street on the southeast portion of the site.
 - a. Zoning text section 1d.02(2)(a) requires this cul-de-sac street to be 22 feet wide from curb to curb with 40 feet of right-of-way to be provided. As proposed, the cluster street on the northern portion of the site is proposed to be 22 feet wide from face of curb to face of curb with 50 feet of right-of-way, meeting this requirement.
 - i. The city's subdivision regulations C.O. 1187.08(a)(5) states no cul-de-sac shall exceed six hundred (600) feet in length unless lot widths exceed one hundred (100) feet at building setback lines, then the maximum length shall not exceed one thousand (1,000) feet. This cul-de-sac is approximately 421+/- feet in length.

- b. The one way, loop street shown on the southeast portion of the site is proposed to be 20 feet wide from face of curb to face of curb with 34 feet of right of way.
 - i. The proposed street width matches the design of similar streets in the New Albany Country Club including Coldicott Leys in Ebrington which is a one-way street.
 - ii. The proposed street matches the city subdivision regulation requiring 20 feet of pavement for one-way streets.
- 3. Zoning text section 1d.02(4) states that on street parking is prohibited on pavement widths of 22 feet and on curvilinear sections of streets measuring 26 feet. The final development plan states that on street parking will be prohibited for all streets that are 22-23 feet wide, however the applicant did not provide the location of no parking signs on the plans. Staff recommends a condition of approval that on street parking be prohibited for all streets less than 24 feet in width and that the applicant provide the locations of no parking signs as part of the private site improvement plan during the permitting process, subject to staff approval.
- 4. The applicant provided a turn study analysis for larger emergency vehicles that demonstrates successful turn movements.
- 5. The city engineer has reviewed all proposed streets within the subdivision and is supportive of their design and locations. Additionally, the city engineer states that the new intersection at Lambton Park and Head of Pond Road does as design and submitted does not present any pedestrian safety concerns due to the traffic volumes in the area, sufficient sight distance for both pedestrians and motorists, and the design of the intersection.
 - a. The street network provided accomplishes an important objective contained in the Engage New Albany Strategic Plan by maximizing connectivity and safety of street networks in the city. The strategic plan recommends providing multiple connections to distribute traffic throughout streetway networks and to connect stub streets, like Baughman Grant and the existing Head of Pond stub, in order to improve connectivity and mobility between neighborhoods.
 - b. The applicant provided a memo stating that the final design of the Lambton Park Road and Head of Pond intersection was determined based on several items including the preservation of existing trees, site grading, safety of both pedestrians and motorists and pedestrian connectivity. To accomplish this, the applicant has narrowed the street with at this intersection to calm traffic, added granite cobbles similar to what has been employed in other sections of the country club and established a lower grade to ensure existing tree survivability. The city staff has reviewed the intersection and is supportive of its design.
- 6. The final development plan also illustrates that the applicant proposes to improve pedestrian connectivity at the new Head of Pond and Lambton Park Road intersection by adding two pedestrian crossings that will allow pedestrians to cross Lambton Park Road on both sides of the street.

D. Architectural Standards

- 1. The architectural standards for this section have been approved as part of the 1998 NACO C-PUD zoning text. This development will contain custom designed homes and the Community Development Department staff, including the city architect, will review zoning/building permits to enforce the architectural standards of the zoning text. The applicant submitted a memo stating that the existing, Tidewater Georgian architectural vocabulary that is employed throughout the New Albany Country Club will be utilized for this development. Additionally, the applicant states that the development will incorporate a more liberal interpretation of this style, much like what has developed in the Ealy Crossing neighborhood.
- The existing zoning text contains the same high-quality architectural standards that have made the New Albany Country Club neighborhoods so successful. Many of these existing standards were used to develop the New Albany Design Guidelines and Requirements

- a. The text allows windows to be of traditional themes, requires simulated or true divided light in double hung windows.
- b. Brick, wood siding and composite material such as hardi-plank are permitted exterior building materials.
- c. The text prohibits double bay garage doors and individual garage doors cannot be wider than 9 feet.

E. Parkland, Buffering, Landscaping, Open Space, Screening

- 1. Per C.O. 1159.07, detailed landscaping plans must be provided for all areas of the final development plan. The landscape plan must include the proposed landscape for all reserve areas and street lawns. The applicant submitted a proposed street tree plan for the subdivision. Staff recommends a condition of approval that the landscape plan for the reserve areas, stormwater basin and entry features be subject to staff approval.
- 2. Section 1d.03(1)(3)(c) requires the developer to install a four-foot-wide sidewalk along both sides of all streets in the development within the right-of-way. The applicant is largely exceeding this requirement by providing a 5-foot sidewalk and 8-foot-wide leisure trail throughout the development. There is one section on the southwest side of the new Head of Pond intersection where there is no sidewalk present. The applicant states that the reasoning not including pedestrian connectivity along this short section is to maintain existing trees on the site as required by the Planning Commission at the time of rezoning. Staff recommends a condition of approval that the developer explore any possibilities of field locating a sidewalk or leisure trail within this area while being sensitive to existing trees, subject to staff approval.
- 3. The city subdivision regulations require parkland and open space to be provided as part of the construction of a new subdivision. Zoning text section 1d.04(2) states that land must be dedicated as parks and open space within the subarea.
- 4. C.O. 1187.15(a) requires 2,400 square feet of parkland to be dedicated per dwelling unit, as part of the development of a new subdivision. Additionally, C.O. 1187.16(a) requires 20% of the gross developed land area to be used as open space. The table below shows the required and proposed amounts of parkland and open space. As noted in the application materials, the applicant intends to offset their shortage of parkland by using the NACO parkland bank credits on record with the city. The amount of open space provided does not meet code requirements. The Parks and Trails Advisory board reviewed the application and recommended approval during their June 7, 2021 meeting. Staff recommends a condition of approval that the applicant use the parkland/open space bank credits to offset the shortage of open space and parkland dedication.

| C.O. | Shown on | Required | Provided | Difference | Meets |
|-------------|----------|----------|----------|------------|-------|
| Requirement | FDP as | (acres)* | (acres) | | Code? |
| 1187.16 | Reserves | 5.974 | 5.95 | -0.024 | No |
| Open Space | | | | | |
| 1187.15 | Reserves | 1.98 | 0.93 | -1.05 | No |
| Parkland | | | | | |
| Dedication | | | | | |
| | Total | 7.95 | 6.88 | -1.07 | No |

^{*}Calculations based on 29.87 acres and 36 lots.

- 5. The final development plan states that all open space and parkland will be owned and maintained by the city. In order to meet code requirements and to be consistent with recently approved subdivisions, staff recommends a condition of approval that:
 - a. Reserves A, B, C, E, F, and G be owned by the city and maintained by the HOA in perpetuity.
 - b. Reserve D be owned and maintained by the HOA in perpetuity. Reserve D contains a wetland and there is no opportunity to develop any amenities and/or

trails within in it in order to meet the environmental regulations of this space. Keeping this space privately owned, to match with its OEPA permits appears appropriate in this case.

- 6. The applicant does not propose to install any playground equipment within this section of the country club. Section 1d.04(2) of the zoning text states that parks and open spaces will be in the form of neighborhood parks to service the needs of the residents and that the goal is to have some open space area within 1,200 l.f. of all residential units. Additionally, the text states that the developer will use reasonable good faith efforts to accomplish this and if it cannot be achieved will demonstrate a reasonable hardship and what mitigating factors will be made. It appears that all of the homes are within 1,200 l.f. of open space areas. Adjacent sections of the country club include parks such as Lambton Park (1,000+/- feet away) and Tiverton (1,200 +/- feet away) that contain playground amenities.
- 7. Zoning text section 1d.04(3) states that street trees must be installed on both sides of internal streets at an average rate of one tree every 30 feet. The trees must have a caliper of 2.5 inches. The applicant is meeting this requirement.

F. Lighting & Signage

1. Zoning text section 1d.05(1)(b) requires the typical Village of New Albany gooseneck street lights to be utilized. Zoning text section 1d.06 requires the developer to use the standard city street and regulatory signage. The final development plan states that all regulatory signs will be in accordance with City of New Albany standards and consistent with existing country club communities.

G. Other Considerations

- 1. The Applicant proposes to erect brick piers at the northern and southern entrances into the subdivision. The pier height is approximately 10' and two of the piers at the northern entrance will be located within the right-of-way. These piers are similar to those approved by the Planning Commission for other sections of the country club.
- 2. The piers located within the right-of-way do not appear to be located at intersections, therefore should not pose any sight distance visibility conflicts. However, the city engineer and city attorney will have to review the proposal for safety and liability concerns. The city engineer and attorney will determine the appropriate legal mechanism that is necessary for the applicant and the city to execute in order to allow the piers to be located as proposed and staff recommends that this be a condition of approval.
- 3. The city will not be able to maintain the piers, fences and cobblestone within the right-of-way, therefore the applicant must commit to the maintenance, repair and replacement of these items through an agreement with the city. Similar agreements have been executed for the same items located in different sections of the country club.
- 4. The boundaries of the development plan conform to the boundaries of the subarea, meeting the intent of the zoning district.

IV. ENGINEER'S COMMENTS

The City Engineer has reviewed the referenced plan in accordance with the engineering related requirements of Code Section 1159.07(b)(3) and provided the following comments. <u>Staff</u> recommends a condition of approval that these comments be addressed, subject to staff approval.

- 1. Refer to Note E, sheet 1 of 8. Confirm that Reserves are to be maintained by the City.
- 2. Remove the note at the bottom of sheet 2 of 8 requiring City approval to utilize RCC pavement base.
- 3. Sheet 3 of 4 shows proposed R/W of 34' near Reserve A. Typical street sections shown on sheet 2 of 8 show no streets with proposed R/W of 34'. Please revise.
- 4. Sheet 3 and 4 of 8 of the FDP shows 20' pavement widths at the cul-de-sac. Typical street sections shown on sheet 2 of 8 show no pavement widths of 20'. Please revise.
- 5. We recommend that "No Parking Signs" be added along curved sections of streets.

6. We will evaluate storm water management, sanitary sewer collection and streetway construction related details once construction plans become available

V. RECOMMENDATION

Basis for Approval:

Staff is supportive of the final development plan as it is in conformity with the Residential land use recommendations of the Engage New Albany Strategic Plan. The site is unique as it is surrounded by the golf course on three sides and a wetland on the north side which warrant special design considerations. The applicant has designed this new development to be sensitive and complementary to the established character of the immediate area that provides connectivity for motorists and pedestrians.

There are two existing road stubs at Baughman Grant to the north and Head of Pond to the south. These road stubs were installed to provide connectivity and they should be utilized. Well-networked streets provide shorter, more direct routes between destinations. This increases the efficiency and reliability of the road network and allows for better traffic flow throughout the larger network. The intersections are designed to match other successful intersections within the county club community through the use of narrowed streets, granite cobbles, cross walks and handicapped ramps installed across Lambton Park Road to both east and west side of Head of Pond Road, and vehicular and pedestrian scaled signage to alert motorists and walkers.

Staff recommends approval provided that the Planning Commission finds the proposal meets sufficient basis for approval with the conditions of the approval listed below.

VI. ACTION

Suggested Motion for FDP-49-2021:

Move to approve preliminary development plan application FDP-49-2021 based on the findings in the staff report with the following conditions.

- 1. On street parking is prohibited for all streets less than 24 feet in width and the applicant must provide the locations of no parking signs as part of the private site improvement plan during the permitting process.
- 2. The landscape plan for the reserve areas, stormwater basin and entry features is subject to staff approval.
- 3. The developer must explore any possibilities of field locating a sidewalk or leisure trail along the southwest section of the new street while being sensitive to existing trees, subject to staff approval.
- 4. The applicant must deduct 1.07 +/- acres of parkland/open space bank credits to offset the shortage of open space and parkland dedication.
- 5. All open space and parkland, with the exception of reserve D, be owned by the city and maintained by the HOA in perpetuity.
- 6. The city engineer and attorney will determine the appropriate legal mechanism that is necessary for the applicant and the city to execute in order to allow the piers to be located as proposed.
- 7. The city engineer comments must be addressed, subject to staff approval.

Approximate Site Location:



Source: Google Earth

MEMORANDUM

Date: June 9, 2021

To: Mr. Chris Christian, Planner

From: Tom Rubey, New Albany Company

Re: New Albany Country Club Section 30

Dear Chris,

In preparation for our meeting with the Planning and Zoning Commission later this month, thought a quick letter to enumerate several items would be helpful.

Alignment and design of the Head of Pond Road extension has been determined, based on several items including; existing trees, site grading, safety of both pedestrians and motorists and pedestrian connectivity. To that end, our application includes a reduction in pavement width, modified material (granite cobbles), as well as pedestrian path connection limited to east side of the street only. Final grade of the road will be set once Engineering Plans have been completed. We anticipate lowering the grade / road within this area, approx. one foot to a foot and a half. Final grade will be established based on best practices to ensure existing tree survivability.

Finally, our goal is to landscape both sides of the road "heavily" with a mixture of large shade and ornamental trees in an effort to create an entrance that feels very private and reduced in scale. Our requests includes working closely with the City Landscape Architects and design team as we finalize these details.

After lengthy discussion about alternative architectural styles and materials, we have landed on continuing the existing architectural vocabulary for this neighborhood, as Tidewater Georgian. We will incorporate a more liberal interpretation of this style, much like what you see in the Ealy Crossing subdivision. This may include use of some stone, painted white or off-white brick homes, and cut stone or wood lintels.



June 1, 2021

Mr. Steve Mayer
City of New Albany
Development Department
99 West Main Street
New Albany, OH 43054

Subject: Country Club Section 30 - Environmental Compliance

Dear Mr. Mayer,

This letter serves to inform the City of New Albany of environmental conditions associated with the Country Club Section 30 project, located south of Baughman Grant Road, and west, east, and north of Lambton Park Road, in the City of New Albany, Franklin County, Ohio. The property consists of an agricultural field with a pond, wetlands, stream, and scattered trees.

The property was delineated for Waters of the U.S. in 2016 by the Environmental Department of EMH&T. The property contained an isolated wetland, three jurisdictional wetlands, a pond, and a stream. An Isolated Wetlands Permit was obtained from Ohio EPA in 2017 to impact the isolated wetland, and it was subsequently filled by the New Albany Company (NACO). A permit was also obtained from the U.S. Army Corps of Engineers (USACE) to extend a new road from Baughman Grant into the site and across a wetland and stream. These impacts have not been made by NACO. NACO has recently revised the USACE permit in order to increase the amount of requested impact to the stream and wetland. The permit was issued on April 28 and can be made available upon request.

If you have any questions regarding this information or require additional documentation, please do not hesitate to contact me at (614) 775-4515.

Sincerely,

EVANS, MECHWART, HAMBLETON & TILTON, INC.

Robert F. Milligan

Director of Environmental Services

What. Milligen

Principal

Cc: Brian Quackenbush, EMH&T

NOTES

NOTE "A": No determination has been made by the City of New Albany, Ohio as to whether the area proposed to be platted contains area(s) that could be classified as Wetlands by the Army Corps of Engineers. It is the developer's responsibility to determine whether Wetlands exist on the area hereby platted. The City of New Albany, Ohio approval of this Final Development Plan of New Albany Country Club Section 30 does not imply any approval of the site as it may pertain to Wetlands.

NOTE "B": AGRICULTURAL RECOUPMENT: Grantor, being the duly authorized representative of the developer dedicating the property described in this plat, hereby agrees that grantor will indemnify the City of New Albany, Ohio, for and hold it harmless from any agricultural recoupments assessed or levied in the future against the property dedicated herein which result from grantor's conversion of the property from agricultural use.

NOTE "C": All of the area hereby platted are outside of the 0.2% annual chance floodplain as shown on Federal Emergency Management Agency Flood Insurance Rate Map for Franklin, County, Ohio and incorporated Areas, map numbered 39049C0212 K with effective date of June 17, 2008.

NOTE "D": VEHICULAR ACCESS: No vehicular access to be in effect until such time as the public right—of—way is extended by plat or deed.

NOTE "E": Reserves "A"—"F", as designated and delineated hereon, shall be owned and maintained by the City. Reserve "G" will be designated for Parkland use. Landscaping in all reserves shall not obstruct sight distance.

NOTE "F": No fire hydrants shall be located in a radius.

NOTE "G": Street parking shall be restricted to one side, opposite of fire hydrants, on 24' wide streets. Street parking is prohibited on 22' wide streets, either side.

NOTE "H": Design speed is 25 MPH.

NOTE "I": Regulatory signs shall be in accordance with the City of New Albany standards and consistent with existing Country Club Communities. All other signs shall be in accordance with the Landscape Plan.

NOTE "J": No sidewalk shall be located the inside of Reserve "B".

NOTE "K": Street lights and traffic control signage shall be in accordance with the City of New Albany standards and consistent with existing Country Club Communities.

NOTE "L": Any fence or entrance feature that will encroach into the right of way will require a code variance and a right a way permit. Such fences shall conform to a design and be located only at such locations as may be approved by the City of New Albany and the Design Review Committee of the New Albany Country Club Association, Inc. The City of New Albany or their designee shall have the right to remove such fences as necessary to perform any maintenance, repair or replacement of utilities or roadway within such rights—of—way. The City of New Albany or their designee shall have no liability to the owners of such lots for such removal. If the City of New Albany or their designee, so removes any such fences, the Homeowner's Association shall, promptly after completion of work by the City of New Albany or their designee, replace such fences.

NOTE "M" — STREAM/WETLAND PRESERVATION ZONE: The "Stream/Wetland Preservation Zone" shall forever be restricted from development with buildings, structures, and uses and the natural state of said zone shall remain undisturbed. It is also the intent and purpose of the Stream/Wetland Preservation Zone to restrict and forbid any activity or use which would as a natural consequence of such, impede or make more difficult the accomplishment of the purpose of which the said zone was created.

Additional restrictions include:

- 1. No dumping or burning of refuse.
- 2. No hunting or trapping.
- 3. Natural resources of the zones shall remain undisturbed and no topsoil, sand, gravel, or rock shall be excavated, removed or graded.

4. Nothing shall be permitted to occur on the premises which would contribute to the erosion of the land and no trees shall be cut or removed, except for the removal of such dead diseased, noxious, or decayed trees or vegetation which may be required for conservation or scenic purposes, or for reasons of public safety. Any and all alterations the the Stream/Wetland Preservation Zone require the approval of the city of New Albany Community Development Department.

5. No private encroachment, such as, but not limited to, dumping of trash or debris, or the installation of any type of recreation or other facility or convenience shall be permitted.

No roadway or any facility of any public utility other than existing roadways and public utility facilities or those outlined in the original plan shall be permitted to be constructed or installed in the premises.

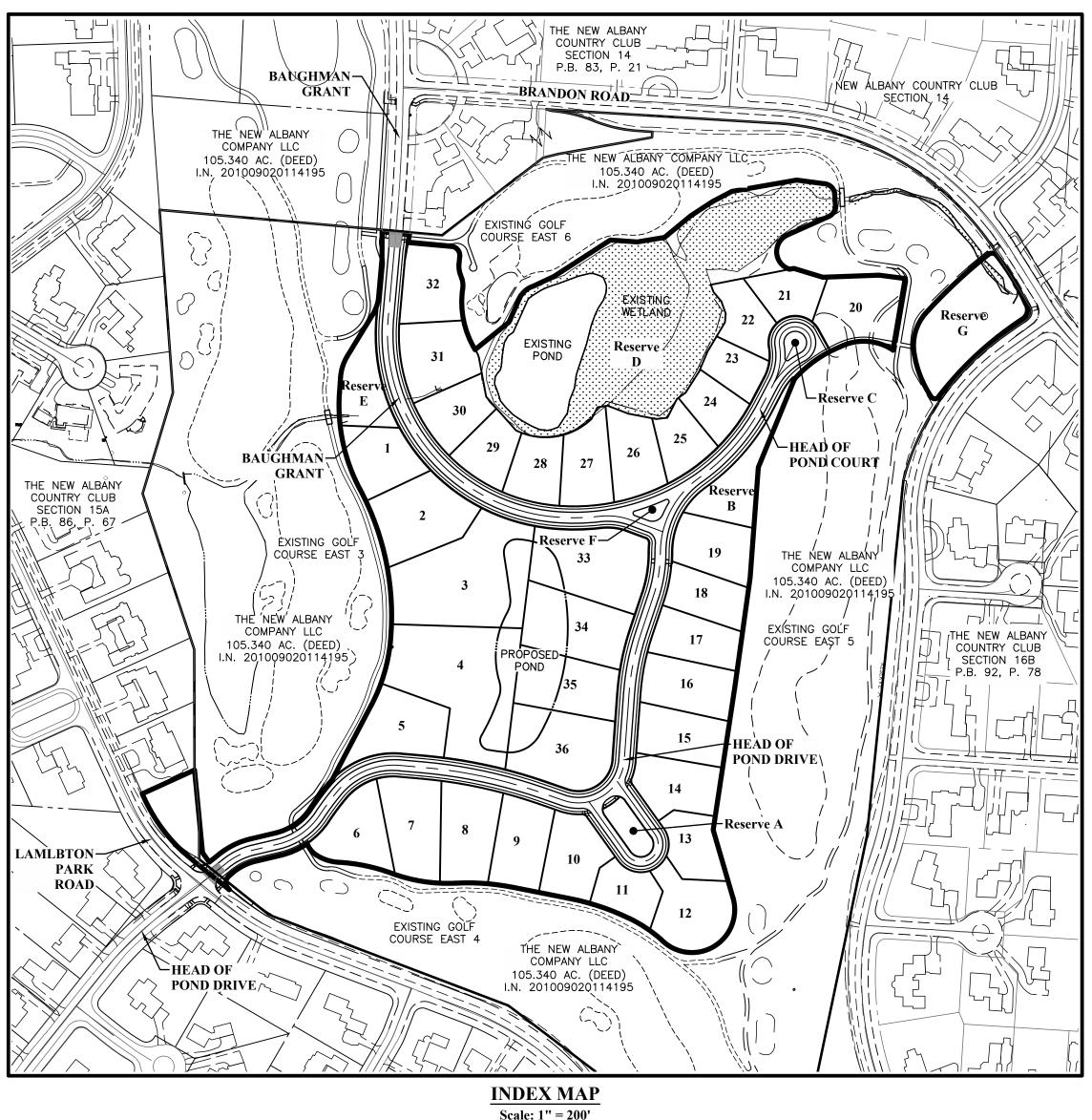
NOTE "O" — DEPRESSED DRIVEWAYS: Depressed driveways are hereby prohibited on all lots in New Albany Country Club Section 28. Nothing herein, however, shall prohibit the construction and use of, if otherwise permitted, a driveway alongside or to the rear of a residential structure.

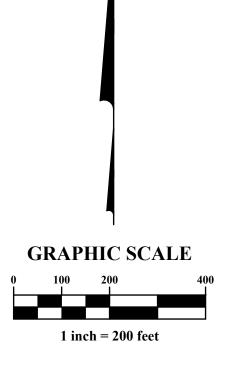
NOTE "P": Special permanent markers shall be placed along the edge of the "Stream Corridor Protection Zone". Maintenance of such markers shall be the responsibility of the Home Owners Association. The final design and location of the permanent markers shall be subject to staff approval.

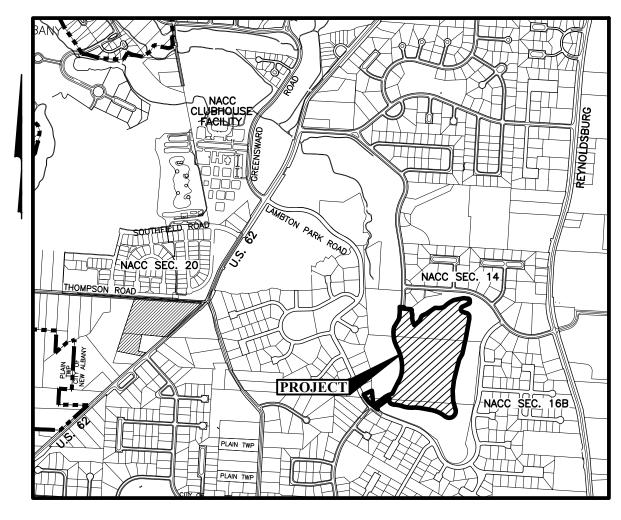
CITY OF NEW ALBANY, FRANKLIN COUNTY OHIO FINAL DEVELOPMENT PLAN

NEW ALBANY COUNTRY CLUB SECTION 30

2021







LOCATION MAP

Not to Scale

SHEET INDEX

| COVER SHEET | 1 |
|-------------------------|----|
| STREET TYPICAL SECTIONS | 2 |
| SITE PLAN | 3- |
| UTILITY PLAN | 5- |
| STREET TREE PLAN | 7 |
| TRUCK TURNING EXHIBIT | 8 |

DEVELOPER/OWNER

The New Albany Company 8000 Walton Parkway, Suite 120 New Albany, Ohio 43054 Tel: (614) 939-8000 Fax: (614) 939-8325

Professional Engineer

| Professional Surveyor | Date |
|---------------------------|------|
| | |
| | |
| | |
| Planning Commission Chair | Date |
| | |
| | |
| | |
| Vice Chair or Designee | Date |



Evors, Mechwart, Hambieton & Tilre
Ergineers - Surveyors - Planners - So
5500 New Albary, Road, Columbus, Of
Phone: 614.775.4500 Toll Free: 888.7

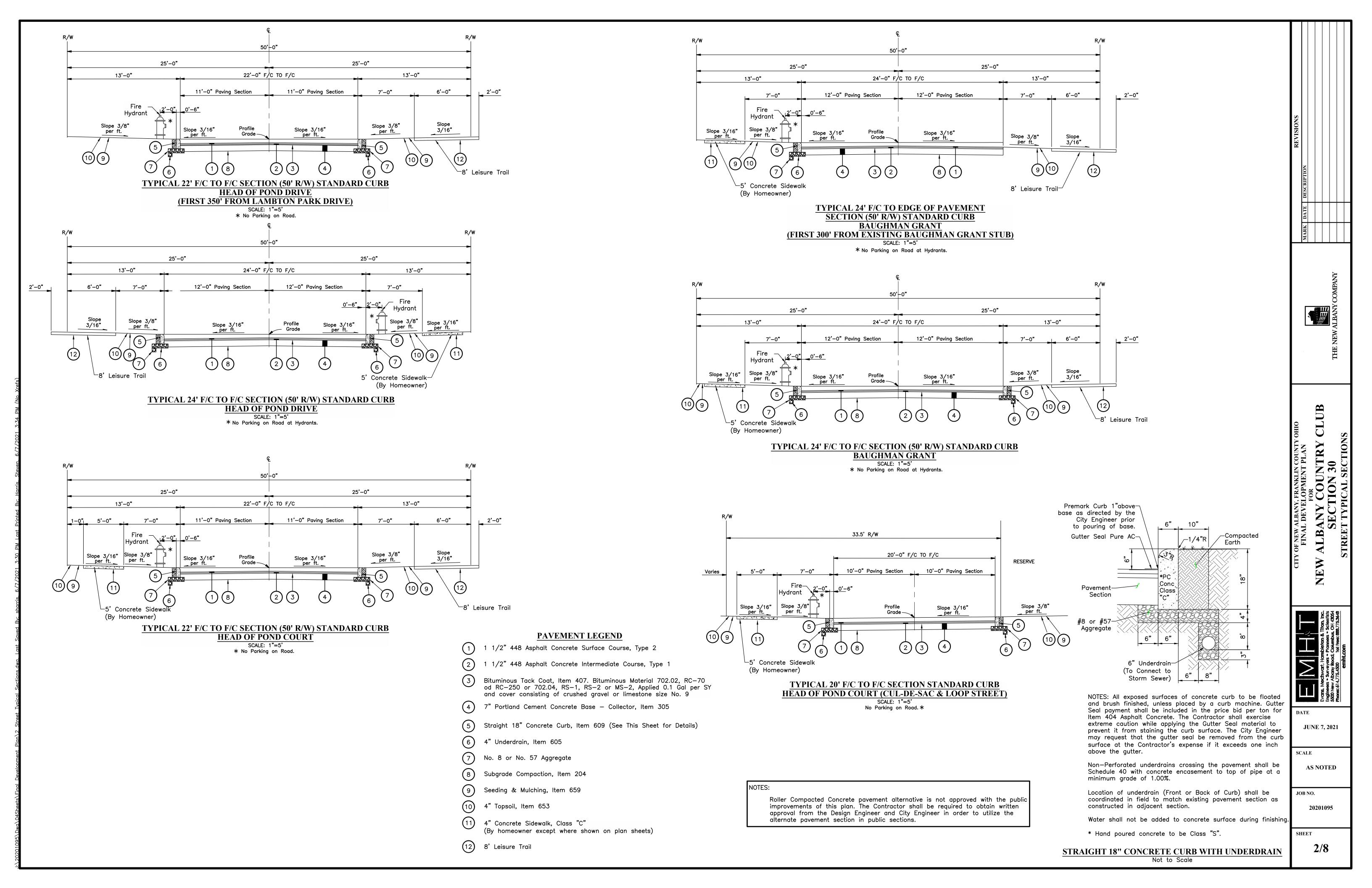
JUNE 7, 2021

SCALE 1" = 40'

JOB NO.

SHEET

1/8



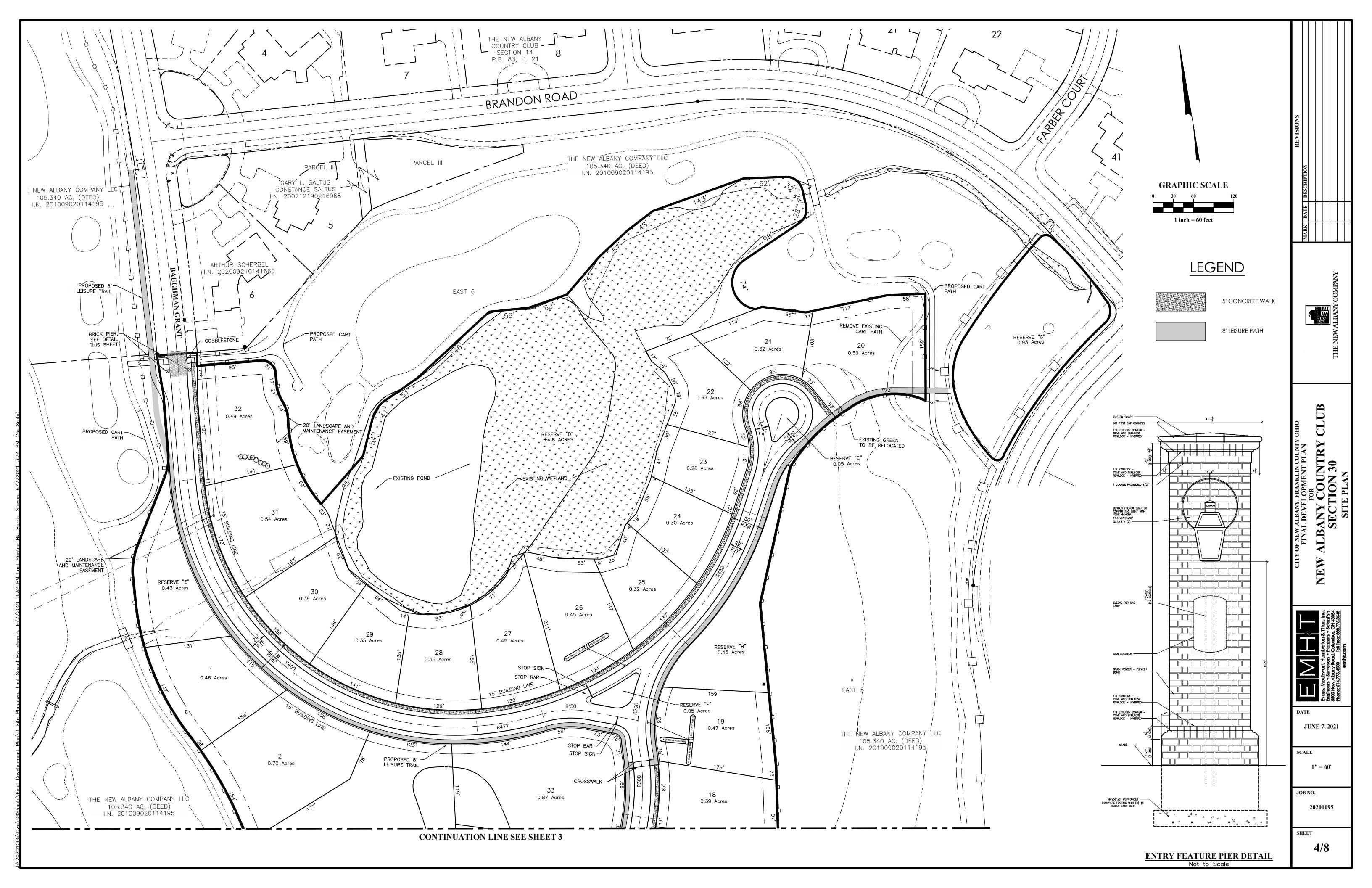


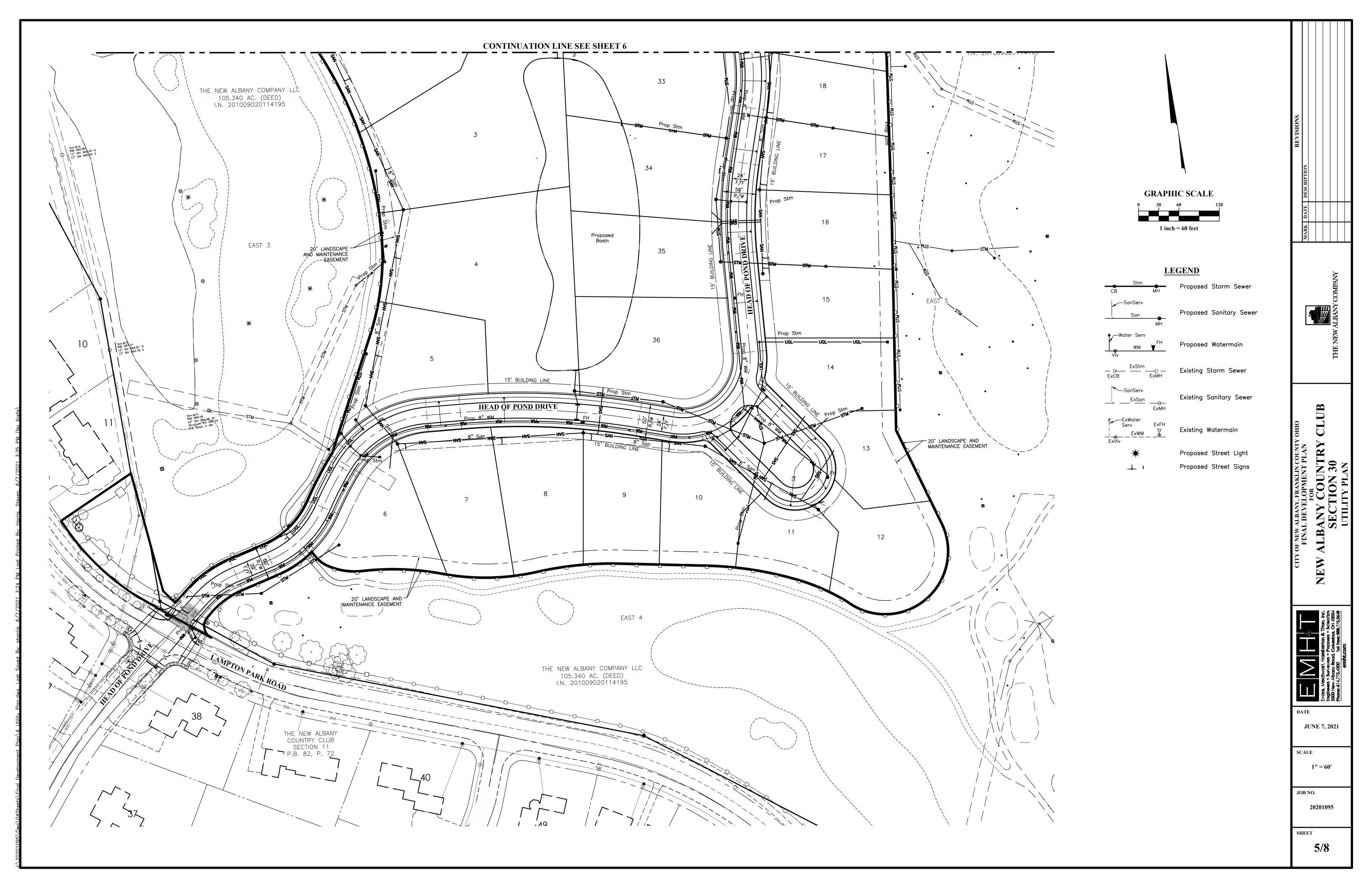
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JUNE 7, 2021

1'' = 60'

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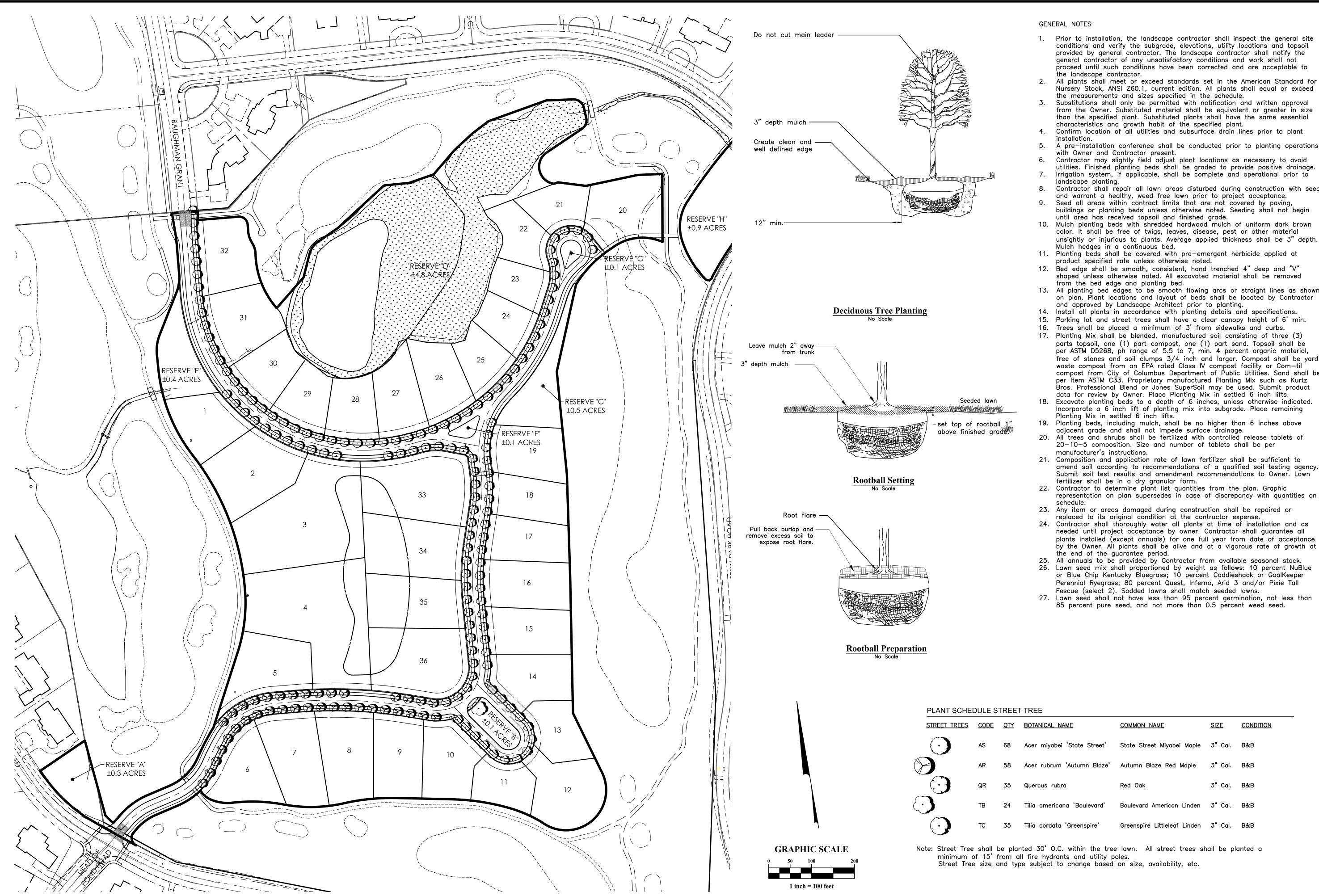
NEW

JUNE 7, 2021

1'' = 60'

JOB NO. 20201095

6/8



- 1. Prior to installation, the landscape contractor shall inspect the general site conditions and verify the subgrade, elevations, utility locations and topsoil provided by general contractor. The landscape contractor shall notify the general contractor of any unsatisfactory conditions and work shall not proceed until such conditions have been corrected and are acceptable to
- 2. All plants shall meet or exceed standards set in the American Standard for Nursery Stock, ANSI Z60.1, current edition. All plants shall equal or exceed
- than the specified plant. Substituted plants shall have the same essential characteristics and growth habit of the specified plant.
- Confirm location of all utilities and subsurface drain lines prior to plant
- A pre-installation conference shall be conducted prior to planting operations
- Contractor may slightly field adjust plant locations as necessary to avoid utilities. Finished planting beds shall be graded to provide positive drainage.
- Irrigation system, if applicable, shall be complete and operational prior to
- Contractor shall repair all lawn areas disturbed during construction with seed
- and warrant a healthy, weed free lawn prior to project acceptance.
- until area has received topsoil and finished grade. 10. Mulch planting beds with shredded hardwood mulch of uniform dark brown
- 12. Bed edge shall be smooth, consistent, hand trenched 4" deep and "V" shaped unless otherwise noted. All excavated material shall be removed
- 13. All planting bed edges to be smooth flowing arcs or straight lines as shown on plan. Plant locations and layout of beds shall be located by Contractor
- 14. Install all plants in accordance with planting details and specifications.
- 15. Parking lot and street trees shall have a clear canopy height of 6' min.
- 16. Trees shall be placed a minimum of 3' from sidewalks and curbs.
- parts topsoil, one (1) part compost, one (1) part sand. Topsoil shall be per ASTM D5268, ph range of 5.5 to 7, min. 4 percent organic material, free of stones and soil clumps 3/4 inch and larger. Compost shall be yard waste compost from an EPA rated Class IV compost facility or Com-til compost from City of Columbus Department of Public Utilities. Sand shall be per Item ASTM C33. Proprietary manufactured Planting Mix such as Kurtz Bros. Professional Blend or Jones SuperSoil may be used. Submit product data for review by Owner. Place Planting Mix in settled 6 inch lifts.
- 18. Excavate planting beds to a depth of 6 inches, unless otherwise indicated. Incorporate a 6 inch lift of planting mix into subgrade. Place remaining
- 19. Planting beds, including mulch, shall be no higher than 6 inches above
- 20. All trees and shrubs shall be fertilized with controlled release tablets of 20-10-5 composition. Size and number of tablets shall be per
- 21. Composition and application rate of lawn fertilizer shall be sufficient to amend soil according to recommendations of a qualified soil testing agency. Submit soil test results and amendment recommendations to Owner. Lawn
- representation on plan supersedes in case of discrepancy with quantities on
- replaced to its original condition at the contractor expense
- 24. Contractor shall thoroughly water all plants at time of installation and as needed until project acceptance by owner. Contractor shall guarantee all plants installed (except annuals) for one full year from date of acceptance by the Owner. All plants shall be alive and at a vigorous rate of growth at
- 25. All annuals to be provided by Contractor from available seasonal stock.
- 26. Lawn seed mix shall proportioned by weight as follows: 10 percent NuBlue or Blue Chip Kentucky Bluegrass; 10 percent Caddieshack or GoalKeeper Perennial Ryegrass; 80 percent Quest, Inferno, Arid 3 and/or Pixie Tall
- 27. Lawn seed shall not have less than 95 percent germination, not less than

<u>SIZE</u> **CONDITION** 3" Cal. B&B 3" Cal. B&B Boulevard American Linden 3" Cal. B&B Greenspire Littleleaf Linden 3" Cal. B&B

Note: Street Tree shall be planted 30' O.C. within the tree lawn. All street trees shall be planted a

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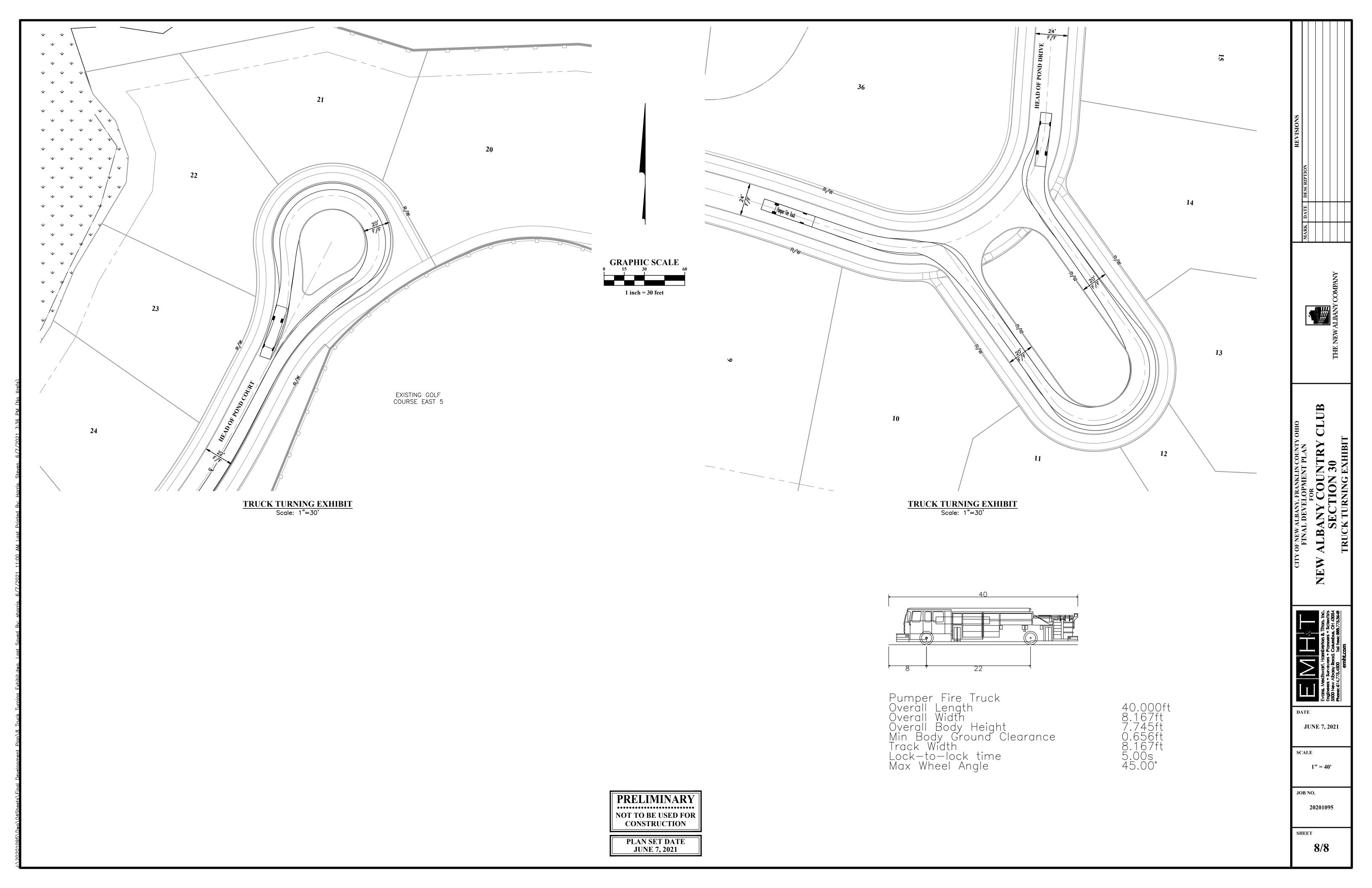
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JUNE 7, 2021

SCALE

1'' = 100'

20201095





Planning Commission Staff Report June 21, 2021 Meeting

NEW ALBANY COUNTRY CLUB SECTION 30 FINAL PLAT

LOCATION: A portion of a property generally located north and west of Lambton

Park and south of Brandon Road (PID: 222-004458).

APPLICANT: The New Albany Company LLC, c/o Aaron Underhill, Esq.

REQUEST: Final Plat

ZONING: 1998 NACO C-PUD; subarea 1.d

STRATEGIC PLAN: Residential District APPLICATION: FPL-61-2021

Review based on: Application materials received February 16 and 26, 2021.

Staff report completed by Chris Christian, Planner.

I. REQUEST AND BACKGROUND

The application is for a final plat for Section 30 of the New Albany Country Club. The plat includes 36 residential lots, seven reserves and three new roads.

II. SITE DESCRIPTION & USE

The 29.87+/- acre development area is part of a larger 105.34+/- acre property. A majority of the 105.34 acre property contains portions of the New Albany Country Club golf course as well as some undeveloped land where residential uses are permitted to be developed. The surrounding land uses include the golf course and residentially zoned and used land.

III. PLAN REVIEW

Planning Commission's review authority of the preliminary plat is found under C.O. Section 1187. The applicant must return to the Planning Commission for review and approval of a final plat. Primary concerns and issues have been indicated below, with needed action or recommended action in underlined text.

- The final plat follows the proposed New Albany Country Club Section 30 final development plan. The plat shows 36 residential lots to be developed. The proposed lot layout and dimensions match what is shown on the final development plan and meets the requirements of the zoning text.
- This phase of the plat contains seven (7) reserve areas shown as reserves A, B, C, D, E, F and G on the plat with a total acreage of 6.28 +/- acres. According to the plat notes, all of the proposed reserve areas will be used as open space for the subdivision. The plat states that the City of New Albany will own and maintain all reserve areas. In order to meet code requirements and to be consistent with recently approved subdivisions, staff recommends a condition of approval that:
 - o Reserves A, B, C, E, F and G totaling 1.48 +/- acres be owned by the city and maintained by the HOA in perpetuity.
 - O Reserve D totaling 4.8 +/- acres be owned maintained by the HOA in perpetuity. Reserve D contains a wetland and there is no opportunity to develop any amenities and/or trails within in it in order to meet the environmental regulations of this space. C.O. 1187.16(b) states that all publicly and privately-owned parks and open space must be accessible by

roadway or public access easement. Additionally, maintaining the ownership of the reserve by the HOA will ensure it makes the USACE and Ohio EPA issued permits.

- The plat will create three (3) new publicly dedicated streets totaling 4.27 +/- acres: .
 - Head of Pond Drive with 50 feet of right-of-way that connects to the Head of Pond Road intersection. An extension of the existing stub of Baughman Grant to a new curb cut on Lambton Park Road that aligns with Head of Pond Drive with 50 feet of right-of-way.
 - o One new cluster public street on the north side of the development (Head of Pond Court) with 50 feet of right-of-way.
 - One new one-way loop public street as part of Head of Pond Drive on the southeast side of the development with a pavement width of 20 feet and 34 feet of right-of-way.
- Proposed developer utility and proposed public utility easements are shown on the plans.
 - O The final plat shows a 20 foot landscape and maintenance easement on the rear of the lots that back onto the private golf course. Staff recommends a condition of approval that a note be added to the plat to outline the intent and purpose of this private easement. Staff recommends a condition of approval this note be added, subject to staff approval.
- Per the city's subdivision regulations, C.O. 1187.04, all new streets shall be named and shall be subject to the approval of the Planning Commission. The applicant proposes to continue the names of Baughman Grant and Head of Pond Drive. The new cluster street at the northeastern portion of the site will be named Head of Pond Court.
- The text appropriately shows a 15 foot front yard setback along all the lots as required by the zoning text.
- Zoning text section 1d.01(3) states that the minimum lot width at the building line shall be 50 feet. All of the proposed lots are meeting this requirement.
- The city's subdivision regulations C.O. 1187.08(a)(5) states no cul-de-sac shall exceed six hundred (600) feet in length unless lot widths exceed one hundred (100) feet at building setback lines, then the maximum length shall not exceed one thousand (1,000) feet. This cul-de-sac is 421 feet in length.
- C.O. 1187.04(d)(4) and (5) requires verification that an application, if required, has been submitted to the Ohio Environmental Protection Agency in compliance with Section 401 of the Clean Water Act and to the U.S. Army Corps of Engineers in compliance with Section 404 of the Clean Water Act. The applicant has submitted documentation that demonstrates the appropriate permits have been obtained.
- The intersection of Lambton Parkway and Head of Pond Drive does not match the final development plan since the centerline of Head of Pond Drive and Head of Pond Road don't align. The roads must align to ensure safe and appropriate turning for vehicles. Staff recommends a condition of approval that the plat is revised to show the centerline of Head of Pond Drive and Head of Pond Road aligned subject to staff approval.

IV. ENGINEER'S COMMENTS

The City Engineer has reviewed the referenced plan in accordance with the engineering related requirements of Code Section 1159.07(b)(3) and provided the following comments. <u>Staff recommends a condition of approval that these comments be addressed, subject to staff approval.</u>

- 1. In accordance with code sections 1159.07 (b)(2) J and K, we recommend that the applicant provide documentation indicating that all OEPA and ACOE permitting requirements have been obtained.
- 2. We will evaluate storm water management, sanitary sewer collection and roadway construction related details once construction plans become available

V. RECOMMENDATION

Basis for Approval:

The final plat is generally consistent with the final development plan and meets code requirements.

VI. ACTION

Suggested Motion for FPL-61-2021:

Move to approve preliminary plat application FPL-61-2021 with the following conditions.

- 1. Reserves A, B, C, E, F and G totaling 1.48 +/- acres be owned by the city and maintained by the HOA in perpetuity.
- 2. Reserve D totaling 4.8 +/- acres be owned maintained by the HOA in perpetuity.
- 3. The plat is revised to show the centerline of Head of Pond Drive and Head of Pond Road be aligned subject to staff approval.
- 4. The city engineer comments must be addressed, subject to staff approval.
- 5. Approval of the final plat is contingent upon the approval of the final development plan for this development.
- 6. A note be added to the plat to outline the intent and purpose of the 20 foot landscape and maintenance private easement, subject to staff approval.

Approximate Site Location:



Source: Google Earth

NEW ALBANY COUNTRY CLUB SECTION 30

Situated in the State of Ohio, County of Franklin, City of New Albany, and in Quarter Township 3, Township 2, Range 16, United States Military Lands, containing 29.869 acres of land, more or less, said 29.869 acres being comprised of a resubdivision of Reserve "C" of the subdivision entitled "The New Albany Country Club Section 11", of record in Plat Book 82, Page 72, a resubdivision of Reserve "C" of the subdivision entitled "The New Albany Country Club Section 15A", of record in Plat Book 86, Page 67, said Reserves being conveyed to THE NEW ALBANY COUNTRY CLUB COMMUNITY ASSOCIATION, INC. by deed of record in Instrument Number 200406080131113, and part of that tract of land conveyed to THE NEW ALBANY COMPANY LLC by deed of record Instrument Number, Recorder's Office, Franklin County, Ohio.

The undersigned, THE NEW ALBANY COUNTRY CLUB COMMUNITY ASSOCIATION, INC. an Ohio not-for-profit corporation, by BRENT B. BRADBURY, Treasurer, and THE NEW ALBANY COMPANY LLC, a Delaware limited liability company, by BRENT B. BRADBURY, Chief Financial Officer, owners of the lands platted herein, duly authorized in the premises, do hereby certify that this plat correctly represents their "NEW ALBANY COUNTRY CLUB SECTION 30", a subdivision containing Lots numbered 1 to 36, both inclusive, and areas designated as Reserve "A", Reserve "B", Reserve "C", Reserve "D", Reserve "E", Reserve "F" and Reserve "G", do hereby accept this plat of same and dedicate to public use, as such, all of Baughman Grant, Head of Pond Court and Head of Pond Drive.

Easements are hereby reserved in, over and under areas designated on this plat as "Easement" or Drainage Easement. Each of the aforementioned designated easements permit the construction, operation and maintenance of all public and quasi-public utilities above, beneath, and on the surface of the ground and, where necessary, for the construction, operation and maintenance of service connections to all adjacent lots and lands and for storm water drainage. No building shall be constructed in any area over which easements are hereby reserved. Within those areas designated "Drainage Easement" on this plat, an additional easement is hereby reserved for the purpose of constructing, operating and maintaining major storm water drainage swales and/or other above ground storm water drainage facilities. No above grade structures, dams or other obstructions to the flow of storm water runoff are permitted within Drainage Easement areas as delineated on this plat unless approved by the City of New Albany Engineer.

| set his hand this day of | UNITY ASSOCIATION, INC, has hereu, 20 |
|---|--|
| Signed and Acknowledged In the presence of: | THE NEW ALBANY COUNTRY CI COMMUNITY ASSOCIATION, IN |
| | By BRENT B. BRADBURY, |
| | Treasure |
| | - |
| STATE OF OHIO COUNTY OF FRANKLIN ss: | |

Before me, a Notary Public in and for said State, personally appeared BRENT B. BRADBURY, Treasurer of THE NEW ALBANY COUNTRY CLUB COMMUNITY ASSOCIATION, INC, who acknowledged the signing of the foregoing instrument to be his voluntary act and deed and the voluntary act and deed of said THE NEW ALBANY COUNTRY CLUB COMMUNITY ASSOCIATION, INC, for the uses and purposes expressed herein.

| day of, 20 | | |
|-----------------------|----------------|-------------|
| My commission expires | | |
| | Notary Public, | State of Oh |

In Witness Thereof, I have hereunto set my hand and affixed my official seal this

In Witness Whereof, **BRENT B. BRADBURY**, Chief Financial Officer of **THE NEW ALBANY COMPANY LLC**, has hereunto set his hand this _____ day of ______ and _____.

| , 20 | day of |
|---|----------------------------|
| Signed and Acknowledged In the presence of: | THE NEW ALBANY COMPANY LLC |
| | By BRENT B. BRADBURY, |

STATE OF OHIO COUNTY OF FRANKLIN ss:

Before me, a Notary Public in and for said State, personally appeared **BRENT B. BRADBURY**, Chief Financial Officer of **THE NEW ALBANY COMPANY LLC**, who acknowledged the signing of the foregoing instrument to be his voluntary act and deed and the voluntary act and deed of said **THE NEW ALBANY COMPANY LLC** for the uses and purposes expressed herein.

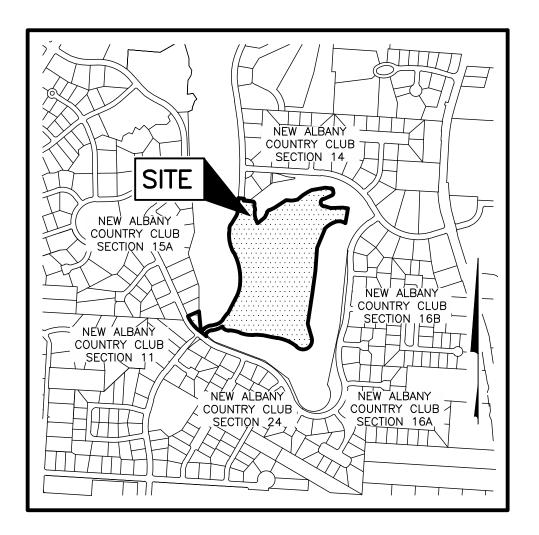
| day of | , 20 | | |
|--------------|-----------|--|--|
| My commissio | n expires | | |

In Witness Thereof, I have hereunto set my hand and affixed my official seal this

| Notary Public, | State of Ohio |
|----------------|---------------|

Chief Financial Officer

| Approved this | Day of | | |
|---|---|---------------------|--------------------------------------|
| 20 | | Mayor, | New Albany, Ohio |
| Approved this | Day of | City Engineer, | New Albany, Ohio |
| Approved this | Day of | Council Representat | tive to Planning New Albany, Ohio |
| Approved this | Day of | Chairperson, Plann | ing Commission, New Albany, Ohio |
| Approved this | Day of | Finance Director, | New Albany, Ohio |
| Approved and 20, by the Counbecome null and voice. Transferred this 20 | accepted by Resolution cil for the City of New d unless recorded prior to day of, | | , passed |
| | | Deputy Auditor, | Franklin County, Ohio |
| Filed for record thisatFile No | | Recorder, | Franklin County, Ohio |
| Recorded thisd | lay of | | |
| 20 | iay 01, | Deputy Recorder, | Franklin County, Ohi |



LOCATION MAP AND BACKGROUND DRAWING

NOT TO SCALE

SURVEY DATA:

BASIS OF BEARINGS: The bearings shown hereon are based on the same meridian as the bearings shown on the subdivision plat entitled "New Albany Country Club Section 6", of record in Plat Book 76, Pages 54 and 55, Recorders Office, Franklin County, Ohio. On said plat of record, a portion of the centerline of Yantis Drive is shown as having a bearing of North 12°54' 44" East.

SOURCE OF DATA: The sources of recorded survey data referenced in the plan and text of this plat are the records of the the Recorder's Office, Franklin County, Ohio.

IRON PINS: Iron pins, where indicated hereon, unless otherwise noted, are to be set and are iron pipes, thirteen-sixteenths inch inside diameter, thirty inches long with a plastic plug placed in the top end bearing the initials EMHT INC.

PERMANENT MARKERS: Permanent markers, where indicated hereon, are to be one-inch diameter, thirty-inch long, solid iron pins, are to be set to monument the points indicated and are to be set with the top end flush with the surface of the ground and then capped with an aluminum cap stamped EMHT INC. Once installed, the top of the cap shall be marked (punched) to record the actual location of the point. These markers shall be set following the completion of the construction/installation of the street pavement and utilities and prior to the City of New Albany, Ohio's acceptance of these infrastructure improvements. The New Albany, Ohio, Municipal Engineer shall be notified in writing when the markers are in place.

SURVEYED & PLATTED



We do hereby certify that we have surveyed the above premises, prepared the attached plat, and that said plat is correct. All dimensions are in feet and decimal parts thereof.

- O = Iron Pin (See Survey Data)
- = MAG Nail to be set

| By | | | | |
|--------------|----------|-----|------|------|
| Professional | Surveyor | No. | 7865 | Date |

NOTE "B": At the time of platting, the land being platted as New Albany Country Club Section 30 is in Zone X (areas determined to be outside of the 0.2% annual chance floodplain). As said Zone is designated and delineated on the FEMA Flood insurance rate map for Franklin County, Ohio, and Incorporated areas map number 39049C0212K with effective date of June 17, 2008.

NOTE "C" - DEPRESSED DRIVEWAYS: Depressed driveways are hereby prohibited on all lots in New Albany Country Club Section 30. Nothing herein, however, shall prohibit the construction and use of, if otherwise permitted, a driveway alongside or to the rear of a residential structure.

NOTE "D" - AGRICULTURAL RECOUPMENT: Grantor, being the duly authorized representative of the developer dedicating the property described in this plat, hereby agrees to indemnify the City of New Albany for, and hold it harmless from, any agricultural recoupments assessed or levied in the future against the property dedicated herein, which result from grantor's conversion of the property from agricultural use.

NOTE "E" - ACREAGE BREAKDOWN: New Albany Country Club Section 30 is comprised of the following Franklin County Parcel Numbers:

| 222-001668 | 0.154 Ac. |
|------------|-----------|
| 222-002054 | 0.196 Ac. |
| 222-004458 | 29.519Ac. |

NOTE "F" - ACREAGE BREAKDOWN:

| Total acreage: | 29.869 Ac |
|--------------------------|-----------|
| Acreage in right-of-way: | 4.272 Ac |
| Acreage in lots: | 19.411 Ac |
| Acreage in reserves: | 6.186 Ac |

NOTE "G": Reserves A-E as designated and delineated hereon, shall be owned and maintained by the City. Reserve "G" wo;; be designated for Parkland use. Landscaping in all reserve shall not obstruct site distances.

NOTE "H" - WETLAND PRESERVATION ZONE: The "Wetland Preservation Zone" shall forever be restricted from development with buildings, structures, and uses and the natural state of said zone shall remain undisturbed. It is also the intent and purpose of the Stream/Wetland Preservation Zone to restrict and forbid any activity or use which would as a natural consequence of such, impede or make more difficult the accomplishment of the purpose of which the said zone was created.

Additional restrictions include:

- 1. No dumping or burning of refuse.
- 2. No hunting or trapping.
- 3. Natural resources of the zones shall remain undisturbed and no topsoil, sand, gravel, or rock shall be excavated, removed or graded.
- 4. Nothing shall be permitted to occur within the Stream/Wetland Preservation Zone which would contribute to the erosion of the land and no trees shall be cut or removed, except for the removal of such dead diseased, noxious, or decayed trees or vegetation which may be required for conservation or scenic purposes, or for reasons of public safety. Any and all alterations to the Stream/Wetland Preservation Zone require the approval of the city of New Albany Community Development Department.
- 5. No private encroachment, such as, but not limited to, dumping of trash or debris, or the installation of any type of recreation or other facility or convenience shall be permitted.

No roadway or any facility of any public utility other than existing roadways and public utility facilities or those outlined in the original plan shall be permitted to be constructed or installed in the premises.

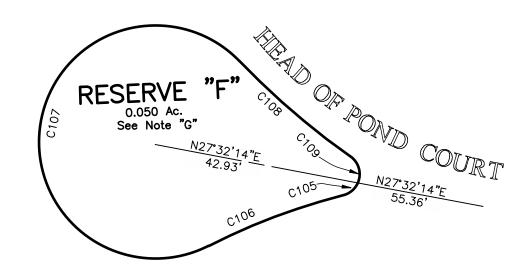
NOTE "I": At the time of platting, electric, cable, and telephone service providers have not issued information required so that easement areas, in addition to those shown on this plat as deemed necessary by these providers for the installation and maintenance of all of their main line facilities, could conveniently be shown on this plat. Existing recorded easement information about New Albany Country Club Section 30 or any part thereof can be acquired by a competent examination of the then current public records, including those in the Recorder's Office, Franklin County, Ohio.

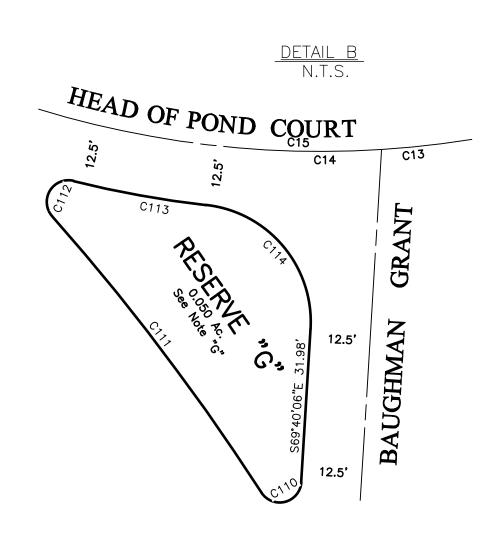
| CURVE TABLE | | | | | | |
|--------------|------------|----------|---------|------------------|-------------------|--|
| CURVE NO. | DELTA | RADIUS | LENGTH | CHORD BEARING | CHORD DISTANCE | |
| C1 | 25°14'29" | 150.00' | 66.08' | S 64°02'28" W | 65.55 | |
| C2 | 43°14'24" | 150.00' | 113.20 | N 55°02'30" E | 110.53 | |
| C3 | 6°40'37" | 560.00' | 65.26' | S 36°45'36" W | 65.22' | |
| C4 | 54°54'43" | 160.00' | 153.34' | S 67°33'16" W | 147.54' | |
| C5 | 14°08'00" | 1080.00 | 266.41' | N 77°55'22" W | 265.73 | |
| C6 | 32°19'51" | 100.00' | 56.43' | S 87°01'18" E | 55.68' | |
| C7 | 44°40'03" | 100.00 | 77.96' | N 54°28'45" E | 76.00 | |
| C8 | 27°58'50" | 100.00' | 48.84' | N 18°09'19" E | 48.35' | |
| C9 | 104°58'44" | 100.00' | 183.22 | N 56°39'16" E | 158.65 | |
| C10 | 180°00'00" | 38.00' | 119.38' | N 54°28'46" E | 76.00 | |
| C11 | 14°19'39" | 540.00' | 135.03' | S 11°19'44" W | 134.68' | |
| C12 | 18°33'17" | 300.00' | 97.15' | N 09°13'56" E | 96.73' | |
| C13 | 13°15'00" | 200.00' | 46.25 | S 06°34'48" W | 46.15 | |
| C14 | 41°23'32" | 200.00' | 144.49' | S 33°54'04" W | 141.36 | |
| C15 | 54°38'32" | 200.00' | 190.74 | S 27°16'34" W | 183.59 | |
| C16 | 27°00'36" | 450.00' | 212.14 | N 41°05'32" E | 210.18 | |
| C17 | 27°01'32" | 150.00' | 70.75 | N 83°10'52" W | 70.10 | |
| C18 | 11°55'51" | 477.00' | 99.33' | N 89°16'18" E | 99.15 | |
| C19 | 89°52'40" | 400.00' | 627.47 | S 39°49'26" E | 565.08 | |
| C20 | 22°26'04" | 175.00' | 68.52 | N 44°38'20" E | 68.08 | |
| C21 | 6°40'37" | 535.00' | 62.35 | S 36°45'36" W | 62.31 | |
| C22 | 33°54'12" | 135.00' | 79.88 | S 57°03'01" W | 78.72 | |
| C23 | 21°00'31" | 135.00' | 49.50' | S 84°30'22" W | 49.22 | |
| C24 | 2°20'17" | 1055.00' | 43.05' | N 83°49'14" W | 43.05 | |
| C25 | 7°29'32" | 1055.00' | 137.95 | N 78°54'20" W | 137.86 | |
| C26 | 4°18'12" | 1055.00' | 79.24 | N 73°00'28" W | 79.22 | |
| C27 | 21°47'10" | 125.00' | 47.53 | S 81°44'57" E | 47.24 | |
| C28 | 57°07'18" | 15.00' | 14.95' | N 64°04'53" W | 14.34 | |
| C29 | 73°11'25" | 61.00' | 77.92 | S 72°06'57" E | 72.73 | |
| C30 | 47°01'11" | 61.00' | 50.06 | N 47°46'45" E | 48.67 | |
| C31 | 59°47'24" | 61.00' | 63.66 | N 05°37'32" W | 60.81 | |
| C32 | 57°07'18" | 15.00' | 14.95' | S 06°57'35" E | 14.34 | |
| C33 | 17°26'10" | 125.00' | 38.04 | N 12°52'59" E | 37.89 | |
| C34 | 10°16'36" | 515.00' | 92.37 | S 09°18'12" W | 92.25 | |
| C35 | 4°03'02" | 515.00' | 36.41 | S 16°28'01" W | 36.40 | |
| C36 | 15°20'32" | 325.00' | 87.03 | N 10°50'19" E | 86.77 | |
| C37 | 3°12'45" | 325.00' | 18.22' | N 01°33'40" E | 18.22' | |
| C38 | 30°28'30" | 175.00' | 93.08' | S 15°11'33" W | 91.99 | |
| C39 | 24°10'02" | 175.00' | 73.81 | S 42°30'49" W | 73.27 | |
| C40 | 27°00'36" | 475.00' | 223.92 | N 41°05'32" E | 221.85 | |
| C41 | 16°26'34" | 136.00 | 39.03 | S 35°46'34" W | 38.90 | |
| C42 | 21°56'05" | 58.77 | 22.50' | N 39°43'22" W | 22.36 | |
| C43 | 82°25'46" | 58.77 | 84.56 | S 88°05'42" W | 77.45 | |
| C44 | 56°59'09" | 58.77 | 58.46 | S 18°23'14" W | 56.08 | |
| C45 | 17°14'45" | 100.21 | 30.16 | N 01°37'43" W | 30.05 | |
| C46 | 20°33'27" | 100.21 | 35.95 | N 17°16'23" E | 35.76 | |
| C47 | 1°21'51" | 425.00' | 10.12 | N 28°16'09" E | 10.12 | |
| C48 | 15°37'11" | 425.00' | 115.86 | N 36°45'40" E | 115.50' | |
| C49 | 10°01'35" | 425.00 | 74.37 | N 49°35'02" E | 74.28 | |
| C50 | 8°02'01" | 446.78 | 62.65 | N 58°42'04" E | 62.59 | |
| OE 1 | 15°57'07" | 446.70 | 104.79 | N 70°41'76" E | 107.00 | |

C51 | 15°57'03" | 446.78' | 124.38' N 70°41'36" E | 123.98' |

| CURVE | | | RVE TABLE | CHORD | CHORD |
|----------------------|------------------------|--------------------|--|--------------------------------|--|
| NO. | DELTA | RADIUS | LENGTH | BEARING | DISTANCE |
| C52 | 15°25'24" | 446.78' | 120.27 | N 86°22'50" E | 119.91' |
| C53 | 1°12'04" | 446.78' | 9.37' | S 85°18'26" E | 9.36' |
| C54 | 18°18'49" | 375.00' | 119.86' | S 75°36'22" E | 119.35' |
| C55 | 21°33'32" | 375.00' | 141.10' | S 55°40'11" E | 140.27 |
| C56 | 21°11'16" | 375.00' | 138.68 | S 34°17'47" E | 137.89 |
| C57 | 27°09'15" | 375.00' | 177.72 | S 10°07'31" E | 176.07 |
| C58 | 1°39'48" | 375.00' | 10.89 | S 04°17'00" W | 10.89 |
| C59 | 51°31'54" | 185.00' | 166.39 | S 69°14'40" W | 160.84 |
| C60 | 2°16'00" | 1105.00' | 43.71 | N 83°51'22" W | 43.71 |
| C61 | 7°05'12" | 1105.00' | 136.67 | N 79°10'47" W | 136.58 |
| C62 | 4°46'48" | 1105.00' | 92.19' | N 73°14'46" W | 92.16 |
| C63 | 104°58'44" | 75.00' | 137.42 | N 56°39'16" E | 118.99 |
| C64 | 4°55'45" | 565.00' | 48.61 | S 06°37'47" W | 48.59 |
| C65 | 9°23'54" | 565.00' | 92.68 | S 13°47'36" W | 92.57 |
| C67 | 18°33'17" | 275.00' | 89.06 | N 09°13'56" E | 88.67 |
| C68 | 5°15'30" | 225.00' | 20.65 | S 02°35'03" W | 20.64 |
| C69 | 74°52'54" | 12.00' | 15.68 | N 32°13'39" W | 14.59 |
| C70 | 27°01'32" | 125.00 | 58.96 | N 83°10'52" W | 58.42 |
| C71 | 11°55'51" | 502.00 | 104.53 | | 104.34 |
| C72 | | | 39.81 | | |
| C72 | 5°22'01" | 425.00' | | S 82°04'46" E | 39.80' |
| | 16°34′19″ | 425.00' | 122.92' | S 71°06'37" E | 122.50' |
| C74 | 18°35'18" | 425.00' | 137.88' | S 53°31'48" E | 137.28' |
| C75 | 15°32'30" | 425.00' | 115.28' | S 36°27'54" E | 114.93 |
| C76 | 33°48'33" | 425.00' | 250.79 | S 11°47'23" E | 247.16 |
| C77 | 4°46 '25" | 265.73 | 22.14 | S 65°33'14" W | 22.13 |
| C78 | 21°38'49" | 265.73 | 100.40' | S 52°20'38" W | 99.80' |
| C79 | 5°48'34" | 310.00' | 31.43' | N 51°39'28" W | 31.42 |
| C80 | 9°34'43" | 310.00' | 51.83 | N 59°21'06" W | 51.76 |
| C81 | 10°01'37" | 530.00' | 92.75 | N 69°09'16" W | 92.63 |
| C82 | 4°39'55" | 530.00' | 43.15 | N 76°30'03" W | 43.14 |
| C83 | 6°10'58" | 500.00' | 53.96' | N 81°55'29" W | 53.93 |
| C84 | 7°57'46" | 500.00' | 69.49' | N 88°59'51" W | 69.43 |
| C85 | 5°43'04" | 350.00' | 34.93' | N 89°52'48" E | 34.91' |
| C86 | 16°20'16" | 350.00' | 99.80' | S 79°05'32" E | 99.46' |
| C87 | 1°14'29" | 350.00' | 7.58' | S 70°18'10" E | 7.58' |
| C88 | 7°44'45" | 375.00' | 50.70 | N 23°45'52" E | 50.66 |
| C89 | 14°25'07" | 375.00' | 94.37 | N 12°40'56" E | 94.12' |
| C90 | 3°39'34" | 585.00' | 37.36 | N 03°38'36" E | 37.36 |
| C91 | 12°04'43" | 585.00' | 123.33' | N 04°13'32" W | 123.10 |
| C92 | 15°02'07" | 585.00' | 153.51 | N 17°46'58" W | 153.07 |
| C93 | 2*46'38" | 585.00' | 28.36' | N 26°41'21" W | 28.35 |
| C94 | 21°37'24" | 390.00' | 147.19 | S 17°15'58" E | 146.31 |
| C95 | 10°22'31" | 390.00 | 70.62 | S 01°16'00" E | 70.53 |
| C96 | 19°46'10" | 200.00' | 69.01 | S 01°40'59" E | 68.67 |
| C97 | 20°52'52" | 200.00' | 72.89 | S 22°00'30" E | 72.49 |
| C98 | 1°06'42" | 200.00' | 3.88' | S 31°53'35" E | 3.88 |
| C99 | 21°53'42" | 50.00' | 19.11 | N 21°30'05" W | 18.99 |
| | 5°20'35" | 145.00' | 13.52 | S 66°18'16" E | 13.52 |
| C100 | U ZU UU | 1 70.00 | 10.02 | 0 00 10 10 E | 10.02 |
| C100 | | 1/5 00' | OZ Z1' | S 87°24'40" F | Ω1 71' |
| C100 C101 C102 | 36°52'12" 27°57'18" | 145.00' 145.00' | 93.31 ['] 70.75 ['] | S 87°24'40" E N 60°10'36" E | 91.71 ['] 70.05 ['] |





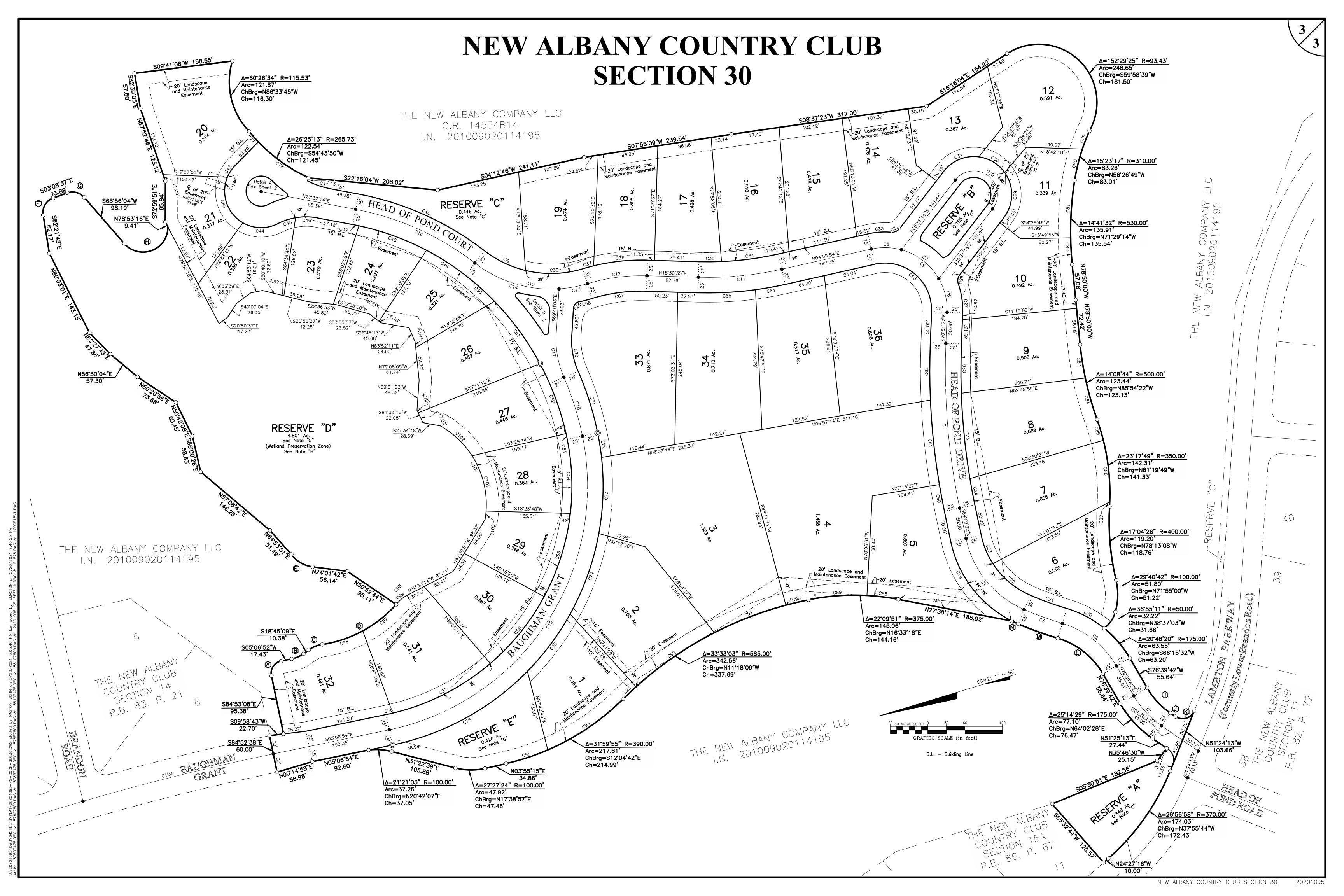


- Δ=90°00'00" R=20.00'Arc=31.42'ChBrg=S39°53'08"ECh=28.28'
- © Δ=26°57'15" R=50.00' Arc=23.52' ChBrg=S05°16'31"E Ch=23.31'
- D Δ=39'32'20" R=200.00'
 Arc=138.02'
 ChBrg=S11'34'04"E
 Ch=135.29'
- Δ=46°27'58" R=50.00' Arc=40.55' ChBrg=N47'15'41"E Ch=39.45'

- Δ=79°13'06" R=25.00'
 Arc=34.57'
 ChBrg=N42°45'10"W
 Ch=31.88'
- © Δ=69*04'41" R=25.00'
 Arc=30.14'
 ChBrg=S31*23'43"W
 Ch=28.35'
- ① Δ=25°14'29" R=125.00'
 Arc=55.07'
 ChBrg=S64°02'28"W
 Ch=54.62'
- ① S51°25'13"W 10.26'
- 10.26°
 Δ=102°49'26" R=20.00'
 Arc=35.89'
 ChBrg=S00°00'30"W
 Ch=31.27'

- Δ=43°14'24" R=125.00'
 Arc=94.34'
 ChBrg=N55°02'30"E
 Ch=92.11'
- Δ=6°40'37" R=585.00'
 Arc=68.17'
 ChBrg=N36°45'36"E
 Ch=68.13'
- Δ=3°22'48" R=185.00'
 Arc=10.91'
 ChBrg=N41°47'19"E
 Ch=10.91'

J:\20201095\DWG\04SHEETS\PLAT\20201095-VS-COOR-SEC30.DWG plotted by MASTON, JOHN on 5/20/2021 3:05:00 PM last saved by JMASTON on 5/20/2021 2:46:55 PM Xrefs: 87607475.DWG & 87607500.DWG & 87857475.DWG & 87857500.DWG & 88107475.DWG & 88107500.DWG & 20201095-CS-REFR-N.DWG & P1578.DWG & 10005





Planning Commission Staff Report June 21, 2021 Meeting

NoNA ZONING DISTRICT ZONING AMENDMENT

LOCATION: 6495 Central College Road, 6501 Central College Road, 6527 Central

College Road, 6545 Central College Road, 6557 Central College Road, 6571 Central College Road, 6589 Central College Road, 6945 Central College Road, 6944 New Albany Condit Road, 6922 New Albany Condit Road, 6941 New Albany Condit Road, 6939 New Albany Condit Road, 6911 New Albany Condit Road, 6873 New Albany Condit Road, 6857 New Albany Condit Road, 6841 New Albany Condit Road (PIDs: 222-000670, 222-000673, 222-000676, 222-000688, 222-000668, 222-000549, 222-000669, 222-000654, 222-000314, 222-000375, 222-000672, 222-000671, 222-000686, 222-000664, 222-000685 and 222-000672, 222-000671, 222-000686, 222-000664, 222-000685

000675)

APPLICANT: NoNA Master Development LLC

REQUEST: Zoning Amendment

ZONING: R-1 to Infill-Planned Unit Development (I-PUD)

STRATEGIC PLAN: Employment Center and Hamlet Location

APPLICATION: ZC-43-2021

Review based on: Application materials received on May 7 2021

Staff report completed by Chris Christian, Planner.

I. REQUEST AND BACKGROUND

The applicant requests review and recommendation to City Council to rezone 30.6+/- acres from R-1 to Infill-Planned Unit Development (I-PUD). The proposed zoning will permit the development of a new mixed use, hamlet district envisioned in the Engage New Albany Strategic Plan. The zoning area will be known as the "NoNA Zoning District."

During the Engage New Albany community outreach effort, residents expressed interest in creating small, walkable neighborhood retail/restaurant locations as well as adding some different housing types to help New Albany become a life span community with housing for young professionals and empty nesters. This feedback resulted in the recommendation of creating hamlets in the Engage New Albany Strategic Plan with development standards designed to meet this need. The concept of a hamlet identifies opportunities in the city to introduce walkable retail and commercial uses that are integrated with residential areas. The Engage New Albany Plan identifies this general site location and one other as locations for hamlets to be developed based on their location in the city and the existing development patterns and context. The Engage New Albany Strategic Plan was adopted endorsed by the Planning Commission and adopted by City Council earlier this year. The proposed rezoning is the hamlet concept brought to life in one of the locations identified in the plan. The proposed text permits a variety of commercial, residential (multi-family, attached and detached single family) and assisted living facility uses.

On May 20, 2021, the Rocky-Fork Blacklick Accord Panel recommended approval of the application. The application met 89% of the Accord Town Mixed Use land use district development standards.

Once the rezoning application has been approved by City Council, the application must return to the Planning Commission with a final development plan application due to the Infill-Planned Unit Development (I-PUD) zoning classification.

Chapter 1159 of the city's Codified Ordinances (Planned Unit Development District) permits the use of more flexible land use regulations and provides flexible design and development standards in order to facilitate the most advantageous land development techniques. Planned Unit Development zoning is often used to establish district designations for uses that are harmonious with the general area and the Strategic Plan. The objective of a Planned Unit Development zoning is to encourage ingenuity, imagination and design efforts to produce development that maintains the overall land use intensity and open space objectives of the city code and the Strategic Plan while departing from the strict application of dimensional standards found in traditional zoning districts.

II. SITE DESCRIPTION & USE

The 30.6+/- acre zoning area is located in Franklin County and is made up of 16 properties, some of which are vacant land and the others contain single family homes. This section of the Central College Road corridor and specifically this intersection serves as a transition between denser retail, residential and commercial development uses on the west side of 605 to more traditional residential land uses on the east side. Some examples of this include the original sections of the New Albany Business Park with the old discover building to the north, multi-family residential development to the west in Columbus and traditional single-family residential development to the east in New Albany.

III. PLAN REVIEW

Planning Commission's review authority of the zoning amendment application is found under C.O. Chapters 1107.02 and 1159.09. Upon review of the proposed amendment to the zoning map, the Commission is to make recommendation to City Council. Staff's review is based on city plans and studies, proposed zoning text, and the codified ordinances. Primary concerns and issues have been indicated below, with needed action or recommended action in underlined text.

<u>Per Codified Ordinance Chapter 1111.06 in deciding on the change, the Planning Commission shall consider, among other things, the following elements of the case:</u>

- (a) Adjacent land use.
- (b) The relationship of topography to the use intended or to its implications.
- (c) Access, traffic flow.
- (d) Adjacent zoning.
- (e) The correctness of the application for the type of change requested.
- (f) The relationship of the use requested to the public health, safety, or general welfare.
- (g) The relationship of the area requested to the area to be used.
- (h) The impact of the proposed use on the local school district(s).

Per Codified Ordinance Chapter 1159.08 the basis for approval of a Preliminary Development Plan in an I-PUD shall be:

- (a) That the proposed development is consistent in all respects with the purpose, intent and applicable standards of the Zoning Code;
- (b) That the proposed development is in general conformity with the Strategic Plan or portion thereof as it may apply;
- (c) That the proposed development advances the general welfare of the Municipality;

- (d) That the benefits, improved arrangement and design of the proposed development justify the deviation from standard development requirements included in the Zoning Ordinance;
- (e) Various types of land or building proposed in the project;
- (f) Where applicable, the relationship of buildings and structures to each other and to such other facilities as are appropriate with regard to land area; proposed density of dwelling units may not violate any contractual agreement contained in any utility contract then in effect:
- (g) Traffic and circulation systems within the proposed project as well as its appropriateness to existing facilities in the surrounding area;
- (h) Building heights of all structures with regard to their visual impact on adjacent facilities;
- (i) Front, side and rear yard definitions and uses where they occur at the development periphery;
- (j) Gross commercial building area;
- (k) Area ratios and designation of the land surfaces to which they apply;
- (1) Spaces between buildings and open areas;
- (m) Width of streets in the project;
- (n) Setbacks from streets;
- (o) Off-street parking and loading standards;
- (p) The order in which development will likely proceed in complex, multi-use, multi-phase developments;
- (q) The potential impact of the proposed plan on the student population of the local school district(s);
- (r) The Ohio Environmental Protection Agency's 401 permit, and/or isolated wetland permit (if required);
- (s) The U.S. Army Corps of Engineers 404 permit, or nationwide permit (if required).

A. Engage New Albany Strategic Plan

The site is located within the Employment Center base future land use district. In addition to providing strategic land use districts, the Engage New Albany Strategic Plan also includes focus areas to demonstrate how the recommendations outlined in the other sections of the strategic plan can be applied in the built environment. This hamlet area is included in a focus area and the strategic plan recommends the creation of a mixed-use node around the Central College Road and SR 605 intersection.

The Engage New Albany Strategic Plan also identifies this general location where a hamlet could located in the city. The hamlet concept identifies an opportunity to introduce walkable retail and commercial uses with residential areas. The creation of this concept in the plan is in response to the significant input received from residents during the public outreach process of the plan where residents identified the lack of local dining and retail options in the city as a weakness and providing more of these options as a top priority for the community. The plan lists the following development standards for hamlets.

- Street edges and streetscape treatments are reinforced. Alternate street typologies and reduced setbacks may be appropriate based on the pattern of development.
- Hamlets need to incorporate public spaces like pocket parks or pedestrian corridors. These are gathering spaces for office employees and residents of the area.
- Buildings may not be taller than three stories in height around the civic green, nor taller than two stories at the perimeter.
- Hamlets should have a balance of neighborhood retail, commercial office, and residential uses.
- All non-single-family development should front on the green.
- A hamlet does not necessarily have to include residential uses if it is located near an area with established residences and has strong pedestrian connections to those existing neighborhoods.
- Surface parking should be located to the rear of commercial and non-single-family uses.

- Drive locations should be kept to a minimum and the placement of buildings should encourage pedestrian activity.
- Development proposals for identified hamlets should submit an overall master plan for the area showing how it fits together appropriately in terms of mobility, site layout, uses, and aesthetics.
- Hamlet development is expected to go through the Planned Unit Development rezoning process.
- Hamlet development should be high quality and built with a high level of attention to site and building design.
- Hamlet development is expected to propose an architectural style that is both distinctive and complementary to New Albany's character and brand.

The Engage New Albany Strategic Plan recommends the following standards as prerequisites for all development proposals in New Albany:

- Development should meet setback recommendations contained in strategic plan.
- Streets must be public and not gated. Cul-de-sacs are strongly discouraged.
- Parks and open spaces should be provided, publicly dedicated and meet the quantity requirements established in the city's subdivision regulations (i.e. 20% gross open space and 2,400 sf of parkland dedication for each lot).
- All or adequate amounts of open space and parkland is strongly encouraged to be provided on-site. If it cannot be provided on-site, purchasing and publicly dedicating land to expand the Rocky Fork Metro Park or park space for the Joint Parks District is an acceptable alternative.
- The New Albany Design Guidelines & Requirements for residential development must be met
- Quality streetscape elements, including an amenity zone, street trees, and sidewalks or leisure trails, and should be provided on both sides of all public streets.
- Homes should front streets, parks and open spaces.
- A residential density of 1 dwelling unit (du) per acre is required for all residential or a density of 3 du per acre for age restricted housing.
 - O Higher density may be allowed if additional land is purchased and deed restricted. This type of density "offset" ensures that the gross density of the community will not be greater than 1 unit per acre. Any land purchased for use as an offset, should be within the NAPLS district or within the metro park zone.

B. Zoning Text Overview and Intent

The applicant's intent is to develop a hamlet as envisioned in the Engage New Albany Strategic Plan. To achieve this goal, the text commits to the principles of the master planning process and holistic design which is a crucial component of the strategic plan within the zoning text. This zoning text recognizes the intrinsic relationship between the public and private realm to ensure the following general principles of the zoning district and the intent of a hamlet are met:

- Providing a pedestrian friendly environment that places a high priority on walking and bicycling;
- Creation of interesting and convenient destinations;
- A commitment to respecting the natural environment; and
- Using high quality architecture and design that emphasizes beauty, human comfort and creating a sense of place.

To achieve these goals, the text commits to providing various master plans as part of the final development plan process including:

- Overall site planning and associated proposed uses;
- Cohesive streetscapes and perimeter landscaping;
- Vehicular access and shared parking solution;
- Bicycle access and shared parking solution;

- Lighting; and
- Signage (as needed).

Areas where the text is not meeting these development standards are underlined in the staff report. A very detailed purpose and intent statement for the district can be found on the first two pages of the zoning text.

C. Use, Site and Layout

- 1. The site is generally located at the southwest and southeast corners of the New Albany Condit Road and Central College Road intersection. These exact site boundaries are identified in the Engage New Albany Strategic Plan as a location for a hamlet/mixed use development pattern due to the transitional character of the general area.
- 2. The proposed zoning district is Infill-Planned Unit Development (I-PUD) that will permit the construction of a hamlet style of development which contains a variety of commercial, retail, assisted living facility and residential (multi-family as well as single family detached and attached) uses. These permitted uses are broken up into six different subareas in the zoning text and illustrated on the preliminary development plan. The epicenter of the zoning district will be located in subarea 3, with a diversity of uses centered around green space. The table below provides a high-level overview of the uses permitted in each subarea. All non-residential uses proposed in the text are only permitted to be located on the west side of New Albany Condit Road.

| Subarea | Acreage | Permitted Uses | Conditional | Notes |
|---------|-----------------|--|--|--|
| | | | Uses | |
| 1 | 1.8+/- acres | General Business Commercial District Uses found in the C-2 General Business District (C.O. 1147.02) which permits office, general retail stores, personal service uses such as restaurants, banks, and beauty shops. | Conditional uses permitted in C.O. 1147.03 | Prohibited uses include funeral services, self-service laundries, and gasoline service stations or retail convenience stores selling gasoline as an ancillary use. |
| 2 | 5.4+/- acres | Max 280 multi-family Dwelling Units, private community center facility and home occupations | | 1, 2, and 3 bedroom units permitted provided no more than 40% of units can have 2 bedrooms and no more than 8 units can have 3 bedrooms |
| 3 | 9.1+/- acres | Parks and open space, recreation facilities, 25 residential "whimsical" cottages and office, retail, restaurant, and outdoor performances area uses | None. | Includes outdoor performance space and a public 8.5-acre Sugar Run Park. |
| 4 | 2.8+/- acres | Max 25 single family attached residences | One model home or leasing | |

| | | | office | |
|---|-----------------|--|---|---|
| 5 | 6.5+/- acres | Senior Living Facility Uses, supportive uses and office uses | Daycares and preschools | Includes assisted living facilities, memory care facilities, skilled nursing facilities, and independent living facilities. |
| 6 | 5.4+/- acres | Max 35 single family attached and detached residences, one model home and home occupations | One model home or leasing office | |

- 3. The Engage New Albany Strategic Plan recommends a gross density of 1 dwelling unit per acre or up to 3 units per acre if the development is 100% age restricted. The city of New Albany's codified ordinances does not define assisted/senior living facilities as a residential so city staff has not included it in the overall residential density calculations.
 - O Between all subareas, the applicant proposes 365 residential units on 30.6 acres (gross acreage) resulting in a density of 11.93 units per acre (not including senior living facilities).
 - The Engage New Albany states that higher density may be allowed if additional land is purchased and deed restricted. This type of density "offset" ensures that the gross density of the community will not be greater than 1 unit per acre. Any land purchased for use as an offset, should be within the NAPLS district or within the metro park zone. The applicant states that there are currently no density credits available for purchase in the city and the applicant would be required to assemble a large amount of land to purchase in order to develop a hamlet as envisioned in the strategic plan. Further, the applicant states that in order to fully offset the density of the project they would have to purchase 335 acres of property in the school district which is more than what is currently available and they estimate that they would have to spend an additional \$35 million to offset the density if the land were available.
 - While the proposal is higher than the strategic plan's recommended density since it is not providing an "offset", city staff is supportive of the density since it is appropriate given the hamlet development pattern. The hamlet is located within a transitional area between Columbus and New Albany and the development pattern is consistent with the Central College corridor to the west.
- 4. A school impact statement was submitted with the application. The applicant provided different student ratios for each housing type based on data collected from other similar projects including some of their own similar projects. The ratios are consistent with historical student impact statements for other residential developments in New Albany. Based on this estimation, the applicant projects that this development will have a net positive financial impact on the school district.
- 5. The Engage New Albany Strategic Plan, hamlet development standards state that alternate street typologies and reduced setbacks may be appropriate based on the desired pattern of development. The text provides a 70 foot building and pavement setback from the centerline of Central College Road and New Albany Condit Road. Subarea 5 allows a zero-foot pavement setback and 25-foot primary building setback and 10-foot ancillary building setback from New Albany Condit Road right-of-way. The text contains a variety of other internal and perimeter boundary setbacks that take into consideration adjacent uses to provide an appropriate setback from those boundaries. There are minimal interior setbacks to ensure that a cohesive development is achieved where pedestrian connectivity

- between subareas is encouraged. The proposed setbacks are appropriate based on the desired development pattern of a hamlet and provide appropriate screening from adjacent residential uses where they exist.
- 6. The zoning text states that all development within this area must be accessed from a public road. The text commits to providing right-of-way for Central College Road, New Albany Condit Road and all new roads in the development. Staff is supportive of the amounts provided as they ensure a proper streetscape with all typical amenities can be installed within them. The text commits to providing a master plan for all streetscape and perimeter landscaping plans as part of a future final development plan application.
- 7. The zoning text states contains varying lot coverage requirements between 35% and up to 90% based on each subarea. The lowest lot coverage amount is found in subarea 3 where a public park is proposed is permitted to be development and the highest is for the subarea where a multi-family building is permitted to be developed.

D. Access, Loading, Parking

- 1. The zoning district is located at the southwest and southeast corners of the Central College Road and State Route 605 intersection. As proposed, the zoning district will be accessed via 4 new curb cuts along these corridors. The applicant proposes to connect into an existing private drive in Columbus where several commercial users exist such as Huntington Bank and Taco Bell. The text requires some of the new roads to be dedicated as public roads but allows the alleys to be private. Staff recommends a condition of approval that the text be revised to require all new streets and alleys to be publicly dedicated per the recommendations of the Engage New Albany strategic plan.
- 2. A traffic impact study was completed and submitted by the developer. and the study recommends the following public street improvements:
 - Addition of northbound right turn lane on 605 at Central College;
 - Restriping Central College Road to add left turn lane into site for westbound traffic where it aligns with the Discover entrance.
 - Street widening to accommodate various left turns on 605 for north and southbound traffic at the one new entry point into the development and at the entrance to the Enclave subdivision (Snider Loop).
- 3. During the RFBA meeting, residents of the Enclave subdivision expressed concerns about making lefts out of their subdivision onto 605. The traffic impact study evaluated this and it does not advise alternative/additional improvements (i.e. roundabout or signal) at Snider Loop. The city traffic engineer has reviewed the traffic impact study's evaluation and agrees with the findings based on the traffic volumes and speeds. The city traffic engineer comments:
 - As part of this development a southbound left turn lane into Snider Loop will added which will increase safety for that turning movement in the Enclave subdivision.
 - The city traffic engineer recommends additional analysis of the design of the Snider Loop and 605 intersection. The design of the intersection should be revised so the centerlines of Snider Loop and new street align to ensure there is no overlapping left turn movements. Staff recommends this be a condition of approval subject to the review and approval of the city traffic engineer.
 - The current speed limit along this portion of State Route 605 where it intersects with Snider Loop is 45 mph. The city intends to work with the developer and ODOT to lower the posted speed limit to 35mph in conjunction with construction of the development. This will improve pedestrian safety and vehicle traffic turning left from Snider Loop onto State Route 605.
- 4. Based on the findings of the traffic impact study, staff will work with the applicant to study the extent of the street widening along 605 relating to the turn lanes needed for the development. Staff recommends this be a condition of approval subject to the review and approval of the city traffic engineer.

- 5. The text requires 8-foot-wide, asphalt leisure trails to be installed along both Central College Road and New Albany Condit Road. The text commits to providing additional leisure trail and sidewalk connections throughout the zoning district in order to place a high priority on walking and bicycling, meeting an important strategic plan recommendation for this development type. The text permits the development of a new public road in subarea 5, along the southern boundary of the zoning text that will allow the installation of a 5 foot sidewalk to be installed on the north side of it. In order to be consistent with the Engage New Albany Strategic Plan roadway character classifications, the Leisure Trail Master Plan and city code requirements, staff recommends a condition of approval that the text be revised to require leisure trail or sidewalk to be installed on both sides of this road.
- 6. The text commits to providing a comprehensive vehicle and bicycle parking plan as part of the first final development plan for the zoning district. The text states that the parking plan shall analyze peak uses and recommend the total number of parking spaces and their locations based on shared parking principles and ratios to provide adequate parking without "overparking" that would detract from the built environment and provide a comprehensive parking strategy for the zoning district.
 - The text does contain specific parking space ratios for subarea 2.
 - The text requires parking for the multi-family building in subarea 2 to be provided on the interior of the building with the following rates. The text permits a maximum of 8 three-bedroom units inside the multi-family building however parking requirements are not specified. Staff recommends a condition of approval that parking standards for three-bedroom units are added to the text or are included with the final development plan.
 - i. 1.05 parking spaces for each studio unit.
 - ii. 1.16 parking spaces for each one-bedroom unit
 - iii. 1.64 spaces per two-bedroom unit.
 - The text requires a minimum of one parking space for every 1,000 square feet contained in the community center/clubhouse in subarea 2.
 - The text requires homes within subarea 4 to have a minimum one car garage and shall be required to have a minimum of one off-street parking spaces on their driveways.
 - The text requires homes within subarea 6 to have a minimum one-car garage.

E. Architectural Standards

- 1. The hamlet development standards in the Engage New Albany Strategic Plan state that hamlets are expected to propose an architectural style that is both distinctive and complementary to New Albany's character and brand. Additionally, the plan recommends that hamlet development be of high quality and that a high level of attention is paid to building and site design. The text contains many requirements, restrictions and allowances regarding architecture unique to each subarea that vastly meet the intent of the strategic plan recommendations.
- 2. The New Albany Design Guidelines and Requirements (DGRs) ensure residential and commercial development both sustain their quality and vibrancy over time. These guidelines have been developed by New Albany to ensure that the community enjoys the highest possible quality of architectural design that has made the community successful thus far. The text states that the DGRs will be applied to all subareas with the exception of subarea 3 due to the unique nature of that subarea and the fact that there are no governing DGR requirements for that development type. Subarea 3 is the epicenter of the development where the most activity is expected to take place and the text allows for the greatest amount of flexibility here to ensure a unique sense of place can be created.
- 3. For all subareas, the text commits to meeting or exceeding the architectural standards of New Albany while enabling creativity in defined locations. Additionally, the text commits to 360-degree design for all buildings in the zoning district, meeting an important goal of the city. Character images for the intended architectural design of the

- zoning district are included in the submittal. More detailed architectural designs/renderings will be reviewed and approved as part of future final development plan applications.
- 4. The hamlet development standards state that the maximum number of building stories, interior to the site is 3 and a maximum of two stories at the perimeter. The applicant is meeting this requirement for all subareas with the exception of subareas 2 and 6.
 - a. Subarea two is where a multi-family building is permitted to be developed and the text allows a maximum height of 53 feet and four stories.
 - b. <u>Subarea 6 (located at southeast corner of 605 and Central College) permits a</u> maximum of 3 stories.
 - c. The Central College Road corridor has seen a significant amount of development since the creation of the Accord Plan. There are many existing examples along this corridor where 3-3.5 story buildings have been constructed.
 - d. While taller than the strategic plan recommendations, there are other 3 and 4 story office buildings in the general area such as the Water's Edge structures to the south along Walton Parkway so the development does not appear to be out of character for the corridor. The buildings in these two subareas will be located at the southwest and southeast corners of the Central College Road and State Route 605 providing a strong architectural presence at these corners. The hamlet takes into consideration the surrounding heights of building by matching surrounding building heights along the edges and appropriately transitioning to the taller buildings at the corners and along public roads.
- 5. The text permits the use of the following building materials and prohibits exposed concrete foundations.
 - a. Brick and brick veneer
 - b. Cementitious or composite siding
 - c. Vinyl is permitted on building exteriors that are not visible from any road and surrounded by building facades on all sides and within subarea 5 if the Planning Commission approves it as part of a final development plan application.
 - d. Metal panels, EIFS, wood and aluminum are permitted as trim or accent elements.
- 6. The DGRs require active and operable doors to be installed along all public streets. The applicant is meeting this requirement with the exception of subarea 1 where single tenant buildings are not required to have one along Central College Road. The text does require building facades facing Central College Road to include an architectural feature that encourages pedestrian connectivity, meeting the spirit and intent of the DGR requirement.
- 7. The text requires additional architectural details such as roof plans, garage door design/colors, dormer details, columns and cornice details to be submitted and reviewed as part of a final development plan application.
- 8. The text requires rooftop screening for sight and sound for all subareas.

E. Parkland, Buffering, Landscaping, Open Space, Screening

1. The Engage New Albany Strategic Plan emphasizes the importance of providing greenspace and promoting sustainability by protecting, preserving and enhancing natural features in these mixed-use areas. The Engage New Albany Plan's Mixed Use (included with Hamlets) development standards state that an appropriate amount of open space to provide in hamlets is between 0.5 and 10 acres. The zoning district is bisected by the Sugar Run Creek. The applicant proposes to activate an 8.5-acre space around Sugar Run Creek as the center of the development and the text allows the applicant to install trails, benches and other amenities within this area to make it attraction for all of the New Albany community. This acreage amounts to 27% of the zoning district and is appropriate based on the mixed-use nature of the development of a hamlet.

2. The Codified Ordinances subdivision regulations contain requirements about the provision of open space and parkland dedication which only considers typical suburban single-family development. The table below shows the required and proposed amounts. It is clear in the amounts shown below that city code never contemplated this type of development and it would be unreasonable to apply these suburban residential standards in this case. The applicant states that if they were to meet this standard, 86% of the site would have to be dedicated as parkland and open space. Additionally, if they were required to pay a fee-in-lieu they estimate that it would cost as much as \$5.6 million which would completely destroy the economic viability of any Hamlet in the city.

| C.O. Requirement | Shown on PDP as | Required (acres)* | Provided (acres) | Meets Code? |
|---------------------|-----------------------|-------------------|------------------|----------------|
| 1187.16 | Open | 6.12 | See below | No |
| Open Space | Space | | | |
| 1189.15 | open | 20.11 | See below | No |
| Parkland Dedication | Space | | | |
| | Total | 26.23 | 8.47 | |

^{*}Calculation based on 30.6 acres and 365 units.

The zoning text states that this 8.47 acre space around Sugar Run Creek will enhanced and cleaned to improve its health and sustainability and provide a defining feature for this zoning district, substantially meeting the parks and open space recommendations for hamlet areas. The text states that this area will be dedicated to the city or maintained as open space with public access determined as part of a final development plan application. The text suggests that this space will be maintained by the city if is publicly owned and privately if owned privately or the business association. Staff recommends a condition of approval that the text be clarified to state that this area will be owned by the city and maintained by a private owner or business association in perpetuity.

- 3. The text commits to and city code requires providing 3-inch caliper street trees along all public roads at an average rate of 30 feet on center. The applicant commits to providing a master perimeter and streetscape plan as part of a final development plan application. Additionally, the applicant will also be required to meet the minimum interior parking lot landscape requirements of city code and submit landscape plans with each final development plan application to be reviewed by the city landscape architect.
- 4. The text contains screening requirements for dumpsters, loading and service areas that is consistent with city code.
- 5. The zoning text exempts the applicant from providing the internal landscaping buffering requirements between dissimilar uses as required by C.O. 1171.05. Staff believes that this is appropriate due to the mixed-use development pattern of the zoning district.

F. Utilities, Lighting & Signage

- 1. The text requires all utilities to be installed underground.
- 2. The text states that all security lighting be motion sensor type.
- 3. The text states that street lighting shall not exceed 30 feet in height, that fully shielded cut off type fixtures be used and be consistent throughout the zoning district.
- 4. The text requires standard New Albany street regulatory signage to be used and that any entry feature signage be subject to review and approval at the time of a final development plan application.
- 5. The text requires a master sign plan to be submitted in conjunction with the fist final development plan for the zoning district and where this sign plan is silent, the city sign code regulations will apply. Additionally, the text states that the intent for subarea 3 is to create a unique and creative sign package that will determine design, numbers and placement on buildings within the subarea.

IV. ENGINEER'S COMMENTS

The City Engineer has reviewed the referenced plan in accordance with the engineering related requirements of Code Section 1159.07(b)(3) and provided the following comments:

- 1. Sugar Run is a FEMA studied stream (Map No. 39049C0180). We recommend that the Stream Corridor Protection Zone (SCPZ) width be established in accordance with Chapter 1155 Flood Damage Reduction.
- 2. We will evaluate storm water management, sanitary sewer collection and roadway construction related details once construction plans become available

V. RECOMMENDATION

Basis for Approval:

Staff recommends approval of the rezoning application. The Engage New Albany Strategic Plan envisions the concept of a hamlet which is the intent of this zoning district. This concept was revived in the strategic plan based on public feedback the city collected from residents during the recent strategic planning process. Residents cited a lack of local dining and retail options as the city's second greatest weakness and one of the top areas where the city should focus their efforts in the future. Additionally, residents expressed interest in adding a diversity of housing options to ensure that New Albany is a life-span community.

The proposal matches the city strategic plan's land use recommendation and meets 11 out of 12 hamlet development standards found in the Engage New Albany Strategic Plan. The Engage Plan recommends buildings not be taller than three stories in height around the civic green, nor taller than two stories at the perimeter. While a portion of this development exceeds the height recommendations, the height and number of stories appears appropriate since it takes into consideration the surrounding environment by transitioning heights from neighboring properties. Moreover, the site plan, architectural commitments and requirements, landscaping and strong emphasis on pedestrian experience and connectivity equates to a development that is very desirable from a site and building design and planning perspective.

The city's parkland and open space requirements account for a traditional single-family subdivision. While the subdivision regulations technically apply to this site since it is creating new residential sites, it does not account for this type of Hamlet mixed-use development pattern recently established and recommended by the Engage New Albany Strategic Plan. The development provides a substantial amount of passive open space by establishing Sugar Run Park and an active, central parkland where restaurants and performances will be located.

The strategic plan identifies this site as one of two locations in the city where this type of hamlet development is appropriate given its location and the surrounding development context. Overall, the proposed densities and uses are appropriate due to the location of the zoning district along the Central College Road corridor which serves as a transitional area between denser residential and commercial development to the west and north to the typical suburban residential development that exist on the east side of 605. While the proposed density exceeds the strategic plan recommendations since it is not proposing an offset, it is appropriate given the desired development pattern of a hamlet. Moreover, the zoning text accounts for this transition by permitting single family attached and detached uses on the east side of 605, providing an appropriate transition to the denser uses that are permitted on the west of 605.

Master planning and holistic design principles are crucial components of what has made the New Albany community so successful to date and the applicant commits to these principles. This plan and its design recognizes the intrinsic relationship between the public and private realms to ensure the following general principles of the zoning district are met:

 Providing a pedestrian friendly environment that places a high priority on walking and bicycling;

- o Creation of interesting and convenient destinations;
- o A commitment to respecting the natural environment; and
- O Using high quality architecture and design that emphasizes beauty, human comfort and creating a sense of place.

To achieve these goals, the applicant commits to providing various master plans as part of the final development plan process including a shared vehicular and bicycle parking, streetscape and perimeter landscaping, lighting and signage plans.

The proposed rezoning accomplishes the following city code considerations found in C.O. 1111.06:

- 1. The zoning amendment will result in a more comprehensive planned redevelopment of the area and will ensure compatibility between uses in the immediate area (1111.06(a)).
- 2. The proposed zoning classification permits consistent uses found within other adjacent zoning districts (1111.06(b)).
- 3. The zoning amendment application is an appropriate application for the request (1111.06(e)).
- 4. The overall effect of the development advances and benefits the general welfare of the community (1111.06(f)).

Staff recommends approval provided that the Planning Commission finds the proposal meets sufficient basis for approval.

VI. ACTION

Suggested Motion for ZC-43-2021:

To recommend approval to city council of zoning amendment application ZC-43-2021 based on the findings in the staff report with the following conditions.

- 1. The text must be revised to require all new roads and alleys to be dedicated publicly.
- 2. The final design and geometry of proposed curb cut, aligning with Snider Loop, is subject to staff approval in order to ensure proper turn movements are achieved.
- 3. The text must be revised to require leisure trail or sidewalk to be installed on both sides of the proposed new public road within subarea 5.
- 4. Parking standards for three-bedroom units in subarea 2 must be added to the text or are included with the final development plan.
- 5. The text must be revised to state that the proposed Sugar Run Park will be owned by the city and maintained by a private owner or business association in perpetuity.
- 6. The final lengths of street widening and roadway design along State Route 605, geometrics/design of the Snider Loop/605 intersection, and extent of the right turn lane from State Route 605 onto Central College be subject to the city traffic engineer's review and approval.

Approximate Site Location:



Source: Google Earth

| Permit # | |
|-----------|--|
| Board | |
| Mtg. Date | |



Community Development Planning Application

| | Site Address 6945 Central College Road and others | 1 |
|---------------------|--|--------------------------|
| | Parcel Numbers See accompanying list Acres 30.33 ± # of lots created | ė |
| Project Information | Choose Application Type Circle all Details that Apply Comprehensive Amendment Comprehensive A | |
| Contacts | Property Owner's Name: SNAT LLC and others (see accompanying Address: c/o NoNA Master Development LLC Attn: Yaromir Steiner City, State, Zip: 4016 Towns fair Way, Suite 201, Columbus, Ott 43219 Phone number: Email: NoNA Master Development LLC Address: Same as above City, State, Zip: Phone number: Email: Fax: Email: | rist) - and Brigan Stone |
| Signature | Site visits to the property by City of New Albany representatives are essential to process this application. The Owner/Applicant, as signed below, hereby authorizes Village of New Albany representatives, employees and appointed and elected officials to visit, photograph and post a notice on the property described in this application. I certify that the information here within and attached to this application is true, correct and complete. Signature of Owner Signature of Applicant By: A L Mullium Date: 4/20/21 Date: 4/20/21 | |

NoNA Zoning District

Property Owners and Parcel Numbers

SNAI LLC

Attn: Yaromir Steiner and Bryan Stone

4016 Townsfair Way, Suite 201

Columbus, Ohio 43219

Parcel Numbers: 222-000675, 222-000685, and 222-000686

The New Albany Company

Attn: Thomas Rubey

8000 Walton Parkway, Suite 120

New Albany, Ohio 43054

Parcel Numbers: 222-000664, 222-000671, 222-000672, 222-000654, 222-000669, 222-000549,

222-000668, 222-001167, 222-000688, 222-000375, 222-000314, and 222-000673

Ralph W. Fallon, Trustee

7555 Zarley Street

New Albany, Ohio 43054

Parcel Numbers: 222-000676 and 222-000678

Kevin L. Komraus

6495 Central College Road New Albany, Ohio 43054 Parcel Number: 222-000670

5.365 ACRES

Situated in the State of Ohio, County of Franklin, City of New Albany, in Section 13, Quarter Township 2, Township 2, Range 16, United States Military Lands, being comprised of all of those tracts of land conveyed to The New Albany Company, LLC by deeds of record in Instrument Numbers 200012080249008 and 200106250142592 (all references refer to the records of the Recorder's Office, Franklin County, Ohio) and more particularly bounded and described as follows:

BEGINNING at the northwesterly corner of that 1.015 acre tract conveyed to Robert E. Verst Jr. and Roseanne I. Verst as Tract One by deed of record in Instrument Number 201310180176801, in the southerly right of way line of Central College Road;

Thence the following courses and distances:

South 03° 28' 05" West, a distance of 198.03 feet to a point;

South 86° 11' 45" East, a distance of 188.14 feet to a point;

South 03° 33' 26" West, a distance of 508.47 feet to a point;

North 86° 11' 45" West, a distance of 373.35 feet to a point;

North 00° 03' 12" West, a distance of 139.91 feet to a point;

North 03° 28' 05" East, a distance of 179.94 feet to a point;

North 01° 58′ 54″ East, a distance of 336.97 feet to a point of curvature to the right;

With the arc of said curve, having a central angle of 90° 11' 37", a radius of 50.00 feet, an arc length of 78.71 feet, a chord bearing of North 48° 42' 36" East and chord distance of 70.83 feet to a point; and

South 86° 11' 45" East, a distance of 153.04 feet to the POINT OF BEGINNING, containing 5.365 acres of land, more or less.

25.168 ACRES

Situated in the State of Ohio, County of Franklin, City of New Albany, in Section 13, Quarter Township 2, Township 2, Range 16, United States Military Lands, being comprised of all of that tract of land conveyed to Kevin L. Komraus by deeds of record in Instrument Numbers 200209110224893 and 200209110224894, all of that tract of land conveyed to Ralph W. Fallon, Trustee by deed of record in Instrument Number 201012150170151, all of those tracts of land conveyed to SNAI. LLC by deeds of record in Instrument Numbers 201909170120440, 201909170120483, and 202006100081519, and all of those tracts of land conveyed to The New Albany Company, LLC by deeds of record in Official Records 14952J07 and 21256E01, and Instrument Numbers 200107120159281, 200110250246605, 201603170031803, 199811122089607, 200007270148835, 199804160090633, 199804160090632, 199911100282665, 201604080042971 (all references refer to the records of the Recorder's Office, Franklin County, Ohio) and more particularly bounded and described as follows:

BEGINNING at the northeasterly corner of that 0.824 acre tract conveyed to New Albany TB, LLC by deed of record in Instrument Number 201310180176797, in the southerly right of way line of Central College Road;

Thence the following courses and distances:

South 86° 08' 42" East, a distance of 984.78 feet to a point of curvature to the right;

With the arc of said curve, having a central angle of 15° 10' 39", a radius of 50.00 feet, an arc length of 13.24 feet, a chord bearing of South 41° 41' 11" East and chord distance of 13.21 feet to a point;

South 03° 27' 06" West, a distance of 430.75 feet to a point;

North 86° 08' 42" West, a distance of 290.00 feet to a point;

South 03° 27' 06" West, a distance of 150.00 feet to a point;

South 86° 08' 42" East, a distance of 300.00 feet to a point;

South 04° 26' 22" West, a distance of 552.82 feet to a point;

North 86° 29' 28" West, a distance of 241.57 feet to a point;

North 00° 51' 46" East, a distance of 5.40 feet to a point;

North 86° 20' 17" West, a distance of 757.51 feet to a point; and

North 03° 41' 21" East, a distance of 1141.40 feet to the POINT OF BEGINNING, containing 25.168 acres of land, more or less.



| NoNA Master Development, LLC 4016 Townsfair Way, Suite 201 Columbus, Ohio 43219 |
|---|
| |
| The City of New Albany Community Development Planning 99 West Main Street New Albany, Ohio 43054 |
| RE: Petition to Amend and Modify the "Code of Ordinances City of New Albany, Ohio" and the "Official Zoning Map" of the City of New Albany (as amended) to Create the "NoNA Zoning District" |
| City Staff & Leadership: |
| Pursuant to Chapter 1159 of the Code of Ordinances City of New Albany, Ohio (the "Code") the undersigned owners and authorized representatives of the below referenced properties, individually and collectively petition the City Council and Planning Commission of the City of New Albany, Ohio (the "City") to: |
| 1. Amend the Code to enact the "NoNA Zoning District" substantially in the form of the New Albany Community Development Planning Application and associated materials submitted to the City by NoNA Master Developer, LLC on April 20, 2021 (the "Application"); and |
| 2. Amend the "Official Zoning Map" of the City (as amended) to reflect the Application to the Propert(ies). |
| Please reach out to Aaron Underhill of Underhill & Hodge, LLC at 614.335.9320 or aaron@uhlawfirm.com , if you have any questions regarding the above. |
| We appreciate your consideration of our application. |
| Sincerely, |
| Ralph Fallon Trustee dottoop verified 04/30/21 7:30 PM EDT DDD2-LOZT-SEYY-JY6M |
| Authorized Representative of |
| 2 separate parcels. 676 is 6527 Central College Road and 678 is addressed as Central College Road with no numbers. Franklin County parcel numbers 222-000676-00 and 222-000678-00 |
| Name: Ralph Fallon Trust |

Its:

Owner



| NoNA Master De 4016 Townsfair W Columbus, Ohio 4 | yay, Suite 201 |
|--|----------------|
| | |

The City of New Albany Community Development Planning 99 West Main Street New Albany, Ohio 43054

RE: Petition to Amend and Modify the "Code of Ordinances City of New Albany, Ohio" and the "Official Zoning Map" of the City of New Albany (as amended) to Create the "NoNA Zoning District"

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- 2. Amend the "Official Zoning Map" of the City (as amended) to reflect the Application to the Propert(ies).

Please reach out to Aaron Underhill of Underhill & Hodge, LLC at 614.335.9320 or aaron@uhlawfirm.com, if you have any questions regarding the above.

We appreciate your consideration of our application.

Sincerely,



Authorized Representative of

6495 Central College Road, New Albany OH 43054. Franklin County Parcel 222-000670-00

| Name: | Kevin L. Komraus |
|-------|------------------|
| Its: | Owner |

May 5, 2021

Mr. Steve Mayer
The City of New Albany
Community Development Planning
99 West Main Street
New Albany, Ohio 43054

Via Email: smayer@newalbanyohio.org

RE: Petition by NoNA Master Development, LLC to Amend and Modify the "Code of Ordinances City of New Albany, Ohio" and the "Official Zoning Map" of the City of New Albany (as amended) to Create the "NoNA Zoning District"

Mr. Mayer:

This letter will serve to confirm that The New Albany Company LLC, as the owner of Franklin County Auditor's tax parcels 222-000673, 222-000688, 222-000668, 222-001167, 222-000549, 222-000669, 222-000654, 222-000672, 222-000671, 222-000664, 222-000314, and 222-000375 consents to NoNA Master Development, LLC's submittal of the application dated April 20, 2021 to modify the zoning applicable to such parcels.

Please contact me if you have any questions.

Sincerely,

Dick Roggenkamp

Director of Real Estate

The New Albany Company

cc: Laura Cooper Wedekind, NoNA Master Development, LLC

Tom Rubey, The New Albany Company Molly Iams, The New Albany Company Aaron Underhill, Underhill & Hodge



NoNA Master Development, LLC 4016 Townsfair Way, Suite 201 Columbus, Ohio 43219

April 20, 2021

The City of New Albany Community Development Planning 99 West Main Street New Albany, Ohio 43054

RE: Fulfilling the Vision of Engage New Albany

City Staff & Leadership:

The City of New Albany has spent more than one year working with residents, stakeholders, and industry professionals to adopt the Engage New Albany 2030 Strategic Plan. The Engage New Albany 2030 process defined a specific vision for the City that stays true to the ideals that has made it one of the nation's premier suburban communities while proactively adapting to important regional trends.

Central to that vision is the idea that the City will benefit from a limited number of focused mixed-use development areas designed to serve select neighborhoods located outside the City's Village Center (See Engage New Albany 2030, p. 75). These "Hamlets" were originally introduced in the original 1997 Rocky Fork Blacklick Accord and are intended to provide a well-designed, amenity-rich anchor to surrounding neighborhoods and have been proposed in three locations throughout the City.

The North New Albany Zoning District (the "NoNA Zoning District") will be the first proposed Hamlet zoning district introduced as a result of the Strategic Plan's recommendations. The proposed NoNA Zoning District has been specifically tailored to meet the needs and vision of the City of New Albany as defined by its officials, stakeholders, and residents through the Engage New Albany 2030 resident survey. It is situated in the location called out by the Strategic Plan for a Hamlet district to anchor the "Northwest Focus Area", includes world-class design and planning, and houses a wide range of community-focused amenities. Notwithstanding, several inconsistencies between the City's existing zoning policy and Engage New Albany 2030's stated objectives would make the development of any proposed Hamlet project impossible. As a result, the City will need to relax several of these policies in order realize its stated vision.

Density Transfer Policy

The City's unwritten "density transfer" policy is perhaps the best example of this problem. This custom has capped the permitted density of any development at one unit per acre where any of proposed dwelling units have not been age restricted through the use of zoning or a restrictive covenant. A would-be development can attempt to purchase "density credits" from a "density credit bank" if those credits are available. Alternatively, it requires a developer to purchase additional land within the school district and place a restrictive covenant limiting its residential density to 1 unit per gross acre.

Real-world application of the density transfer policy to the NoNA Zoning District demonstrates the problem. There are currently no density credits available for purchase in the City of New Albany. As a result, the developer of any Hamlet project would be required to assemble and purchase the requisite amount of property through an arms-length, market-rate sale, within the NAPLS district in order to offset the proposed number of residential units above the 1 unit per gross acre limit.

The NoNA Zoning District proposal includes 365 residences spread over 30.533 acres of property. In order to comply with the City's density transfer requirement, the development would be required to purchase 335 acres of property within the school district (i.e. 365 proposed residences, minus 30 permitted residences, equals 335 residences; thus requiring a 335 acre offset). This means that strict adherence to the "density transfer standard" would require the purchase of more land than is currently available within the school district. Indeed, it also means that if the required amount of property was to somehow become available for purchase and we were to assume a below market value of \$100,000 per acre, the developer would have to spend an additional \$35,000,000.

Open Space Requirements

A similarly impractical result can be seen in strict adherence to the City's current parkland and open space requirements. The City's Code mandates a dedication of parkland in the amount of 2,400 square feet per dwelling unit and the provision of an additional 20% of the total site area as open space. Alternatively, the City of New Albany provides a "fee-in-lieu" system whereby a developer can pay a fee equal to the average value per acre of the total gross site in order to offset any shortfall in a proposed project's dedicated open space.

The 365 residences being proposed would necessitate 20.11 out of a total of 30.533 acres of the NoNA Zoning District being dedicated as parkland. Because an additional 20% of the zoning district would need to be set aside as open space, as much as 86% of the site (20.11 out of 30.533 acres) would also need to remain undeveloped. Although the fee-in-lieu system is available because that fee would cover such a large percentage of the zoning district, a would-be developer would need to pay for the same property twice (for an approximate total of \$5,600,000 of additional land costs) which would completely destroy the economic viability of any Hamlet project proposed for the site.

School Impact Analysis

The City's density transfer standard and parkland dedication policies have largely been driven by the goal of protecting the finances and capacity of the New Albany Plain Local School District. However, the Hamlet concept formula and the NoNA Zoning District proposal turns these concerns on their heads.

The School Impact Analysis included in this application demonstrates that the NoNA Zoning District will yield a clear financial benefit for the schools. The development is projected to add approximately 25 new students to the NAPLSD for a total of approximately 59 students overall. These students will be spread over all 13 grades serviced by the NAPLSD. 25 additional students being spread over 13 grades will certainly consume some NAPLSD resources and capacity. However, it is very highly unlikely that any significant additional expenditures would be incurred or that new facilities, equipment, or personnel would be required and the revenue generated by the proposed project will create a windfall for the NAPLSD estimated at almost \$600,000 annually; well in excess of the cost educating these students.

If the City's hopes to remain consistent with the stated vision outlined by the Engage New Albany 2030 Strategic Plan, it will need to maintain principled flexibility in the way in which it views any proposed application. The City will need to give due consideration to the unique challenges brought by its density policy, parkland/open space requirements, and the design and planning criteria that have made it a gold-standard for community planning. The NoNA Zoning District must be reviewed on its own merits and free from policies that work well in traditional suburban communities but do not address the unique nature of this type of development. By recognizing that a Hamlet development requires the narrow application of new principles, the City and the applicant can work together to achieve the best result in accordance with the Strategic Plan.

Sincerely,

Yaromir Steiner Chief Executive Officer

Steiner + Associates



The City of New Albany Community Development Planning 99 West Main Street P.O. Box 188 New Albany, Ohio 43054

Phone: 614-939-2254

In association with the Community Development Planning Application, please find an anticipated timeline associated with the development of NoNA District located at 6945 Central College Road.

With the primary master planning element of the development being the preservation and enhancement of the Sugar Run Creek corridor, the creation of the new approximately 8.5 acre park will be the first site improvement that is undertaken. It is our intention to start site work late in Q1 of 2022. Once that public amenity has commenced construction, we will then transition to site grading, utility construction and the site work associated with the construction of the internal road network. It is anticipated that those site improvements could take up to 10 months to complete. Based on market conditions, construction of the vertical development within each of the sub areas will commence no sooner than the later of the approval an FDP for each subarea or four months after the start of underground utility construction.

Thanks.

Justin Leyda

Chief Development Strategist



April 19, 2021

Mr. Steve Mayer City of New Albany Development Department 99 West Main Street New Albany, OH 43054

Subject: NoNA District - Environmental Compliance

Dear Mr. Mayer,

This letter serves to inform the City of New Albany of environmental conditions associated with the NoNA District project, located south of Central College Road, east and west of New Albany-Condit Road, and north of Walton Parkway, in the City of New Albany, Franklin County, Ohio. The property is approximately 30 acres in size and consists of a number of existing residential estate lots.

The property was recently delineated for Waters of the U.S. by the Environmental Department of EMH&T. The delineation report is currently under review at the U.S. Army Corps of Engineers (USACE). Assuming the USACE agrees with the delineation and issues an Approved Jurisdictional Determination (AJD), the property will contain perennial Sugar Run, a small wetland on the south side of Sugar Run on the parcel east of New Albany-Condit Road, and a nonjurisdictional pond.

The development concept does not appear to encroach upon any of the jurisdictional features. As a result, environmental permits will not be required from the USACE or Ohio EPA.

If you have any questions regarding this information or require additional documentation, please do not hesitate to contact me at (614) 775-4515.

Sincerely,

EVANS, MECHWART, HAMBLETON & TILTON, INC.

Robert F. Milligan

Director of Environmental Services

What. milligen

Principal

Cc: Brian Quackenbush, EMH&T



April 19, 2021

Mr. Justin Leyda SNAI, LLC 4016 Townsfair Way Suite 201 Columbus, Ohio 43219

Subject: NoNA District

Utility and Stormwater Feasibility

Dear Justin,

As requested, I have prepared this letter to summarize utility availability and feasibility for the NoNA District development that is being proposed on a 30.6 acre site located at the intersection of Central College Road and New Albany-Condit Road in New Albany, Ohio. A 5.4 acre portion of the site is located at the southeast corner and the remaining 25.2 acres is located at the southwest corner of this intersection. The development will include commercial space, single-family and multifamily residential, and senior housing. The existing utilities are more than adequate to service the development, and a detailed summary of connection points and requirements are as follows:

Sanitary Sewer

There is an existing public 24-inch sanitary sewer constructed with RP-10226 that runs from West to East through the site and generally parallels Sugar Run. The sewer has a depth of approximately 20-25 feet and lies within a twenty foot (20') easement. The sewer is located north of Sugar Run west of New Albany-Condit-Road and south of Sugar Run east of New Albany-Condit Road. A 12-inch sewer constructed with CC-11734 is also located along the west property line that will service the area south of Sugar, and an 8-inch sewer constructed with CC-14436 is stubbed to the area north of Sugar Run on the east side of New Albany-Condit Road. In order to service the site, a new public main will be extended and a CC-Sanitary Sewer plan will be submitted to the City of New Albany and the City of Columbus for review and approval. The plan will also require approval by the Ohio EPA for a Permit to Install (PTI) prior to construction. Services will be extended from the main to service the various buildings and residential units.

Water Service

An existing 16-inch public water main running along the south side of Central College Road, and an existing 12-inch public water main running under the east side of New Albany-Condit Road will provide domestic water service to the site. There are fire hydrants on these lines that will provide some fire protection for the proposed buildings, but private fire hydrants will likely be required to provide coverage necessary to meet Plain Township Fire Department regulations. If public streets are proposed with this project, a new 8-inch public main will be extended within the right-of-way to service the site and connect to Central College and New Albany-Condit Road. A new pressure test will be performed in the area to confirm the pressure and flow as needed to determine design

constraints for the proposed services. A separate water meter and corresponding water service plan will be required for each individual tax parcel to be served. The water service plans will be reviewed and approved by the City of New Albany and the City of Columbus Division of Water, who will also approve any new public mains along with the Ohio EPA. In order to tap into the public mains, the owner will pay water and sanitary capacity fees to both New Albany and Columbus. Credits towards the capacity fees will be provided for any previously paid capacity fees for water services to the existing houses.

Stormwater

The highest points of the site vary from 1020 at the west property line to 1028 at the east property line, and the entire site drains to Sugar Run, which has a normal water elevation flow line that varies from 1008 at the west property line to 1020 at the bridge under New Albany-Condit Road. A stormwater management system will be required that provides an adequate storage volume necessary to meet peak flow limitations set forth by the City of New Albany, and post construction water quality requirements within the Ohio EPA General Construction Permit. The volume will be provided by a variety of Best Management Practices such as a wet basin, permeable pavement, bio-retention or underground detention. All above grade storage basins will be required to meet City of New Albany requirements for aesthetics for items such as landscaping and a maximum 6:1 side slope.

Stream Corridor Protection Zone and Floodplain

Sugar Run runs through from west to east through the property and is located with a FEMA Zone AE Floodplain and Floodway. The floodplain elevation varies from 1010 at the west property line to 1025 just east of New Albany Condit Road. Any development within the floodplain will require compliance with City of New Albany Chapter 1155 for Flood Damage Reduction and a Floodplain Development permit will be required. Site planning will also need to accommodate a Stream Corridor Protection Zone (SCPZ). The width of the SCPZ is based on the drainage area, and a formula provided by the City of Columbus Stormwater Drainage Manual, and was determined to be 190 feet in total width.

Electric and Telecommunications

All new electric and telecommunications utilities will be fed underground from existing overhead lines on either Central College Road or New Albany-Condit Road. Any existing overhead lines within the site will be removed, but the overhead lines along the existing public roads will remain.

If you need any additional information, please contact me at 614-775-4390.

Sincerely,

EVANS, MECHWART, HAMBLETON & TILTON, INC.

Brian Quackenbush, PE

Principal | Senior Project Manager

NoNA ZONING DISTRICT

INFILL PLANNED UNIT DEVELOPMENT (I-PUD) TEXT

May 13, 2021

I. <u>GENERAL PURPOSE:</u>

- A. The primary purpose of the North New Albany (NoNA) Zoning District (the "Zoning District") is to implement the general principles and stated objectives of the Engage New Albany 2021 Strategic Plan (the "Strategic Plan") specifically relating to the creation of a select number of focused pockets of mixed-use development in strategic locations throughout the City that emphasize the preservation and creation of outstanding open spaces, the provision of a wide range of choices for housing, dining and entertainment, and a commitment to high-quality planning and design (a "Hamlet Zoning District"). The Strategic Plan specifically identifies the Zoning District as the location of a Hamlet to be developed according to the Strategic Plan's vision and to anchor the neighborhoods and business that make up the Strategic Plan's "Northwest Focus Area".
- B. The Zoning District is intended to energize and foster a highly-amenitized center of gravity for the North New Albany area, create a gateway to the City's Village Center and International Business Districts, and serve as a model of best-practices of environmentally responsible design and placemaking. The Zoning District will focus on embracing the area's natural settings, expanding the range of choices available to the City's residents; and creating places that embody the City's commitment to community.

C. Specific Purposes:

- 1. More specifically, the purpose of the Zoning District is to promote development that creates an energized neighborhood center within a walkable, mixed-use environment that will enhance the Northwest Focus Area and promote the City's image as an exceptional location for high-quality business investment.
- 2. The Zoning District is further intended to create places that embody the City's commitment to community through the encouragement of communal interaction, creation of "complete neighborhoods", and fostering design that embraces placemaking and honors human-scale experience in its format and detailing. In addition, the Zoning District will be designed and maintained to serve as a center of community for current and future City residents.
- D. <u>Principles of Walkable Urbanism:</u> To advance the purposes of the Zoning District as described in divisions (A) through (C) of this section, the following principles of "walkable urbanism" will serve as a guiding framework for the design and development of the Zoning District. Individual principles may not apply in all circumstances but should be used where

appropriate to ensure the requirements and standards of the Zoning District are applied in a manner that contributes to the creation of walkable, mixed use environments as envisioned by the Strategic Plan while providing for the creation of a safe and comfortable pedestrian-oriented development desired by the City and consistent with the principles of walkable urbanism.

- 1. <u>General Principles</u>. The designs of buildings, streets, and open spaces within the Zoning District should contribute to the creation of vibrant streetscapes, community gathering places, and a neighborhood pattern of development, characterized by:
 - a. Quality architecture, master planning, and design emphasizing beauty, human comfort, and creating a "sense of place";
 - b. Pedestrian-friendly design that places a high priority on walking and bicycling;
 - c. Creation of interesting and convenient destinations within walking distance for visitors as well as ordinary activities of daily living; and
 - d. Respect for the natural environment.
- 2. Streets, Parking and Transit. Streets should be capable of accommodating multiple modes of transportation and should facilitate the creation of a public realm designed primarily for people, characterized by:
 - a. Streets and blocks arranged to allow for comfortable walking distances, to disperse traffic and to reduce the length of automobile trips;
 - b. A connection to and enhancement of the existing street network;
 - c. A recognition of the role of buildings and landscaping that contributes to the physical definition of streets as civic places;
 - d. On-street public parking where appropriate; and
 - e. Shared parking and other strategies to reduce the size of surface parking lots and enable efficient and creative site design.
- 3. <u>Commitment to Principles of Master Planning and Holistic Design</u>. The physical form of development in the City affects the quality of the lives of its current and future residents. The principles of master planning and holistic design help to improve and protect this quality, whereas dogmatic application and strict adherence to traditional land use restrictions in a Hamlet development will lead to a less desirable outcome. While

traditional zoning ordinances typically emphasize land use regulation that separates uses, it is the intent in this Zoning District to instead stress high-quality physical form and design through the use of a "master planning" process. This approach recognizes the intrinsic relationship between public areas such as streets and sidewalks with the private realm of homes and buildings and is founded upon collaboration between the developer and the community. Use of a "master planning" review process for the following specific portions of a proposed development as part of an application for Final Development Plan Approval will include:

- a. Overall site planning and associated proposed uses;
- b. Cohesive streetscapes and perimeter landscaping;
- c. Vehicular access and shared parking solution;
- d. Bicycle access and shared parking solution;
- e. Lighting; and
- f. Signage (as needed).

II. <u>ORGANIZATION OF ZONING DISTRICT; GENERALLY APPLICABLE</u> STANDARDS:

- A. <u>Location and Subareas</u>: This Zoning District consists of 30.33+/- acres located to the southwest and southeast of the intersection of Central College Road and New Albany-Condit Road (a.k.a. State Route 605). It includes an assemblage of various township-era single family parcels that historically have been under fractured ownership and have been used as owner-occupied/renter-occupied residences but are now owned or controlled by a single business entity, namely the applicant. The development proposal includes 6 subareas:
 - 1. <u>Subarea 1</u>: Subarea 1 consists of 1.8 +/- acres located in the northwestern corner of the Zoning District. It is found to the south of and adjacent to Central College Road. Its western boundary is the corporation line separating New Albany and the City of Columbus. This subarea will accommodate restaurant, retail, service-oriented, office, and similar development.
 - 2. <u>Subarea 2</u>: Subarea 2 consists of 5.4 +/- acres located to the southwest of, and adjacent, to the intersection of Central College Road and New Albany-Condit Road. This subarea will contain multi-family residential uses and related amenities.
 - 3. <u>Subarea 3</u>: Subarea 3 contains 9.1 +/- acres. It is irregularly shaped to include the west-central portion of the Zoning District with an extension eastward to New

Albany-Condit Road to encompass Sugar Run Creek. This subarea is intended to be the epicenter of recreational and social activities to serve not only this Zoning District but also residents and visitors from throughout the City. It will contain a mix of unique uses, many of which are not currently found anywhere else in New Albany.

- 4. <u>Subarea 4</u>: Subarea 4 is found in the east-central portion of the site. Containing 2.8 +/- acres, it will provide for residential uses.
- 5. <u>Subarea 5</u>: Subarea 5 consists of 6.5 +/- acres and is the southern portion of the Zoning District. This subarea is intended to provide senior living opportunities with a limited mix of supporting uses.
- 6. Subarea 6: Subarea 6 consists of 5.4 +/- acres and is located to the southeast of and adjacent to the intersection of Central College Road and New Albany-Condit Road. This subarea is to be developed with single family residential and townhomes.
- B. <u>Development Standards General Application</u>: This text is intended to apply development standards and requirements that are particular to this Zoning District. Where it provides standards and/or requirements that conflict with those which are set forth in the Codified Ordinances, the provisions of this text shall govern. Where this text is silent on a particular standard or requirement and the Codified Ordinances address that item or standard, then development and operation of uses in this Zoning District shall comply with the relevant provisions of the Codified Ordinances. Development standards which are particular to each subarea are provided below. In addition, each subarea shall be subject to the generally applicable requirements of Section VIII.
- C. <u>Architectural Standards:</u> Buildings that are constructed to accommodate certain uses are not contemplated by the City's Design Guidelines and Requirements (DGRs). In fact, the concept of Hamlets being developed in the City was introduced for the first time in the 2021 update to the Strategic Plan and therefore buildings associated with this development type are not addressed therein. Therefore, this Zoning District is not governed by the DRGs, as the document is silent on the type of development being proposed.

The goal for architectural design of the buildings and structures in this Zoning District is to meet or exceed the community standard while enabling creativity in defined locations to providing distinguishing features for this development. Architecture by its nature is a subjective medium, meaning that the adoption of strict objective standards in all instances may not provide the best means for achieving appropriate design. In recognition of this fact, the standards set forth herein provide guidelines and suggestions for designing buildings in an effort to set expectations for the quality of architecture that will be expected for these structures. On the other hand, these standards are meant to allow for flexibility to encourage innovative design provided that the spirit and intent of a "Hamlet" as contemplated in the Strategic Plan are met. The following requirements shall apply to architecture within this Zoning District:

1. <u>Design Intent:</u> Buildings and structures within Subareas 1, 2, 4, 5, and 6 shall be designed in a manner that substantially complies with relevant provisions of the DGRs as if they are being applied to the building or structure as a stand-alone project that is not part of a Hamlet. For example, the buildings in Subarea 1 shall apply the standards of Section 6 of the DGRs (Commercial Outside Village Center). Notwithstanding the foregoing, deviations from relevant provisions shall be permitted if (i) they enhance the compatibility or cohesiveness of a particular building or structure with other proposed or existing buildings in the Zoning District, or (ii) they improve the environmental sustainability and reduce the environmental impact of the building or structure while not materially and negatively impacting its aesthetics. Review of architecture shall be required for approval as part of a final development plan.

The City's Design Guidelines and Requirements (DGRs) shall not apply to Subarea 3. Architectural designs and requirements shall be reviewed as part of one or more final development plans for this subarea, and building shall be constructed in accordance with such approved plans. Given the isolated nature of Subarea 3, the intent is to allow for creative designs for buildings and structure to create a unique sense of place. Thematic, "folly", and eclectic architectural designs shall be encouraged in Subarea 3 in order to create vibrancy and a sense of a unique place. Proposed architecture for buildings in this subarea will take this into account while not diminishing the quality of architecture as a result. For "Cottages" within this subarea, an applicant need not have the design of each individual unit approved as part of a final development plan, but may present designs for several of them along with written architectural design standards to be applied to other Cottages which may be administratively applied by City staff.

Character images for the architecture that is anticipated for this Zoning District have been provided as part of the preliminary development plan application. Architecture is intended to further the design ideas that are provided in these images.

- 2. <u>Four-Sided Design:</u> Buildings shall be designed to be seen from 360 degrees, meaning that they shall be four-sided with a consistent level of design on all sides. The palette of exterior finishes and color shall be cohesive and harmonious with the materials on and character on all sides of a building. Building facades which face interior courtyards and are not visible from outside of these courtyards shall not be subject to this requirement. Unfinished rear facades of buildings shall be prohibited.
- 3. Height: Maximum building heights shall not exceed:
 - a. 35 feet in Subareas 1 and 4.
 - b. Four stories and 53 feet in Subarea 2;
- c. 42 feet in Subarea 3, with buildings permitted to be one, one and one-half, two, or two and one-half stories;
 - d. 55 feet in Subarea 5; and
- e. 45 feet in Subarea 6, with homes required to be a minimum of 1.5 stories or 1.5 stories in appearance from the front elevation and a maximum of 3.0 stories or 3.0 stories in appearance from the front elevation.

Architectural elements such as monitors, chimneys, and cupolas may exceed the height limitations of this text as permitted by the Codified Ordinances.

- 4. <u>Roofs:</u> Roofs may be sloped or flat. Flat roofs shall incorporate detailed and decorated cornices in a manner that is consistent with existing examples of details on similar buildings in other areas of the City. Acceptable materials for sloped roofs include dimensional asphalt shingles, natural and synthetic slate, cedar shake, and standing seam metal and may incorporate "green" features (such as but not limited to vegetation).
- 5. <u>Screening:</u> Complete screening of all roof-mounted equipment shall be required on all four sides of buildings with materials that are consistent and harmonious with the building's façade and character. Such screening shall be provided in order to screen the equipment from off-site view and to buffer sound generated by such equipment. Complete screening of all ground-mounted mechanical and other equipment at ground level by walls, fencing, or landscaping that is consistent and harmonious with the materials on and character of the nearest primary building shall be required to an achieve a minimum 75% opacity screening year round.
- 6. Wall Finish Materials: Brick, brick veneer, and cementitious/composite siding or equivalent, shall be permitted as primary and secondary exterior façade materials as well as for trim and accent elements. Vinyl shall be prohibited, except (a) on building facades interior to a courtyard that is surrounded by building facades on all sides and (b) within Subarea 5, where it shall be permitted only if the Planning Commission determines, as part of a final development plan, that the aesthetics, quality, durability, and ability to maintain a proposed vinyl product will meet or exceed the same characteristics as they are found in cementitious/composite siding. Metal panels, EIFS, wood, and aluminum also shall be permitted as trim or accent elements. Exterior wall finish materials must be used to complete massing elements. The application of brick or brick veneer to a single building façade is prohibited. Tinted glass shall be permitted, while reflective or mirrored glass shall be prohibited. Exposed concrete foundation walls are prohibited.
- 7. <u>Fascias</u>: When applicable, roof fascias shall be proportioned to the scale of the roof element.
- 8. <u>Gutters and Downspouts</u>: Sloped roofs shall be required to employ gutters and downspouts for drainage. All gutters shall be of a metal type and shall be painted to match fascias.
- 9. <u>Exterior Doors</u>: All exterior doors other than doors whose primary purpose is for the entry or exit of customers shall be made of a heavy gauge metal.

- 10. <u>Prefabricated Buildings:</u> Prefabricated metal buildings, untreated masonry block structures, and buildings featuring an exterior finish entirely of glass are prohibited.
- 11. Operable Doors: The requirement in the DGRs that an operable and active front door is to be provided along a public street shall apply in Subarea 1 along Central College Road only for multi-tenant buildings. Single-tenant buildings in Subarea 1 along Central College Road shall be exempt from this requirement, provided that such buildings have a pedestrian entrance on one or both sides and further provided that the façade of a building facing Central College Road instead shall include an architectural feature or other design element that encourages pedestrian activity. Where buildings in other subareas have frontages on two or more public streets, a primary pedestrian entrance shall be designated. Secondary pedestrian entrances shall appear to be operable but may have their access limited by key card, key pad, or similar means.
- 12. <u>Architectural Details</u>: Additional architectural details including roof plans; garage door design/colors; dormer details; entablature; and shutter specifications; columns, cornice and pediment details; window specifications; louver details, brick mould profile shall be provided at each final development plan for review by the Planning Commission as applicable. The extensive use of glass shall be encouraged on storefronts.
- 13. <u>Provisions Specific to Subarea 2</u>: There shall be no maximum building length in Subarea 2. Stairways (other than stoops) within Subarea 2 must be enclosed and shall not be visible from the exterior of a building.
- 14. <u>Solar Panels:</u> When used, solar panels shall be located where not visible to public streets whenever possible; however, if they need to be located such that they are visible in order to function (i.e., facing south), the panel array shall be arranged in an orderly, designed layout, incorporating required walkways if on the ground, and evenly distributed if on a roof, for a neat appearance. Wiring and components other than the panels shall not be visible.
- D. <u>Vehicular and Bicycle Parking</u>. Given the integrated development program for this Zoning District, as part of the review and approval of the first final development plan in the Zoning District the applicant will complete and submit (a) a comprehensive shared vehicular parking master plan for the entire Zoning District (a "<u>Vehicle Parking Plan</u>") and (b) a comprehensive bicycle parking plan (a "<u>Bicycle Parking Plan</u>"). The Vehicle Parking Plan shall analyze peak commercial, office, and residential uses and recommend the total number of vehicular parking spaces and their locations based on shared parking principles and ratios to provide adequate parking for the Zoning District without "overparking" that would detract from the built environment and provide for unnecessary excess pavement. The Bicycle Parking Plan shall provide for a number of bicycle parking places that is adequate to serve the needs of the Zoning District while being located for their efficient usage, but shall not require bicycle parking on each individual parcel. The Vehicle Parking Plan and the Bicycle Parking Plan that is approved as part

of a final development plan shall govern the provision of parking for vehicles and bicycles in this Zoning District unless otherwise approved as part of one or more additional or amended final development plans that are later filed for development within the Zoning District, and in Subarea 2 shall provide the required number of parking spaces as provided later in this text. Notwithstanding the foregoing, specific vehicular parking ratios and requirements for Subarea 2 and Subarea 5 are detailed later in this text and shall be applied to those subareas when preparing and reviewing the Vehicle Parking Plan.

III. SUBAREA 1: The provisions of this Section III shall apply to Subarea 1.

- A. <u>Permitted Uses</u>: The permitted uses contained in the Codified Ordinances of the City of New Albany, C-2 General Business (Commercial) District, Section 1147.02, shall be permitted in Subarea 1. Conditional uses contained in Section 1147.03 of the Codified Ordinances shall be allowed in this subarea. Conditional uses shall comply and shall be reviewed in accordance with Chapter 1115 of the Codified Ordinances. Notwithstanding any of the foregoing, the following uses shall be prohibited in Subarea 1:
 - 1. Funeral services.
 - 2. Self-service laundries.
 - 3. Gasoline service stations or retail convenience stores selling gasoline as an ancillary activity.

B. Lot and Setback Commitments:

- 1. <u>Application of C-2 Development Standards</u>: Except as otherwise expressly set forth in this subsection II.B, the development standards contained in Codified Ordinances Section 1147.04 shall apply to this subarea.
- 2. <u>Central College Road</u>: There shall be a minimum pavement setback and a minimum building setback of 70 feet as measured from the centerline of Central College Road. The setback from Central College Road shall be deemed to be the front yard setback in this subarea.
- 3. <u>Perimeters</u>: The following setbacks shall apply to perimeter boundaries of Subarea 1 which are not contiguous with the public street right-of-way of Central College Road:
 - a. A minimum pavement setback of 5 feet and a minimum building setback of 10 feet from the western perimeter boundary line.
 - b. There shall be a zero minimum pavement and building setback from the southern and eastern perimeter boundary lines.

- 5. <u>Interior Boundaries</u>: Setbacks along all internal property boundaries between adjoining parcels within this subarea shall be zero feet for pavement and for buildings.
- 6. Lot Coverage: The maximum lot coverage shall be 80%. Lot coverage shall be defined as the area covered by buildings and impervious surfaces. Lot coverage shall be measured across the entire subarea, meaning that individual parcels within this subarea may exceed the maximum lot coverage percentage as long as the entire subarea does not exceed the maximum and shall be documented by the developer. This documentation shall consist of a calculation being provided along with each final development plan in this subarea detailing the lot coverage within the proposed development that is the subject of the application and the total lot coverage that will exist in the subarea following the approval of the application by taking into account other improved portions of the subarea and other final development plans for the subarea which has been approved but pursuant to which development has not yet occurred.
- C. <u>Access:</u> Vehicular access to and from Subarea 1 shall be provided from (a) one full movement access point on Central College Road that is located along or near the shared perimeter boundary line between Subarea 1 and Subarea 2, and (b) from a public street and public alley network that is generally consistent with that which is illustrated in the accompanying preliminary development plan and as approved in one or more final development plans for the Zoning District.

IV. <u>SUBAREA 2</u>: The provisions of this Section IV shall apply to Subarea 2.

- A. Permitted Uses: Permitted uses in this subarea shall include:
 - 1. Multi-family dwelling units.
- 2. Private community center/clubhouse facilities (with or without an outdoor pool) and other amenities that are customary when serving a multi-family residential development. Marketing and leasing offices for the multi-family within this subarea shall be permitted to be operated from this structure, as will coffee shops, cafes, fitness centers, community gathering spaces, co-working spaces for offices, and other similar uses in accordance with Section 1127.02(e) (Similar Uses) of the Codified Ordinances.
- 3. Home occupations, subject to the regulations of Codified Ordinances Section 1165.07.

B. Density, Unit, and Setback Requirements:

- 1. <u>Number of Units</u>: There shall be a maximum of 280 dwelling units in this subarea.
- 2. <u>Types of Units</u>: Dwellings shall consist of individual "flat" or "garden" units, meaning that each dwelling unit will be located on a single floor of the building in which it is located, and/or two story units with flats or gardens above or below them. Units

shall be located above a so-called "podium" parking area within the building and/or shall be wrapped around an interior parking area within the building. If parking underneath or within a building is visible from the exterior, then opaque screening shall be required using materials that are consistent with or complimentary to the exterior facades of the building.

- 3. <u>Size and Configuration</u>: The minimum gross floor area for each dwelling unit shall be 500 square feet. One, two, and three bedroom units will be permitted, provided that no more than 40% of the units will have two bedrooms and no more than 8 units shall three bedrooms.
- 4. <u>Lot Size</u>: There shall be a minimum lot width of 100 feet and minimum lot area of 10,000 square feet in this subarea.
- 5. Lot Coverage. The maximum lot coverage shall be 90%. Lot coverage shall be defined as the area covered by buildings and impervious surfaces. Lot coverage shall be measured across the entire subarea, meaning that individual parcels within this subarea may exceed the maximum lot coverage percentage as long as the entire subarea does not exceed the maximum and shall be documented by the developer. This documentation shall consist of a calculation being provided along with each final development plan in this subarea detailing the lot coverage within the proposed development that is the subject of the application and the total lot coverage that will exist in the subarea following the approval of the application by taking into account other improved portions of the subarea and other final development plans for the subarea which has been approved but pursuant to which development has not yet occurred.
 - 6. Setbacks. The following setback requirements shall apply to this subarea:
 - a. <u>Central College Road</u>. There shall be a minimum pavement setback and a minimum building setback of 70 feet from the centerline of Central College Road.
 - b. <u>New Albany-Condit Road</u>. There shall be a minimum pavement setback and a minimum building setback of 70 feet from the centerline of New Albany-Condit Road as it exists on the date that this text becomes legally effective.
 - c. <u>Southern Perimeter Boundary</u>. There shall be a zero minimum pavement and building setback from the right-of-way of the new public street that is to be constructed along or near the southern perimeter boundary line of this subarea
 - d. <u>Western Perimeter Boundary</u>. There shall be a zero minimum pavement and building setback from the western boundary line of this subarea.
 - e. <u>Minimum Separation</u>. The minimum separation between buildings shall be 10 feet

C. Access and Parking:

- 1. <u>Vehicular Access</u>: Vehicular access to and from Subarea 2 shall be provided using a combination of a public street and a public alley system within the subarea and the Zoning District. Vehicular access shall be provided from a full service access point on Central College Road along or near the shared boundary line of this subarea with Central College Road. An east-west public street will be provided within or along the southern boundary of Subarea 2. This street shall have a minimum right-of-way width of 60 feet and a pavement width of 24 feet, measured from face-of-curb to face-of-curb and shall have full movement access at New Albany-Condit Road.
- 2. Off-Street Parking: Parking shall be provided within the interior of multifamily buildings at the minimum rate of 1.05 spaces per studio dwelling unit, 1.16 spaces per one bedroom unit, and 1.64 spaces per two bedroom unit. An exterior parking area shall be located near the permitted private community center/clubhouse with spaces to be provided at the minimum rate of 1 space per 1,000 square feet contained within the community center/clubhouse. This exterior parking area may be used for overflow parking from other uses or from events in this Zoning District, and visitor parking, drop-offs, deliveries, potential lessees, ride sharing, and food pickups. Direct vehicular access to and from interior and exterior parking areas shall be prohibited from Central College Road and New Albany-Condit Road.
- 3. <u>On-Street Parking:</u> On-street parking shall be permitted on at least one side of the public street that is near or along the southern boundary of this subarea.
- 4. <u>Public Sidewalks:</u> A public sidewalk shall be located within the right-of-way on both sides of the public street that is near or along the southern boundary of this subarea. Sidewalks shall be a minimum of 5 feet in width and shall be constructed of concrete.

D. Landscaping:

- 1. <u>Street Trees:</u> Street trees shall be required on both sides of public streets and public alleys. Trees shall be a minimum of 3 inches in caliper at installation and shall be spaced as required by applicable provisions of the Codified Ordinances. This requirement may be waived in areas where existing vegetation occurs, subject to the approval of the city landscape architect. Notwithstanding the foregoing, tree spacing may deviate from this requirement if necessary or appropriate to provide a desirable streetscape, as approved as part of a final development plan. Trees shall not obstruct sight distance or signage. Street tree and signage locations shall be shown on the final development plan for review and approval.
- 2. <u>Landscaping Plan</u>: A landscaping plan shall be provided with a final development plan application for this subarea for review and approval by the Planning

Commission. The landscaping plan shall provide specifications for required plantings on individual parcels and reserve areas and shall provide detailed requirements for landscaping along Central College Road and New Albany-Condit Road. It also shall include locations for public and private sidewalks. Public street and alley landscaping shall be coordinated and consistent throughout the Zoning District.

V. <u>SUBAREA 3:</u> The provisions of this Section V shall apply to Subarea 3.

A. <u>Intent</u>: Subarea 3 is intended to be the core of this Zoning District which is an amenity for the Hamlet and an attraction for the larger New Albany community. Using the Sugar Run Creek as the Zoning District's backbone, the goal will be to capitalize on its prominence by creating associated green space, leisure trails, and recreational, entertainment, and social opportunities. It will accommodate a variety of unique and inventive uses.

B. Permitted Uses: Permitted uses in this subarea shall include:

- 1. <u>Parks/Open Space</u>: Parks, open space, dog parks, public restrooms, and customary amenities and activities related thereto.
 - 2. <u>Recreation</u>: Athletic fields, athletic courts, playgrounds, and similar uses.
- 3. <u>Parking</u>: Parking for uses within this subarea and for overflow from other subareas.
- 4. "<u>Food Trucks</u>", defined to mean "licensed and operable motor vehicles or trailers with a kitchen where food is prepared for purchase by walk-up customers."
- 5. "<u>Food Huts</u>", defined to mean "a restaurant with limited seating capacity located in a small space relative to traditional restaurants and which derives most of its sales from carryout orders".
- 6. "<u>Seasonal Dining Spaces</u>", defined to mean "dining and/or beverage consumption spaces located outside of a permanent structure which provide for outdoor seating opportunities during times of cold or otherwise inclement weather using inflatable bubbles or other means of shelter or separation and which utilize portable heating devices, as necessary."
- 7. "Office/Co-Working spaces", defined to mean "shared workspaces providing an office-like environment for multiple businesses and/or individuals to operate and work, for rent on a short-term but renewable basis."

- 8. "Cottages", meaning "homes that are 850 square feet or less in size, detached from other structures. Cottages may be rented as VRBO, Airbnb, or in similar manners."
- 9. "<u>Outdoor entertainment stages</u>" shall mean stages that are covered or uncovered but not completely enclosed and from which concerts, theatre productions, and other artistic performances are given.
- 10. Restaurants, with or without outdoor dining spaces. Drive-thrus are prohibited. For purposes of this subsection, a "drive-thru" shall be defined to mean one or more dedicated lanes from which food orders are placed and picked up. Temporary outdoor food concessions or providers shall be included within this definition.
- 11. "Ghost Kitchens", defined to mean "professional food preparation and cooking facilities set up for the preparation of delivery-only meals. Delivery may be made to visitors of uses, places, or events within Subarea 3 or to locations elsewhere within and/or outside of the Zoning District." A Ghost Kitchen need not be for a single restaurant and may contain kitchen space and facilities for more than one restaurant brand. It also may be permitted to be operated as part of or in conjunction with other permitted restaurants or permitted food concepts.
- 12. Special event venues such as, but not limited to, wedding venues, banquet facilities, and gathering venues for special occasions.
- 13. "<u>Markets</u>", defined to mean "farmers markets, artisan and artist markets, craft markets, flea markets, antique markets, and similar markets. These permitted uses may be located indoors or outdoors. Markets may include Food Trucks and other temporary outdoor food preparation concessions or providers."
 - 14. Artisan and artist creative spaces and galleries.
 - 15. Nano-breweries/pubs and beer gardens.
- 16. Multi-family dwelling units located within a building and above a first floor which contains one or more other permitted uses.
 - 17. Retail sales, no greater than 2,500 square feet per tenant space.
- C. <u>Density</u>: The following maximum densities shall apply to this subarea:
- 1. <u>Residential</u>. There shall be a maximum of 25 total residential units in this subarea.

- 2. <u>Outdoor Entertainment Stages</u>. A maximum of two permanent Outdoor Entertainment Stages shall be permitted.
- D. <u>Operational Requirements and Limitations</u>: Given the unique nature of certain permitted uses in this subarea, certain operational requirements and limitations are being provided in order to ensure their appropriate operations:
 - 1. <u>Recreational Uses</u>: Athletic fields, athletic courts, playgrounds, and similar uses may be lighted, provided that such lighting is turned off by 10:00 P.M.
 - 2. <u>Outdoor Entertainment Stages</u>: Performances from Outdoor Entertainment Stages shall not begin before 9:00 A.M. and shall be completed by no later than 10:00 P.M., except that on Memorial Day, Independence Day, and Labor Day (and their associated weekends) performances shall be completed by 11:00 P.M.
 - 3. <u>Outdoor Markets</u>: Outdoor Markets shall be permitted to be operated for no more than 96 hours in a row and shall be permitted to be operational only between 9:00 A.M. and 10:00 P.M. Permanently located restaurants and other food service providers shall be exempt from this provision.

4. <u>Food Trucks</u>:

- a. <u>Power Source</u>: Food Trucks shall be powered using a permanent electric source provided within the Zoning District. Outdoor generators shall not be permitted to be used to power Food Trucks.
- b. <u>Signs</u>: Signage shall be permitted on the exteriors of Food Trucks without a permit being necessary if (a) it is painted on or permanently affixed to the Food Truck, (b) it consists of a menu or advertisement meant to provide information to on-site customers, or (c) is of a an "A frame" or sandwich board type. In addition, other signage parameters and requirements for Food Trucks may be approved as part of a master sign plan.
- c. <u>Trash Receptacles</u>: At least one trash can/receptacle shall be provided near each food truck in a location that is not visible from adjacent public streets. No liquid waste or grease shall be disposed into sanitary sewers or storm drains.

E. <u>Lot Requirements</u>:

1. <u>Lots/Parcels</u>: Multiple buildings and structures containing any mixture of permitted uses in this subarea may be located on a single lot or parcel, provided that the buildings and structures are under common ownership.

- 2. <u>Dimensions</u>: There shall be a minimum parcel width or depth requirements in this subarea. of 15 feet.
- 3. Street Frontage: At least one parcel in this subarea shall be required to have frontage on the east-west public street that is planned to be constructed in Subarea 2 and/or Subarea 4 and which will connect to New Albany-Condit Road. Other parcels in this subarea which do not have frontage on that street shall be permitted only if an easement agreement is recorded which provides the parcel with perpetual rights of access to and from the public street and public alley system within this Zoning District and that allows for direct or indirect vehicular and pedestrian access to Central College Road and/or New Albany-Condit Road. Such an easement agreement shall be required to be recorded with the Office of the Recorder of Franklin County, Ohio. A parcel within this subarea that is dedicated to the City as parkland may have its street frontage on New Albany-Condit Road even if vehicular access to and from the park is not provided from that street.
- 4. <u>Lot Coverage</u>. The maximum lot coverage across the subarea shall be 35% in the aggregate for this subarea. Lot coverage shall be defined as the area covered by buildings and impervious surfaces. Lot coverage shall be measured across the entire subarea, meaning that individual parcels within this subarea may exceed the maximum lot coverage percentage as long as the entire subarea does not exceed the maximum and shall be documented by the developer. This documentation shall consist of a calculation being provided along with each final development plan in this subarea detailing the lot coverage within the proposed development that is the subject of the application and the total lot coverage that will exist in the subarea following the approval of the application by taking into account other improved portions of the subarea and other final development plans for the subarea which has been approved but pursuant to which development has not yet occurred.

F. Minimum Setbacks:

- 1. <u>New Albany-Condit Road:</u> There shall be a minimum pavement and building setback of 70 feet from the centerline of New Albany-Condit Road.
- 2. <u>Stream Corridor Protection Zone</u>: A "<u>Stream Corridor Protection Zone</u>" shall be provided along Sugar Run Creek for a minimum width of 100 feet, provided that a minimum of 25 feet shall be provided to each side of the centerline of the creek. The amount of the Stream Corridor Protection Zone that is located on either side of the creek may vary, provided that the foregoing minimums are met. Within the Stream Corridor Protection Zone, buildings and structures shall be prohibited. Pavement shall be prohibited within the Stream Corridor Protection Zone except for leisure paths. Benches, trash receptables, and pet waste stations shall be permitted within the Stream Corridor Protection Zone in locations which are approved as part of a final development plan.
- 3. <u>Perimeter Boundaries</u>: There shall be a zero minimum pavement and minimum building setback from all perimeter boundary lines of this subarea which are

located outside of the Stream Preservation Zone and which are not contiguous with a public right-of-way.

- 4. <u>Interior Parcel Lines</u>: There shall be a zero pavement and building setback from all interior parcel lines within this subarea, provided that all applicable building code requirements are met.
- G. <u>Access</u>: Vehicular access to and from Subarea 3 shall be provided from an east-west public street which will be provided along or near the shared boundary line between Subarea 2 and Subarea 4, as well as an east-west public street which will be provided along or near the shared boundary lines between Subarea 3 and Subareas 1 and 2.
- H. <u>Landscaping Plan</u>: A landscaping plan shall be provided with a final development plan application for this subarea for review and approval by the Planning Commission. The landscaping plan shall provide specifications for required plantings on individual parcels and reserve areas and shall provide detailed requirements for screening, buffering, and/or landscaping along New Albany-Condit Road. It also shall include locations for public and private sidewalks. The landscaping plan for the Trailhead Park may be submitted for review and approval separately from the landscaping plan for the balance of this subarea.

VI. <u>SUBAREA 4:</u> The provisions of this Section VI shall apply to Subarea 4.

A. Permitted Uses: Permitted uses in this subarea shall be as follows:

- 1. Single-family attached residences in buildings containing at least two and no more than five dwelling units within a building. Units may be owner-occupied or for rent.
- 2. One model home or leasing office shall be permitted in this subarea subject to the review and approval of the Planning Commission in accordance with Section 1133.04(d) of the Codified Ordinances of the City of New Albany. Notwithstanding anything to the contrary in the City's Codified Ordinances, upon approval of a final plat by the City the developer may commence construction of the building containing the model home or leasing office. Construction of the model home may occur in advance of, or in conjunction with, installation of public infrastructure for the subdivision. No occupancy or use of the model home shall be permitted until all relevant public infrastructure improvements serving the home are acted by the City.
- 3. Home occupations, subject to the regulations of Codified Ordinances Section 1165.09.
- B. <u>Number and Types of Units</u>: There shall be a maximum of 25 dwelling units in this subarea.

C. <u>Lot Requirements</u>:

- 1. <u>Individual Lots</u>: Each dwelling unit that is owner-occupied shall be located on its own parcel.
- 2. <u>Dimensions</u>: For owner-occupied units, there shall be a minimum parcel width of 25 feet at the building line and a minimum parcel depth of 45 feet. For buildings containing rental units, there shall be a minimum parcel width at the building line of 100 feet and a minimum parcel depth of 45 feet.
- 3. <u>Street Frontage</u>: All parcels shall have access to a public alley which connects to a public street.
- 4. <u>Lot Coverage</u>. The maximum lot coverage shall be 70%. Lot coverage shall be defined as the area covered by buildings and impervious surfaces. Lot coverage shall be measured across the entire subarea, meaning that individual parcels within this subarea may exceed the maximum lot coverage percentage as long as the entire subarea does not exceed the maximum and shall be documented by the developer. This documentation shall consist of a calculation being provided along with each final development plan in this subarea detailing the lot coverage within the proposed development that is the subject of the application and the total lot coverage that will exist in the subarea following the approval of the application by taking into account other improved portions of the subarea and other final development plans for the subarea which has been approved but pursuant to which development has not yet occurred.

D. <u>Minimum Setbacks:</u>

- 1. <u>New Albany-Condit Road:</u> There shall be a minimum building setback of 70 feet from the centerline of State Route 605/New Albany-Condit Road as it exists on the date that this text becomes legally effective.
- 2. <u>New Public Street:</u> There shall be a minimum building setback of 10 feet from the right-of-way of the new public street that is to be constructed along or near the northern boundary line of this subarea.
- 3. Other Perimeter Boundaries: From perimeter boundary lines of this subarea which are not adjacent to a public right-of-way, the minimum building setback shall be 10 feet.
- 4. <u>Front Yards:</u> Except as otherwise required in the preceding subsections of this text, the minimum front yard setback shall be 5 feet from the edge of public alley pavement for each dwelling unit.
- 5. <u>Side Yards:</u> There shall be a zero setback requirement between attached units and their shared lot lines, where applicable. End units on buildings shall be located no less than 5 feet from the side parcel line.

- 6. <u>Rear Yards:</u> The minimum rear yard setback for each dwelling unit shall be 5 feet.
- 7. <u>Encroachments Front and Rear Yards:</u> Stoops, steps, and covered porches shall be permitted to encroach a maximum of 4 feet within the minimum front yard setback. They shall not be permitted to encroach within easements. Decks, patios, and screened porches may encroach a maximum of 4 feet into the minimum rear yard setback.

E. <u>Access and Parking</u>:

- 1. <u>Vehicular Access</u>: A public street generally running east-west will be provided within or along the northern boundary of Subarea 4 and will have a full movement access point at New Albany-Condit Road. Vehicular access to and from Subarea 4 shall be provided using this new public street. This street shall have a minimum right-of-way width of 60 feet and a pavement width of 24 feet, measured from face-of-curb to face-of-curb. A public alley shall extend into the subarea from the east-west public street and shall have a pavement width of 24 feet, measured from face-of-curb to face-of-curb.
- 2. <u>Off-Street Parking:</u> All homes shall have a minimum one car garage and shall be required to have a minimum of one off-street parking spaces on their driveways.
- 3. <u>On-Street Parking:</u> On-street parking shall be permitted on public streets within this Zoning District in accordance with the City's Codified Ordinances.
- 4. <u>Public Sidewalks:</u> A public sidewalk shall be located within the right-of-way on both sides of public streets. Sidewalks shall be minimum 5 feet in width and shall be constructed of concrete.

F. <u>Landscaping</u>:

- 1. <u>Street Trees:</u> Street trees shall be required on both sides of public streets. Trees shall be a minimum of 3 inches in caliper at installation and shall be spaced as required by applicable provisions of the Codified Ordinances, except that along New Albany-Condit Road trees may be grouped, provided the quantity is equivalent to the Coderequired amount of trees. This requirement may be waived in areas where existing vegetation occurs, subject to approval of the city landscape architect. Notwithstanding the foregoing, tree spacing on public streets may deviate from this spacing requirement if necessary or appropriate to provide a desirable streetscape, as approved as part of a final development plan. Trees shall not obstruct sight distance or signage. Street tree and signage locations shall be shown on the final development plan for review and approval.
- 2. <u>Landscaping Plan</u>: A landscaping plan shall be provided with a final development plan application for this subarea for review and approval by the Planning Commission. The landscaping plan shall provide specifications for required plantings on individual parcels and reserve areas and shall provide detailed requirements for screening, buffering, and/or landscaping along New Albany-Condit Road.

G. <u>Porches:</u> Front porches are encouraged on all homes. Screened porches are permitted on the rears of homes but shall not be permitted on the front or side. Detailing shall be traditional wood in appearance with a break in screening at rail height. All screened porch trim shall be painted or stained. Roof lines of screened porches shall conform to the architectural style of the home and blend into the massing of the home.

H. Garages:

- 1. Garages shall be attached and may front on a public alley. Each home shall provide a 1-car garage.
- 2. Individual bay doors or double wide garage doors that have the appearance of individual bay doors when closed shall be required. Notwithstanding the foregoing, individual bay doors shall be required on all garages which face the public street along the northern boundary of this subarea or New Albany-Condit Road. All garage doors shall contain decorative features and shall be of a color and style that is consistent with architecture of the home. The exterior color palates for each home shall be selected and designed in a manner which de-emphasizes the location and placement of the garage door. Garage doors that are white in color shall only be used in the circumstance when white is the primary exterior color of the individual home. All garage doors shall be solid paneled but may have windows provided that the interior of the garage cannot be viewed at a height of 6 feet when standing in the middle of the public street found in front of the garage. No glazing shall be permitted on garage doors unless they are consistent with the architectural theme.
- 3. <u>Garage doors (Pedestrian)</u>: All pedestrian garage doors shall be solid paneled.

I. Miscellaneous Standards:

- 1. <u>Graphics and Signage Commitments</u>: This subarea shall utilize standard City of New Albany street regulatory signage. Entry feature signage at the public street entry into Subarea 4 shall be permitted with a design that is approved by the Planning Commission as part of a final development plan for this subarea. Other signage may be used subject to approval by the Planning Commission.
- 2. <u>Swimming Pools/Spas</u>: Swimming pools shall be prohibited in this subarea. Spas shall be permitted in the rear yard but must be completely screened from adjoining properties. Spas shall be flush with the top of surrounding paving or similar surfaces. Spas that are completely or partially flush with the top of surrounding paving or similar surfaces shall be enclosed by a wall or fence constructed so as to prevent uncontrolled access. Such wall or fence shall be of such design and construction as to effectively prevent a child from crawling or otherwise passing through or under such fence or barrier. Such wall or fence shall not be less than forty-eight (48) inches in height, maintained in good condition by the property owner, and affixed with an operable gate and lock.

3. Storage:

- a. Storage Sheds: Storage sheds shall be prohibited.
- b. <u>Equipment Storage</u>: Storage of all maintenance equipment shall be within garages or otherwise screened from off-site view. Such items should not be visible from streets, common open spaces, or adjacent lots or developments.
- c. <u>Vehicle Storage</u>: All campers, off-road vehicles (i.e. box trucks), and boats, must be parked within an enclosed garage. No undrivable vehicles or parts of vehicles may be stored outside.
- 4. <u>Mailboxes</u>: Due to recently enacted federal postal rules and regulations, individual mailboxes are no longer permitted to be located to the front of each home. Instead, cluster mailbox units shall be utilized at a single location. This location and the design of the cluster mailbox units shall be reviewed and approved as part of a final development plan for this subarea.
- 5. <u>Garbage Cans</u>: All garbage cans and other waste containers shall be kept in garages or within approved screened areas that meet the requirements of Codified Ordinances Section 1171.05.
- VII. <u>SUBAREA 5</u>: The provisions of this Section VII shall apply to Subarea 5.
 - A. <u>Permitted Uses</u>: Permitted uses in this subarea include the following:
 - 1. <u>Senior Living Uses</u>: "Senior Living Uses" shall be defined to mean the development and operation of Assisted Living Facilities, Memory Care Facilities and Skilled Nursing Facilities, either individually or in some combination thereof, as well as any Independent Living Facility that is a component of a senior living community that includes an Assisted Living Facility. For purposes of this text, certain terms shall have the meanings provided below:
 - a. "Assisted Living Facilities" shall be defined to mean "facilities providing living accommodations for senior citizens, the elderly, and/or individuals with disabilities residing in individual units within a building that includes multiple living units and also provides assistance from on-site staff with respect to some activities of daily living such as, but not limited to, hygiene, dressing, provision of meals, dispensing and administration of medication, and mobility assistance." Individual living units in such facilities may provide a living room, a kitchen, and one or more studio or self-contained bedrooms. These facilities may provide for common dining areas and meal preparation by on-site staff.
 - b. "<u>Memory Care Facilities</u>" shall be defined to mean "facilities providing for care of individuals living on-site who suffer from dementia or similar memory impairment conditions." These facilities may include on-site nursing staff,

physicians and caregivers. These types of facilities may have special security measures in place for the protection and safety of residents. Memory Care Facilities will have some elements which are similar to Assisted Living Facilities but are distinguished from them based on the nature of residents' health and the elevated level of care that is necessary to be provided.

- c. "Skilled Nursing Facilities" shall be defined to mean "facilities in a more institutional setting than Assisted Living or Independent Living Facilities, which require government-issued licenses in order to operate, and that customarily provide high and skilled levels of care due to residents' complex medical problems, restrictions on mobility, and infirmities." In these facilities, many residents generally require assistance with movement from one place to another, bathing, and other basic activities of daily living.
- d. "<u>Independent Living Facilities</u>" shall be defined to mean "attached or detached residential units for senior residents aged 55 and over who largely have the ability to take care of their own basic needs." These facilities have residents who are generally more active than in other senior living environments.
- 2. <u>Senior Living Supporting Uses</u>: Any uses ancillary to the operation of any Senior Living Use ("Senior Living Supporting Uses") shall be permitted in association with the operation of a permitted Senior Living Use, provided that such uses are intended primarily for usage by residents and their families and guests and shall not be marketed (but will be open) to the general public. Examples of Senior Living Supporting Uses include, but are not limited to:
 - a. Retail stores primarily engaged in selling merchandise for personal or household consumption;
 - b. Cafes and restaurants with no drive-throughs;
 - c. Coffee shops;
 - d. Beauty salons, barber shops, nail salons, and spas;
 - e. Pools
 - f. Theaters;
 - g. Fitness centers;
 - h. Gymnasiums;
 - i. Areas of worship; and
 - j. Medical service facilities.
- 3. Offices: Administrative, business, professional, and medical offices as provided in Codified Ordinances Section 1143.02(a), (b), and (c); and

- B. <u>Conditional Uses</u>: Daycares and preschools shall be conditional uses in this subarea, provided that the conditional uses comply with and are reviewed in accordance with Chapter 1115 of the Codified Ordinances:
- C. <u>Site Design Intent</u>: The preliminary development plan for this subarea is intended to illustrate one site plan that conforms to the requirements of this zoning text. The final development plan for this subarea may differ from the preliminary development plan. Such differences shall be deemed to be permissible provided that the final development plan meets the requirements of this zoning text, subject to any variances that are approved by the Planning Commission as part of a final development plan.

D. Lot and Setback Commitments:

1. <u>Lot Coverage</u>: The maximum lot coverage shall be 70%. Lot coverage shall be defined as the area covered by buildings and impervious surfaces. Lot coverage shall be measured across the entire subarea, meaning that individual parcels within this subarea may exceed the maximum lot coverage percentage as long as the entire subarea does not exceed the maximum and shall be documented by the developer. This documentation shall consist of a calculation being provided along with each final development plan in this subarea detailing the lot coverage within the proposed development that is the subject of the application and the total lot coverage that will exist in the subarea following the approval of the application by taking into account other improved portions of the subarea and other final development plans for the subarea which has been approved but pursuant to which development has not yet occurred.

2. Setbacks:

- a. <u>New Albany-Condit Road</u>: There shall be a minimum pavement setback of zero feet, a minimum primary building setback of 25 feet, and a minimum ancillary structure setback of 10 feet from the right-of-way of State Route 605/New Albany-Condit Road.
- b. <u>Western Perimeter Boundary</u>: There shall be a minimum pavement setback of 10 feet and a minimum building setback of 20 feet from the western perimeter boundary of this subarea.
- c. <u>Northern Perimeter Boundary</u>: There shall be a zero minimum pavement and building setback from the northern perimeter boundary of this subarea.
- d. <u>Southern Perimeter Boundary</u>: As later contemplated herein, a public street will be constructed running east-west and generally parallel to the southern boundary line of this subarea. No buildings or pavement shall be

permitted to be located between this new street and the southern boundary line of this subarea. There shall be a minimum pavement setback of zero feet and a minimum building setback of 10 feet from this street.

- f. <u>Interior Parcel Lines</u>: There shall be a zero minimum setback required for buildings and pavement from interior parcel lines within this subarea.
- E. Access: Vehicular access to and from Subarea 5 shall be provided from one full movement access point on New Albany-Condit Road. A new public street will be constructed running east-west along the southern boundary of this subarea. It shall be constructed so that it is open for use prior to the issuance of the first temporary or permanent certificate of occupancy that is issued for a building in this subarea. The new public street shall have a minimum of 60 feet of right-of-way and a minimum of 24 feet of pavement measured face-of-curb to face-of-curb. It will be stubbed to the western boundary line of this subarea. A public sidewalk shall be provided along the north side of the new public street. This sidewalk shall be 5 feet in width and shall be constructed of concrete.

VIII. SUBAREA 6: The provisions of this Section VIII shall apply to Subarea 6.

- A. <u>Permitted Uses</u>: Permitted uses in this zoning district shall be as follows:
- 1. Single-family attached residences within buildings containing at least two and no more than five dwelling units within a building. Units may be owner-occupied or for rent.
 - 2. Single-family detached residences on reduced lots.
- 3. One model home per residential product type permitted in this subarea or leasing office shall be permitted in this subarea subject to the review and approval of the Planning Commission in accordance with Section 1133.04(d) of the Codified Ordinances of the City of New Albany. Notwithstanding anything to the contrary in the City's Codified Ordinances, upon approval of a final plat by the City the developer may commence construction of building containing the model home or leasing office. Construction of the model home may occur in advance of, or in conjunction with, installation of public infrastructure for the subdivision. No occupancy or use of the model home shall be permitted until all relevant public infrastructure improvements serving the home are acted by the City.
- 4. Home occupations, subject to the regulations of Codified Ordinances Section 1165.09.
- B. Number of Units: There shall be a maximum of 35 dwelling units in this subarea.
- C. <u>Lot Requirements:</u>

- 1. <u>Individual Lots</u>: Each dwelling unit that is owner-occupied shall be located on its own parcel. An individual building shall contain only owner-occupied dwelling units or rental units, but not both.
- 2. <u>Dimensions</u>: There shall be a minimum parcel width of 18 feet at the building line. Each parcel shall have a minimum depth of 40 feet.
- 3. <u>Primary Street Frontage</u>: No homes shall be permitted to back onto New Albany-Condit Road or Central College Road. Homes shall be served by a public alley system for vehicular traffic that provides access to the garage in the rear of a home.
- 4. <u>Lot Coverage</u>. The maximum lot coverage shall be 70%. Lot coverage shall be defined as the area covered by buildings and impervious surfaces. Lot coverage shall be measured across the entire subarea, meaning that individual parcels within this subarea may exceed the maximum lot coverage percentage as long as the entire subarea does not exceed the maximum and shall be documented by the developer. This documentation shall consist of a calculation being provided along with each final development plan in this subarea detailing the lot coverage within the proposed development that is the subject of the application and the total lot coverage that will exist in the subarea following the approval of the application by taking into account other improved portions of the subarea and other final development plans for the subarea which has been approved but pursuant to which development has not yet occurred.

D. Minimum Setbacks:

- 1. <u>New Albany-Condit Road</u>: There shall be a minimum building setback of 70 feet from the centerline of State Route 605/New Albany-Condit Road as it exists on the date that this text becomes legally effective.
- 2. <u>Central College Road</u>: There shall be a minimum building setback of 70 feet from the centerline of Central College Road as it exists on the date that this text becomes legally effective.
- 3. <u>Eastern Perimeter Boundary</u>: There shall be a minimum building setback of 10 feet from the eastern perimeter boundary line of this subarea..
- 4. <u>Side Yards:</u> There shall be a zero setback requirement between attached units and their shared lot lines, where applicable. End units on buildings shall be located no less than 5 feet from the side parcel line.
- 5. <u>Rear Yards:</u> The minimum rear yard setback for each dwelling unit shall be 18 feet to the edge of private alley pavement.

E. Access and Parking:

- 1. <u>Vehicular Access</u>: Vehicular access to and from Subarea 6 shall be provided using a public alley system with full turn movement access to and from New Albany-Condit Road. The access point at New Albany-Condit Road shall align with the proposed new public street that is planned in this Zoning District extending from the west side of New Albany-Condit Road. No vehicular access to and from Subarea 6 shall be provided along Central College Road. Public alleys shall have a minimum pavement width of 18 feet and a minimum right-of-way of 20 feet.
 - 2. <u>Off-Street Parking:</u> All homes shall have a minimum one-car garage.
- 3. <u>On-Street Parking:</u> On-street parking shall be permitted on public streets within this zoning district in accordance with the City's Codified Ordinances.
- 4. <u>Public Sidewalks:</u> A public sidewalk shall be located on both sides of alleys. Sidewalks shall be minimum 5 feet in width and shall be constructed of concrete.

F. <u>Landscaping</u>:

- 1. <u>Street Trees:</u> Street trees shall be required on both sides of public streets. Trees shall be a minimum of 3 inches in caliper at installation and shall be spaced as required by applicable provisions of the Codified Ordinances, except that along New Albany-Condit Road trees may be grouped, provided the quantity is equivalent to the Cderequired amount of trees. This requirement may be waived in areas where existing vegetation occurs, subject to approval of the city landscape architect. Notwithstanding the foregoing, tree spacing on public streets may deviate from this spacing requirement if necessary or appropriate to provide a desirable streetscape, as approved as part of a final development plan. Trees shall not obstruct sight distance or signage, subject to staff approval. Street tree and signage locations shall be shown on the final development plan for review and approval.
- 2. <u>Landscaping Plan</u>: A landscaping plan shall be provided with a final development plan application for this subarea for review and approval by the Planning Commission. The landscaping plan shall provide specifications for required plantings on individual parcels and reserve areas and shall provide detailed requirements for screening, buffering, and/or landscaping along New Albany-Condit Road. In addition, it shall provide for a mound to be located near the eastern boundary of Subarea 6 which is shared with Franklin County Parcel Number 222-003916. Such mound shall be a minimum of 4 feet in height and shall include evergreen and deciduous trees and shrub plantings to provide additional screening and buffering. The slope of the mound shall be determined as part of the review and approval of the final development plan.
- G. <u>Porches:</u> Front porches are encouraged on all homes. Screened porches are permitted on the rears of homes but shall not be permitted on the front or side. Detailing shall be

traditional wood in appearance with a break in screening at rail height. All screened porch trim shall be painted or stained. Roof lines of screened porches shall conform to the architectural style of the home and blend into the massing of the home.

H. Garages:

- 1. Garages shall be attached and may front on a public alley. Each home shall provide a minimum 1-car garage.
- 2. Garage doors (Vehicular): Individual bay doors or double wide garage doors that have the appearance of individual bay doors when closed shall be required. Notwithstanding the foregoing, individual bay doors shall be required on all garages which face the public street along the northern boundary of this subarea or New Albany-Condit Road. All garage doors shall contain decorative features and shall be of a color and style that is consistent with architecture of the home. The exterior color palates for each home shall be selected and designed in a manner which de-emphasizes the location and placement of the garage door. Garage doors that are white in color shall only be used in the circumstance when white is the primary exterior color of the individual home. All garage doors shall be solid paneled but may have windows provided that the interior of the garage cannot be viewed at a height of 6 feet when standing in the middle of the public street found in front of the garage. No glazing shall be permitted on garage doors unless they are consistent with the architectural theme.
- 3. <u>Garage doors (Pedestrian)</u>: All pedestrian garage doors shall be solid paneled.

I. <u>Miscellaneous Standards</u>:

1. <u>Swimming Pools/Spas</u>: Swimming pools shall be prohibited in this subarea. Spas shall be permitted in the rear yard but must be completely screened from adjoining properties. Spas shall be flush with the top of surrounding paving or similar surfaces.

2. Storage:

- a. Storage Sheds: Storage sheds shall be prohibited.
- b. <u>Equipment Storage</u>: Storage of all maintenance equipment shall be within garages or otherwise screened from off-site view. Such items should not be visible from streets, common open spaces, or adjacent lots or developments.
- c. <u>Vehicle Storage</u>: All campers, off-road vehicles (i.e. box trucks), and boats, must be parked within an enclosed garage. No undrivable vehicles or parts of vehicles may be stored outside.
- 3. <u>Mailboxes</u>: Due to recently enacted federal postal rules and regulations, individual mailboxes are no longer permitted to be located to the front of each home. Instead, cluster mailbox units shall be utilized at a single location. This location and the

design of the cluster mailbox units shall be reviewed and approved as part of a final development plan for this subarea.

- 4. <u>Garbage Cans</u>: All garbage cans and other waste containers shall be kept in garages or within approved screened areas.
- **IX.** GENERALLY APPLICABLE STANDARDS AND PROCEDURES: The provisions of this Section IX shall apply to the entirety of the Zoning District unless otherwise expressly noted.
- Parkland and Open Space: Parkland shall be dedicated to the City or maintained A. as open space with public access as determined at FDP from Subarea 3 and from Subarea 6 as generally shown in the preliminary development plan and with final dimensions and configurations which are approved as part of one or more final development plans. The intent of the dedicated parkland is to provide an amenity not only for the residents of the Zoning District but also for the New Albany community as a whole. The applicant will construct a trail and path system within the parkland that can be connected to other properties in the nearby vicinity and will provide valuable additions to the existing pedestrian trail network. The Sugar Run Creek will be enhanced and cleaned to improve its health and sustainability and provide a defining feature for this Zoning District. Where plantings are made within or near the creek, native plant species shall be used. Other open space areas to be privately owned and maintained and shall be specifically defined and approved with each final development plan for this Zoning District. Unless owned by a public entity, these open space areas shall be maintained by a forced and funded property owners' association or by other means as approved by the City that shall be created prior to the commencement of construction of any buildings within this Zoning District and may be owned by private owners or the association itself.

Based on the nature of the proposed uses in this Zoning District and the nature of this development being a "hamlet", the calculations as provided in the Codified Ordinances yield a result that makes it impossible to physically locate all of the required parkland and open space within the boundaries of this Zoning District. In addition, payment of a fee in lieu of the shortages in parkland or open space in accordance with the requirements and procedures of the Codified Ordinances will be cost prohibitive to the project. Therefore, the parkland and open space that is being shown in the preliminary development plan and which is later approved as part of one or more final development plans shall be deemed to satisfy parkland and open space requirements for this Zoning District.

- B. <u>Traffic Study</u>: A traffic study has been filed along with the rezoning application for this Zoning District. Improvements to the interior and adjacent public street network shall be provided by the developer(s) of this Zoning District as required (and with timing recommended) by a traffic study which has been approved by the City Traffic Engineer.
- C. <u>Leisure Trails</u>: An asphalt leisure trail that is 8 feet in width shall be constructed along the Zoning District's frontages on Central College Road and the west side of New Albany-Condit Road in locations which are reviewed and approved as part of a final development plan.

The locations and specifications for additional leisure trails shall be reviewed and approved as part of relevant final development plans.

- D. <u>Sizes of Plantings</u>: Except as otherwise provided in other sections of this text, the minimum landscaping size at installation shall be 3 inches in caliper for deciduous trees and 6 feet high for evergreen trees.
- E. <u>Reciprocal Easements</u>: A declaration of reciprocal easements or a reciprocal easement agreement shall be recorded against the real property within this Zoning District prior to the issuance of the first building permit in order to provide for perpetual vehicular and pedestrian cross access, cross utility, cross parking, and other easements which are necessary or desirable for the efficient development of the Zoning District. Maintenance of private drives and private sidewalks internal to this Zoning District shall be the responsibility of a forced and funded property owners' association which is created for this purpose or by individual property owners. A copy of the relevant recorded instrument as contemplated by this paragraph shall be submitted to the City along with the first application for a building permit in this Zoning District.

F. <u>Dedications of Rights-of-Way</u>:

- 1. <u>State Route 605/New Albany-Condit Road ROW:</u> Prior to the issuance of the first building permit for any structure to be built in this Zoning District, the relevant property owners shall dedicate right-of-way to the City for a distance that extends 40 feet from the centerline of State Route 605/New Albany-Condit Road.
- 2. <u>Central College Road</u>: Prior to the issuance of the first building permit for any structure to be built in this Zoning District, relevant property owners shall dedicate right-of-way to the City for a distance that extends 50 feet from the centerline of State Route 605/New Albany-Condit Road.
- G. <u>Phasing of Improvements</u>: The phasing of the development of this Zoning District is dependent upon market conditions. Each phase shall include an appropriate share of the proposed streets and circulation system, landscaping and outdoor spaces, screening and other site and architectural amenities of the entire project. The extent of these improvements shall be determined for each phase of a specific project at the time of the project's final development plan approval, and will not necessarily be based solely upon a proportional or equal share of the entire site. Requirements for a phased project may include off-site improvements.
 - H. Utilities: All new utilities shall be installed underground.
- I. <u>Lighting</u>: Lighting shall be provided in accordance with the requirements of the Codified Ordinances except as otherwise provided in this subsection or as otherwise approved as part of a final development plan.
 - 1. <u>Parking Lot Lighting</u>: All parking lot lighting shall utilize cut-off type fixtures and shall be down cast. Parking lot lighting shall be from a controlled source in order to minimize light spilling beyond the boundaries of the site. All parking lot lighting

shall be of the same light source type and style. All parking lot light poles shall be black or New Albany green and constructed of metal. Light poles shall not exceed 30 feet in height.

- 2. <u>Prohibited Lighting</u>. No permanent colored lights or neon lights shall be used on the exterior of any building. The prohibitions in this subsection shall not apply to Subarea 3.
- 3. <u>Street Lights.</u> Street lighting shall be provided at intersections between public alleys or public streets internal to this Zoning District and Central College Road and New Albany-Condit Road. Street lighting also shall be provided within the Zoning District where public streets intersect or and at other intersections of or with public alleys. Street lighting shall meet the City Standards and Specifications.
- J. <u>Service Areas and Dumpsters</u> All loading areas, service areas and dumpsters shall be fully screened from all public streets and from adjacent properties located outside of this Zoning District at ground level with walls, fencing, landscaping, or some combination thereof. Walls shall be of the same materials used on nearby building walls and shall be complemented with landscaping. Exterior storage of materials, supplies, equipment, or products is prohibited.
- K. <u>Internal Buffering Exemption</u>. The screening requirements of Codified Ordinances Section 1171.05 shall not apply to interior parcel or subarea boundaries in this Zoning District.
- L. <u>Graphics and Signage</u>: Based on the various uses contained within the "hamlet" that is being created by and through this Zoning District, signage needs are unique and require flexibility, not in an effort to deviate from the community standard but instead to properly and adequately identify uses, users, and tenants, and to promote efficient wayfinding. A master sign plan shall be filed as part of the first final development plan for review and approval by the Planning Commission. In the event of a conflict between an approved master sign plan and a relevant provision of the Codified Ordinances, the approved master sign plan shall govern. Where any signage standard is not addressed in an approved master sign plan, the relevant provisions of the Codified Ordinances shall govern. For Subarea 3, it is the intent to encourage unique and creative signage in terms of their design, numbers, and placement, and therefore the master sign plan for Subarea 3 shall be reviewed accordingly.

M. Lighting.

1. <u>Ground-Mounted Lighting</u>. Landscape uplighting from a concealed source shall be permitted, provided that the total number of lumens consisting of uplighting will be limited to 2% of the total number of exterior fixture lumens emitted above 90 degrees or higher from nadir unless captured and shielded by a building or other permanent element.

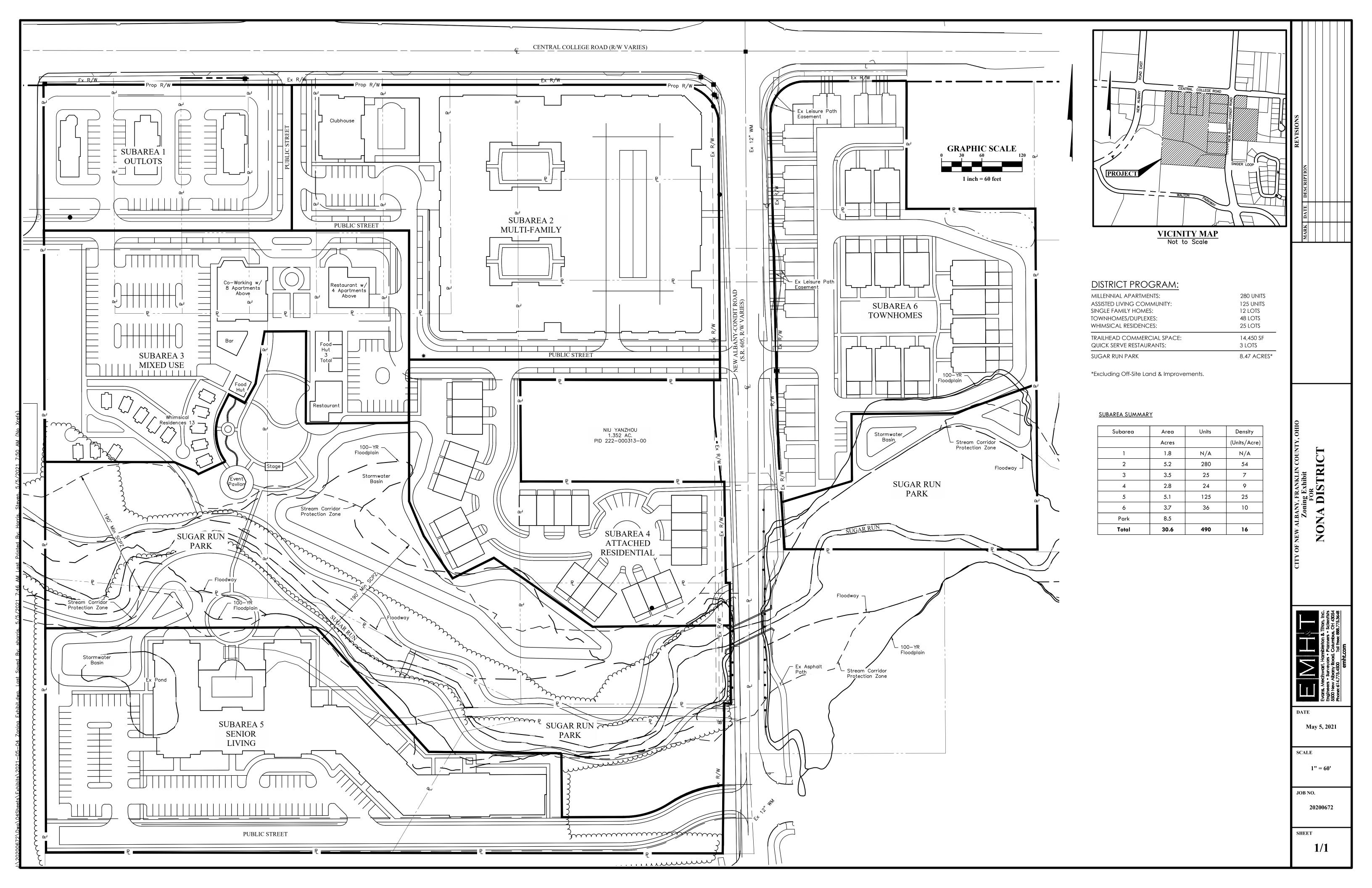
- 2. <u>Security Lighting</u>: Security lighting, when used, shall be of a motion-sensor type.
- 3. <u>Consistent Appearance</u>: Exterior lighting fixtures shall be similar in appearance throughout each subarea. All exterior lighting mounted to a building shall be located on the first floor only.
- 4. <u>Other Requirements</u>: All other lighting on the site shall be in accordance with the City's Codified Ordinances.

N. Appeals and Waivers.

1. Appeals.

- a. <u>Taking of Appeals</u>. Appeals to the Board of Zoning Appeals concerning interpretation or administration of the text or the underlying zoning ordinance by the Zoning Officer or any other administrative official may be taken by any person aggrieved, including a tenant, or by a governmental officer, department, board, or bureau. Such appeal shall be taken within twenty days after the date of the decision by filing a notice of appeal specifying the grounds thereof with the officer from whom the appeal is taken and the Board of Zoning Appeals.
- b. <u>Imminent Peril</u>. An appeal shall stay all proceedings in furtherance of the action appealed from, unless the Zoning Officer certifies to the Board of Zoning Appeals, after notice of appeal shall have been filed with him, that by reason of facts stated in the application a stay would, in his opinion, cause imminent peril to life or property. In such case, the proceeding shall not be stayed other than by a restraining order which may, on due cause shown, be granted by the Board of Zoning Appeals, after notice to the Zoning Officer or by judicial proceedings.
- 2. <u>Waivers</u>. Deviations from development standards in this text or in the Codified Ordinances are subject to the waiver process. A waiver to the standards may be approved by the Planning Commission (PC) upon the request of an applicant as part of a final development plan application. In considering a request for a waiver, the PC shall conduct a public meeting in conjunction with the requested application.
 - a. <u>Application for Waiver</u>. An applicant desiring to have a requirement of this zoning waived must apply to the PC for the waiver through city staff in conjunction with a final development plan application that will be reviewed by the Planning Commission. The applicant must indicate the nature of the waiver sought and provide a statement explaining why the waiver should be granted. Any drawings or other materials needed to support the application, as determined by city staff, shall be submitted with the waiver request.

- b. <u>Action by the Planning Commission</u>. Along with its decision to approve, approve with conditions, or disapprove a final development plan application, Within the PC shall either approve, approve with supplementary conditions, or disapprove the request for a waiver. The PC shall only approve a waiver or approve a waiver with supplementary conditions if the PC finds that the waiver, if granted, would:
 - i. Provide an appropriate design or pattern of development considering the context in which the development is proposed and the purpose of the particular standard. In evaluating the context as it is used in the criteria, the PC may consider the relationship of the proposed development with adjacent structures, the immediate neighborhood setting, or a broader vicinity to determine if the waiver is warranted;
 - ii. Substantially meet the intent of the standard that the applicant is attempting to seek a waiver from, and fit within the goals of the preamble of this zoning text and the City's Strategic Plan;
 - iii. Be necessary for reasons of fairness due to unusual site or building specific constraints; and
 - iv. Not detrimentally affect the public health, safety or general welfare.











The Site





Our Approach



THE CONTEXT

- Consistent with Insight 2050
- Consistent with Engage New Albany

OUR VISION

- Mixed-Use Neighborhood Center
- Sustainable Planning
- Timeless Design
- Creation of a Public Realm

THE IMPACT

- Economic
- Schools
- Traffic
- Enhanced Streets and Connections



A New Neighborhood Center



THE CONTEXT

- Consistent with Insight 2050
- Consistent with Engage New Albany

OUR VISION

- Mixed-Use Neighborhood Center
- Sustainable Planning
- Timeless Design
- Creation of a Public Realm

THE IMPACT

- Economic
- Schools
- Traffic
- Enhanced Streets and Connections



Foundational Documents





ENGAGE **NEW ALBANY**

NoNA

Foundational Documents























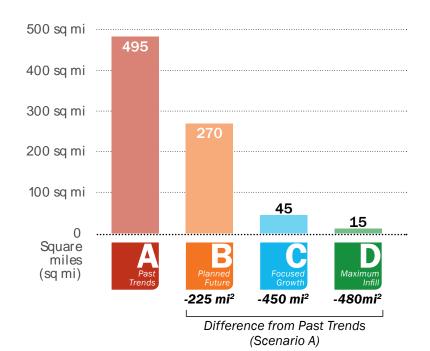


Scenario Analysis

HOW DOES CENTRAL OHIO PLAN FOR:

- 1M New Residents
- **300,000** New Jobs

CUMULATIVE NEW LAND CONSUMPTION











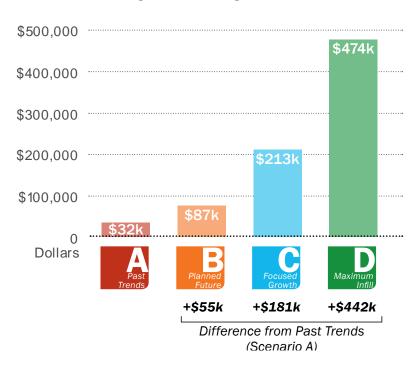
INSIGHT 2050:

NoNA

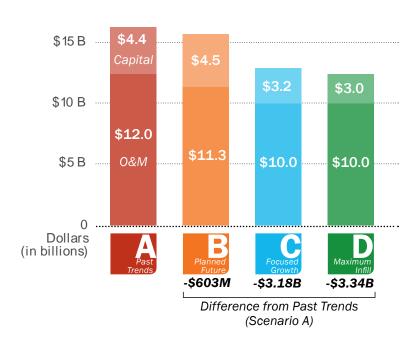
Economic Impact

SCENARIO ANALYSIS RESULTS:

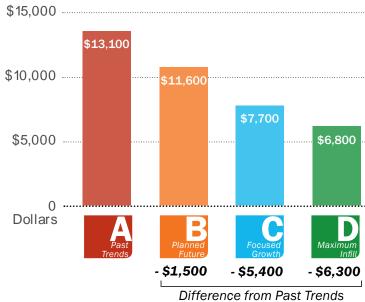
TAX REVENUE PER ACRE



INFRASTRUCTURE COSTS



ANNUAL HOUSEHOLD COSTS



(Scenario A)

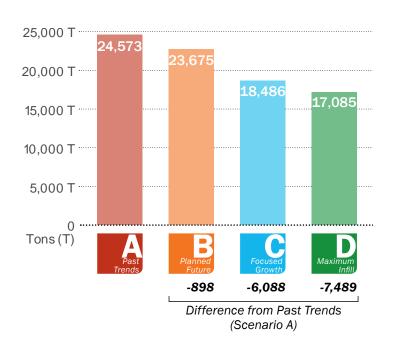
INSIGHT 2050:



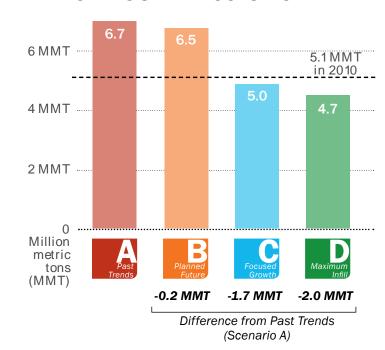
Environmental Impact

SCENARIO ANALYSIS RESULTS:

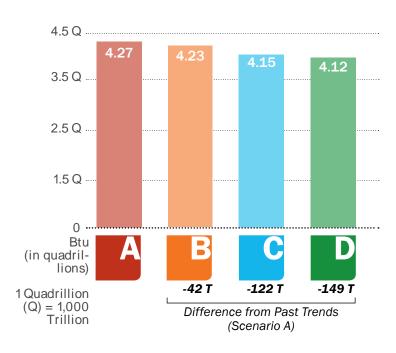
AUTO EMISSIONS



ANNUAL CO2 EMISSIONS



ANNUAL ENERGY CONSUMPTION

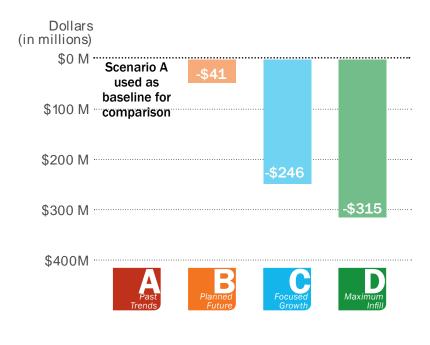


INSIGHT 2050:

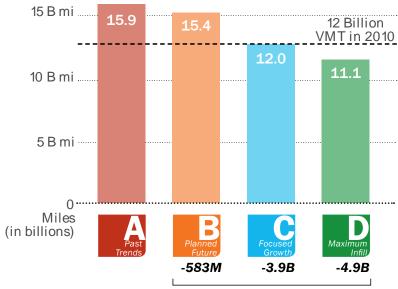
Quality of Life Impact

SCENARIO ANALYSIS RESULTS:

ANNUAL HEALTH COSTS



COMMUTE MILES



Difference from Past Trends (Scenario A)



Benefits of Focused Growth

ECONOMIC IMPACT

- Increased Tax Revenue
- Decreased Infrastructure Costs
- Decreased Household Costs

ENVIRONMENTAL IMPACT

- Reduced Land Consumption
- Improved Air Quality
- Reduced Energy Consumption



QUALITY OF LIFE IMPACT

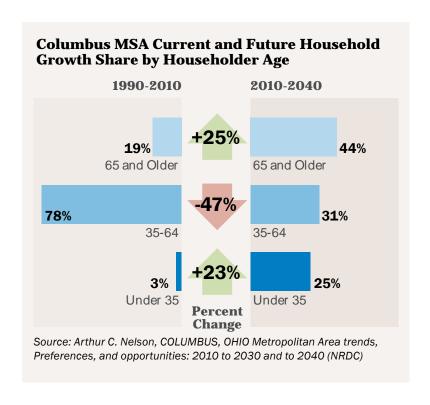
- Decreased Health Costs
- Decreased Commute Times



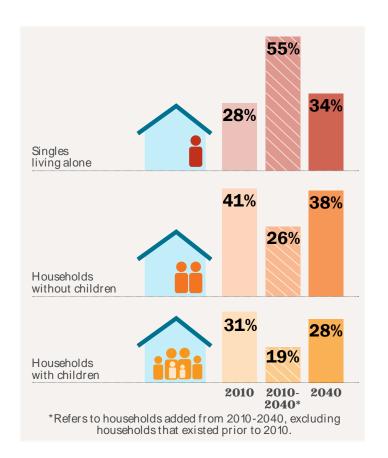


Housing Impact of Demographic Trends

CHANGE OF HOUSEHOLDER AGES

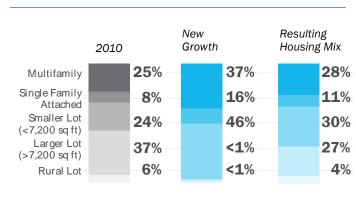


CHANGE IN THE TYPE OF HOUSEHOLDS



CHANGE IN THE HOUSING TYPE MIX







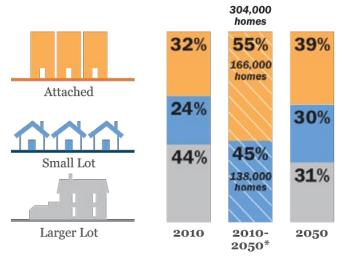
Future Residential Demand

CONSEQUENCES ON URBAN PLANNING

RESULTS:

- Less Large-Lot Single Family
- More Small-Lot Detached Single Family
- More Attached Single Family
- More Multifamily

HOUSING DEMAND FORECAST



ALIGNMENT: ENGAGE NEW ALBANY 2030 RECOMMENDS

LAND USE - RESIDENTIAL

- We recommend:
- » Additional cluster neighborhoods like Ashton, Keswick, Ealy Crossing
- » High quality stacked flats and townhomes in targeted areas of the community with proximate, walkable amenities - like the Village Center and other neighborhood-scale retail centers







ENGAGE NEW ALBANY





Engage New Albany 2030







1,200 **RESIDENTS**







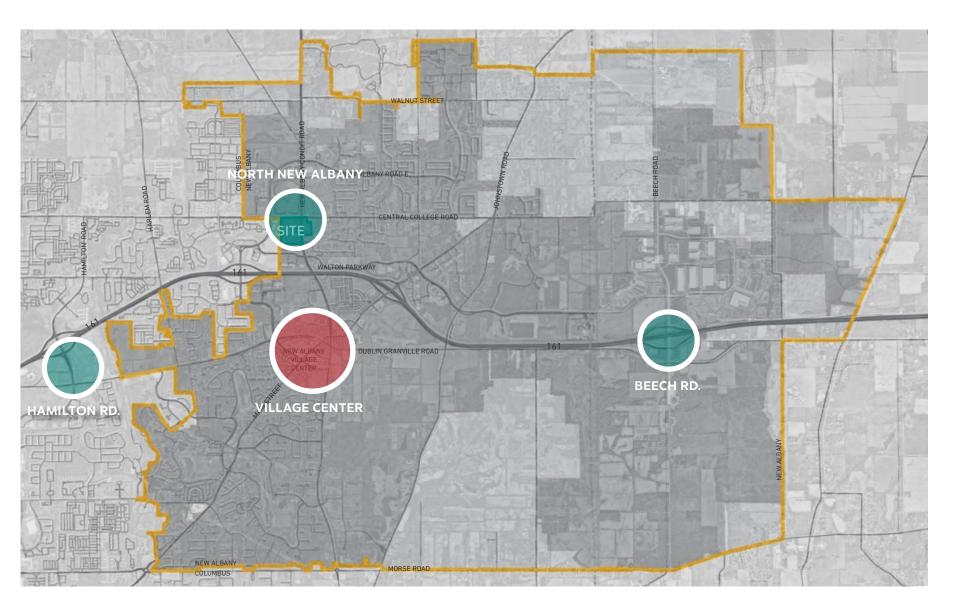






Planning for Multiple Neighborhoods

- One Community; Multiple Neighborhoods
- Embracing the Differences of Our Neighborhoods
- A Neighborhood Center for North New Albany
- A Focused Development Area ("Hamlet") within New Albany





Diversity in Housing Types

LAND USE - RESIDENTIAL

- We recommend:
 - » Additional cluster neighborhoods like Ashton, Keswick, Ealy Crossing
 - » High quality stacked flats and townhomes in targeted areas of the community with proximate, walkable amenities - like the Village Center and other neighborhood-scale retail centers













A Lifespan Community

A TRUE NEIGHBORHOOD IS A LIFESPAN COMMUNITY

"Provides residents the opportunity to move at least twice throughout their lifetimes"

A NEIGHBORHOOD:

- Includes Varied Housing Types
- Is Connected, Accessible, Walkable
- Has a Housing Supply that is Responsive to Demographic Trends
- Is Anchored by Public Gathering Spaces







ALIGNMENT WITH ENGAGE NEW ALBANY 2030:

"You Spoke"



ENGAGE NEW ALBANY 2030 SURVEY

To Strive to be a "Lifespan Community" (86% of Respondents)

New Retail Areas Within the City but Outside the Village Center Designed to Serve Adjoining Neighborhoods and Employment Centers (69% of Respondents)

Additional **Dining and Retail Options** (48% of Respondents)

Additional Parks, Recreation, and Open Space (32% of Respondents)

Additional Special Events **Programming** (58%) Arts and Cultural Programming (47%) and Family-oriented Programming (44%)









NoNA DISTRICT:

NoNA

Our Vision

THE CONTEXT

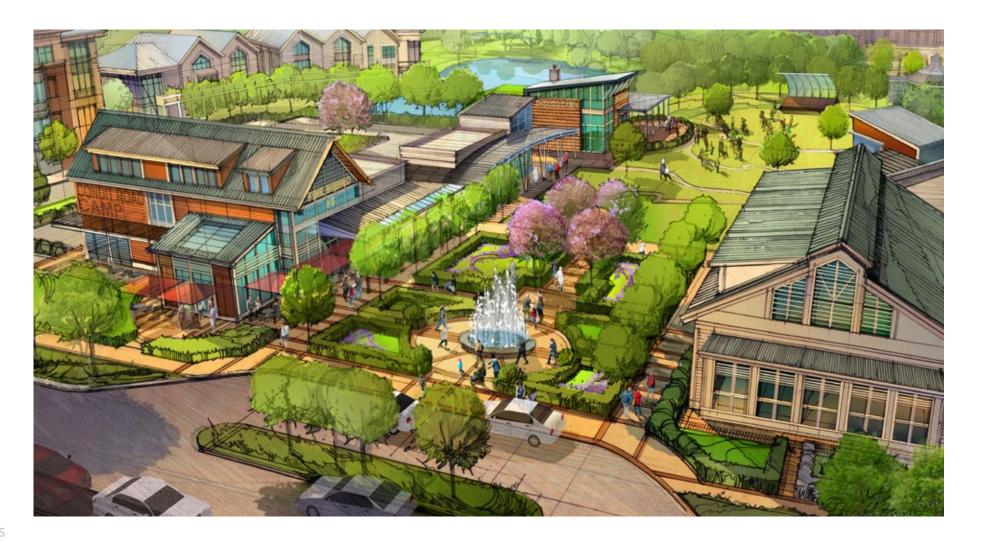
- Consistent with Insight 2050
- Consistent with Engage New Albany

OUR VISION

- Mixed-Use Neighborhood Center
- Sustainable Planning
- Timeless Design
- Creation of a Public Realm

THE IMPACT

- Economic
- Schools
- Traffic
- Enhanced Streets and Connections



NoNA

Neighborhood Context



NoNA DISTRICT:

NoNA

Use Plan

RESIDENTIAL

- Millennial/Active Adult Apts
- Senior Living Community
- Single Family Homes
- Townhomes/Duplexes
- Affordable Apartments (5%)
- Whimsical Residences

COMMERCIAL

- Office/Coworking
- Restaurants and Bar
- The Trailhead Park
 - Artisanal Eateries
 - Food Truk Haus
 - Community Stage

PARKS AND RECREATION

- Sugar Run Park
- Walking Paths/Trails
- Childrens' Play Area
- Meditation Path
- English Garden



NoNA

Lifespan Residential Offerings















NONA

Mixed Use District















NoNA NoNA

Trailhead Park



NoNA

Outdoor Amenities















NoNA DISTRICT:



Environmental Initiatives

GREEN INITIATIVES WILL INCLUDE:

- Sugar Run Streambank Repair
- Native Species Restoration
- Alternative Wetland Remediation Techniques
- Pollinator-Friendly Plantings
- Alternative Stormwater Retention



NoNA DISTRICT:



"You Spoke, We Listened"

ENGAGE NEW ALBANY 2030 SURVEY

To Strive to be a "Lifespan Community" (86% of Respondents)

New Retail Areas Within the City but Outside the Village Center Designed to Serve Adjoining Neighborhoods and Employment Centers (69% of Respondents)

Additional **Dining and Retail Options** (48% of Respondents)

Additional Parks, Recreation, and Open Space (32% of Respondents)

Additional Special Events **Programming** (58%) Arts and Cultural Programming (47%) and Family-oriented Programming (44%)



PROPOSED NONA DISTRICT

NoNA District Will Be A Self-Contained "Lifespan Neighborhood"



NoNA District Will Provide North New Albany with **Retail Options** Outside the Village Center Designed to Serve the North New Albany Area



The "Trailhead" Provides New Dining and **Retail Options**



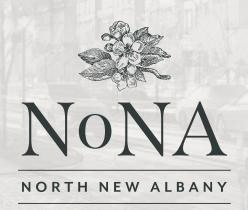
Sugar Run Park Provides Parks, Recreation and Open **Space** (of the Same Scope/Scale as Rose Run Park)



North New Albany will provide:

- Special Events Programming
- Arts and Cultural Programming
- Family-Oriented Programming
- · Wellness, Environmental Education and Continuing Education Programming

Impacts and Mitigation



IMPACTS AND MITIGATION:



Impact on New Albany

THE CONTEXT

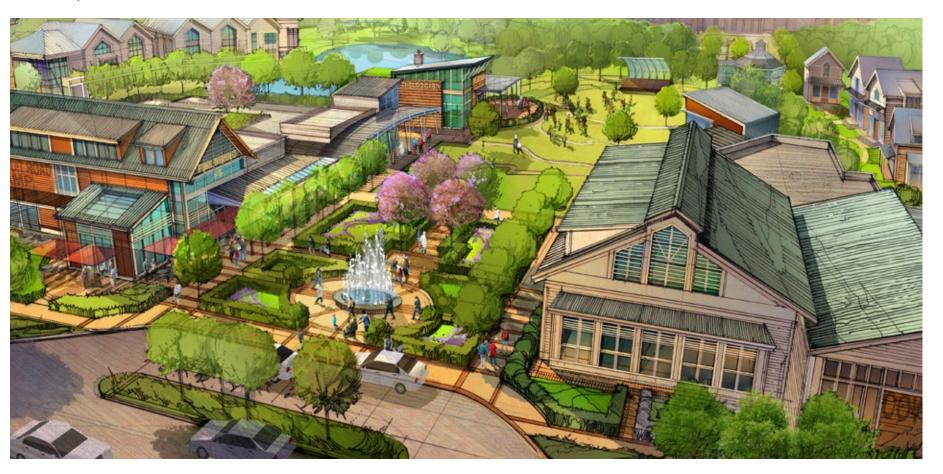
- Consistent with Insight 2050
- Consistent with Engage New Albany

OUR VISION

- Mixed-Use Neighborhood Center
- Sustainable Planning
- Timeless Design
- Creation of a Public Realm

THE IMPACT

- Economic
- Schools
- Traffic
- Enhanced Streets and Connections



IMPACTS AND MITIGATION:



Economic Impact

UTILIZED INSIGHT 2050 METHODOLOGY ON OUR PROPERTY

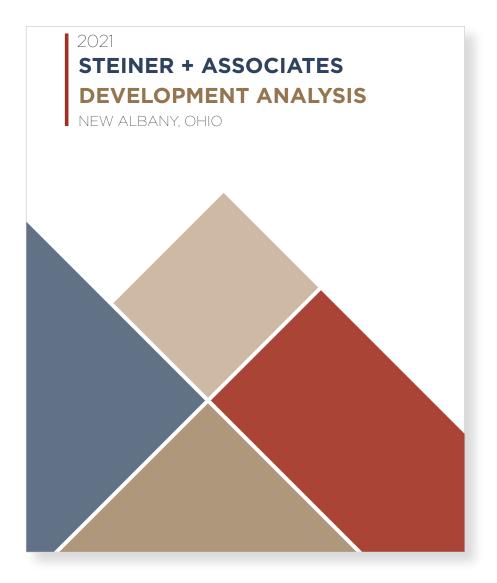
COMPARES:

- Existing Conditions
- Base Zoning
 - What would be allowed under current zoning
- Development Scenario
 - The development project, as proposed



ARCHITECTS, ENGINEERS, PLANNERS,







Economic Impact – Tax Revenue Analysis

Approximately \$14.63M Cumulative Tax Revenue Surplus

CUMULATIVE TAX REVENUE FROM NEW DEVELOPMENT



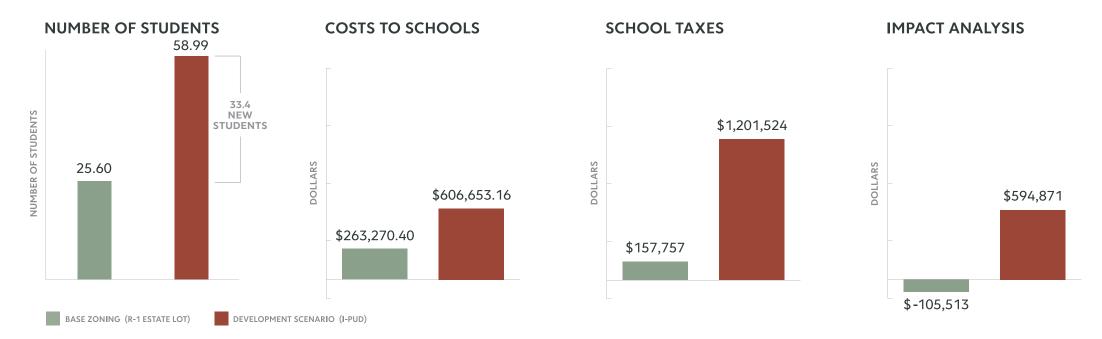
TAX REVENUE PER ACRE



IMPACTS AND MITIGATION:



School District Impact



COST ANALYSIS

BASE ZONING (R-1 ESTATE LOT)

| NAPLSD | NUMBER OF RESIDENTIAL UNITS - CURRENT ZONING | LOAD FACTOR | NUMBER OF STUDENTS |
|----------|--|-------------|--------------------|
| \$10,284 | 32 | 0.8 | 25.60 |

DEVELOPMENT SCENARIO (I-PUD)

| HOUSING TYPE | NUMBER OF RESIDENTIAL UNITS - DEVELOPMENT SCENARIO | LOAD FACTOR | NUMBER OF STUDENTS |
|-----------------------------------|--|-------------|--------------------|
| Single Family Homes | 12 | 0.8 | 9.60 |
| Townhomes For-Sale | 25 | 0.8 | 20.00 |
| Townhomes For Rent | 23 | 0.5 | 11.50 |
| Millennial/Active Adult Apartment | ts 266 | 0.04 | 10.64 |
| Affordable Apartments | 14 | 0.05 | 7.00 |
| Whimsical Residential | 25 | 0.01 | 0.25 |

IMPACTS AND MITIGATION:

NoNA

Traffic Impact

- Will not conflict with Engage New Albany 2030's Thoroughfare Plan
- Impact on Levels of Service will be negligible

LEVELS OF SERVICE (LOS)

- A New Albany-Condit Road and Central College Road AM Peak - LOS C / PM Peak - LOS D
- B New Albany Road E and Central College Road AM Peak - LOS C / PM Peak - LOS C

NEEDED IMPROVEMENTS

- 1 New Albany-Condit Road and Senior Living Access
 - Northbound Left Turn Lane
- 2 New Albany-Condit Road and North Access
 - Northbound Left Turn Lane
- 3 Central College Road and Site Access / Discover Complex Access
 - 125' Westbound Left Turn Lane (striped into existing pavement) Warranted
 - No improvements are required for any public road intersection





Impact on Street Design

INTEGRATE WITH AND IMPROVE THE SURROUNDING AREA

- Continuation of Existing Fabric
- Community Gateway
- Unified Pedestrian Experience
- Responsive to Engage New Albany Northwest Focus Area Development Scenario









Internal Connectivity

OPPORTUNITY FOR GREATER CONNECTIVITY

- Vehicular Connections
- Trails
- Walkability
- Greenspace Connectivity



SUGAR RUN TRAIL

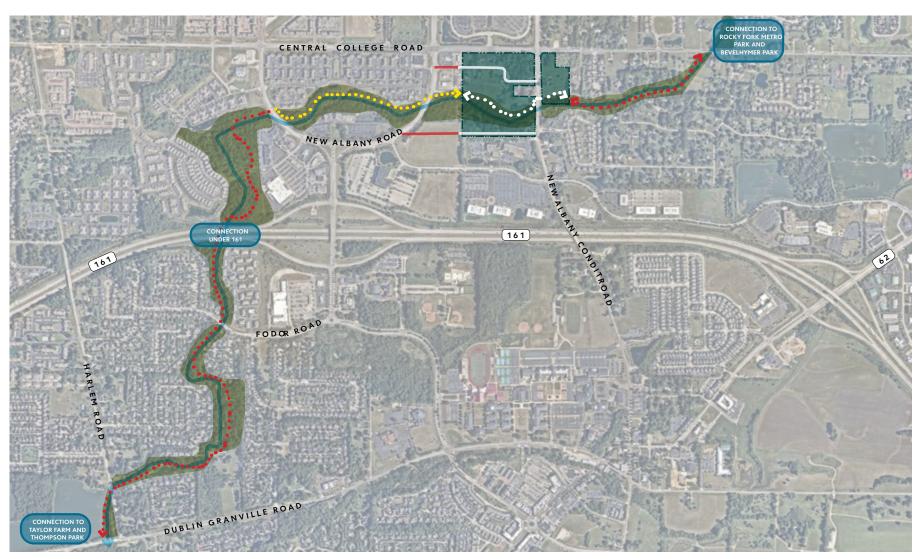
Subject to owner approval



City-wide Connectivity

OPPORTUNITY FOR GREATER CONNECTIVITY

- Vehicular Connections
- Trails
- Walkability
- Greenspace Connectivity



SUGAR RUN TRAIL

Subject to owner approval

Once completed, the NoNA District will...



URBAN PLANNING

- Be Consistent with Regional Planning
- Be Consistent with Engage New Albany 2030
- Be the Center of Gravity for Neighborhood
- Be Consistent with Residential Demand
- Maintain and Expand Existing Community Fabric

ECONOMIC DEVELOPMENT

- Have a Positive Economic Impact on the City
- Have a Positive Economic Impact on the Schools

SUSTAINABILITY

- Provide New Parks and Greenspace
- Be Environmentally Friendly

QUALITY OF LIFE

- Be a Lifespan Neighborhood
- Provide New Retail and Entertainment Options
- Not Materially Effect Traffic





















NONA

NORTH NEW ALBANY



June 10, 2021

Daniel Moorhead, P.E., PTP Division of Traffic Management 111 North Front Street Columbus, OH 43215

RE: Disposition of Comments for the NMD Mixed Use TIS MOU dated May 4, 2021 and Traffic Impact Study dated April 20, 2021' Submittal Dated 5/25/2021

The 'NMD Mixed Use TIS MOU' and draft TIS were submitted to the City of Columbus on May 4, 2021. The City of Columbus provided comments on June 6, 2021. The comments are provided below, followed by the Carpenter Marty Transportation (CM) response in red.

- 1) Review of Traffic Study:
 - Please note in the study the two intersections that are under City of Columbus jurisdiction.
 - CM Response: Complied.
 - Please check the unconstrained internal capture rate for AM trip origins from residential to retail uses. OTISS Pro v2.1 appears to utilize 12%, but NCHRP 684 Table 7.1 appears to indicate 1% for this land use pair.
 - CM Response: This appears to be corrected with the revised trip generation analysis. Internal capture for the AM Peak is 7 entering vehicles and 7 exiting vehicles. Changes to the internal capture would not be expected to affect results.
 - It would appear from the indicated growth forecast that a growth rate of 1.3% should be utilized for New Albany Road East at Walton Parkway and at Central College Road and that a growth rate of 3% should be utilized for Walton Parkway at New Albany Road East.
 - CM Response: Complied.
 - Regarding the unsignalized capacity analysis for the intersection of New Albany Road East and Site Access 1, please utilize the appropriate methodology from the Highway Capacity Manual.

CM Response: Complied.



June 10, 2021

Mike Barker City of New Albany 99 West Main Street New Albany, Ohio 43054

RE: Disposition of Comments for the NMD Mixed Use TIS MOU dated May 4, 2021 and Traffic Impact Study dated April 20, 2021' Submittal Dated 5/25/2021

The 'NMD Mixed Use TIS MOU' and draft TIS were submitted to the City of New Albany on May 4, 2021. The City of New Albany provided comments on May 25, 2021. The comments are provided below, followed by the Carpenter Marty Transportation (CM) response in red.

- 1) Review of May 4 Memorandum of Understanding (MOU)
 - As noted in the MOU, two of the Study intersections are within the City of Columbus corporate limits. New Albany will provide no formal review of those two intersections.

CM Response: Noted.

MOU notes that traffic volume data will be estimated/generated for the Discover complex building and single-family development along Snider Loop. From more recent information, the Discover site is expected to be redeveloped. Future analysis by others may be needed of this intersection. Otherwise, no comment for this intersection.

CM Response: Noted.

- Any widenings along SR 605 for left turns into site drives will also need to consider left turn lanes for any non-site driveways opposite the site drives, including Snider Loop.
 - CM Response: Complied. Recommendations in the report include opposing left turn lanes for warranted turn lanes at proposed site access points.
- Overall, the above comments can be addressed with a Traffic Impact Study, and there does not appear to be any need to modify the MOU related to analysis of intersections within New Albany.

CM Response: Noted.

- 2) Review of April 20 Traffic Study
 - Per May 4 email, the Study will be updated to reflect current site development information. Upon receipt of that Study, it is advised a discussion be held with the applicant to discuss changes if any to the Study recommendations in order to expedite further review.



CM Response: Noted. The only change to the analysis results is the recommendation to install a northbound right turn lane at New Albany-Condit Road & Central College Road (based on signal timing corrections) along with opposing left turn lanes described above.

- Update drive references for consistency, in various locations
 CM Response: Figure 1 has been revised in the report for clarity. The intersection numbers refer to the study intersections in the TIS.
- For land use and intensity, it is understood a revised Study will be prepared and updated development traffic.

CM Response: Complied.

Revise Study to note two intersections are in City of Columbus.

CM Response: Complied.

Per email from traffic consultant, a revised Study will be prepared including an update of development traffic. It appears the revised development information may only have a nominal effect on trip generation estimates. We otherwise have no comments on site trip generation or site trip distribution.

CM Response: Noted.

• For Study Intersection 4, it appears half of the driveway traffic arrives from the east, the other half from the west, and results show acceptable traffic flow conditions. From recent information the Discover site is expected to be redeveloped. As a result, this intersection may need to be reevaluated by others upon that redevelopment. No further comment for this intersection or intersection analysis.

CM Response: Noted.

- The Horizon Year analysis shows the Snider Loop approach shows at a LOS E condition, whereas all other Build and No-Build scenarios show acceptable LOS D or C conditions for Snider Loop. A review of the analysis results show very low V/C ratio conditions, and indicates no additional improvements may be needed for Snider Loop.
 - CM Response: Noted. The TIS recommends no improvements for this intersection.
- We concur with the left turn recommendations along NA Condit Road with one exception. The exception is we advise providing a southbound left turn lane for turning into Snider Loop. This will orient left turns opposite each other, and given distance between drives 7 and 8 tapering back to two lanes may not be practical. It is instead advised the segment of NA Condit Road between Snider Loop and Site Drive 7 be widened to 3 lanes. Responsibility for this widening or portions of the widening needs to be discussed further.



CM Response: Complied.

- Regarding the northbound left turn lane at site drive 7 (at Sniders Loop), the driveway is immediately north of the CVG delivery driveway. Discussions needed between City and applicant's traffic engineer to verify no issues of CVG traffic at their driveway and traffic associated with the Senior Living component at site drive 8.
 - CM Response: Field observations showed minimal use of the CVG driveway and minimal traffic is expected to utilize Site Access 5 for the senior living facility based on the trip generation analysis. Thus, no operational issues are expected.
- The Study notes this 'development is not expected to add significant school peak hour traffic to the surrounding area...' If solely the residential units are considered we concur. However, the relationship between the City Schools and the proposed Recreational Community Center (or small-scale mixed-use space) is not known. Further discussion advised to determine if additional traffic assessment is needed.
 - CM Response: Noted. CM is open to further discussions, if necessary.
- Presently, the posted speed limit on NA Condit Road north of Walton Parkway is 45 MPH and is 35 MPH to the south of Walton Parkway. With the addition of driveways along NA Condit Road, this may represent a change in character of the roadway. This indicates the City may want to consider an assessment of the existing speed limit north of Walton Parkway.
 - CM Response: Noted. Discussion in the report regarding this potential change is included.



NMD Mixed-Use Development Traffic Impact Study

Prepared for: NoNA Master Development, LLC

June 10, 2021



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I. Executive Summary

Carpenter Marty Transportation was retained to complete a traffic impact study (TIS) for a proposed mixed-use development located along Central College Road, New Albany-Condit Road, and New Albany Road E. in New Albany, Ohio. The TIS evaluates all of the proposed site access points as well as the four, signalized intersections surrounding the proposed site. The development is expected to have an Opening Year of 2022.

The analysis finds the following turn lanes are warranted:

- 225' northbound left turn lane at the New Albany-Condit Road & Site Drive 3/Site Drive 4 intersection
- 225' southbound left turn lane at the New Albany-Condit Road & Site Drive 3/Site Drive 4 intersection
- 225' northbound left turn lane at the New Albany-Condit Road & Site Drive 5/Snider Loop intersection
- 225' southbound left turn lane at the New Albany-Condit Road & Site Drive 5/Snider Loop intersection
- 125' westbound left turn lane at the Central College Road & Discover Complex Access/Site Access 2 intersection

All turn lane improvements are Build improvements and are inclusive of a 50' diverging taper.

The analysis shows that all signalized intersections surrounding the proposed development have sufficient capacity for No Build and Build traffic volumes evaluated in this TIS with the exception of the New Albany-Condit Road & Central College Road intersection. This intersection requires the installation of a northbound right turn lane in the Horizon Year Build condition. The turn lane has a calculated length of 320' inclusive of a 50' diverging taper. This improvement is recommended with or without the proposed development.

There are surrounding area concerns regarding traffic during the afternoon peak of school departure. This occurs for a 15 to 30-minute period south along New Albany-Condit Road / N. High Street near Chatham Greene Drive and into the downtown area in the early afternoon. The developer has agreed to work with the City of New Albany on potential solutions to these existing issues. However, it should be noted that the proposed development is not expected to add significant school peak hour traffic to the surrounding area and the majority of site generated traffic will be expected during typical roadway AM and PM peak hours. Carpenter Marty Transportation completed field observations during school peak hours and determined that there was no definitive evidence that the traffic generated by New Albany Schools affects delay times at Snider Loop in either the morning or the afternoon.



II. Purpose of Report & Study Objectives

The purpose of this traffic analysis and report is to document the potential traffic impacts of the proposed mixed-use development located in the southwest corner of the intersection of Central College Road & New Albany-Condit Road in New Albany, Ohio. This analysis and report are being required by the City of New Albany as part of the development approval process.

III. Proposed Development

A. Off-Site Developments

The study area is bounded by Central College Road to the north, New Albany-Condit Road to the east, Walton Parkway to the south, and New Albany Road E. to the west. The surrounding area includes restaurants and retail development to the west, office buildings to the north and south, and residential development to the east.

B. On-Site Development

Location

The majority of the site is located on the south side of Central College Road and the west side of New Albany-Condit Road. A small portion of the site is located on the east side of New Albany-Condit Road. **Figure 1** shows the location of the proposed site in central Ohio and **Figure 2** shows the study area.

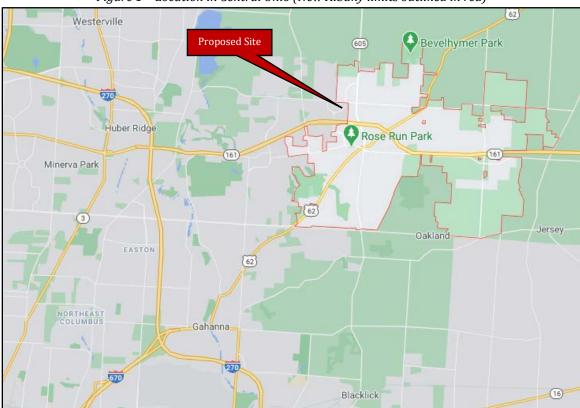


Figure 1 – Location in Central Ohio (New Albany limits outlined in red)



Discover Complex Central College Road **Proposed Site** Snider Loop Walton Parkway

Figure 2 – Location of the Proposed Development (Yellow), Site Drives, and Study Intersections

Land Use & Intensity

The site is currently developed with several single-family homes. The site is proposed to develop as a mixed-use site with the following land uses and sizes:

- 12 single family units
- 51 townhomes
- 280 multifamily housing units
- 25 cottage homes
- 14,500 SF of retail
- 125 senior adult housing units (attached)
- 3 quick serve, micro restaurants
- 8.47 acres of public park



Five access points are proposed for the development:

- One existing right-in, right-out access on New Albany Road E. just south of the intersection with Central College Road
- One full access aligned with the existing Discover Complex Access intersection on Central College Road
- Two full access points on New Albany-Condit Road
 - o One tying into the existing intersection with Snider Loop
 - One located between Central College Road and Snider Loop (accessing the development on both sides of New Albany-Condit Road)

The site plan is provided in **Appendix A.**

IV. Area Conditions

A. Area of Influence

The study intersections for the proposed development are listed below. Numbers correspond to **Figure 2**.

- 1. New Albany Road E. & Walton Parkway
- 2. New Albany Road E. & Site Access 1
- 3. New Albany Road E. & Central College Road
- 4. Central College Road & Discover Complex Access/Site Access 2
- 5. New Albany-Condit Road & Central College Road
- 6. New Albany-Condit Road & Walton Parkway
- 7. New Albany-Condit Road & Site Access 3/Site Access 4
- 8. New Albany-Condit Road & Site Access 5/Snider Loop

B. Jurisdictions

The proposed site and most of the intersections are under City of New Albany jurisdiction. The exceptions are the intersections at New Albany Road E. & Walton Parkway and New Albany Road E. & Site Access 1 which are under City of Columbus jurisdiction.

C. Traffic Volumes & Conditions

AM and PM peak hour turning movement counts were collected or obtained for the following study intersections from previously completed traffic studies in New Albany or online resources (year of data collection shown in parentheses):

- New Albany Road E. & Walton Parkway (2017)
- New Albany Road E. & Central College Road (2019)
- New Albany-Condit Road & Central College Road (2019)
- New Albany-Condit Road & Walton Parkway (2020)

Due to impacts to traffic volumes and patterns caused by the COVID-19 pandemic, the above pre-pandemic traffic counts were utilized for this TIS in lieu of newly collected data. All count data can be found in **Appendix B**.



V. Projected Traffic

A. Background Traffic

For analysis, the Opening Year of the development is 2022 and the Design, or Horizon Year, is 2032. In order to project the count data to the Opening and Horizon Years, linear, annual growth rates from various sources were used. The Mid-Ohio Regional Planning Commission (MORPC) provided annual, linear growth rates for the intersection of New Albany-Condit Road and Central College Road for a previously completed traffic access study. All other growth rates were derived from a City of New Albany Transportation study completed by Carpenter Marty Transportation and were calculated based on the comparison of 2020 ADT count data to 2050 MORPC ADT data provided by the City of New Albany. **Table 1** below shows the growth rates utilized in the TIS.

Location **Linear Annual Growth Rate** New Albany Road E. e/o Walton Parkway 1.3% New Albany Road E. w/o Walton Parkway 1.3% Walton Parkway s/o New Albany Road E. 3.0% Central College Road e/o New Albany Road E. 1.3% Central College Road w/o New Albany Road E. 1.1% New Albany Road E. n/o Central College Road 1.3% New Albany Road E. s/o Central College Road 1.3% Central College Road e/o New Albany-Condit Road 1.3% Central College Road w/o New Albany-Condit Road 1.1% New Albany-Condit Road n/o Central College Road 1.7% New Albany-Condit Road s/o Central College Road 1.3% Walton Parkway e/o New Albany-Condit Road 3.0% Walton Parkway w/o New Albany-Condit Road 3.0% New Albany-Condit Road n/o Walton Parkway 1.2% New Albany-Condit Road s/o Walton Parkway 1.8%

Table 1 - Growth Rates

Growth rates were applied to the count data to develop Background traffic for the Opening and Horizon Years. All growth rate data can be found in **Appendix B.**

B. Site Traffic

Trip Generation

Trips for the proposed site development were generated using ITE practices and the *Trip Generation Manual*, 10^{th} edition, via the OTISS program¹. Land use codes (*LUC*) 210 – *Single-Family Detached Housing*, 220 – *Multifamily Housing (Low-Rise)*, 820 – *Shopping Center*, 926 – *Food Cart Pod*, 411- *Public Park*, and 252 – *Senior Adult Housing* were used to generate trips for the proposed development. ITE recommended internal capture and pass-by rates were applied. **Table 2** shows a summary of the trip generation for the proposed development. The full trip generation details can be found in **Appendix C.**

¹ Online Traffic Impact Study Software developed by ITE and Transoft Solutions.



Table 2 - Proposed Site Trip Generation Summary

| Landlia | C: | AM I | Peak | PM I | Peak |
|---------------------------------------|--------------|-------|------|-------|------|
| Land Use | Size | Entry | Exit | Entry | Exit |
| 210 - Single-Family Detached Housing | | 8 | 23 | 25 | 14 |
| Internal | 37 Dwelling | 0 | 1 | 4 | 2 |
| Pass-By | Units | 0 | 0 | 0 | 0 |
| Non-Pass-By | | 8 | 22 | 21 | 16 |
| 220 - Multifamily Housing (Low-Rise) | | 34 | 115 | 108 | 63 |
| Internal | 331 Dwelling | 0 | 5 | 6 | 2 |
| Pass-By | Units | 0 | 0 | 0 | 0 |
| Non-Pass-By | | 34 | 110 | 102 | 61 |
| 820 - Shopping Center | | 99 | 60 | 62 | 68 |
| Internal | 14450 CE | 7 | 0 | 11 | 18 |
| Pass-By | 14,450 SF | 0 | 0 | 17 | 17 |
| Non-Pass-By | | 92 | 60 | 34 | 33 |
| 926 - Food Cart Pod | | 0 | 0 | 7 | 7 |
| Internal | 2 : | 0 | 0 | 2 | 4 |
| Pass-By | 3 units | 0 | 0 | 0 | 0 |
| Non-Pass-By | | 0 | 0 | 5 | 3 |
| 411- Public Park | | 0 | 0 | 13 | 10 |
| Internal | 7 500 65 | 0 | 0 | 4 | 2 |
| Pass-By | 7,500 SF | 0 | 0 | 0 | 0 |
| Non-Pass-By | | 0 | 0 | 9 | 8 |
| 252 - Senior Adult Housing - Attached | | 9 | 16 | 18 | 15 |
| Internal | 125 Dwelling | 0 | 1 | 3 | 2 |
| Pass-By | Units | 0 | 0 | 0 | 0 |
| Non-Pass-By | | 9 | 15 | 15 | 13 |
| | TOTAL | 150 | 214 | 233 | 177 |
| | Internal | 7 | 7 | 30 | 30 |
| | Pass-By | 0 | 0 | 17 | 17 |
| | Non-Pass-By | 143 | 207 | 186 | 130 |

The proposed development has two access points, Site Accesses 2 and 5, which will be directly aligned with existing developments. Trips were generated for said existing developments as count data was not available for them. The developments include the Discover Complex office building located north of Central College Road between New Albany Road E. and New Albany-Condit Road and the single-family home development located off Snider Loop. The City of New Albany has indicated that the Discover Complex Office is expected to be redeveloped in the future which will require its own traffic impact study. However, trips were still applied to the access to account for existing traffic generated by the site and produce conservative results. *LUC 710 – General Office Building* and *210 – Single-Family Detached Housing* were used to generate trips for the developments. It was assumed that 25% of the Discover Complex office building traffic utilizes the Central College Road access opposite of Site Access 2. It should also be noted that trips for these developments were only applied to their respective access points as the trips are already represented in the count data utilized for the study.



Table 3 below summarizes the trip generation for the above-described background developments. Existing development trip generation details can be found in **Appendix C.**

Table 3 - Background Development Trip Generation Summary

| Land Use | Size | AM I | Peak | PM I | Peak |
|--------------------------------------|-------------------|-------|------|-------|------|
| Land USE | Size | Entry | Exit | Entry | Exit |
| 710 - General Office Building | 333,200 SF | 292 | 48 | 57 | 300 |
| 210 - Single-Family Detached Housing | 50 Dwelling Units | 10 | 30 | 33 | 19 |

Existing development traffic was added to Background traffic to produce No Build traffic. Site traffic was distributed to/from the site based on count data, existing traffic patterns in the area, and proximity to other land uses and major roadways/state routes. Site traffic was added to the No Build traffic to produce Build traffic for the Opening and Horizon Years. The full volume calculations can be found in **Appendix D**.

VI. Traffic Analysis

A. Turn Lane Warrant Analysis

Turn lane warrant analysis was conducted at all unsignalized intersections using standard ODOT turn lane warrant graphs. If a turn lane was warranted in any particular scenario, the length was calculated using methodologies in the ODOT Location and Design (L&D) Manual and the turn lane was included in the capacity analysis for Build scenarios, as described further in this report.

B. Capacity Analysis

The HCM 6th Edition module of Synchro Version 10 software was used to analyze capacity at all study intersections. LOS of D and E are typical for urbanized areas with high volumes of traffic where LOS of A, B, and C are more typical for lower volume, less dense areas. A minimum LOS of D for the overall intersection/approaches and LOS E for each individual movement during peak traffic hours is considered acceptable at each intersection based on both City of New Albany and City of Columbus criteria. If an intersection fell below these criteria, mitigation strategies were developed to bring each movement or intersection back to an acceptable LOS. **Table 4** below summarizes LOS/delay criteria for unsignalized and signalized intersections.

Table 4 – LOS Criteria

| LOS | Signalized Intersection Delay (sec) | Unsignalized Intersection Delay (sec) |
|-----|-------------------------------------|---------------------------------------|
| A | ≤ 10 | ≤ 10 |
| В | > 10 - 20 | > 10 - 15 |
| С | > 20 - 35 | > 15 - 25 |
| D | > 35 - 55 | > 25 - 35 |
| E | > 55 - 80 | > 35 - 50 |
| F | > 80 | > 50 |



C. Queuing Analysis

The SimTraffic module of Synchro 11 was used to perform queuing analysis at all intersections. Queuing analysis results are based on an average of five simulation runs. If queuing issues were present, mitigation strategies were developed to reduce queuing.

D. Field Observations

Field observations were conducted between 7:20-8:00 AM and 2:00-3:00 PM on May 27, 2021 at the intersection of New Albany-Condit Road & Snider Loop based on school peak arrival/exit times based on comment/feedback from surrounding area residents. Observations recorded included the delay of left turning vehicles, the length of queues formed on both roads, and vehicles turning into the Commercial Vehicle Group (CVG) drive just south of the intersection to determine if the traffic generated by New Albany High School negatively impacted drivers attempting to pull in and out of Snider Loop.

VII. Results

A. Turn Lane Warrant Analysis

The below list summarizes the turn lanes which meet warrants at the various unsignalized study intersections. All turn lane lengths are inclusive of a 50' diverging taper. The full turn lane warrant analysis can be found in **Appendix E**.

- Central College Road & Discover Complex Access/Site Drive 2 125' westbound left
- New Albany-Condit Road & Site Access 3/Site Access 4 225' northbound left and 225' southbound left
- New Albany-Condit Road & Site Access 5/Snider Loop 225' northbound left and 225' southbound left

B. Capacity Analysis

Results of the capacity analysis can be seen in **Table 5**. Baseline capacity analysis utilizes planning-level signal timings and assumes all warranted turn lanes are installed. The full capacity analysis can be found in **Appendix F**.



Table 5 – Baseline Capacity Analysis Summary

| | Approach | | Openir | ıg Year | | | Horizo | on Year | |
|--|----------|----------|--------|----------|--------|----------|--------|----------|--------|
| Intersection | or | AM | AM | PM | PM | AM | AM | PM | PM |
| | Movement | No Build | Build |
| C42# N A 11 | EB | B/11.0 | B/11.2 | C/21.3 | C/22.7 | B/11.6 | B/11.1 | C/23.4 | C/24.0 |
| (1)* New Albany | WB | A/7.8 | A/8.0 | C/22.1 | C/23.3 | A/7.8 | A/7.4 | C/24.4 | C/24.8 |
| Road E. & Walton Parkway | NB | C/28.0 | C/28.3 | C/21.6 | B/20.8 | C/29.7 | C/31.0 | C/25.2 | C/25.5 |
| Signalized | SB | C/26.4 | C/26.4 | B/13.1 | B/12.6 | C/27.3 | C/28.1 | B/12.6 | B/12.6 |
| Signanzeu | TOTAL | B/11.1 | B/11.4 | C/21.3 | C/22.1 | B/11.7 | B/11.4 | C/23.8 | C/24.3 |
| (2) New Albany Road E. & Site Access 1 Unsignalized | WBR | | A/9.9 | | A/9.4 | | B/10.2 | | A/9.5 |
| (3) New Albany | EB | D/38.3 | D/38.9 | D/37.2 | D/37.9 | D/39.2 | D/39.9 | D/37.7 | D/38.4 |
| Road E. & Central | WB | D/42.2 | D/42.1 | D/39.7 | D/40.0 | D/43.2 | D/42.8 | D/41.0 | D/40.5 |
| College Road | NB | B/12.1 | B/12.6 | B/12.1 | B/12.4 | B/13.0 | B/13.6 | B/12.8 | B/13.1 |
| Signalized | SB | B/10.7 | B/11.6 | B/12.7 | B/13.3 | B/11.4 | B/12.4 | B/13.8 | B/14.5 |
| | TOTAL | C/20.8 | C/21.8 | C/21.1 | C/21.9 | C/21.6 | C/22.7 | C/22.1 | C/22.7 |
| (4) Central | EBL | A/8.3 | A/8.3 | A/8.3 | A/8.3 | A/8.4 | A/8.4 | A/8.5 | A/8.5 |
| College Road & | WBL | | A/8.1 | | A/8.5 | | A/8.2 | | A/8.6 |
| Discover Complex | NB | | C/17.0 | | C/18.6 | | C/17.9 | | C/20.6 |
| Access/Site Access 2 Unsignalized | SB | B/11.9 | C/15.3 | B/12.8 | C/16.1 | B/12.3 | C/16.0 | B/13.8 | C/17.7 |
| (5) New Albany- | EB | C/27.0 | C/27.5 | C/34.7 | D/36.3 | C/27.5 | C/28.0 | D/37.9 | D/39.9 |
| Condit Road & | WB | C/29.5 | C/30.8 | C/29.6 | C/29.3 | C/31.4 | C/33.1 | C/29.8 | C/29.6 |
| Central College | NB | C/21.3 | C/23.1 | C/30.4 | D/37.6 | C/23.6 | C/25.9 | D/50.3 | E/66.4 |
| Road | SB | C/20.4 | C/20.8 | B/19.4 | C/20.8 | C/22.0 | C/22.4 | C/21.8 | C/23.1 |
| Signalized | TOTAL | C/24.3 | C/25.4 | C/29.0 | C/32.3 | C/26.0 | C/27.3 | D/37.8 | D/44.4 |
| (6) New Albany- | EB | D/39.2 | D/39.8 | D/36.2 | D/36.3 | D/42.2 | D/42.9 | D/35.3 | D/36.3 |
| Condit Road & | WB | D/40.2 | D/43.7 | C/34.8 | D/35.3 | D/44.4 | D/48.5 | C/32.4 | C/33.7 |
| Walton Parkway | NB | A/6.6 | A/7.1 | A/7.1 | A/7.4 | A/9.8 | B/10.6 | B/10.4 | B/10.9 |
| Signalized | SB | A/6.3 | A/6.9 | A/7.7 | A/8.2 | A/8.9 | A/9.7 | B/11.6 | B/12.3 |
| · · | TOTAL | B/15.4 | B/16.0 | B/16.8 | B/16.8 | B/19.3 | C/20.2 | B/19.3 | B/19.8 |
| (7) New Albany- | EB | | C/24.2 | | C/24.7 | | D/31.2 | | D/32.2 |
| Condit Road & | WB | | D/26.5 | | D/27.8 | | D/33.9 | | E/35.5 |
| Site Access 3/ | NBL | | A/9.0 | | A/8.8 | | A/9.3 | | A/9.1 |
| Site Access 4 Unsignalized | SBL | | A/8.6 | | A/9.1 | | A/8.8 | | A/9.5 |
| (8) New Albany- | EB | | C/22.7 | | C/23.4 | | D/28.0 | | D/29.1 |
| Condit Road & | WB | C/20.2 | D/28.1 | C/21.9 | D/29.9 | C/24.4 | E/36.5 | D/27.0 | E/39.1 |
| Site Access 5 / | NBL | | A/9.1 | | A/8.7 | | A/9.4 | | A/8.9 |
| Snider Loop Unsignalized | SBL | A/8.5 | A/8.6 | A/9.1 | A/9.3 | A/8.8 | A/8.9 | A/9.5 | A/9.7 |

^{*}Numbers correspond to Figure 2

As seen above in **Table 5**, all intersections operate with acceptable LOS/delay with the exception of the New Albany-Condit Road intersection with Central College Road, Site Access 3/Site Access 4, and Site Access 5/Snider Loop. The delays for the New Albany-Condit Road & Site Access 3/Site Access 4 and New Albany-Condit Road & Site Access 5/Snider Loop were considered acceptable as the delays barely exceed acceptable criteria in the Horizon Year only, V/C ratios are far below 1.0, and there is not enough side street traffic to warrant additional improvements. The westbound approach of the New Albany-Condit Road & Site Access 3/Site Access 4 intersection only exceeds acceptable LOS/delay by 0.5 seconds in the Horizon Year PM scenario. Similarly, the westbound approach of the New Albany-Condit Road & Site Access 5/Snider Loop intersection only exceeds acceptable LOS/delay by 1.5 seconds and 4.1 seconds in the Horizon Year AM and PM Build scenarios, respectively. As



noted above, these delays were considered acceptable as the delays barely exceed acceptable criteria in the Horizon Year only and V/C ratios are well below 1.0.

A signal warrant analysis and roundabout analysis were conducted at the intersection of New Albany-Condit Road & Site Access 5/Snider Loop per the request of the City of New Albany to determine the capacity benefit of either improvement. The signal warrant analysis was conducted per the Ohio Manual of Uniform Traffic Control Devices and shows that a signal does not meet warrants at the intersection. Roundabout analysis was completed using HCS 7 software and assumes a single circulating roundabout with single lane approaches. The westbound approach of the New Albany-Condit Road & Central College Road exceeds acceptable LOS/delay by 11.4 seconds and warrants mitigation through roadway improvements. While signal warrants are not anticipated to be met, **Table 6** below shows the resulting capacity analysis results with signal and roundabout improvements installed for reference.

Table 6 - - Capacity Analysis with Improvements Summary

| | Approach | | Horizo | n Year | |
|-----------------------------------|----------------|----------------|-------------|----------------|-------------|
| Intersection | or Movement | AM No Build | AM Build | PM No Build | PM Build |
| | EB | C/27.5 | C/28.0 | D/37.9 | D/39.9 |
| (5) New Albany-Condit Road & | WB | C/31.4 | C/33.1 | C/29.8 | C/29.6 |
| Central College Road | NB | C/21.9 | C/22.6 | C/28.7 | C/32.0 |
| NB Right Turn Lane Installed | SB | C/21.9 | C/22.3 | C/21.5 | C/22.8 |
| | TOTAL | C/25.4 | C/26.3 | C/29.5 | C/31.4 |
| | EB | | A/6.6 | | A/5.6 |
| (8) New Albany-Condit Road & Site | WB | A/5.6 | A/6.0 | A/6.6 | A/7.1 |
| Access 5 / Snider Loop | NB | A/7.4 | A/8.0 | B/10.2 | B/11.4 |
| Single-Lane Roundabout | SB | A/8.9 | B/10.1 | A/7.5 | A/8.2 |
| | TOTAL | A/8.1 | A/9.1 | A/9.0 | A/10.0 |
| | EB | | C/33.0 | | C/34.1 |
| (8) New Albany-Condit Road & Site | WB | D/41.9 | C/33.5 | D/52.3 | C/34.5 |
| Access 5 / Snider Loop | NB | A/0.8 | A/3.8 | A/2.7 | A/4.3 |
| Signal | SB | A/3.1 | A/4.5 | A/1.9 | A/3.1 |
| 3/141 | TOTAL | A/3.0 | A/5.1 | A/3.1 | A/4.4 |

^{*}Numbers correspond to **Figure 2**

As seen above in **Table 6**, with the addition of a northbound right turn lane at the New Albany-Condit Road & Central College Road intersection results in acceptable LOS/delay in all Horizon Year scenarios. The recommended improvement for the New Albany-Condit Road & Central College Road intersection is installation of a northbound right turn lane. The New Albany-Condit Road & Site Access 5/Snider Loop intersection also demonstrates acceptable LOS/delay in all Horizon Year scenarios as a roundabout or a signal.

C. Queuing Analysis

Horizon Year queuing analysis can be seen in **Table 7**. Average and 95th percentile queues are shown for each lane of each study intersection along with the approximate available storage space. Queues which exceed available storage space are shown in red. The full queuing analysis reports, including the Opening Year queuing analysis, can be seen in **Appendix G**.



Table 7 – Horizon Year Queuing Analysis (Average/95th Percentile)

| | | zon rear queu | | | | , | |
|--|----------|---------------|-------------------------------|---------------------|---------------------|----------------------|-------------------------|
| Intersection | Approach | Movement | Available Storage Space | AM No Build | AM Build | PM No Build | PM Build |
| | | L | 160' | 21'/71' | 21'/60' | 2'/8' | 1'/8' |
| | EB | Т | 490' | 128'/306' | 150'/395' | 76'/175' | 89'/202' |
| | LD | T/R | 410' | 267'/436' | 299'/509' | 178'/275' | 189'/311' |
| | | L | 155' | 109'/198' | 99'/189' | 29'/104' | 29'/102' |
| (1)* New Albany Road E. | WB | Т | 830' | 153'/414' | 130'/358' | 195'/311' | 197'/292' |
| & Walton Parkway | | T/R | 820' | 140'/378' | 117'/324' | 211'/331' | 214'/308' |
| ž | ND | Ĺ | 290' | 59'/108' | 66'/121' | 187'/270' | 187'/274' |
| | NB | T/R | 285' | 25'/57' | 29'/63' | 26'/59' | 23'/78' |
| | CD | L | 45' | 0'/5' | 1'/6' | 5'/24' | 3'/16' |
| | SB | T/R | 250' | 2'/13' | 2'/13' | 27'/60' | 24'/59' |
| (2) New Albany Road E. & Site Access 1 | WB | R | 300' | | 9'/32' | | 6'/26' |
| | | L | 305' | 64'/121' | 56'/104' | 47'/91' | 41'/77' |
| | EB | T | 2000' | 72'/120' | 80'/131' | 58'/105' | 65'/113' |
| | | T/R | 2000' | 54'/96' | 56'/113' | 42'/82' | 41'/88' |
| | | L | 225' | 71'/118' | 77'/123' | 98'/147' | 95'/150' |
| | WB | T | 680' | 53'/97' | 50'/97' | 62'/108' | 58'/102' |
| (3) New Albany Road E. | | T/R | 630' | 67'/119' | 71'/119' | 69'/128' | 65'/114' |
| & Central College Road | | L | 420' | 19'/47' | 19'/46' | 28'/64' | 30'/64' |
| | NB | T | 510' | 157'/227' | 167'/228' | 93'/148' | 94'/149' |
| | | R | 500' | 35'/70' | 41'/80' | 39'/73' | 43'/86' |
| | | L | 340' | 26'/60' | 30'/63' | 49'/90' | 50'/87' |
| | SB | Т | 800' | 117'/183' | 119'/192' | 148'/226' | 148'/228' |
| | | R | 690' | 15'/43' | 12'/37' | 25'/53' | 28'/57' |
| (4) Central College Road | EB | L | 245' | 1'/11' | 12'/35' | 5'/22' | 1'/10' |
| & Discover Complex | WB | L | 125' | | 6'/23' | | 11'/35' |
| Access/ | NB | L/T/R | N/A | | 45'/81' | 25/54 | 36'/75' |
| Site Drive 2 | SB | L | 150' | 7'/27' | 7'/27' | 25'/54' | 25'/57' |
| | | R | 145' | 7'/27' | 10'/34' | 23'/52' | 28'/57' |
| | ED | L T | 380' | 21'/53' | 31'/68' 91'/164' | 28'/58' | 32'/92' |
| | EB | R | 560' 560' | 77'/136' 34'/73' | 36'/80' | 148'/251' 33'/75' | 151'/257' 33'/72' |
| | | L | 335' | 52'/94' | 57'/104' | 33'/66' | 42'/79' |
| (5) New Albany-Condit | WB | T | 700' | 92'/153' | 107'/176' | 81'/148' | 86'/143' |
| Road & | VVD | T/R | 420' | 75'/140' | 78'/143' | 54'/114' | 50'/101' |
| Central College Road | | L | 320' | 60'/131' | 66'/148' | 129'/332' | 179'/ <mark>404'</mark> |
| dentral donege rioua | NB | T/R | 1020' | 135'/250' | 171'/291' | 362'/697' | 399'/633' |
| | | L | 340' | 41'/76' | 42'/77' | 37'/71' | 40'/90' |
| | SB | T | 600' | 139'/237' | 149'/251' | 127'/210' | 142'/241' |
| | | R | 420' | 15'/40' | 17'/42' | 20'/48' | 20'/46' |
| | - FD | L | 110' | 10'/53' | 9'/40' | 46'/100' | 48'/120' |
| | EB | T/R | 1950' | 111'/190' | 108'/177' | 113'/214' | 126'/249' |
| (C) N All C ' | MAD | Ĺ | 110' | 22'/63' | 23'/66' | 42'/96' | 45'/99' |
| (6) New Albany-Condit | WB | T/R | 2800' | 97'/181' | 122'/212' | 112'/196' | 116'/211' |
| Road & | ND | Ĺ | 130' | 86'/150' | 108'/170' | 48'/106' | 45'/107' |
| Walton Parkway | NB | T/R | 1650' | 109'/261' | 182'/406' | 134'/241' | 149'/262' |
| | CD | L | 340' | 55'/97' | 62'/127' | 82'/157' | 86'/158' |
| | SB | T/R | 640' | 129'/227' | 154'/279' | 112'/211' | 118'/211' |
| (7) Now Albany Condit | EB | L/T/R | N/A | | 39'/72' | | 102'/315' |
| (7) New Albany-Condit Road & Site Access 3/ | WB | L/T/R | N/A | | 13'/37' | | 13'/39' |
| Site Access 4 | NB | L | 225' | | 14'/38' | | 28'/117' |
| one needs i | SB | L | 225' | | 4'/19' | | 8'/30' |
| (8) New Albany-Condit | EB | L/T/R | N/A | | 16'/44' | | 8'/30' |
| Road & Site Access 5 / | WB | L/T/R | 360' | 21'/48' | 16'/42' | 16'/41' | 12'/41' |
| Snider Loop | NB | L | 650' | | 3'/17' | | 3'/18' |
| F | SB | L/T/R | 1050' | 2'/17' | 0'/6' | 18'/78' | 9'/31' |

^{*}Numbers correspond to **Figure 2**



As seen in **Table 7**, the majority of queue lengths are not anticipated to exceed available storage space in the Horizon Year. Queue lengths which do extend beyond available storage space are all 95th percentile queues that only exceed storage space by about 100 feet or less. No additional improvements are recommended based on the queuing analysis. **Table 8** below shows the queuing analysis results with the northbound right turn lane improvement at the New Albany-Condit Road & Central College Road intersection.

| Table 8 – Horizon Year (| Queuina Analy | sis With Improvements | (Average/95 th Percentile) |
|--------------------------|---------------|-----------------------|---------------------------------------|
| | | | |

| Intersection | Approach | Movement | Available Storage Space | AM No Build | AM Build | PM No Build | PM Build |
|---------------------------------|----------|----------|-------------------------------|----------------|-------------|----------------|-------------|
| | | L | 380' | 23'/54' | 32'/70' | 26'/58' | 33'/67' |
| | EB | T | 560' | 74'/137' | 90'/159' | 141'/245' | 157'/258' |
| | | R | 560' | 39'/83' | 37'/80' | 31'/69' | 32'/69' |
| | | L | 335' | 42'/81' | 51'/95' | 29'/64' | 37'/75' |
| (F) Nam Albania Candit | WB | T | 700' | 87'/160' | 105'/172' | 72'/133' | 82'/143' |
| (5) New Albany-Condit Road & | | T/R | 420' | 64'/131' | 74'/145' | 39'/88' | 41'/94' |
| Central College Road | | L | 320' | 61'/135' | 60'/123' | 83'/207' | 77'/195' |
| Central College Road | NB | T | 1020' | 133'/255' | 142'/253' | 220'/376' | 211'/370' |
| | | R | 320' | 11'/62' | 15'/66' | 36'/146' | 44'/162' |
| | | L | 340' | 42'/109' | 40'/78' | 35'/63' | 35'/67' |
| | SB | T | 600' | 131'/226' | 135'/228' | 129'/216' | 130'/214' |
| | | R | 420' | 15'/40' | 17'/44' | 18'/44' | 23'/50' |

D. Field Observations

During the first observation period from 7:20-8:00 AM, 13 vehicles turned left out of Snider Loop to travel southbound on New Albany-Condit Road. Of these 13 vehicles, the shortest delay was two seconds and the longest was 30 seconds. The average delay was 10.9 seconds. There was also one vehicle turning right to travel northbound on New Albany-Condit Road which had a delay of 13 seconds. Throughout the observation period, no significant southbound queue formed at the intersection of New Albany-Condit Road and Walton Parkway that would impede vehicles turning left from Snider Loop. No vehicles were recorded to be turning into the CVG drive.

During the second observation period, from 2:00-3:00 PM, five vehicles turned left out of Snider Loop to travel southbound on New Albany-Condit Road. Of these five vehicles, the shortest delay was three seconds and the longest was 20 seconds. The average delay was 9.2 seconds. There was also one southbound vehicle turning left into Snider Loop that had a delay of three seconds. One vehicle turned into the CVG drive but immediately turned around as the vehicle seemed to have meant to turn into the house immediately north of the CVG drive. Other occurrences of note include the fleet of approximately 10 northbound school buses passing the intersection at 2:30 PM, a garbage truck stopping to pick up trash and traveling southbound at 2:40 PM, and two vehicles utilizing Snider Loop provide to complete U-turns to return northbound along New Albany Condit-Road.

Overall, observations did not show definitive evidence that the traffic generated by New Albany Schools affects delay times at Snider Loop in neither the morning nor the afternoon. Field notes from the observations can be found in **Appendix H**.



VIII. Recommendations and Conclusions

Based on the results of the turn lane warrant analysis, it is recommended that a 125' westbound left turn lane be installed at the Central College Road & Discover Complex Access/Site Drive 2 intersection. There is sufficient roadway width at this location and the improvement can be installed by restriping the existing pavement. It is recommended that 225' northbound and southbound left turn lanes be installed at the New Albany-Condit Road & Site Access 3/Site Access 4 intersection. It is also recommended that a 225' northbound and southbound left turn lanes be installed at the New Albany-Condit Road & Site Access 5/Snider Loop intersection. Due to the proximity of the proposed access points and recommended turn lanes along New Albany-Condit Road, it may be necessary to install a two-way left turn lane in lieu of dedicated turn lanes in certain locations. This is expected to be determined during the design process. All turn lane lengths described above are inclusive of a 50' diverging taper.

It should be noted that there are ongoing discussions between the City of New Albany and the developer regarding a change of the roadway classification of New Albany-Condit Road and a potential reduction in speed limit due to the number of existing and proposed site development access points. Reducing the speed limit and design speed of the roadway would reduce the required lengths of the warranted turn lanes described above. It is recommended that the required turn lane lengths be reevaluated if a speed limit reduction is implemented. The above-described turn lanes are all Build improvements that will be the responsibility of the developer.

Based on the results of the capacity and queuing analysis, it is recommended that a northbound right turn lane be installed at the New Albany-Condit Road & Central College Road intersection. This is expected to alleviate unacceptable LOS/delay in the Horizon Year PM Build scenario and decrease northbound queues at the intersection. The calculated length of said turn lane is 320' inclusive of a 50' diverging taper. However, based on the queuing analysis, a shorter turn lane length may be sufficient for the intersection. The longest, average queue length for the northbound through lane with the right turn lane installed in the Horizon Year is 220'. Therefore, a turn lane length of 270', inclusive of a 50' diverging taper, is recommended to accommodate right turning vehicles with minimal through-queue blockage. This is considered a Build improvement based on the results of the analysis. However, the proposed development adds only a small number of vehicles to this turning movement. Development traffic represents 12.7% of the total right turning traffic for this movement in the Horizon Year PM Build scenario. Additionally, the shared northbound through-right lane is LOS E in the Horizon Year PM No Build condition with a V/C ratio of 1.0 which shows the lane is at capacity in the No Build condition. Acceptable LOS can be achieved by reducing the minimum green times for the eastbound/westbound approaches in lieu of a right turn lane installation. However, a right turn installation is expected to have a long-term benefit for the intersection and is recommended with or without the proposed development. No additional improvements are required or recommended based on the capacity and queuing analysis.



Based on the analysis herein, along with field observations, no improvements are recommended at the intersection of New Albany-Condit Road & Site Access 5/Snider Loop. Capacity analysis shows delays barely exceed acceptable thresholds in the Horizon Year only and V/C ratios are far below 1.0. Additionally, field observations show that the westbound approach of the intersection acts as de facto, separate left and right turn lanes for traffic turning onto New Albany-Condit Road. Thus, the results of the analysis in this study are expected to be conservative when compared to real-world operations. Lastly, a signal is not expected to meet warrants at the intersection and a roundabout does not provide significant capacity benefit relative to the cost and impacts of installing the improvement.

IX. Appendices

Appendix A – Site Plan

Appendix B - Count Data and Growth Rate Data

Appendix C – Trip Generation

Appendix D - Volume Calculations

Appendix E – Turn Lane Warrant Analysis

Appendix F – Capacity Analysis & Signal Warrant Analysis

Appendix G – Queuing Analysis

Appendix H – Field Observations Notes

Appendix A Site Plan





NORTH NEW ALBANY



Appendix B Count Data & Growth Rate Data



E.P. Ferris & Associates, Inc. 880 King Ave Columbus, Ohio, United States 43212 614-299-2999 wsiegel@epferris.com

| | | Int. Total | 189 | 202 | 218 | 262 | 871 | 228 | 226 | 200 | 191 | 845 | 294 | 223 | 192 | 222 | 931 | 183 | 189 | 204 | 218 | 794 | 257 | 242 | 291 | 569 | 1059 | 349 | 374 | 449 | 379 | 1551 | 482 | 467 | 449 | 390 | 1788 | 392 | 285 | 275 | 205 | 1157 | 220 |
|-----------------------|------------------------------|------------|----------|----------|----------|----------|--------------|----------|----------|----------|----------|--------------|---------|---------|---------|---------|--------------|---------|---------|---------|---------|--------------|---------|---------|---------|---------|--------------|---------|---------|---------|---------|--------------|---------|---------|---------|---------|--------------|---------|---------|---------|---------|--------------|---------|
| | | App. Total | 26 | 52 | 53 | 78 | 239 | 28 | 81 | 69 | 62 | 260 | 72 | 73 | 22 | 20 | 272 | 47 | 50 | 54 | 61 | 212 | 51 | 72 | 64 | 92 | 263 | 93 | 96 | 117 | 115 | 421 | 123 | 103 | 107 | 86 | 431 | 107 | 86 | 85 | 54 | 332 | 89 |
| | Ф | U-Turn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Central College Eastbound | Left | 11 | 2 | 2 | 11 | 59 | 9 | 12 | 10 | 8 | 36 | 8 | 13 | 9 | 5 | 32 | 9 | 5 | 3 | 9 | 20 | 8 | 9 | 2 | 5 | 24 | 12 | 2 | 1 | 9 | 34 | 10 | 12 | 13 | 10 | 45 | 8 | 8 | 8 | 2 | 56 | 9 |
| | ŏ | Thru | 27 | 32 | 33 | 38 | 130 | 36 | 20 | 27 | 23 | 136 | 44 | 41 | 33 | 42 | 160 | 28 | 27 | 34 | 40 | 129 | 27 | 40 | 38 | 48 | 153 | 20 | 47 | 61 | 74 | 232 | 20 | 59 | 63 | 69 | 261 | 70 | 58 | 55 | 41 | 224 | 45 |
| | | Right | 18 | 15 | 18 | 29 | 80 | 16 | 19 | 22 | 31 | 88 | 20 | 19 | 18 | 23 | 80 | 13 | 18 | 17 | 15 | 63 | 16 | 56 | 21 | 23 | 86 | 31 | 44 | 45 | 35 | 155 | 43 | 32 | 31 | 19 | 125 | 29 | 20 | 22 | 11 | 82 | 17 |
| | | App. Total | 65 | 09 | 58 | 86 | 269 | 92 | 65 | 62 | 56 | 259 | 79 | 68 | 90 | 69 | 276 | 58 | 53 | 67 | 57 | 235 | 92 | 98 | 118 | 87 | 386 | 123 | 128 | 132 | 136 | 519 | 175 | 191 | 175 | 148 | 689 | 121 | 80 | 77 | 99 | 344 | 99 |
| | | U-Tum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 605 Northbound | Left | 21 | 16 | 14 | 31 | 82 | 25 | 23 | 24 | 16 | 88 | 23 | 26 | 22 | 25 | 96 | 10 | 12 | 12 | 13 | 47 | 25 | 13 | 56 | 25 | 88 | 20 | 23 | 16 | 27 | 98 | 32 | 39 | 37 | 23 | 131 | 27 | 17 | 18 | 18 | 80 | 16 |
| ata | | Thru | 33 | 33 | 38 | 44 | 148 | 38 | 32 | 26 | 32 | 128 | 47 | 36 | 29 | 38 | 150 | 39 | 33 | 46 | 36 | 154 | 22 | 63 | 89 | 20 | 236 | 98 | 98 | 96 | 91 | 359 | 126 | 134 | 115 | 107 | 482 | 77 | 53 | 47 | 44 | 221 | 40 |
| ent Da | | Right | 11 | 11 | 9 | 11 | 39 | 13 | 10 | 12 | 8 | 43 | 6 | 9 | 6 | 9 | 30 | 6 | 8 | 6 | 8 | 34 | 15 | 10 | 24 | 12 | 61 | 17 | 19 | 20 | 18 | 74 | 17 | 18 | 23 | 18 | 92 | 17 | 10 | 12 | 4 | 43 | 10 |
| Turning Movement Data | | App. Total | 29 | 44 | 52 | 53 | 178 | 56 | 39 | 41 | 44 | 180 | 94 | 48 | 38 | 43 | 223 | 35 | 34 | 40 | 38 | 147 | 58 | 33 | 44 | 52 | 187 | 53 | 46 | 52 | 50 | 201 | 78 | 87 | 70 | 64 | 299 | 62 | 63 | 49 | 48 | 222 | 42 |
| rning | Φ. | U-Turn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | 0 |
| υ L | entral Colleg Westbound | Left | 12 | 8 | 13 | 11 | 44 | 13 | 8 | 7 | 4 | 32 | 12 | 13 | 6 | 12 | 46 | 8 | 9 | 10 | 12 | 36 | 17 | 14 | 13 | 10 | 25 | 3 | 6 | 10 | 6 | 31 | 14 | 7 | 8 | 13 | 42 | 10 | 13 | 6 | 6 | 41 | 10 |
| | 0 | Thru | 17 | 28 | 36 | 38 | 119 | 38 | 26 | 28 | 37 | 129 | 30 | 29 | 28 | 24 | 111 | 24 | 24 | 29 | 23 | 100 | 37 | 15 | 24 | 32 | 108 | 41 | 35 | 33 | 25 | 134 | 49 | 52 | 37 | 33 | 171 | 43 | 39 | 34 | 31 | 147 | 29 |
| | | Right | 0 | 8 | 3 | 4 | 15 | 2 | 2 | 9 | 3 | 19 | 52 | 9 | 1 | 7 | 99 | 3 | 4 | 1 | 3 | 11 | 4 | 4 | 7 | 10 | 25 | 6 | 2 | 6 | 16 | 36 | 15 | 28 | 25 | 18 | 98 | 6 | 11 | 9 | 7 | 33 | 3 |
| | | App. Total | 39 | 46 | 22 | 45 | 185 | 38 | 41 | 38 | 29 | 146 | 49 | 34 | 37 | 40 | 160 | 43 | 52 | 43 | 62 | 200 | 53 | 51 | 65 | 54 | 223 | 80 | 104 | 148 | 78 | 410 | 106 | 98 | 26 | 80 | 369 | 102 | 26 | 64 | 37 | 259 | 4 |
| | _ | U-Tum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 605 Southbound | Left | 2 | 7 | 4 | 3 | 16 | 5 | 2 | 2 | 1 | 10 | 4 | 3 | 3 | 9 | 16 | 4 | 5 | 1 | 9 | 16 | 3 | က | 9 | 9 | 18 | 13 | 18 | 23 | 12 | 99 | 6 | 10 | 14 | 17 | 20 | 13 | 4 | 10 | 2 | 29 | 2 |
| | | Thru | 30 | 34 | 43 | 34 | 141 | 25 | 34 | 30 | 22 | 111 | 33 | 24 | 31 | 28 | 116 | 28 | 41 | 34 | 45 | 148 | 42 | 39 | 47 | 39 | 167 | 22 | 75 | 108 | 09 | 300 | 85 | 63 | 69 | 55 | 272 | 75 | 46 | 46 | 28 | 195 | 29 |
| | | Right | 7 | 2 | 80 | 8 | 28 | 8 | 2 | 9 | 9 | 25 | 12 | 7 | 3 | 9 | 28 | 11 | 9 | 8 | 11 | 36 | 8 | 6 | 12 | 6 | 38 | 10 | 1 | 17 | 9 | 44 | 12 | 13 | 14 | 80 | 47 | 14 | 9 | 8 | 7 | 35 | 10 |
| | ļ | Start Time | 11:05 AM | 11:20 AM | 11:35 AM | 11:50 AM | Hourly Total | 12:05 PM | 12:20 PM | 12:35 PM | 12:50 PM | Hourly Total | 1:05 PM | 1:20 PM | 1:35 PM | 1:50 PM | Hourly Total | 2:05 PM | 2:20 PM | 2:35 PM | 2:50 PM | Hourly Total | 3:05 PM | 3:20 PM | 3:35 PM | 3:50 PM | Hourly Total | 4:05 PM | 4:20 PM | 4:35 PM | 4:50 PM | Hourly Total | 5:05 PM | 5:20 PM | 5:35 PM | 5:50 PM | Hourly Total | 6:05 PM | 6:20 PM | 6:35 PM | 6:50 PM | Hourly Total | 7:05 PM |
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| 3 | 24 | 5 | 36 | 27 | 19 | 16 | 24 | 98 | 20 | 11 | 17 | 6 | 22 | 6 | 2 | 5 | 2 | 18 | 2 | 4 | 4 | 2 | 12 | 3 | 0 | - | 2 | 9 | - | - | 0 | 0 | 2 0 | ٠ ٥ | - 0 | 0 | 1 | 1 | 0 | 2 | 1 | 4 | 0 | 1 | 7 | 9 | 14 | 9 | 7 | 7 |
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| 8 | 37 | 5 8 | 36 | 124 | 30 | 34 | 20 | 111 | 23 | 15 | 6 | 15 | 62 | 17 | 10 | 9 | 7 | 40 | 7 | 6 | 4 | 2 | 22 | 3 | - | 2 | 3 | 6 | - | 2 | - | 2 | 9 | | > - | 0 | 1 | 0 | 0 | 4 | 0 | 4 | 5 | 4 | 9 | 9 | 21 | 6 | 15 | 24 |
| | 10 | 1 2 | , | 35 | <u>2</u> m | 2 | 4 | 25 | 2 | 4 | 4 | 2 | 18 | 6 | - | 4 | - | 15 | - | - | 0 | 4 | 9 | 1 | 0 | 0 | 0 | _ | 0 | 0 | - | 0 | - 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | 0 | 0 | - |
| , r | 7.35 PM | | 7:50 PM | BOE DM | 8:20 PM | 8:35 PM | 8:50 PM | Hourly Total | 9:05 PM | 9:20 PM | 9:35 PM | 9:50 PM | Hourly Total | 10:05 PM | 10:20 PM | 10:35 PM | 10:50 PM | Hourly Total | 11:05 PM | 11:20 PM | 11:35 PM | 11:50 PM | Hourly Total | 12:05 AM | 12:20 AM | | O 12:50 AM | Hourly Total | 1:05 AM | 1:20 AM | 1:35 AM | 1:50 AM | Hourly Total | 2:05 AM | 2:35 AM | 2:50 AM | Hourly Total | 3:05 AM | 3:20 AM | 3:35 AM | 3:50 AM | Hourly Total | 4:05 AM | 4:20 AM | 4:35 AM | 4:50 AM | Hourly Total | 5:05 AM | 5:20 AM | 5:35 AM |

| 80 | 236 | 80 | 119 | 160 | 232 | 591 | 263 | 337 | 441 | 437 | 1478 | 380 | 352 | 322 | 310 | 1364 | 254 | 194 | 143 | 175 | 992 | 135 | 176 | 167 | 195 | 673 | 9 | 16378 | | | 16062 | 98.1 | 316 | 1.9 |
|---------|--------------|---------|---------|---------|---------|--------------|---------|---------|---------|---------|--------------|---------|---------|---------|---------|--------------|---------|---------|---------|---------|--------------|----------|----------|----------|----------|--------------|----------|-------------|------------|---------|--------|----------|----------------|------------------|
| 10 | 43 | 5 | 17 | 23 | 37 | 82 | 20 | 48 | 29 | 78 | 243 | 72 | 67 | 65 | 69 | 273 | 71 | 44 | 36 | 32 | 183 | 27 | 42 | 49 | 38 | 156 | 1 | 4049 | | 24.7 | 3988 | 98.5 | 61 | 1.5 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0 | | 0 | |
| e | 12 | 1 | 1 | 3 | 7 | 12 | 9 | 4 | 6 | 12 | 31 | 7 | 9 | 8 | 11 | 32 | 10 | 6 | 9 | 9 | 31 | 1 | 2 | 8 | 5 | 19 | 0 | 438 | 10.8 | 2.7 | 425 | 97.0 | 13 | 3.0 |
| 4 | 17 | 4 | 2 | 10 | 15 | 34 | 23 | 22 | 34 | 31 | 110 | 37 | 29 | 33 | 33 | 132 | 32 | 25 | 17 | 19 | 93 | 14 | 24 | 25 | 21 | 84 | 0 | 2334 | 97.6 | 14.3 | 2314 | 99.1 | 20 | 6:0 |
| e | 14 | 0 | 11 | 10 | 15 | 36 | 21 | 22 | 24 | 35 | 102 | 28 | 32 | 24 | 25 | 109 | 29 | 10 | 13 | 7 | 29 | 12 | 13 | 16 | 12 | 53 | 1 | 1277 | 31.5 | 7.8 | 1249 | 97.8 | 28 | 2.2 |
| 19 | 51 | 25 | 38 | 41 | 73 | 177 | 75 | 98 | 148 | 127 | 448 | 120 | 66 | 98 | 108 | 413 | 77 | 72 | 46 | 52 | 247 | 43 | 53 | 52 | 68 | 216 | 2 | 5165 | - | 31.5 | 5064 | 98.0 | 101 | 2.0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0 | | 0 | |
| 7 | 16 | 3 | 13 | 6 | 23 | 48 | 19 | 37 | 41 | 31 | 128 | 34 | 21 | 30 | 30 | 115 | 19 | 20 | 16 | 10 | 65 | 11 | 16 | 14 | 17 | 58 | 2 | 1275 | 24.7 | 7.8 | 1256 | 98.5 | 19 | 1.5 |
| 6 | 31 | 21 | 21 | 29 | 48 | 119 | 54 | 61 | 103 | 87 | 305 | 78 | 74 | 48 | 89 | 268 | 46 | 39 | 25 | 36 | 146 | 27 | 30 | 29 | 39 | 125 | 0 | 3239 | 62.7 | 19.8 | 3159 | 97.5 | 80 | 2.5 |
| е | 4 | - | 4 | 3 | 2 | 10 | 2 | 0 | 4 | 6 | 15 | 8 | 4 | 8 | 10 | 30 | 12 | 13 | 5 | 9 | 36 | 2 | 7 | 6 | 12 | 33 | 0 | 651 | 12.6 | 4.0 | 649 | 99.7 | 2 | 0.3 |
| 22 | 62 | 20 | 22 | 39 | 20 | 131 | 69 | 105 | 121 | 125 | 420 | 102 | 92 | 74 | 75 | 343 | 26 | 41 | 26 | 46 | 169 | 26 | 31 | 29 | 35 | 121 | 2 | 3330 | - | 20.3 | 3274 | 98.3 | 26 | 1.7 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.0 | 0.0 | 1 | 100.0 | 0 | 0.0 |
| 80 | 27 | 4 | က | 8 | 11 | 26 | 12 | 17 | 17 | 20 | 99 | 23 | 16 | 21 | 31 | 91 | 13 | 7 | 5 | 11 | 36 | 4 | 7 | 7 | 18 | 36 | 1 | 969 | 20.9 | 4.2 | 693 | 9.66 | 3 | 0.4 |
| 10 | 30 | 13 | 16 | 23 | 33 | 85 | 46 | 65 | 99 | 74 | 251 | 28 | 59 | 42 | 37 | 196 | 33 | 27 | 16 | 32 | 108 | 21 | 19 | 20 | 17 | 77 | 1 | 2080 | 62.5 | 12.7 | 2054 | 98.8 | 26 | 1.3 |
| 4 | 2 | 3 | က | 8 | 9 | 20 | 11 | 23 | 38 | 31 | 103 | 21 | 17 | 11 | 2 | 26 | 10 | 2 | 5 | 3 | 25 | 1 | 2 | 2 | 0 | 8 | 0 | 223 | 16.6 | 3.4 | 526 | 95.1 | 27 | 4.9 |
| 59 | 80 | 30 | 42 | 22 | 72 | 201 | 69 | 98 | 105 | 107 | 367 | 98 | 94 | 26 | 28 | 335 | 20 | 37 | 35 | 45 | 167 | 39 | 20 | 37 | 54 | 180 | 1 | 3834 | | 23.4 | 3736 | 97.4 | 86 | 2.6 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0 | | 0 | |
| 2 | 4 | 2 | 2 | 5 | 9 | 18 | 8 | 9 | 13 | 23 | 20 | 17 | 16 | 6 | 2 | 47 | 1 | 7 | 1 | 1 | 10 | 2 | 5 | 4 | 4 | 15 | 1 | 417 | 10.9 | 2.5 | 403 | 9.96 | 14 | 3.4 |
| 26 | 74 | 27 | 37 | 51 | 62 | 177 | 29 | 77 | 84 | 92 | 296 | 61 | 20 | 81 | 52 | 264 | 45 | 29 | 27 | 39 | 140 | 33 | 38 | 27 | 46 | 144 | 0 | 2945 | 76.8 | 18.0 | 2873 | 97.6 | 72 | 2.4 |
| - | 2 | 1 | 0 | - | 4 | 9 | 2 | 3 | 8 | 8 | 21 | 8 | 8 | 7 | 1 | 24 | 4 | 1 | 7 | 2 | 17 | 4 | 7 | 9 | 4 | 21 | 0 | 472 | 12.3 | 2.9 | 460 | 97.5 | 12 | 2.5 |
| 5:50 AM | Hourly Total | 6:05 AM | 6:20 AM | 6:35 AM | 6:50 AM | Hourly Total | 7:05 AM | 7:20 AM | 7:35 AM | 7:50 AM | Hourly Total | 8:05 AM | 8:20 AM | 8:35 AM | 8:50 AM | Hourly Total | 9:05 AM | 9:20 AM | 9:35 AM | 9:50 AM | Hourly Total | 10:05 AM | 10:20 AM | 10:35 AM | 10:50 AM | Hourly Total | 11:05 AM | Grand Total | Approach % | Total % | Lights | % Lights | Other Vehicles | % Other Vehicles |

E.P. Ferris & Associates, Inc. 880 King Ave

Columbus, Ohio, United States 43212 614-299-2999 wsiegel@epferris.com

Central College [E] Out ln Total 3367 6641 3274 36 56 92 3403 3330 6733 526 2054 693 27 553 R 0 **1** 26 3 **696 2080** U 4 t œ 649 651 4918 5165 10083 Total 4110 3736 7846 4230 3834 8064
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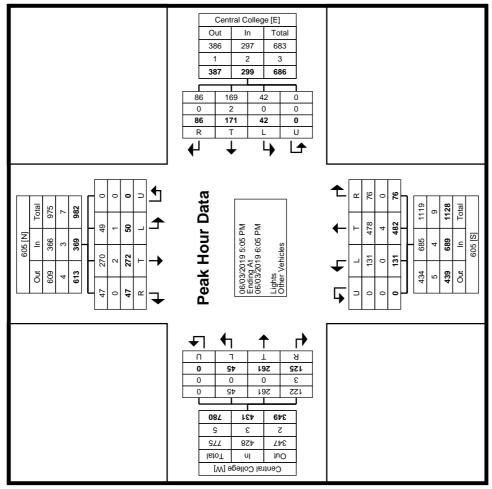
 103
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 218 06/03/2019 11:05 AM Ending At 06/04/2019 11:20 AM 3159 3239 403 4 417 8 605 [S] 605 [N] 98 _= 므 Lights Other Vehicles 1256 1275 460 2873 472 2945 19 72 120 Out Out 12 œ 7 82 1277 A Λ Τ 0 438 2334 0 13 50 2314 1549 9484 6707 3827 ۱9 73 811 8977 3988 3770 Total ħΟ uĮ Central College [W]

Turning Movement Data Plot

E.P. Ferris & Associates, Inc. 880 King Ave Columbus, Ohio, United States 43212 614-299-2999 wsiegel@epferris.com

| | | | Int. Total | 482 | 467 | 449 | 390 | 1788 | | | 0.927 | 1776 | 99.3 | 12 | 0.7 | |
|--------------------------------|-----------------|------------|-------------------|---------|---------|---------|---------|-------|------------|---------|-------|--------|----------|----------------|------------------|----|
| | | | App. Total | 123 | 103 | 107 | 86 | 431 | | 24.1 | 0.876 | 428 | 99.3 | 3 | 0.7 | |
| | Φ | | U-Turn | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.000 | 0 | | 0 | | |
| | Central College | Eastbound | Left | 10 | 12 | 13 | 10 | 45 | 10.4 | 2.5 | 0.865 | 45 | 100.0 | 0 | 0.0 | |
| | 0 | | Thru | 20 | 29 | 63 | 69 | 261 | 9.09 | 14.6 | 0.932 | 261 | 100.0 | 0 | 0.0 | |
| <u>-</u> | | | Right | 43 | 32 | 31 | 19 | 125 | 29.0 | 7.0 | 0.727 | 122 | 97.6 | 3 | 2.4 | |
| | | | App. Total | 175 | 191 | 175 | 148 | 689 | | 38.5 | 0.902 | 685 | 99.4 | 4 | 9.0 | |
| _ | | | U-Turn | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.000 | 0 | | 0 | | |
| 05 PM | 909 | Northbound | Left | 32 | 39 | 37 | 23 | 131 | 19.0 | 7.3 | 0.840 | 131 | 100.0 | 0 | 0.0 | |
| ement Peak Hour Data (5:05 PM) | | | Thru | 126 | 134 | 115 | 107 | 482 | 70.0 | 27.0 | 0.899 | 478 | 99.2 | 4 | 0.8 | |
| dour D | | | Right | 17 | 18 | 23 | 18 | 92 | 11.0 | 4.3 | 0.826 | 92 | 100.0 | 0 | 0.0 | |
| Peak F | | | App. Total | 78 | 87 | 70 | 64 | 299 | | 16.7 | 0.859 | 297 | 99.3 | 2 | 0.7 | |
| ment | e e | | U-Turn | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.000 | 0 | | 0 | | |
| y Move | Central College | Westbound | Left | 14 | 7 | 8 | 13 | 42 | 14.0 | 2.3 | 0.750 | 42 | 100.0 | 0 | 0.0 | |
| Turning Move | 0 | | Thru | 49 | 52 | 37 | 33 | 171 | 57.2 | 9.6 | 0.822 | 169 | 98.8 | 2 | 1.2 | |
| _ | | | Right | 15 | 28 | 25 | 18 | 98 | 28.8 | 4.8 | 0.768 | 98 | 100.0 | 0 | 0.0 | |
| | | | U-Turn App. Total | 106 | 98 | 26 | 80 | 369 | | 20.6 | 0.870 | 366 | 99.2 | 3 | 0.8 | |
| | | | U-Turn | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.000 | 0 | | 0 | | |
| | 909 | Southbound | Left | 6 | 10 | 14 | 17 | 20 | 13.6 | 2.8 | 0.735 | 49 | 98.0 | 1 | 2.0 | |
| | | | Thru | 85 | 63 | 69 | 22 | 272 | 73.7 | 15.2 | 0.800 | 270 | 99.3 | 2 | 0.7 | |
| | | | Right | 12 | 13 | 14 | 8 | 47 | 12.7 | 2.6 | 0.839 | 47 | 100.0 | 0 | 0.0 | |
| | | E troto | Olait IIIIe | 5:05 PM | 5:20 PM | 5:35 PM | 5:50 PM | Total | Approach % | Total % | PHF | Lights | % Lights | Other Vehicles | % Other Vehicles | 16 |

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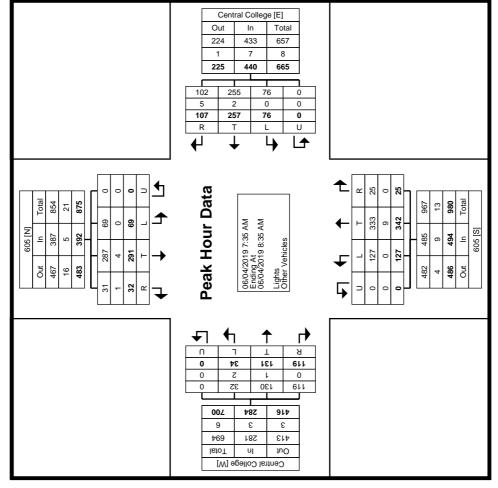
Turning Movement Peak Hour Data Plot (5:05 PM)

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| U-Turn App. Total Right Thru Left U-Turn App. Total Right Thru 0 125 9 87 34 0 127 35 31 0 125 9 87 34 0 127 35 31 0 125 9 87 34 0 120 28 37 0 92 4 74 21 0 99 32 29 0 440 25 342 127 0 494 119 131 0 440 25 342 127 0 494 119 131 0 5.1 69.2 25.7 0.0 - 41.9 46.1 0 0 0.89 0.834 0.850 0.350 7.4 8.1 0 433 25 333 127 0.00 98.2 119 130 0 | 900 | 908 | _ | | | Ē | اتات آ | g Mover | nent F | Turning Movement Peak Hour Data (7:35 AM) | our D | ata (7:; | 35 AM | | | | Č | مومالون احتلمون | | | |
|--|-----------------------------|-------------------|---------------|--------|----------|-------|-----------|----------------------------|--------|---|-------|----------|-------------------|--------|------------|-------|-------|----------------------------|-------|------------|------------|
| Fight Left U-Turn App. Total Right U-Turn App. Total Right U-Turn App. Total Right Thru Left U-Turn App. Total Right Thru Left U-Turn App. Total App. Total <t< th=""><th>Southbound</th><th>ous Southbound</th><th></th><th></th><th></th><th></th><th>ט S</th><th>rtral College Vestbound</th><th></th><th></th><th></th><th></th><th>605 Northbound</th><th></th><th></th><th></th><th>2</th><th>ntral College Eastbound</th><th></th><th></th><th></th></t<> | Southbound | ous Southbound | | | | | ט S | rtral College Vestbound | | | | | 605 Northbound | | | | 2 | ntral College Eastbound | | | |
| 66 17 0 121 4 103 41 0 148 24 34 9 9 67 67 74 20 0 125 9 87 31 0 127 126 35 31 12 12 7 | Thru Left U-Turn App. Total | | U-Turn App. T | Арр. Т | otal | Right | Thru | Left | U-Turn | App. Total | Right | Thru | Left | U-Turn | App. Total | Right | Thru | Left | | App. Total | Int. Total |
| 74 20 0 125 31 127 35 31 127 35 31 127 36 37 7 7 7 78 78 34 0 120 28 37 8 7 7 7 8 7 7 8 7 7 <td>84 13 0 105</td> <td>0</td> <td></td> <td>106</td> <td>2</td> <td>38</td> <td>99</td> <td>17</td> <td>0</td> <td>121</td> <td>4</td> <td>103</td> <td>41</td> <td>0</td> <td>148</td> <td>24</td> <td>34</td> <td>6</td> <td>0</td> <td>29</td> <td>441</td> | 84 13 0 105 | 0 | | 106 | 2 | 38 | 99 | 17 | 0 | 121 | 4 | 103 | 41 | 0 | 148 | 24 | 34 | 6 | 0 | 29 | 441 |
| 58 23 0 102 8 78 34 0 120 28 37 7 0 72 78 59 16 0 92 4 74 21 0 99 32 29 6 0 67 67 257 76 76 40 25 440 12 62 57 0 419 119 131 34 0 284 16.0 4.7 0.0 - 61 62.7 0.0 - 41.9 46.1 12.0 0 284 16.0 4.7 0.0 27.3 1.6 62.7 0.0 0.0 30.7 7.4 8.1 12.0 0.0 7.6 7.4 8.1 2.1 0.0 7.6 7.8 7.4 8.1 2.1 0.0 7.6 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 <td< td=""><td>76 23 0 107</td><td>0</td><td></td><td>107</td><td></td><td>31</td><td>74</td><td>20</td><td>0</td><td>125</td><td>6</td><td>87</td><td>31</td><td>0</td><td>127</td><td>35</td><td>31</td><td>12</td><td>0</td><td>78</td><td>437</td></td<> | 76 23 0 107 | 0 | | 107 | | 31 | 74 | 20 | 0 | 125 | 6 | 87 | 31 | 0 | 127 | 35 | 31 | 12 | 0 | 78 | 437 |
| 59 16 0 92 4 74 21 0 99 32 29 6 67 | 61 17 0 86 | 0 | | 98 | | 21 | 28 | 23 | 0 | 102 | 8 | 78 | 34 | 0 | 120 | 28 | 37 | 7 | 0 | 72 | 380 |
| 257 76 0 440 25 342 127 0 494 119 131 34 0 284 58.4 17.3 0.0 - 6.1 6.2 25.7 0.0 - 4.1 12.0 0.0 - 7 4.1 12.0 0.0 - 9.2 1.2 7.9 0.0 - 4.1 12.0 0.0 - 1.2 1.2 7.9 0.0 0.0 1.2 1.2 1.2 0.0 0.0 1.2 1.2 1.2 0.0 </td <td>70 16 0 94</td> <td>0</td> <td></td> <td>94</td> <td>_</td> <td>17</td> <td>29</td> <td>16</td> <td>0</td> <td>92</td> <td>4</td> <td>74</td> <td>21</td> <td>0</td> <td>66</td> <td>32</td> <td>29</td> <td>9</td> <td>0</td> <td>67</td> <td>352</td> | 70 16 0 94 | 0 | | 94 | _ | 17 | 29 | 16 | 0 | 92 | 4 | 74 | 21 | 0 | 66 | 32 | 29 | 9 | 0 | 67 | 352 |
| 58.4 17.3 0.0 - 61.1 69.2 25.7 0.0 - 41.9 46.1 12.0 0.0 - 9.0 - 41.9 46.1 12.0 0.0 - 9.0 - 41.9 46.1 12.0 0.0 - 9.0 17.6 0.0 17.6 9.0 17.6 9.0 17.6 9.0 | 291 69 0 392 | 0 | | 392 | | 107 | 257 | 9/ | 0 | 440 | 25 | 342 | 127 | 0 | 494 | 119 | 131 | 34 | 0 | 284 | 1610 |
| 16.0 4.7 0.0 27.3 1.6 21.2 7.9 0.0 30.7 7.4 8.1 2.1 0.0 17.6 0.868 0.826 0.000 0.880 0.694 0.830 0.774 0.000 0.834 0.850 0.708 0.708 0.910 0.9 | 74.2 17.6 0.0 - | 0.0 | | | | 24.3 | 58.4 | 17.3 | 0.0 | | 5.1 | 69.2 | 25.7 | 0.0 | | 41.9 | 46.1 | 12.0 | 0.0 | | |
| 0.868 0.826 0.000 0.880 0.694 0.874 0.0774 0.000 0.834 0.850 0.708 0.708 0.910 <t< td=""><td>18.1 4.3 0.0 24.3</td><td>0.0</td><td></td><td>24.3</td><td></td><td>9.9</td><td>16.0</td><td>4.7</td><td>0.0</td><td>27.3</td><td>1.6</td><td>21.2</td><td>7.9</td><td>0.0</td><td>30.7</td><td>7.4</td><td>8.1</td><td>2.1</td><td>0.0</td><td>17.6</td><td></td></t<> | 18.1 4.3 0.0 24.3 | 0.0 | | 24.3 | | 9.9 | 16.0 | 4.7 | 0.0 | 27.3 | 1.6 | 21.2 | 7.9 | 0.0 | 30.7 | 7.4 | 8.1 | 2.1 | 0.0 | 17.6 | |
| 255 76 0 433 25 333 127 0 485 119 130 32 0 281 99.2 100.0 - 98.4 100.0 97.4 100.0 - 98.2 100.0 99.2 94.1 - 98.9 2 0 7 0 9 0 9 0 1 2 0 3 0.8 0.0 - 1.6 0.0 2.6 0.0 - 1.8 0.0 0 8 5.9 - 1.1 | 0.866 0.750 0.000 0.916 | 0.000 | | 0.916 | | 0.704 | 0.868 | 0.826 | 0.000 | 0.880 | 0.694 | 0.830 | 0.774 | 0.000 | 0.834 | 0.850 | 0.885 | 0.708 | 0.000 | 0.910 | 0.913 |
| 99.2 100.0 - 98.4 100.0 97.4 100.0 - 98.2 100.0 99.2 94.1 - 98.9 2 0 0 7 0 9 0 0 9 0 1 2 0 3 0.8 0.0 - 1.8 0.0 0 8 5.9 - 1.1 | 287 69 0 387 | 0 | | 387 | - | 102 | 255 | 92 | 0 | 433 | 25 | 333 | 127 | 0 | 485 | 119 | 130 | 32 | 0 | 281 | 1586 |
| 2 0 0 7 0 9 0 0 9 0 1 2 0 3 0 0.8 0.0 - 1.6 0.0 2.6 0.0 - 1.8 0.0 0.8 5.9 - 1.1 | 98.6 100.0 - 98.7 | | - 98.7 | 98.7 | \dashv | 95.3 | 99.2 | 100.0 | | 98.4 | 100.0 | 97.4 | 100.0 | | 98.2 | 100.0 | 99.2 | 94.1 | | 98.9 | 98.5 |
| 0.8 0.0 - 1.6 0.0 2.6 0.0 - 1.8 0.0 0.8 5.9 - 1.1 | 4 0 0 5 | 0 | | 2 | | 2 | 2 | 0 | 0 | 7 | 0 | 6 | 0 | 0 | 6 | 0 | 1 | 2 | 0 | 3 | 24 |
| | 1.4 0.0 - 1.3 | | - 1.3 | 1.3 | | 4.7 | 8.0 | 0.0 | | 1.6 | 0.0 | 2.6 | 0.0 | | 1.8 | 0.0 | 0.8 | 5.9 | | 1.1 | 1.5 |

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Turning Movement Peak Hour Data Plot (7:35 AM)

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Search | Back | Cars |

Calculate Peak Hour for:

Intersection

Turning Movement Count Data - 5373

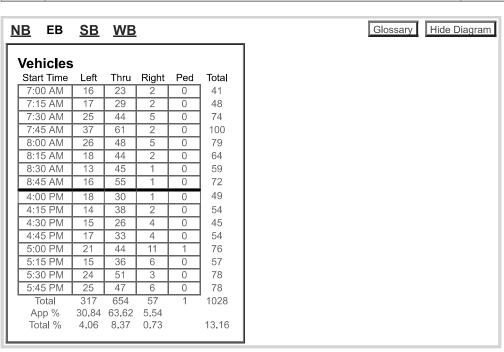
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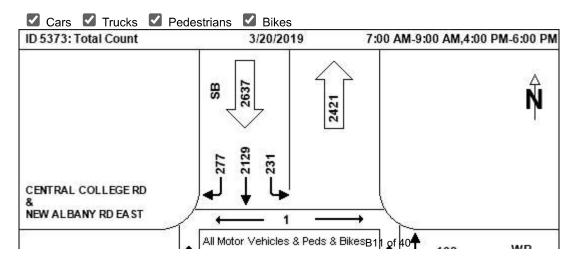
Community:COLUMBUSCorridor:Road 1:CENTRAL COLLEGE RDRoad 3:Road 2:NEW ALBANY RD EASTRoad 4:

TMC Data

| Display | Date | PHV | Peak Hour | Duration | TMC Owner |
|----------|---------------------------|------|-----------|-------------------|-----------|
| O | Wednesday, March 20, 2019 | 2152 | 7:30 AM | 7:00 AM - 6:00 PM | morpc |

| Notes | ~ |
|-------|------|
| Note | Date |











Search | Back | Cars |

Calculate Peak Hour for:

O Intersection

Turning Movement Count Data - 5373

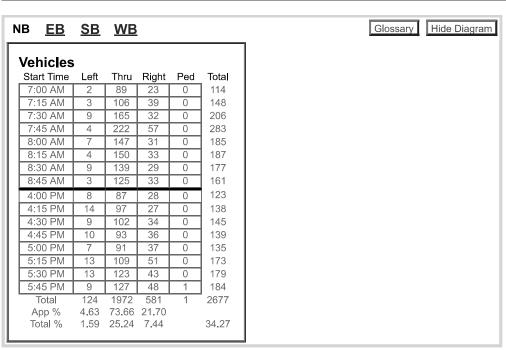
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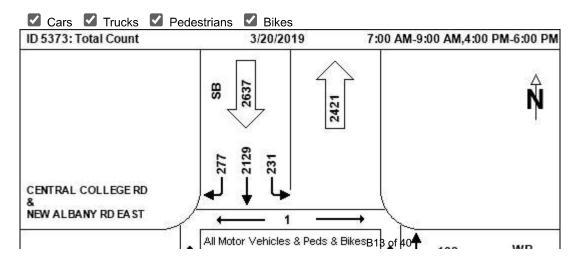
Community:COLUMBUSCorridor:Road 1:CENTRAL COLLEGE RDRoad 3:Road 2:NEW ALBANY RD EASTRoad 4:

TMC Data

| Display | Date | PHV | Peak Hour | Duration | TMC Owner |
|----------|---------------------------|------|-----------|-------------------|-----------|
| O | Wednesday, March 20, 2019 | 2152 | 7:30 AM | 7:00 AM - 6:00 PM | morpc |

| Notes | ~ |
|-------|------|
| Note | Date |











Search | Back | Cars |

Calculate Peak Hour for:

O Intersection

Turning Movement Count Data - 5373

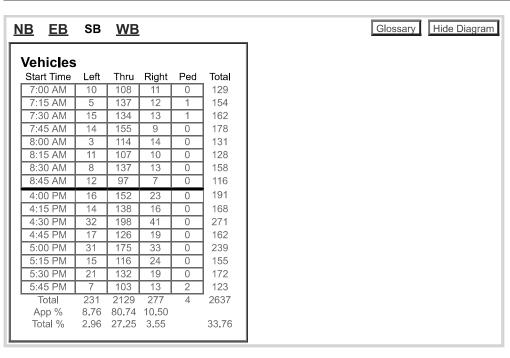
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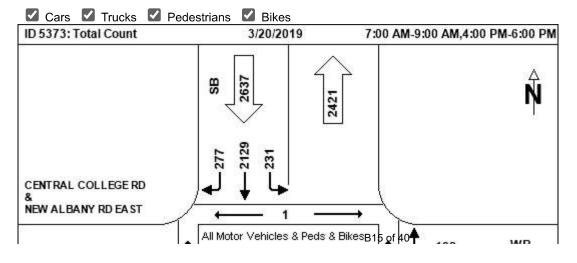
Community:COLUMBUSCorridor:Road 1:CENTRAL COLLEGE RDRoad 3:Road 2:NEW ALBANY RD EASTRoad 4:

TMC Data

| Display | Date | PHV | Peak Hour | Duration | TMC Owner |
|----------|---------------------------|------|-----------|-------------------|-----------|
| O | Wednesday, March 20, 2019 | 2152 | 7:30 AM | 7:00 AM - 6:00 PM | morpc |

| Notes | ~ |
|-------|------|
| Note | Date |











Search | Back | Cars |

Calculate Peak Hour for:

O Intersection

Turning Movement Count Data - 5373

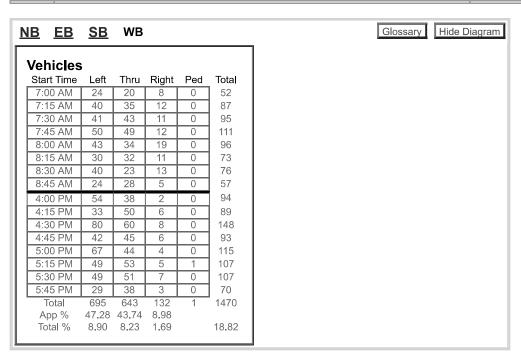
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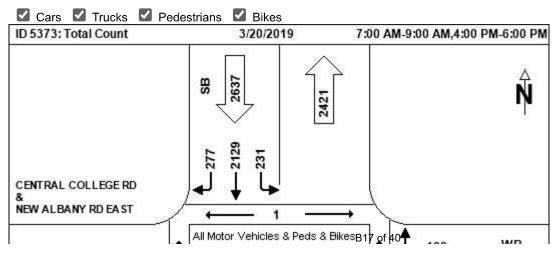
Community:COLUMBUSCorridor:Road 1:CENTRAL COLLEGE RDRoad 3:Road 2:NEW ALBANY RD EASTRoad 4:

TMC Data

| Display | Date | PHV | Peak Hour | Duration | TMC Owner |
|----------|---------------------------|------|-----------|-------------------|-----------|
| O | Wednesday, March 20, 2019 | 2152 | 7:30 AM | 7:00 AM - 6:00 PM | morpc |

| Notes | • |
|-------|------|
| Note | Date |











Search | Back | Cars |

Calculate Peak Hour for:

O Intersection O Corridor: NA

Turning Movement Count Data - 1770

Int ID: 1770

Community:COLUMBUSCorridor:NARoad 1:EMH&T DRIVEWAYRoad 3:Road 2:NEW ALBANY RDRoad 4:

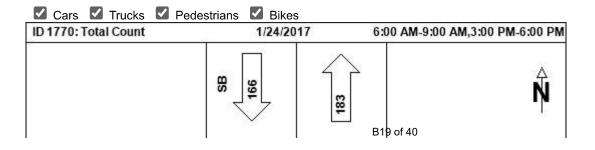
TMC Data

| Display | Date | PHV | Peak Hour | Duration | TMC Owner |
|----------|---------------------------|------|-----------|-------------------|-----------|
| O | Tuesday, January 24, 2017 | 1798 | 7:15 AM | 6:00 AM - 6:00 PM | morpc |

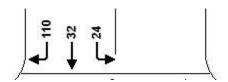
|<< < > >>| 1-1 of 1

| Notes | ~ |
|-------|------|
| Note | Date |

Hide Diagram <u>NB</u> EB Glossary SB WB **Vehicles** Start Time Right Ped Left Thru Total 6:00 AM 6:15 AM 6:30 AM 6:45 AM 7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM Total App % 2.81 75.37 21.82 48.34 36.44 10.55 Total % 1.36



EMH & NEW AT BANY RD







Search | Back | Cars |

Calculate Peak Hour for:

O Intersection O Corridor: NA

Turning Movement Count Data - 1770

Int ID: 1770

Community:COLUMBUSCorridor:NARoad 1:EMH&T DRIVEWAYRoad 3:Road 2:NEW ALBANY RDRoad 4:

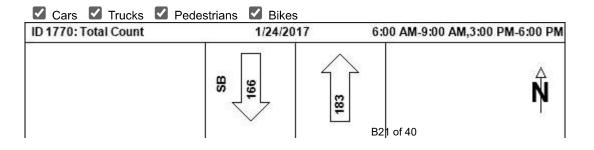
TMC Data

| Display | Date | PHV | Peak Hour | Duration | TMC Owner |
|---------|---------------------------|------|-----------|-------------------|-----------|
| | Tuesday, January 24, 2017 | 1798 | 7:15 AM | 6:00 AM - 6:00 PM | morpc |

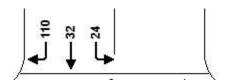
|<< < > >>| 1-1 of 1

| Notes | | |
|-------|------|--|
| Note | Date | |

Hide Diagram Glossary NB EB SB WB Vehicles Start Time Left Right Ped Thru Total 6:00 AM n 6:15 AM 6:30 AM 6:45 AM 7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM Total App % 84.89 3.04 12.07 12.63 10.72 Total % 0.38 1.52



EMH & NEW AT BANY RD







Search | Back | Cars |

Calculate Peak Hour for:

O Intersection O Corridor: NA

Turning Movement Count Data - 1770

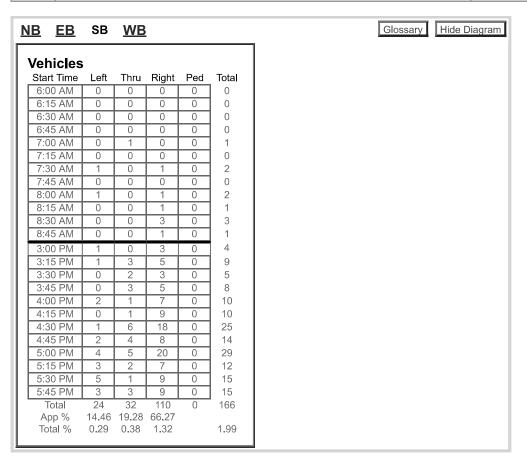
Int ID: 1770

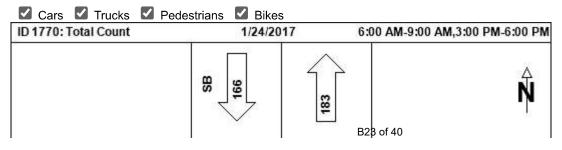
Community:COLUMBUSCorridor:NARoad 1:EMH&T DRIVEWAYRoad 3:Road 2:NEW ALBANY RDRoad 4:

TMC Data

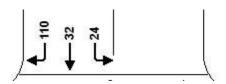
| Display | Date | PHV | Peak Hour | Duration | TMC Owner |
|---------|---------------------------|------|-----------|-------------------|-----------|
| | Tuesday, January 24, 2017 | 1798 | 7:15 AM | 6:00 AM - 6:00 PM | morpc |

| Notes | | |
|-------|------|--|
| Note | Date | |





EMH & NEW AT BANY RD







MID-OHIO REGIONAL PLANNING COMMISSION Transportation Data Management System

Search | Back | Cars |

Calculate Peak Hour for:

O Intersection O Corridor: NA

Turning Movement Count Data - 1770

Int ID: 1770

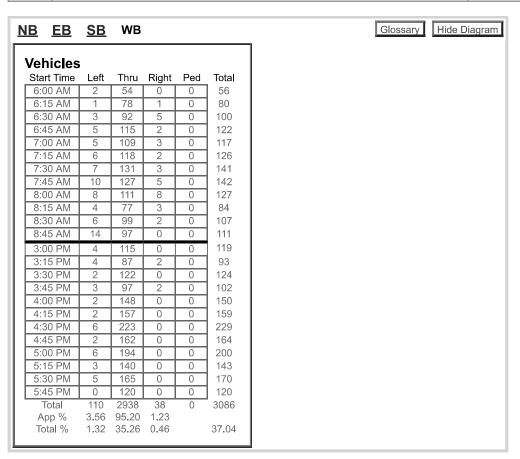
Community:COLUMBUSCorridor:NARoad 1:EMH&T DRIVEWAYRoad 3:Road 2:NEW ALBANY RDRoad 4:

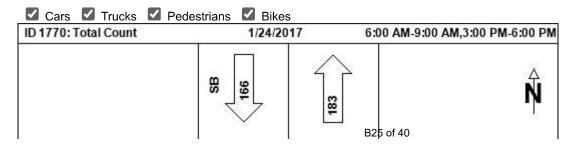
TMC Data

| Display | Date | PHV | Peak Hour | Duration | TMC Owner |
|---------|---------------------------|------|-----------|-------------------|-----------|
| | Tuesday, January 24, 2017 | 1798 | 7:15 AM | 6:00 AM - 6:00 PM | morpc |

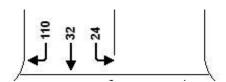
|<< < > >>| 1-1 of 1

| Notes | ~ |
|-------|------|
| Note | Date |





EMH & NEW AT BANY RD



Provided by: Carpenter Marty (CM) Transportation Inc. 6612 Singletree Drive, Columbus, OH, 43229, US

Thu Jan 23, 2020

Full Length (12 AM-12 AM (+1))

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 743909, Location: 40.09303, -82.812182

| Leg | Walton P | | | | | Walton P | arkway | | | | New Alh | anv-Cor | ıdit Road | | | Ne w Alb | anv-Coi | ndit Road | d | | |
|------------------|----------|-----|------|-----|----------------|-------------|--------|--------------|-----|----------|---------------|----------------|-----------|-----|----------|--------------|----------------|-------------|-----|----------------|-------------------|
| | Eastboun | | | | | Westbou | | | | | Northbo | | ran noud | ı | | Southbo | | iruit itout | u | | |
| Time | L | T | R | U | App | L | T | R | U | App | L | T | R | U | App | L | T | R | U | App | Int |
| 2020-01-23 | | | | | | | | | | | | | | | | | | | | | |
| 12:00AM | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 4 | 8 |
| 12:15AM | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 2 | 5 |
| 12:30AM | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | | 2 | 1 | 0 | 3 | 0 | 2 | 0 | 0 | 2 | 7 |
| 12:45AM | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 2 | 8 |
| Hourly | | | | 0 | _ | | 0 | | 0 | | | 0 | | 0 | • | | | 0 | 0 | 40 | |
| Total | 1 | 1 | 3 | 0 | 5 | 2 | 0 | 2 | 0 | 4 | 0 | 8 | 1 | 0 | 9 | 1 | 9 | 0 | 0 | 10 | 28 |
| 1:00AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:15AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 3 |
| 1:30AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1:45AM | U | - 0 | | - 0 | U | 1 | U | 1 | 0 | | U | 1 | | - 0 | 1 | 0 | | 0 | 0 | U | 3 |
| Hourly Total | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 1 | 0 | 3 | 0 | 3 | 0 | 0 | 3 | 8 |
| 2:00AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 3 | 4 |
| 2:15AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:30AM | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2:45AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Hourly | 0 | J | J | J | U | U | J | U | 0 | U | 0 | 1 | 0 | 0 | 1 | 0 | U | J | J | U | 1 |
| Total | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 1 | 2 | 0 | 0 | 3 | 6 |
| 3:00AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 2 |
| 3:15AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 1 | 4 | 0 | 0 | 5 | 7 |
| 3:30AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 2 |
| 3:45AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Hourly | | | | | | | | | | | | | | | | | | | | | |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 1 | 7 | 0 | 0 | 8 | 12 |
| 4:00AM | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 2 | 6 |
| 4:15AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 0 | 0 | 7 | 7 |
| 4:30AM | 0 | 1 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | | 2 | 1 | 0 | 3 | 1 | 8 | 0 | 0 | 9 | 15 |
| 4:45AM | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 2 | 3 | 10 | 0 | 0 | 13 | 17 |
| Hourly | | _ | _ | | | _ | | | | | _ | _ | | _ | _ | | | | | | |
| Total | 0 | 2 | 2 | 0 | 4 | 0 | 2 | 2 | 0 | 4 | 0 | 5 | 1 | 0 | 6 | 6 | 25 | 0 | 0 | 31 | 45 |
| 5:00AM | 0 | 2 | 3 | 0 | 5 | 0 | 0 | 1 | 0 | 1 | | 6 | 1 | 0 | 10 | 1 | 8 | 0 | 0 | 9 | 25 |
| 5:15AM | 0 | 1 | 4 | 0 | 5 | 0 | 0 | 3 | 0 | 3 | 1 | 3 | 0 | 0 | 4 | 3 | 13 | 1 | 0 | 17 | 29 |
| 5:30AM | 1 | 0 | 2 | 0 | 3 | 1 | 0 | 1 | 0 | 2 | 4 | 4 | 0 | 0 | 8 | 7 | 16 | 1 | 0 | 24 | 37 |
| 5:45AM | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2 | 0 | 4 | 4 | 18 | 1 | 0 | 23 | 16 | 19 | 2 | 0 | 37 | 66 |
| Hourly Total | 1 | 4 | 10 | 0 | 15 | 3 | 0 | 7 | 0 | 10 | 12 | 31 | 2 | 0 | 45 | 27 | 56 | 4 | 0 | 87 | 157 |
| 6:00AM | 0 | 3 | 4 | 0 | 7 | 0 | 4 | 1 | 0 | 5 | 3 | 16 | 1 | 0 | 20 | 9 | 23 | 0 | 0 | 32 | 64 |
| 6:15AM | 0 | 1 | 2 | 0 | 3 | 0 | 1 | 8 | 0 | 9 | 7 | 17 | 1 | 0 | 25 | 6 | 33 | 6 | 0 | 45 | 82 |
| 6:30AM | 0 | 5 | 5 | 0 | 10 | 4 | 9 | 3 | 0 | 16 | 10 | 36 | 0 | 0 | 46 | 11 | 39 | 2 | 0 | 52 | 124 |
| 6:45AM | 0 | 9 | 9 | 0 | 18 | 0 | 10 | 19 | 0 | 29 | 22 | 51 | 0 | 0 | 73 | 20 | 59 | 6 | 0 | 85 | 205 |
| Hourly | | 3 | , | J | 10 | 0 | 10 | 13 | | | | 51 | <u> </u> | | , , | | 55 | <u> </u> | 3 | 33 | _05 |
| Total | 0 | 18 | 20 | 0 | 38 | 4 | 24 | 31 | 0 | 59 | 42 | 120 | 2 | 0 | 164 | 46 | 154 | 14 | 0 | 214 | 475 |
| 7:00AM | 2 | 15 | 6 | 0 | 23 | 2 | 10 | 27 | 0 | 39 | 26 | 46 | 2 | 1 | 75 | 20 | 83 | 9 | 0 | 112 | 249 |
| 7:15AM | 1 | 11 | 18 | 0 | 30 | 3 | 24 | 27 | 0 | 54 | 24 | 56 | 2 | 0 | 82 | 27 | 89 | 11 | 0 | 127 | 293 |
| 7:30AM | 2 | 15 | 28 | 0 | 45 | 7 | 22 | 44 | 0 | 73 | 26 | 88 | 8 | 0 | 122 | 28 | 143 | 5 | 0 | 176 | 4 16 |
| 7:45AM | 3 | 16 | 27 | 0 | 46 | 7 | 19 | 44 | 0 | 70 | 47 | 99 | 13 | 0 | 159 | 34 | 153 | 25 | 0 | 212 | 487 |
| Hourly | | | | | | | | | | | | | | | | | | | | | |
| Total | 8 | 57 | 79 | 0 | 144 | 19 | 75 | 142 | 0 | 236 | 123 | 289 | 25 | 1 | 438 | 109 | 468 | 50 | 0 | 627 | 1445 |
| 8:00AM | 0 | 24 | 34 | 0 | 58 | 3 | 16 | 15 | 0 | 34 | 44 | 71 | 14 | 0 | 129 | 31 | 106 | 15 | 0 | 152 | 373 |
| 8:15AM | 3 | 27 | 22 | 0 | 52 | 1 | 15 | 23 | 0 | 39 | 29 | 66 | 6 | 0 | 101 | 26 | 81 | 13 | 0 | 120 | 312 |
| 8:30AM | 1 | 26 | 16 | 0 | 43 | 1 | 22 | 14 | 0 | 37 | 22 | 54 | 8 | 0 | 84 | 43 | 100 | 7 | 0 | 150 | 314 |
| 8:45AM | 2 | 20 | 57 | 0 | 79 | 3 | 22 | 15 | 0 | 40 | 34 | 68 | 25 | 0 | 127 | 18 | 90 | 7 | 0 | 115 | 361 |
| Hourly | | | 40.7 | | | | | | | | | 0.5 | | | | | 0.5- | | | | 45.5 |
| | 6 | 97 | 129 | 0 | 232 | 8 | 75 | 67 | 0 | 150 | 129 | 259 | 53 | 0 | 441 | 118 | 377 | 42 | 0 | 537 | 1360 |
| Total | | 1 🗆 | 10 | 0 | 26 | 1 | 9 | 8 | 0 | 18 | 35 | 73 | 28 | 0 | 136 | 15 | 48 | 10 | 0 | 73 | 253 |
| Total 9:00AM | 1 | 15 | | | | | _ | | | | | | | | | | | | | | |
| 9:00AM 9:15AM | 1 | 12 | 9 | 0 | 22 | 4 | 9 | 10 | 0 | 23 | 17 | 41 | 4 | 0 | 62 | 11 | 47 | 0 | 0 | 58 | 165 |
| Total 9:00AM | | | | | 22 19 15 | 4 1 2 | 9 4 2 | 10 7 6 | 0 0 | 12 10 | 17 14 9 | 41 41 44 | 3 | 0 0 | 58 54 | 11 4 6 | 47 32 40 | 0 4 3 | 0 0 | 58 40 49 | 165 129 128 |

| _ | Walton P Eastbour | - | | | | Walton I Westbou | - | | | | New Alb | - | ndit Roa | d | | New Alb | | ndit Roa | d | | |
|-------------------|----------------------|----------|----------|---|----------|---------------------|----------|---------|---|-----------|----------|-----------|----------|---|-----------|---------|-----------|----------|---|-----------|------------|
| Time | L | T | R | U | App | L | Т | R | U | Арр | L | Т | R | U | App | L | Т | R | U | App | Int |
| Hourly | | | | | | | | | | | | | | | | | | | | | |
| Total 10:00 AM | 9 | 49 8 | 6 | 0 | 82 15 | 8 5 | 24 | 31 | 0 | 63 18 | 75 6 | 199 32 | 36 5 | 0 | 310 43 | 36 | 167 40 | 17 1 | 0 | 220 52 | 675 128 |
| 10:00AM | 2 | 3 | 7 | 0 | 12 | 4 | 3 | 10 | 0 | 17 | 12 | 31 | 2 | 0 | 45 | 5 | 22 | 4 | 0 | 31 | |
| 10:30AM | 2 | 4 | 7 | 0 | 13 | 6 | 6 | 7 | 0 | 19 | 10 | 33 | 1 | 0 | 44 | 6 | 41 | 4 | 0 | 51 | + |
| 10:45AM | 0 | 2 | 6 | 0 | 8 | 7 | 9 | 10 | 0 | 26 | 13 | 40 | 0 | 0 | 53 | 7 | 33 | 6 | 0 | 46 | - |
| Hourly | _ | | | | | | | | _ | | | | | | | | | | | | |
| Total 11:00AM | 5 2 | 17 10 | 26 13 | 0 | 25 | 6 | 20 16 | 38 | 0 | 27 | 12 | 136 28 | 3 | 0 | 185 | 29 | 136 32 | 15 3 | 0 | 180 36 | 493 131 |
| 11:15 AM | 7 | 8 | 8 | 0 | 23 | 3 | 24 | 9 | 0 | 36 | 19 | 41 | 2 | 0 | 62 | 7 | 43 | 6 | 0 | 56 | |
| 11:30AM | 7 | 15 | 9 | 0 | 31 | 7 | 11 | 7 | 0 | 25 | 10 | 49 | 4 | 0 | 63 | 6 | 34 | 5 | 0 | 45 | |
| 11:45AM | 1 | 15 | 9 | 0 | 25 | 1 | 24 | 10 | 0 | 35 | 19 | 43 | 1 | 0 | 63 | 4 | 56 | 8 | 0 | 68 | 191 |
| Hourly | 17 | 40 | 20 | 0 | 10.4 | 17 | 7.5 | 2.1 | 0 | 122 | CO | 101 | 10 | 0 | 221 | 10 | 105 | 22 | 0 | 205 | 663 |
| Total 12:00PM | 17 9 | 48 16 | 39 21 | 0 | 104 | 17 8 | 75 31 | 31 6 | 0 | 123 45 | 60 19 | 161 53 | 10 | 0 | 76 | 18 | 165 40 | 22 6 | 0 | 205 51 | 663 218 |
| 12:15PM | 6 | 17 | 23 | 1 | 47 | 4 | 13 | 9 | 0 | 26 | 19 | 56 | 4 | 0 | 79 | 13 | 35 | 2 | 0 | 50 | 202 |
| 12:30PM | 2 | 25 | 13 | 0 | 40 | 3 | 14 | 5 | 0 | 22 | 16 | 41 | 7 | 0 | 64 | 9 | 52 | 10 | 0 | 71 | |
| 12:45PM | 5 | 17 | 14 | 0 | 36 | 0 | 11 | 10 | 0 | 21 | 16 | 44 | 5 | 0 | 65 | 12 | 42 | 4 | 0 | 58 | 180 |
| Hourly Total | 22 | 75 | 71 | 1 | 169 | 15 | 69 | 30 | 0 | 114 | 70 | 194 | 20 | 0 | 284 | 39 | 169 | 22 | 0 | 230 | 797 |
| 1:00PM | 11 | 14 | 18 | 0 | 43 | 2 | 16 | 6 | 0 | 24 | 11 | 45 | 3 | 0 | 59 | 39 | 43 | 4 | 0 | 56 | |
| 1:15PM | 7 | 9 | 13 | 0 | 29 | 1 | 6 | 6 | 0 | 13 | 22 | 69 | 9 | 0 | 100 | 5 | 61 | 1 | 0 | 67 | 209 |
| 1:30PM | 1 | 11 | 21 | 0 | 33 | 3 | 8 | 9 | 0 | 20 | 19 | 41 | 9 | 0 | 69 | 8 | 56 | 3 | 0 | 67 | 189 |
| 1:45PM | 3 | 11 | 12 | 0 | 26 | 6 | 13 | 9 | 0 | 28 | 18 | 40 | 2 | 0 | 60 | 8 | 38 | 4 | 1 | 51 | 165 |
| Hourly Total | 22 | 45 | 64 | 0 | 131 | 12 | 43 | 30 | 0 | 85 | 70 | 195 | 23 | 0 | 288 | 30 | 198 | 12 | 1 | 241 | 745 |
| 2:00PM | 0 | 7 | 13 | 0 | 20 | 12 | 11 | 2 | 0 | 14 | 10 | 48 | 5 | 0 | 63 | 4 | 39 | 4 | 0 | 47 | 144 |
| 2:15PM | 8 | 8 | 9 | 0 | 25 | 9 | 12 | 9 | 0 | 30 | 12 | 58 | 0 | 0 | 70 | 9 | 37 | 6 | 0 | 52 | |
| 2:30PM | 2 | 8 | 16 | 0 | 26 | 23 | 5 | 5 | 0 | 33 | 12 | 48 | 2 | 0 | 62 | 10 | 48 | 4 | 0 | 62 | 183 |
| 2:45PM | 3 | 6 | 15 | 0 | 24 | 5 | 4 | 9 | 0 | 18 | 16 | 72 | 3 | 0 | 91 | 6 | 70 | 2 | 0 | 78 | 211 |
| Hourly Total | 13 | 29 | 53 | 0 | 95 | 38 | 32 | 25 | 0 | 95 | 50 | 226 | 10 | 0 | 286 | 29 | 194 | 16 | 0 | 239 | 715 |
| 3:00PM | 3 | 13 | 13 | 0 | 29 | 4 | 9 | 4 | 0 | 17 | 28 | 88 | 5 | 0 | 121 | 10 | 48 | 5 | 0 | 63 | 230 |
| 3:15PM | 8 | 16 | 27 | 0 | 51 | 4 | 3 | 19 | 0 | 26 | 13 | 73 | 1 | 0 | 87 | 15 | 56 | 3 | 0 | 74 | 238 |
| 3:30PM | 7 | 9 | 48 | 0 | 64 | 4 | 11 | 13 | 0 | 28 | 22 | 72 | 7 | 0 | 101 | 17 | 74 | 1 | 0 | 92 | 285 |
| 3:45PM | 4 | 12 | 11 | 0 | 27 | 6 | 11 | 10 | 0 | 27 | 54 | 108 | 10 | 0 | 172 | 15 | 46 | 7 | 0 | 68 | 294 |
| Hourly Total | 22 | 50 | 99 | 0 | 171 | 18 | 34 | 46 | 0 | 98 | 117 | 341 | 23 | 0 | 481 | 57 | 224 | 16 | 0 | 297 | 1047 |
| 4:00PM | 6 | 14 | 26 | 1 | 47 | 10 | 19 | 23 | 0 | 43 | 23 | 78 | 6 | 0 | 107 | | 97 | 6 | 0 | 119 | |
| 4:15PM | 9 | 21 | 31 | 0 | 61 | 8 | 18 | 15 | 0 | 41 | 15 | 96 | 5 | 0 | 116 | 21 | 61 | 2 | 0 | 84 | 302 |
| 4:30PM | 14 | 31 | 38 | 0 | 83 | 10 | 17 | 27 | 0 | 54 | 18 | 91 | 1 | 0 | 110 | 47 | 108 | 1 | 0 | 156 | 403 |
| 4:45PM | 7 | 22 | 25 | 0 | 54 | 2 | 16 | 16 | 0 | 34 | 18 | 106 | 4 | 0 | 128 | 27 | 92 | 3 | 0 | 122 | 338 |
| Hourly Total | 36 | 88 | 120 | 1 | 245 | 21 | 70 | 81 | 0 | 172 | 74 | 371 | 16 | 0 | 461 | 111 | 358 | 12 | 0 | 481 | 1359 |
| 5:00PM | 16 | 37 | 36 | 0 | 89 | 14 | 25 | 37 | 0 | 76 | 16 | 104 | 2 | 0 | 122 | 29 | 106 | 7 | 0 | 142 | _ |
| 5:15PM | 5 | 13 | 28 | 0 | 46 | 10 | 30 | 26 | 0 | 66 | 12 | 114 | 5 | 0 | 131 | 39 | 76 | 7 | 0 | 122 | 365 |
| 5:30PM | 5 | 15 | 27 | 0 | 47 | 10 | 31 | 46 | 0 | 87 | 10 | 107 | 4 | 0 | 121 | | 95 | 4 | 0 | 117 | 372 |
| 5:45PM | 9 | 12 | 19 | 0 | 40 | 7 | 21 | 26 | 0 | 54 | 16 | 99 | 2 | 0 | 117 | 10 | 77 | 1 | 0 | 88 | 299 |
| Hourly Total | 35 | 77 | 110 | 0 | 222 | 41 | 107 | 135 | 0 | 283 | 54 | 424 | 13 | 0 | 491 | 96 | 354 | 19 | 0 | 469 | 1465 |
| 6:00PM | 5 | 16 | 26 | 0 | 47 | 4 | 17 | 17 | 0 | 38 | 16 | 79 | 1 | 0 | 96 | 15 | 71 | 1 | 0 | 87 | 268 |
| 6:15PM | 3 | 10 | 14 | 0 | 27 | 6 | 16 | 18 | 0 | 40 | 11 | 82 | 2 | 0 | 95 | 10 | 81 | 3 | 0 | 94 | 256 |
| 6:30PM | 1 | 2 | 39 | 0 | 42 | 4 | 14 | 8 | 0 | 26 | 12 | 54 | 1 | 0 | 67 | | 76 | 4 | 0 | 88 | |
| 6:45PM | 2 | 7 | 27 | 0 | 36 | 8 | 5 | 3 | 0 | 16 | 11 | 42 | 2 | 0 | 55 | 3 | 55 | 5 | 0 | 63 | 170 |
| Hourly Total | 11 | 35 | 106 | 0 | 152 | 22 | 52 | 46 | 0 | 120 | 50 | 257 | 6 | 0 | 313 | 36 | 283 | 13 | 0 | 332 | 917 |
| 7:00PM | 5 | 5 | 8 | 0 | 18 | 1 | 2 | 7 | 0 | 10 | 5 | 49 | 2 | 0 | 56 | 4 | 39 | 0 | 0 | 43 | |
| 7:15PM | 0 | 2 | 10 | 0 | 12 | 1 | 2 | 4 | 0 | 7 | 10 | 37 | 3 | 0 | 50 | 2 | 45 | 2 | 0 | 49 | |
| 7:30PM | 2 | 3 | 7 | 0 | 12 | 2 | 4 | 5 | 0 | 11 | 8 | 50 | 1 | 0 | 59 | 3 | 35 | 1 | 0 | 39 | _ |
| 7:45PM Hourly | 3 | 5 | 2 | 0 | 10 | 0 | 5 | 3 | 0 | 8 | 22 | 59 | 6 | 0 | 87 | 0 | 24 | 2 | 0 | 26 | 131 |
| Total | 10 | 15 | 27 | 0 | 52 | 4 | 13 | 19 | 0 | 36 | 45 | 195 | 12 | 0 | 252 | 9 | 143 | 5 | 0 | 157 | 497 |
| 8:00PM | 5 | 4 | 11 | 0 | 20 | 0 | 2 | 4 | 0 | 6 | 21 | 73 | 8 | 0 | 102 | 2 | 27 | 2 | 0 | 31 | 159 |
| 8:15PM | 1 | 2 | 8 | 0 | 11 | 2 | 5 | 2 | 0 | 9 | 6 | 45 | 3 | 0 | 54 | 4 | 20 | 0 | 0 | 24 | _ |
| | | 0 | 1 | 0 | 2 | 2 | 1 | 1 | 0 | 4 | 3 | 32 | 0 | 0 | 35 | 0 | 21 | 1 | 0 | 22 | 63 |
| 8:30PM 8:45PM | 1 | 2 | 4 | 0 | 7 | 0 | 0 | 6 | 0 | 6. | 5 | 25 | 1 | 0 | 31 | | 29 | 2 | 0 | 34 | |

2 of 10

| Le g | Walton | Parkwa | y | | | Walton | Parkwa | y | | | Ne w Al | bany-C | ondit Ro | ad | | Ne w A | lbany-Co | ondit Ro | ad | | |
|-----------------------|---------|---------|----------|-------|-------|---------|--------|----------|-----|-------|---------|---------------|----------|------|--------|--------|----------|----------|------|-------|-------|
| Dire ction | Eastbou | ınd | | | | Westbo | und | - | | | Northb | ound | | | | Southb | ound | | | | |
| Time | L | T | R | U | Арр | L | T | R | U | Арр | L | T | R | U | App | L | Т | R | U | App | Int |
| Hourly | | | | | | | | | | | | | | | | | | | | | |
| Total | 8 | 8 | 24 | 0 | 40 | 4 | 8 | 13 | 0 | 25 | 35 | 175 | 12 | 0 | 222 | 9 | 97 | 5 | 0 | 111 | 398 |
| 9:00PM | 2 | 0 | 3 | 0 | 5 | 1 | 1 | 5 | 0 | 7 | 2 | 37 | 1 | 0 | 40 | 1 | 24 | 2 | 0 | 27 | 79 |
| 9:15PM | 3 | 1 | 3 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 28 | 1 | 0 | 30 | 0 | 20 | 0 | 0 | 20 | 57 |
| 9:30PM | 1 | 1 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 11 | 0 | 0 | 15 | 1 | 18 | 2 | 0 | 21 | 40 |
| 9:45PM | 2 | 0 | 2 | 0 | 4 | 1 | 1 | 1 | 0 | 3 | 2 | 15 | 1 | 0 | 18 | 1 | 9 | 0 | 0 | 10 | 35 |
| Hourly | | | | | | | | | | | | | | | | | | | | | |
| Total | 8 | 2 | 10 | 0 | 20 | 2 | 2 | 6 | 0 | 10 | 9 | 91 | 3 | 0 | 103 | 3 | 71 | 4 | 0 | 78 | 211 |
| 10:00PM | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 12 | 0 | 0 | 13 | 1 | 14 | 0 | 0 | 15 | 29 |
| 10:15PM | 0 | 1 | 3 | 0 | 4 | 0 | 1 | | 0 | | | | 0 | 0 | 12 | 1 | | 1 | 0 | 13 | 30 |
| 10:30PM | 0 | 0 | 2 | 0 | 2 | 0 | 1 | | 0 | | 1 | 10 | 0 | 0 | 11 | 0 | | 0 | 0 | 7 | |
| 10:45PM | 1 | 0 | 2 | 0 | 3 | 0 | 2 | 0 | 0 | 2 | 0 | 4 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 4 | 13 |
| Hourly | | | | | | | | | | | | | | | | | | | | | |
| Total | 2 | 1 | 7 | 0 | 10 | 0 | 4 | 0 | 0 | | 4 | 36 | 0 | 0 | 40 | 2 | | 1 | 0 | 39 | 93 |
| 11:00PM | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | | 0 | 3 | 0 | 0 | 3 | 2 | | 0 | 0 | 11 | 17 |
| 11:15PM | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 1 | | | 0 | 8 | 1 | 0 | 9 | 0 | | 0 | 0 | 4 | 16 |
| 11:30PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | | | 1 | | 0 | 0 | 7 | 0 | | 0 | 0 | 2 | |
| 11:45PM | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 3 | 0 | 4 | 0 | 4 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 1 | 11 |
| Hourly | | 2 | 2 | 0 | _ | | , | _ | | 10 | 1 | 2.1 | 1 | 0 | 2.2 | | 10 | 0 | 0 | 10 | |
| Total | 0 | 3 | 2 | 0 | 5 | 1 | 4 | 5 | 0 | | 1 | | 1 | 0 | 23 | 2 | | 0 | 0 | 18 | 56 |
| Total | 236 | 721 | 1026 | 2 | 1985 | 262 | 733 | 788 | 0 | 1783 | 1061 | 3742 | 278 | 1 | 5082 | 815 | 3712 | 289 | 1 | 4817 | 13667 |
| % | 11.00/ | 0.0.00/ | E 4 E 0/ | 0.40/ | | 4.4.50/ | 44.40/ | 4.4.00/ | 00/ | | 20.00/ | FD 60/ | o/ | 0.07 | | 10.00/ | == 40/ | 6.00/ | 0.07 | | |
| Approach | | | | 0.1% | | 14.7% | | | | | 20.9% | | 5.5% | 0% | - | | 77.1% | 6.0% | 0% | - | - |
| % Total | 1.7% | 5.3% | 7.5% | | 14.5% | 1.9% | 5.4% | | | 13.0% | | 27.4% | 2.0% | | 37.2% | | 27.2% | 2.1% | | 35.2% | 40040 |
| Lights | 233 | 709 | 942 | 2 | | 224 | 714 | 777 | 0 | | 1022 | | 224 | 1 | | 802 | | 285 | 1 | | |
| % Lights | 98.7% | 98.3% | 91.8% | 100% | 95.0% | 85.5% | 97.4% | 98.6% | 0% | 96.2% | 96.3% | 97.6% | 80.6% | 100% | 96.4 % | 98.4% | 97.8% | 98.6% | 100% | 98.0% | 96.7% |
| Articulated Trucks | 0 | 1 | 3 | 0 | 4 | 2 | 3 | 3 | 0 | 8 | 1 | 16 | 1 | 0 | 18 | 1 | 12 | 1 | 0 | 14 | 44 |
| % | - | 1 | J | 0 | - | | | <u> </u> | - 0 | 0 | 1 | 10 | 1 | 0 | 10 | 1 | 12 | 1 | - 0 | 14 | 4 |
| Artic ulate d | | | | | | | | | | | | | | | | | | | | | |
| Trucks | 0% | 0.1% | 0.3% | 0% | 0.2% | 0.8% | 0.4% | 0.4% | 0% | 0.4% | 0.1% | 0.4% | 0.4% | 0% | 0.4 % | 0.1% | 0.3% | 0.3% | 0% | 0.3% | 0.3% |
| Buses and | | | | | | | | | | | | | | | | | | | | | |
| Single -Unit | _ | | | _ | | | | _ | | | | | | _ | | | | _ | | | |
| Trucks | 3 | 11 | 81 | 0 | 95 | 36 | 16 | 8 | 0 | 60 | 38 | 74 | 53 | 0 | 165 | 12 | 69 | 3 | 0 | 84 | 404 |
| % Buses | | | | | | | | | | | | | | | | | | | | | |
| and Single-Unit | | | | | | | | | | | | | | | | | | | | | |
| Trucks | 1.3% | 1.5% | 7.9% | 0% | 4.8% | 13.7% | 2.2% | 1.0% | 0% | 3.4 % | 3.6% | 2.0% | 19.1% | 0% | 3.2% | 1.5% | 1.9% | 1.0% | 0% | 1.7% | 3.0% |
| | | | | | | | | | | | - | | | | | | | | | | |

^{*}L: Left, R: Right, T: Thru, U: U-Turn

B29 of 40 3 of 10

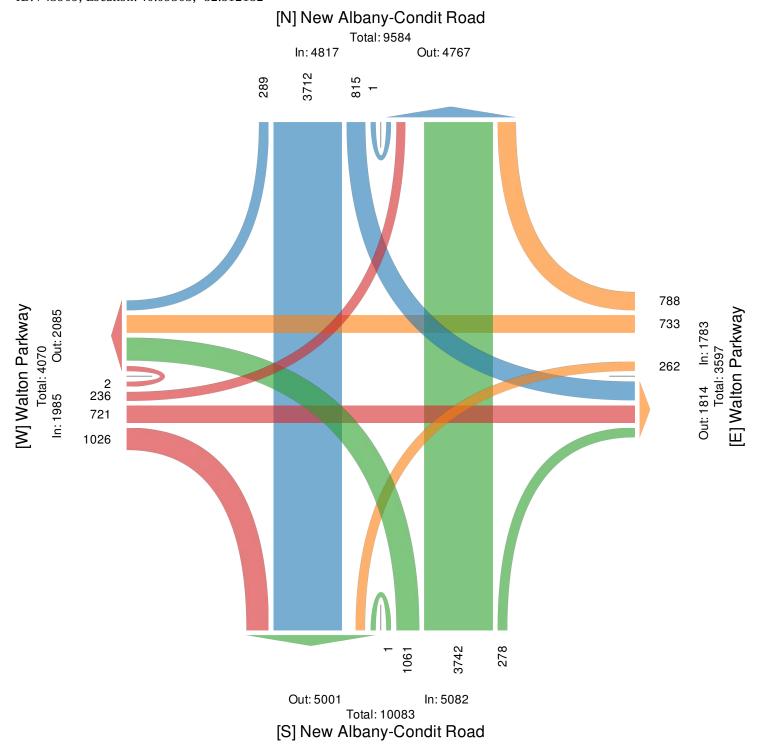
Thu Jan 23, 2020

Full Length (12 AM-12 AM (+1))

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 743909, Location: 40.09303, -82.812182



B30 of 40 4 of 10

New Albany-Condit Road and Walton Parkway - TMC

Thu Jan 23, 2020

AM Peak (7:30 AM - 8:30 AM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks, Buses and Single-Unit

Trucks)

All Movements

ID: 743909, Location: 40.09303, -82.812182

Provided by: Carpenter Marty (CM) Transportation Inc. 6612 Singletree Drive, Columbus, OH, 43229, US

| Le g | Walton | Parkwa | y | | | Walton | Parkwa | y | | | Ne w Al | bany-C | ondit Ro | oad | | Ne w Al | bany-C | ondit R | oad | | |
|---|---------|--------|-------|----|-------|--------|--------|-------|----|-------|---------|--------|----------|-----|-------|---------|--------|---------|-----|---------|-------|
| Direction | Eastbou | ınd | | | | Westbo | ound | | | | Northb | ound | | | | Southb | ound | | | | |
| Time | L | T | R | U | App | L | T | R | U | App | L | T | R | U | App | L | T | R | U | App | Int |
| 2020-01-23 7:30AM | 2 | 15 | 28 | 0 | 45 | 7 | 22 | 44 | 0 | 73 | 26 | 88 | 8 | 0 | 122 | 28 | 143 | 5 | 0 | 176 | 4 16 |
| 7:45AM | 3 | 16 | 27 | 0 | 46 | 7 | 19 | 44 | 0 | 70 | 47 | 99 | 13 | 0 | 159 | 34 | 153 | 25 | 0 | 212 | 487 |
| 8:00AM | 0 | 24 | 34 | 0 | 58 | 3 | 16 | 15 | 0 | 34 | 44 | 71 | 14 | 0 | 129 | 31 | 106 | 15 | 0 | 152 | 373 |
| 8:15AM | 3 | 27 | 22 | 0 | 52 | 1 | 15 | 23 | 0 | 39 | 29 | 66 | 6 | 0 | 101 | 26 | 81 | 13 | 0 | 120 | 312 |
| Total | 8 | 82 | 111 | 0 | 201 | 18 | 72 | 126 | 0 | 216 | 146 | 324 | 41 | 0 | 511 | 119 | 483 | 58 | 0 | 660 | 1588 |
| % Approach | 4.0% | 40.8% | 55.2% | 0% | - | 8.3% | 33.3% | 58.3% | 0% | - | 28.6% | 63.4% | 8.0% | 0% | - | 18.0% | 73.2% | 8.8% | 0% | - | - |
| % Total | 0.5% | 5.2% | 7.0% | 0% | 12.7% | 1.1% | 4.5% | 7.9% | 0% | 13.6% | 9.2% | 20.4% | 2.6% | 0% | 32.2% | 7.5% | 30.4% | 3.7% | 0% | 4 1.6 % | - |
| PHF | 0.667 | 0.759 | 0.816 | - | 0.866 | 0.643 | 0.818 | 0.716 | - | 0.740 | 0.777 | 0.818 | 0.732 | - | 0.803 | 0.875 | 0.789 | 0.580 | - | 0.778 | 0.815 |
| Lights | 7 | 82 | 94 | 0 | 183 | 16 | 70 | 126 | 0 | 212 | 138 | 310 | 35 | 0 | 483 | 118 | 469 | 58 | 0 | 645 | 1523 |
| % Lights | 87.5% | 100% | 84.7% | 0% | 91.0% | 88.9% | 97.2% | 100% | 0% | 98.1% | 94.5% | 95.7% | 85.4% | 0% | 94.5% | 99.2% | 97.1% | 100% | 0% | 97.7% | 95.9% |
| Artic ula te d T ruc ks | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 5 |
| % Artic ulate d T ruc ks | 0% | 0% | 0.9% | 0% | 0.5% | 5.6% | 1.4% | 0% | 0% | 0.9% | 0% | 0.3% | 0% | 0% | 0.2% | 0% | 0.2% | 0% | 0% | 0.2% | 0.3% |
| Buses and Single-Unit Trucks | 1 | 0 | 16 | 0 | 17 | 1 | 1 | 0 | 0 | 2 | 8 | 13 | 6 | 0 | 27 | 1 | 13 | 0 | 0 | 14 | 60 |
| % Buses and Single-Unit Trucks | 12.5% | 0% | 14.4% | 0% | 8.5% | 5.6% | 1.4% | 0% | 0% | 0.9% | 5.5% | 4.0% | 14.6% | 0% | 5.3% | 0.8% | 2.7% | 0% | 0% | 2.1% | 3.8% |

^{*}L: Left, R: Right, T: Thru, U: U-Turn

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Provided by: Carpenter Marty (CM) Transportation Inc. 6612 Singletree Drive, Columbus, OH, 43229, US

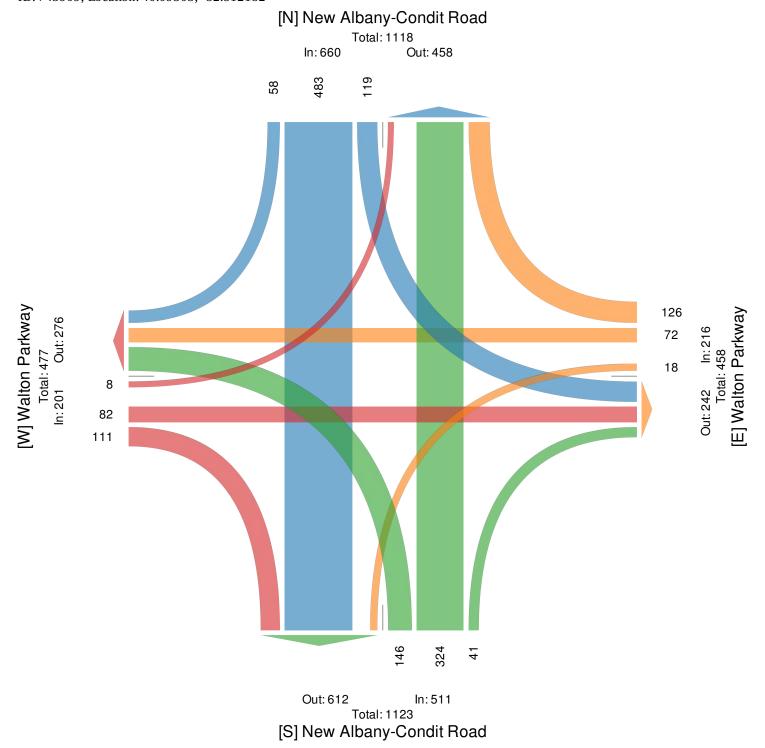
Thu Jan 23, 2020

AM Peak (7:30 AM - 8:30 AM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 743909, Location: 40.09303, -82.812182



B32 of 40

6 of 10

New Albany-Condit Road and Walton Parkway - TMC

Thu Jan 23, 2020

Midday Peak (11:45 AM - 12:45 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit

Trucks)

All Movements

ID: 743909, Location: 40.09303, -82.812182

Provided by: Carpenter Marty (CM) Transportation Inc. 6612 Singletree Drive, Columbus, OH, 43229, US

| Le g | Walton | Parkwa | ıy | | | Walton | Parkwa | ıy | | | Ne w Al | bany-C | ondit R | oad | | Ne w A | lbany-C | ondit Ro | ad | | |
|---|--------|--------|-------|-------|-------|--------|--------|-------|------------|-------|---------|--------|---------|------|--------|--------|---------|----------|------|--------|--------|
| Dire ction | Eastbo | und | | | | Westbo | ound | | | | Northb | ound | | | | Southb | ound | | | | |
| Time | L | T | R | U | App | L | T | R | U | App | L | T | R | U | App | L | T | R | U | App | Int |
| 2020-01-23 | | 15 | 0 | 0 | 2.5 | | 2.4 | 10 | 0 | 2.5 | 10 | 40 | - | _ | 6.0 | | 56 | 0 | 0 | | 101 |
| 11:45 AM | 1 | 15 | 9 | 0 | 25 | 1 | 24 | 10 | 0 | 35 | 19 | 43 | 1 | | 63 | 4 | | 8 | 0 | 68 | 191 |
| 12:00PM | 9 | 16 | 21 | 0 | | 8 | 31 | 6 | 0 | 45 | 19 | 53 | 4 | | 76 | 5 | 40 | 6 | 0 | 51 | 218 |
| 12:15PM | 6 | 17 | 23 | 1 | | 4 | 13 | 9 | | 26 | 19 | 56 | | | 79 | 13 | 35 | 2 | 0 | 50 | 202 |
| 12:30PM | 2 | 25 | 13 | 0 | 40 | 3 | 14 | 5 | 0 | 22 | 16 | 41 | 7 | 0 | 64 | 9 | 52 | 10 | 0 | 71 | 197 |
| Total | 18 | 73 | 66 | 1 | 158 | 16 | 82 | 30 | 0 | 128 | 73 | 193 | 16 | 0 | 282 | 31 | 183 | 26 | 0 | 240 | 808 |
| % Approach | 11.4% | 46.2% | 41.8% | 0.6% | - | 12.5% | 64.1% | 23.4% | 0% | - | 25.9% | 68.4% | 5.7% | 0% | - | 12.9% | 76.3% | 10.8% | 0% | | - |
| % Total | 2.2% | 9.0% | 8.2% | 0.1% | 19.6% | 2.0% | 10.1% | 3.7% | 0% | 15.8% | 9.0% | 23.9% | 2.0% | 0% | 34.9% | 3.8% | 22.6% | 3.2% | 0% | 29.7% | - |
| PHF | 0.500 | 0.730 | 0.717 | 0.250 | 0.840 | 0.500 | 0.661 | 0.750 | - | 0.711 | 0.961 | 0.862 | 0.571 | - | 0.892 | 0.596 | 0.817 | 0.650 | - | 0.845 | 0.927 |
| Lights | 18 | 73 | 66 | 1 | 158 | 16 | 82 | 30 | 0 | 128 | 71 | 187 | 16 | 0 | 274 | 31 | 178 | 25 | 0 | 234 | 794 |
| % Lights | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 0% | 100% | 97.3% | 96.9% | 100% | 0% | 97.2% | 100% | 97.3% | 96.2% | 0% | 97.5% | 98.3% |
| Artic ulate d Truc ks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| % Artic ula te d Truc ks | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0.5% | 0% | 0% | 0.4 % | 0% | 0% | 0% | 0% | 0 % | 0.1% |
| Buses and Single-Unit Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 0 | 0 | 7 | 0 | 5 | 1 | 0 | 6 | 13 |
| % Buses and Single-Unit Trucks | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | n % | 0% | 2.7% | 2.6% | 0% | n% | 2.5% | 0% | 2.7% | 3.8% | n% | 2.5% | 1.6% |
| * | | 0 70 | 0 /0 | 0 /0 | 0 70 | 0 /0 | 0 70 | 0 /0 | 0 /0 | J /0 | 2.7 /0 | 2.070 | 0 /0 | 0 /0 | 2.5 /0 | 0 70 | 2.7 /0 | 5.0 /0 | 0 /0 | 2.5 /0 | 1.0 /0 |

^{*}L: Left, R: Right, T: Thru, U: U-Turn

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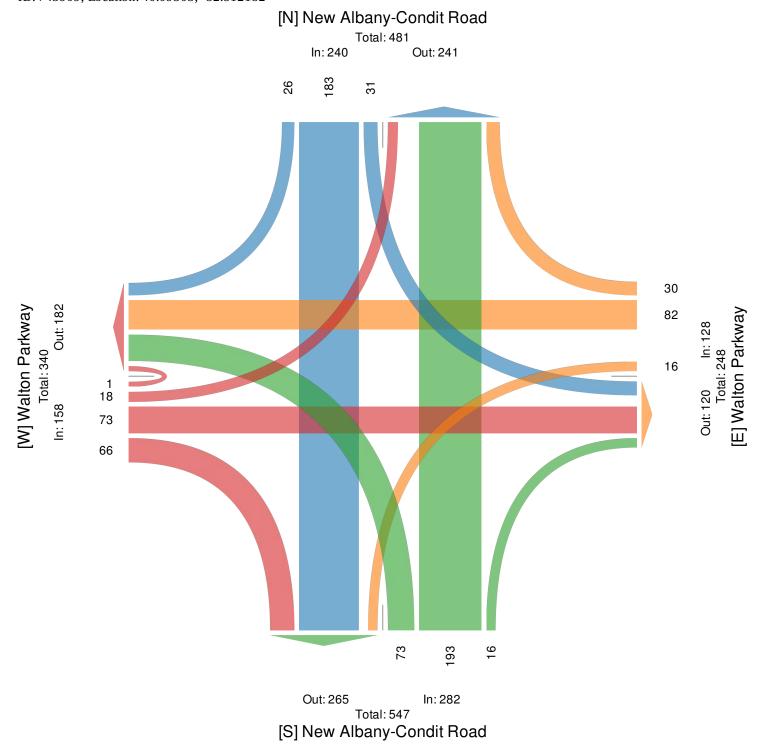
Thu Jan 23, 2020

Midday Peak (11:45 AM - 12:45 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 743909, Location: 40.09303, -82.812182



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8 of 10

New Albany-Condit Road and Walton Parkway - TMC

Thu Jan 23, 2020

PM Peak (4:30 PM - 5:30 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit

Trucks)

All Movements

ID: 743909, Location: 40.09303, -82.812182

Provided by: Carpenter Marty (CM) Transportation Inc. 6612 Singletree Drive, Columbus, OH, 43229, US

| Le g | Walton | Parkwa | y | | | Walton | Parkwa | y | | | Ne w Al | bany-C | ondit R | oad | | Ne w Al | lbany-Co | ondit F | Road | | |
|---|--------|--------|-------|----|-------|--------|--------|-------|----|-------|---------|--------|---------|-----|-------|---------|----------|---------|------|-------|-------|
| Direction | Eastbo | und | | | | Westbo | ound | | | | Northb | ound | | | | Southb | ound | | | | |
| Time | L | T | R | U | App | L | T | R | U | App | L | T | R | U | App | L | T | R | U | App | Int |
| 2020-01-23 4:30PM | | 31 | 38 | 0 | 83 | 10 | 17 | 27 | 0 | 54 | 18 | 91 | 1 | 0 | 110 | 47 | 108 | 1 | 0 | 156 | 403 |
| 4:45PM | 7 | 22 | 25 | 0 | 54 | 2 | 16 | 16 | 0 | 34 | 18 | 106 | 4 | 0 | 128 | 27 | 92 | 3 | 0 | 122 | 338 |
| 5:00PM | 16 | 37 | 36 | 0 | 89 | 14 | 25 | 37 | 0 | 76 | 16 | 104 | 2 | 0 | 122 | 29 | 106 | 7 | 0 | 14 2 | 429 |
| 5:15PM | 5 | 13 | 28 | 0 | 46 | 10 | 30 | 26 | 0 | 66 | 12 | 114 | 5 | 0 | 131 | 39 | 76 | 7 | 0 | 122 | 365 |
| Total | 42 | 103 | 127 | 0 | 272 | 36 | 88 | 106 | 0 | 230 | 64 | 415 | 12 | 0 | 491 | 142 | 382 | 18 | 0 | 542 | 1535 |
| % Approach | 15.4% | 37.9% | 46.7% | 0% | - | 15.7% | 38.3% | 46.1% | 0% | - | 13.0% | 84.5% | 2.4% | 0% | - | 26.2% | 70.5% | 3.3% | 0% | - | - |
| % Total | 2.7% | 6.7% | 8.3% | 0% | 17.7% | 2.3% | 5.7% | 6.9% | 0% | 15.0% | 4.2% | 27.0% | 0.8% | 0% | 32.0% | 9.3% | 24.9% | 1.2% | 0% | 35.3% | - |
| PHF | 0.656 | 0.696 | 0.836 | - | 0.764 | 0.643 | 0.733 | 0.716 | - | 0.757 | 0.889 | 0.910 | 0.600 | - | 0.937 | 0.755 | 0.884 | 0.643 | - | 0.869 | 0.895 |
| Lights | 42 | 101 | 127 | 0 | 270 | 35 | 86 | 105 | 0 | 226 | 60 | 412 | 12 | 0 | 484 | 142 | 380 | 18 | 0 | 540 | 1520 |
| % Lights | 100% | 98.1% | 100% | 0% | 99.3% | 97.2% | 97.7% | 99.1% | 0% | 98.3% | 93.8% | 99.3% | 100% | 0% | 98.6% | 100% | 99.5% | 100% | 0% | 99.6% | 99.0% |
| Artic ulate d Truc ks | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 |
| % Artic ulate d T ruc ks | 0% | 0% | 0% | 0% | 0% | 0% | 1.1% | 0.9% | 0% | 0.9% | 1.6% | 0.2% | 0% | 0% | 0.4 % | 0% | 0% | 0% | 0% | 0% | 0.3% |
| Buses and Single-Unit Trucks | | 2 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 2 | 3 | 2 | 0 | 0 | 5 | 0 | 2 | 0 | 0 | 2 | 11 |
| % Buses and Single-Unit Trucks | | 1.9% | 0% | 0% | 0.7% | 2.8% | 1.1% | 0% | 0% | 0.9% | 4.7% | 0.5% | 0% | 0% | 1.0% | 0% | 0.5% | 0% | 0% | 0.4 % | 0.7% |

^{*}L: Left, R: Right, T: Thru, U: U-Turn

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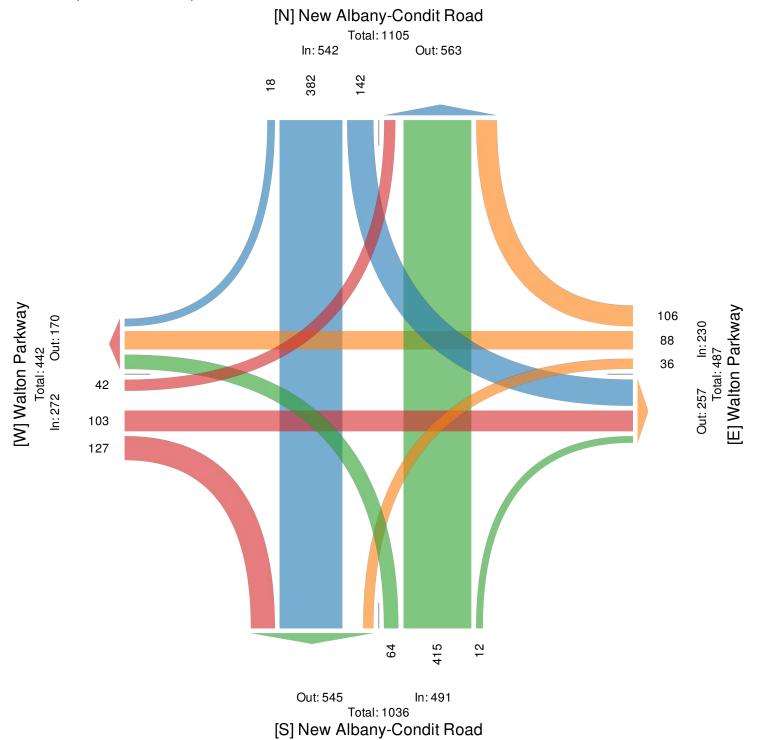
Thu Jan 23, 2020

PM Peak (4:30 PM - 5:30 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Movements

ID: 743909, Location: 40.09303, -82.812182



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Chelsea Cousins

From: Hwashik Jang <hjang@morpc.org>
Sent: Friday, March 6, 2020 3:16 PM

To: Chelsea Cousins

Cc: Drew Laurent; Nick Gill; Zhuojun Jiang

Subject: RE: Growth Rate Request - New Albany Microbrewery

Chelsea,

We have completed processing growth rates for your study intersection.

Please use linear annual growth rates as summarized below.

| Location | Linear Annual Growth Rate |
|-------------------------------|------------------------------|
| Central College Rd e/o SR 605 | 1.30% |
| SR 605 n/o Central College Rd | 1.70% |
| Central College Rd w/o SR 605 | 1.10% |
| SR 605 s/o Central College Rd | 1.30% |

Note: The above rate was derived based on planning level analysis by using MORPC's regional travel demand model.

If you have any questions, please let me know.

Thanks,

HWASHIK JANG

Senior Planner | Mid-Ohio Regional Planning Commission T: 614.233.4145 | hjang@morpc.org

111 Liberty Street, Suite 100 | Columbus, OH 43215



From: Chelsea Cousins <ccousins@cmtran.com> Sent: Monday, February 3, 2020 10:22 AM

To: Hwashik Jang <hjang@morpc.org>; Nick Gill <NGILL@morpc.org>; Zhuojun Jiang <zjiang@morpc.org>

Cc: Drew Laurent <dlaurent@cmtran.com>

Subject: Growth Rate Request - New Albany Microbrewery

All,

We would like to request growth rates for the intersection of New Albany-Condit Road & Central College Road in New Albany, OH. We are conducting a traffic study for a development in the northeast corner of the intersection. The site is proposed to develop as a microbrewery. The opening year will be 2020 with a 10 year horizon. The study will be reviewed by the City of New Albany. See the attached count and preliminary site plan for your use.

Thank you,

Chelsea Cousins, EIT



| Segment | 2020 Count ADT | 2050 MORPC ADT | ADT Site Traffic Removed | 2050 No Build ADT | Growth Rate |
|---|-------------------|-------------------|-----------------------------|----------------------|----------------|
| New Albany Road W- West of | 19100 | 21400 | 382 | 21018 | 1.00% |
| New Albany Rd | 19100 | 21400 | 362 | 21010 | 1.00% |
| New Albany Road E- East of New Albany Rd | 17900 | 24900 | 0 | 24900 | 1.30% |
| New Albany Road- New Albany Rd to SR-161 Westbound Ramps | 30300 | 37400 | 382 | 37018 | 1.00% |
| New Albany Road- SR-161 Westbound Ramps to SR-161 Eastbound Ramps | 22400 | 27300 | 3917 | 23383 | 1.00% |
| New Albany Road- SR-161 Eastbound Ramps to Fodor Rd | 13900 | 17200 | 7452 | 9748 | 1.00% |
| SR-161 Eastbound Exit Ramp to New Albany Rd | 12800 | 16000 | 3535 | 12465 | 1.00% |
| SR-161 Westbound Exit Ramp to New Albany Rd | 3400 | 3300 | 0 | 3300 | 1.00% |
| Fodor Road- West of New Albany Rd | 5700 | 5900 | 0 | 5900 | 1.00% |
| Fodor Road- New Albany Rd to Dublin Granville Road | 9000 | 11200 | 7452 | 3748 | 1.00% |
| Swickard Woods Boulevard- North of Fodor Rd | 900 | 1800 | 0 | 1800 | 3.00% |
| Dublin Granville Road- West of Fodor Rd/Market St | 6800 | 13700 | 647 | 13053 | 3.00% |
| Dublin Granville Road- Fodor Rd/Market St to High St | 3300 | 7900 | 2520 | 5380 | 2.10% |
| Dublin Granville Road- High St to Kitzmiller Rd | 2800 | 5000 | 560 | 4440 | 1.95% |
| Dublin Granville Road- East of Kitzmiller Rd | 3000 | 6800 | 0 | 6800 | 3.00% |
| Kitzmiller Road- North of Dublin Granville Rd | 3900 | 10300 | 0 | 10300 | 3.00% |
| Kitzmiller Road- South of Dublin Granville Rd | 2600 | 5400 | 0 | 5400 | 3.00% |
| Market Street- Dublin Granville Rd to Main St | 9600 | 16000 | 4553 | 11447 | 1.00% |
| Market Street- Main St to High St | 4000 | 7400 | 2515 | 4885 | 1.00% |
| Main Street- South of Market St to Thurston Hall Blvd/Theisen Rd | 9200 | 14600 | 6145 | 8455 | 1.00% |
| Johnstown Road- Thurston Hall Blvd/Theisen Rd to SR-161 Eastbound Ramps | 9500 | 16300 | 9758 | 6542 | 1.00% |
| Johnstown Road- SR-161 Eastbound Ramps to SR-161 Westbound Ramps | 17600 | 25100 | 5526 | 19574 | 1.00% |

| Segment | 2020 Count ADT | 2050 MORPC ADT | ADT Site Traffic Removed | 2050 No Build ADT | Growth Rate |
|---|-------------------|-------------------|-----------------------------|----------------------|----------------|
| Johnstown Road- SR-161 Westbound Ramps to Walton Pkwy | 26200 | 37700 | 1294 | 36406 | 1.30% |
| SR-161 Eastbound Exit Ramp to Johnstown Rd | 10600 | 13100 | 348 | 12752 | 1.00% |
| SR-161 Westbound Exit Ramp to Johnstown Rd | 2500 | 4600 | 3884 | 716 | 1.00% |
| High Street/New Albany-Condit Road- South of Market St to Walton Pkwy | 9000 | 15500 | 1781 | 13719 | 1.75% |
| New Albany-Condit Road- North of Walton Pkwy | 9600 | 14200 | 1105 | 13095 | 1.21% |
| Walton Parkway- New Albany Rd to East of New Albany-Condit Rd | 3800 | 9100 | 0 | 9100 | 3.00% |
| 3rd Street- Dublin Granville Rd to Main St | 700 | 400 | 1492 | -1092 | 1.00% |

^{*}If the calculated growth rate was less than 1%, a minimum of 1% was used. Likewise, if the calculated growth rate was greater than 3%, a maximum of 3% was used.

Appendix CTrip Generation



6/8/2021 5:54 PM

| Scenario - 1 | | |
|------------------------|---|--|
| Scenario Name: AM Peak | | |
| Dev. phase: 1 | No. of Years to Project ₀ Traffic : | |
| Analyst Note: | | |
| | | |
| Warning: | | |

VEHICLE TRIPS BEFORE REDUCTION

| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 20:4000 | 2 | orio. | Zojivo G owij. | Method | Entry | Exit | - C+OF |
|---|----------------|--|-------------|--|-------------------------|--------|--------|--------|
| Land Ose & Data Source | LOCATION | | 2125 | | Rate/Equation | Split% | Split% | |
| 210 - Single-Family Detached Housing | General | 3+; G 5 G G C C C C C C C C | 7.0 | Weekday, Peak Hour of Adjacent Street Traffic, One | Best Fit (LIN) | 8 | 23 | 10 |
| Data Source: Trip Gen Manual, 10th Ed + | Urban/Suburban | CWEIIIIB OIIIIS | 37 | Hour Between 7 and 9 a.m. | T = 0.71(X) + 4.80 | 25% | 75% | 10 |
| 220 - Multifamily Housing (Low-Rise) | General | 3+ia11 paillow0 | 100 | Weekday, Peak Hour of Adjacent Street Traffic, One | Best Fit (LOG) | 34 | 115 | 140 |
| Data Source: Trip Gen Manual, 10th Ed + | Urban/Suburban | CWEIIIIB DIIIIS | 33 <u>1</u> | Hour Between 7 and 9 a.m. | Ln(T) =0.95Ln(X) - 0.51 | 23% | 77% | 143 |
| 820 - Shopping Center | General | V 15' +1' ~3 0001 | 11.15 | Weekday, Peak Hour of Adjacent Street Traffic, One | Best Fit (LIN) | 66 | 09 | 750 |
| Data Source: Trip Gen Manual, 10th Ed + | Urban/Suburban | TOOD 34: FL. GLA | 14.40 | Hour Between 7 and 9 a.m. | T = 0.50(X) + 151.78 | 62% | 38% | 6CT |
| 252 - Senior Adult Housing - Attached | General | 3+ia11 paillom0 | 175 | Weekday, Peak Hour of Adjacent Street Traffic, One | Best Fit (LIN) | 6 | 16 | 36 |
| Data Source: Trip Gen Manual, 10th Ed + | Urban/Suburban | CWEIIIIB DIIIIS | 123 | Hour Between 7 and 9 a.m. | T = 0.20(X) - 0.18 | 35% | %59 | 67 |
| 411 - Public Park | General | 3645 V | 4 47 | Weekday, Peak Hour of Adjacent Street Traffic, | Average | 0 | 0 | C |
| Data Source: Trip Gen Manual, 10th Ed + | Urban/Suburban | SOLON | 0.47 | One Hour Between 7 and 9 a.m. | 0.02 | 29% | 41% | 0 |

VEHICLE TO PERSON TRIP CONVERSION

BASELINE SITE VEHICLE CHARACTERISTICS:

| | Ba | Baseline Site Vehicle Mode Share | Baseline Site Vehicle Occupancy | icle Occupancy | Baseline Site Vehicle Directional Split | le Directional Split |
|----------------------------------|-----------|----------------------------------|---------------------------------|----------------|---|----------------------|
| | Entry (%) | Exit (%) | Entry | Exit | Entry (%) | Exit (%) |
| Single-Family Detached Housing | 100 | 100 | 1 | 1 | 25 | 75 |
| · Multifamily Housing (Low-Rise) | 100 | 100 | 1 | 1 | 23 | 77 |
| - Shopping Center | 100 | 100 | 1 | 1 | 62 | 38 |
| Senior Adult Housing - Attached | 100 | 100 | 1 | 1 | 32 | 65 |
| - Public Park | 100 | 100 | 1 | 1 | 65 | 41 |

ESTIMATED BASELINE SITE PERSON TRIPS:

| | | Person Trips by Vehicle | Person Trips by Other Modes | er Modes | Total Baseline Site Person Trips | ite Person Trips |
|--|-------|-------------------------|-----------------------------|----------|----------------------------------|------------------|
| | Entry | Exit | Entry | Exit | Entry | Exit |
| 210 - Cingle Family Detached Housing | 8 | 23 | 0 | 0 | 8 | 23 |
| ZIO - Single-Falliny Detached Housing | | 31 | 0 | | 31 | 1 |
| (230 W. !) = ================================= | 34 | 115 | 0 | 0 | 34 | 115 |
| ZZO - INIQUENTALINI MOUSHING (FOW-RISE) | | 149 | 0 | | 149 | 6: |
| 930 - Chaming Contar | 66 | 09 | 0 | 0 | 66 | 09 |
| ozo - siloppilig celitel | | 159 | 0 | | 159 | 6 |
| Senior Adult Housing Attached | 6 | 16 | 0 | 0 | 6 | 16 |
| 222 - Selloi Addit nodsiilg - Atracijed | | 25 | 0 | | 25 | 2 |
| 111 - Dublic Dark | 0 | 0 | 0 | 0 | 0 | 0 |
| 4II - TUDIIC FAIN | | 0 | 0 | | 0 | |
| | | | | | | |

VEHICLE TRIPS AFTER MULTI-MODAL ADJUSTMENT

| MODE SHARE: | | | | | | |
|---------------------------------------|-----------|----------------------------|-----------|----------|-----------|-------------|
| | | Personal Passenger Vehicle | Truck | | Other | Other Modes |
| | Entry (%) | Exit (%) | Entry (%) | Exit (%) | Entry (%) | Exit (%) |
| 210 - Single-Family Detached Housing | 100% | 100% | %0 | %0 | %0 | %0 |
| 220 - Multifamily Housing (Low-Rise) | 100% | 100% | %0 | %0 | %0 | %0 |
| 820 - Shopping Center | 100% | 100% | %0 | %0 | %0 | %0 |
| 252 - Senior Adult Housing - Attached | 100% | 100% | %0 | %0 | %0 | %0 |
| 411 - Public Park | 100% | 100% | %0 | %0 | %0 | %0 |
| | | | | | | |

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| OCCUPANCY: | | |
|---------------------------------------|-------|---------|
| | Veh | Vehicle |
| | Entry | Exit |
| 210 - Single-Family Detached Housing | 1.00 | 1.00 |
| 220 - Multifamily Housing (Low-Rise) | 1.00 | 1.00 |
| 820 - Shopping Center | 1.00 | 1.00 |
| 252 - Senior Adult Housing - Attached | 1.00 | 1.00 |
| 411 - Public Park | 1.00 | 1.00 |

| 411 - Public Park | | | | | | | 1.00 | 1.00 |
|---------------------------------------|--------------|------------------------|-------------------|---------------|--------------|---------------------------|-------------------|---------------|
| ADJUSTED VEHICLE TRIPS: | | | | | | | | |
| | | | Entry | | | Exit | | |
| Land Use | Person Trips | Vehicle Mode Share (%) | Vehicle Occupancy | Vehical Trips | Person Trips | Vehicle Mode Share (%) | Vehicle Occupancy | Vehical Trips |
| 210 - Single-Family Detached Housing | 8 | 100% | 1.00 | 8 | 23 | 100% | 1.00 | 23 |
| 220 - Multifamily Housing (Low-Rise) | 34 | 100% | 1.00 | 34 | 115 | 100% | 1.00 | 115 |
| 820 - Shopping Center | 66 | 100% | 1.00 | 66 | 60 | 100% | 1.00 | 90 |
| 252 - Senior Adult Housing - Attached | 6 | 100% | 1.00 | 6 | 16 | 100% | 1.00 | 16 |
| 411 - Public Park | 0 | 100% | 1.00 | 0 | 0 | 100% | 1.00 | 0 |
| | | | | | | | | |

| Land Use | Person Trips | Vehicle Mode Share (%) | Vehicle Occupancy | Vehical Trips | Person Trips | Vehicle Mode Share (%) | Vehicle Occupancy | Vehical Trips |
|---------------------------------------|--------------|------------------------|-------------------|---------------|--------------|------------------------|-------------------|---------------|
| 210 - Single-Family Detached Housing | 8 | 100% | 1.00 | 8 | 23 | 100% | 1.00 | 23 |
| 220 - Multifamily Housing (Low-Rise) | 34 | 100% | 1.00 | 34 | 115 | 100% | 1.00 | 115 |
| 820 - Shopping Center | 66 | 100% | 1.00 | 66 | 09 | 100% | 1.00 | 09 |
| 252 - Senior Adult Housing - Attached | 6 | 100% | 1.00 | 6 | 16 | 100% | 1.00 | 16 |
| 411 - Public Park | 0 | 100% | 1.00 | 0 | 0 | 100% | 1.00 | 0 |
| INTERNAL VEHICLE TRIP REDUCTION | | | | | | | | |
| LAND USE GROUP ASSIGNMENT: | | | | | | | | |
| Land Use | | | | | | | Land Use Group | |
| 210 - Single-Family Detached Housing | | | | | н_ | Residential | | |
| 220 - Multifamily Housing (Low-Rise) | | | | | я | Residential | | |
| 820 - Shopping Center | | | | | я. | Retail | | |
| 252 - Senior Adult Housing - Attached | | | | | F | Residential | | |
| 411 - Public Park | | | | |) | Cinema | | |
| | | | | | | | | |

| BALANCED PERSON TRIPS: | _ | | | | | | | |
|--------------------------------------|------------|------------------|----------------------|----------------------|-----------------------------|-----------------|--------------|---------------------------------------|
| 210 - Single-Family Detached Housing | ed Housing | | | | | | 220 - Multif | 220 - Multifamily Housing (Low-Rise) |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 23 | Н | 0 | 0 | 0 | 0 | 0 | ₽ | 34 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| ∞ | Н | 0 | 0 | 0 | 0 | 0 | П | 115 |
| 210 - Single-Family Detached Housing | ed Housing | | | | | | | 820 - Shopping Center |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 23 | Н | 4 | 1 | 1 | 9 | 5.6666666666667 | Н | 66 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| ∞ | Н | 0.66666666666666 | 0 | 0 | ന | 4.6666666666667 | Н | 09 |
| 210 - Single-Family Detached Housing | ed Housing | | | | | | 252 - Senior | 252 - Senior Adult Housing - Attached |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 23 | ⊣ | 0 | 0 | 0 | 0 | 0 | ₽ | 6 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| ∞ | Н | 0 | 0 | 0 | 0 | 0 | \leftarrow | 16 |
| 210 - Single-Family Detached Housing | ed Housing | | | | | | | 411 - Public Park |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 23 | Н | 0 | 0 | 0 | 0 | 0 | Н | 0 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| ∞ | Н | 0 | 0 | 0 | 0 | 0 | Н | 0 |

| 220 - Multifamily Housing (Low-Rise) | (Low-Rise) | | | | | | | 820 - Shopping Center |
|---------------------------------------|---|-------------------|----------------------|----------------------|----------------------|------------------|----------------|---------------------------------------|
| | (E C W 1/13 C) | | | | | | 1 | |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 115 | П | 4 | S | ហ | 9 | 5.66666666666667 | П | 66 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| 34 | Н | 0.666666666666666 | 0 | 0 | 3 | 4.6666666666667 | П | 09 |
| 220 - Multifamily Housing (Low-Rise) | (Low-Rise) | | | | | | 252 - Senior A | - Senior Adult Housing - Attached |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 115 | Н | 0 | 0 | 0 | 0 | 0 | П | 6 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| 34 | П | 0 | 0 | 0 | 0 | 0 | П | 16 |
| 220 - Multifamily Housing (Low-Rise) | (Low-Rise) | | | | | | | 411 - Public Park |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 115 | ₽ | 0 | 0 | 0 | 0 | 0 | П | 0 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| 34 | П | 0 | 0 | 0 | 0 | 0 | П | 0 |
| 820 - Shopping Center | | | | | | | 252 - Senior A | 252 - Senior Adult Housing - Attached |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 09 | Н | 4.66666666666667 | က | 0 | 0 | 0.6666666666666 | П | 6 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| 66 | П | 5.66666666666667 | 9 | 1 | 1 | 4 | П | 16 |
| 820 - Shopping Center | | | | | | | | 411 - Public Park |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 09 | Н | 0 | 0 | 0 | 0 | 0 | Н | 0 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| 66 | П | 0 | 0 | 0 | 0 | 0 | П | 0 |
| 252 - Senior Adult Housing - Attached | g - Attached | | | | | | | 411 - Public Park |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 16 | Н | 0 | 0 | 0 | 0 | 0 | Н | 0 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| 6 | П | 0 | 0 | 0 | 0 | 0 | П | 0 |
| INTERNAL PERSON TRIPS: | | | | | | | | |
| 210 - Single-Family Detached Housing | ched Housing | | | | | - | | |
| Internal Person Trips From | m ng (Low-Rise) | | | | | Entry | Exit | Total |
| 820 - Shopping Center | (2011) (2011) | | | | | 0 | 0 4 | 0 4 |
| 252 - Senior Adult Housing - Attached | ւց - Attached | | | | | 0 | 0 | 0 |
| 411 - Public Park | | | | | | 0 | 0 | 0 |
| Total Internal Person Trips | bs | | | | | 0 | 1 | 1 |
| 220 - Multifamily Housing (Low-Rise) | g (Low-Rise) | | | | | | | |
| Internal Person Trips From | m Description 100 100 100 100 100 100 100 100 100 10 | | | | | Entry | Exit | Total |
| סוופוב-ו מווווא חבר | actica i loasiiig | | | | | 0 | | 0 |
| | | | | | | | | |

 \mathfrak{C}

| 820 - Shopping Center | 0 | 5 | 5 |
|--|-------------|------|-------|
| 252 - Senior Adult Housing - Attached | 0 | 0 | 0 |
| 411 - Public Park | 0 | 0 | 0 |
| Total Internal Person Trips | 0 | 5 | Ω |
| | | | |
| 820 - Shopping Center | | | H |
| Internal Person Irips From | Entry | EXIT | lotal |
| ZIU - Single-Family Detached Housing | -1 | O (| |
| 220 - INIUITIAMILY HOUSING (LOW-KISE) | ٠ ك | 0 0 | ۷ 4 |
| 252 - Senior Adult Housing - Attached | (| 0 0 | _ (|
| 411 - Public Park | D I | 0 (| ם |
| lotal Internal Person Trips | , | 0 | , |
| Lodout Attached Attached Attached | | | |
| 252 - Senior Adult Housing - Attached | | 3 | F |
| Internal Person Trips From | Entry | EXIT | lotal |
| 210 - Single-Family Detached Housing | 0 | 0 | 0 |
| 220 - Multifamily Housing (Low-Rise) | 0 | 0 | 0 |
| 820 - Shopping Center | 0 | 1 | 1 |
| 411 - Public Park | 0 | 0 | 0 |
| Total Internal Person Trips | 0 | 1 | 1 |
| | | | |
| 411 - Public Park | , | | |
| Internal Person Trips From | Entry | Exit | Total |
| 210 - Single-Family Detached Housing | 0 | 0 | 0 |
| 220 - Multifamily Housing (Low-Rise) | C | C | C |
| 020 Chaming Courts | | | |
| 820 - Shopping Center | 0 (| 0 (| 0 |
| 252 - Senior Adult Housing - Attached | 0 | 0 | 0 |
| Total Internal Person Trips | 0 | 0 | 0 |
| SOLITOR OF THE PARTY OF THE PAR | | | |
| | | | |
| Z10 - Single-Family Detached Housing | | | |
| | , | , | , |
| lotal Internal Person Lrips | 0 | Н | П |
| Vehicle Mode Share | 100% | 100% | |
| Vehicle Occupancy | 1.00 | 1.00 | |
| Total Vehicle Internal Trips | 0 | 1 | 1 |
| Total External Vehicle Trips | 8 | 22 | 30 |
| Internal Vehicle Trip Capture | %0 | 4% | 3% |
| | | | |
| 220 - Multifamily Housing (Low-Rise) | | | |
| Total Internal Person Trips | 0 | 5 | 5 |
| Vehicle Mode Share | 100% | 100% | |
| Vehicle Occupancy | 1.00 | 1.00 | |
| Total Vehicle Internal Trips | 0 | 5 | ß |
| Total External Vehicle Trips | 34 | 110 | 144 |
| Internal Vehicle Trip Capture | %0 | 4% | 3% |
| 820 - Shopping Center | | | |
| Total Internal Person Trips | 7 | C | 7 |
| Total Internal Person Lips | , , , , , , | 0 0 | |
| Venicle Mode Share | 100% | 100% | 1 |
| Vehicle Occupancy | 1.00 | 1.00 | 1 |
| Total Vehicle Internal Trips | 7 | 0 | 7 |
| Total External Vehicle Trips | 92 | 09 | 152 |
| Internal Vehicle Trip Capture | %2 | %0 | 4% |
| 252 - Senior Adult Housing - Attached | | | |
| T-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | | , | , |
| l Otal Internal Person I rips | 0 | 1 | 1 |

C5 of 16

| 17.00 17.0 | Vehicle Mode Share | | | | 100% | 100% | ' |
|--|--|--|---|------------------|----------------|-------------------------|---|
| Color Colo | Vehicle Occupancy | | | | 1.00 | 1.00 | |
| 100 | Total Vehicle Internal Trips | | | | 0 | 1 | 1 |
| 100 | Total External Vehicle Trips | | | | 6 | 15 | 24 |
| 100 0 0 0 0 0 0 0 0 | Internal Vehicle Trip Capture | | | | %0 | %9 | 4% |
| 100 | 411 - Public Park | | | | | | |
| 10 10 10 10 10 10 10 10 | | | | | _ | - | |
| 100 | Total Internal Person Trips | | | | 0 | 0 | 0 |
| 1100 100 | Vehicle Mode Share | | | | 100% | 100% | ' |
| Comparison of the promote of the protection of | Vehicle Occupancy | | | | 1.00 | 1.00 | |
| Comparison Com | Total Vehicle Internal Trips | | | | 0 | 0 | 0 |
| The control by birth Figs Park by Water Figs Figs Park by Water Figs Figs Park by Water Figs | lotal External Vehicle Trips | | | | 0 8 | 0 | 0 8 |
| Committee Comm | | | | | % 0 | 0% | % <u>^</u> |
| Control Votable Press Control Votable Press Control Votable Press Control Votable Press Control Cont | PASS-BY VEHICLE TRIP REDUCTION | | | | | | |
| Color | | | | | } H | | 6 9 19 19 19 19 19 19 19 19 19 19 19 19 1 |
| 1 | Land Use | \ \frac{1}{2} + \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} + \frac{1}{2} \\ \frac{1}{2} + \frac{1}{2} | External Venicle Trips | Fatty (%) | | Pass-by V | enicie Trips |
| 120 0.00% | 210 - Single-Family Detached Housing | 8 | 22 | 0.00% | 0.00% | Cillily 0 | ס |
| 95 95 95 95 95 95 95 95 | 220 - Multifamily Housing (Low-Rise) | 34 | 110 | 0.00% | 0.00% | 0 | 0 |
| 9 15 100% | | 92 | 09 | 0.00% | 0.00% | 0 | 0 |
| Comparison Com | 252 - Senior Adult Housing - Attached | 6 | 15 | 0.00% | %00.0 | 0 | 0 |
| Entry Entr | 411 - Public Park | 0 | 0 | %00.0 | 0.00% | 0 | 0 |
| Enternal Vehicle Trips Entervised Entervised | DIVERTED VEHICLE TRIP REDUCTION | | | | | | |
| Ning Enternal Vehicle Trias Enternal Vehicle Trias Enternal Vehicle Trias Enternal Control Dovemed Vehicle Trias Entry | | | | | | | |
| State Stat | Land Use | | External Vehicle Trips | Diverted Ve | hicle Trip % | Diverted V | /ehicle Trips |
| 100 | 240 Cival Patenth Date the July 18 center | Entry | Exit | Entry (%) | Exit (%) | Entry | Exit |
| 100 | 210 - Single-Family Detached Housing | 8 8 | 110 | %00.0 | %00.0 | | |
| 15 15 15 15 15 15 15 15 | 820 - Shopping Center | 92 | 09 | %00.0 0.00 | %00.0 | | |
| 0 0 0 0 0 0 0 0 0 0 | 252 - Senior Adult Housing - Attached | 6 | 15 | 0.00% | 0.00% | 0 | 0 |
| Extra Vehicle Trips Extra Vehicle Trips Extra Vehicle Trip Reduction % Extra R | 411 - Public Park | 0 | 0 | 0.00% | 0.00% | 0 | 0 |
| Extra Vehicle Trips Extra Vehicle Trips | EXTRA VEHICLE TRIP REDUCTION | | | | | | |
| Entry LAXED AND LIGHT (1745) NOT THE LIGHT (1745) NOT | | į | | F | | | |
| etachted Housing etacht May e | Land Use | | al - (Pass-by + Diverted)) Vehicle Trips ا | Extra Vehicle Tr | ip Reduction % | Extra Reduce | d Vehicle Trips |
| eraction control 2.000% 0.000% < | 210 - Single-Eamily Detached Housing | Entry | EXIT 33 | entry (%) | O 00% | Entry | EXIL |
| er 92 60 0.00% 0.00% 0.00% 0 busing - Attached 9 15 0.00% 0.00% 0 class of the classing and growth and | 220 - Multifamily Housing (Low-Rise) | 34 | 110 | %00.0 | %00.0 | 0 | 0 |
| Outsing - Attached 9 15 0.00% 0.00% 0 0 In any Attached Housing Low-Rise) 0 0 0.00% 0.00% 0 | 820 - Shopping Center | 92 | 09 | 0.00% | 0.00% | 0 | 0 |
| 0 0 00% 0. | 252 - Senior Adult Housing - Attached | 6 | 15 | 0.00% | 0.00% | 0 | 0 |
| etached Housing New Vehicle Trips using (Low-Rise) Entry Exit er 8 22 ousing - Attached 92 60 ousing - Attached 9 15 etached Housing 8 22 using (Low-Rise) 8 22 using (Low-Rise) 93 60 pusing Low-Rise) 92 60 | 411 - Public Park | 0 | 0 | %00.0 | 0.00% | 0 | 0 |
| etached Housing Entry Exit New Vehicle Trips using (Low-Rise) 8 22 22 using (Low-Rise) 34 110 8 22 er 9 15 60 15 ousing - Attached 9 15 0 0 etached Housing 8 22 8 22 using (Low-Rise) 8 22 60 60 0 er 6ntry 8 22 8 22 60 | NEW VEHICLE TRIPS | | | | | | |
| New Vehicle Trips Iy Detached Housing Entry Exit Description Exit Exit Exit Description Exit | | | | | | | |
| Potential Problem Exit Exit Exit Los | Land Use | | | | | New Vehicle Trips | |
| Would be declared. S 2.2 Hy Duckached housing Low-Rise) 34 110 enter 92 60 15 t Housing - Attached 9 15 15 t Housing - Attached New Vehicle Trips (PPV) Exit Exit 10 Hy Detached Housing 8 2.2 10 10 Housing (Low-Rise) 92 60 60 11 t Housing - Attached 9 15 15 15 | | | | | Entry | Exit | Total |
| Thousing Low-Nascy enter Enter Housing (Low-Rise) Housing (Low-Rise) Housing - Attached It Housing - Attached It Housing - Attached It Housing - Attached It Housing - Attached | 210 - Single-Family Detached Housing | | | | 8 % | 22 | 30 |
| THOusing - Attached Control of the Contro | 220 - Maitheimy nodsing (Low-Nise) 830 - Shonning Center | | | | 94 | 011 | 152 |
| Ily Detached Housing Low-Rise) Entry Exit New Vehicle Trips (PPV) Housing (Low-Rise) 34 110 110 t Housing - Attached 9 15 15 | 252 - Senior Adult Housing - Attached | | | | 2, 6 | 15 | 24 |
| New Vehicle Trips (PPV) Entry Exit 8 22 8 22 9 92 60 92 9 15 | 411 - Public Park | | | | 0 | 0 | 0 |
| Entry Exit Pexit | | | | | - | - | |
| Entry Exit Exit <t< td=""><td>Land Use</td><td></td><td></td><td></td><td></td><td>New Vehicle Trips (PPV)</td><td></td></t<> | Land Use | | | | | New Vehicle Trips (PPV) | |
| 8 22 8 22 34 110 60 9 15 15 | | | | | Entry | Exit | Total |
| 92 60 92 60 15 15 | 210 - Single-Family Detached Housing 220 - Multifamily Housing (Low-Rise) | | | | 8 8 | 22 | 30 |
| 9 15 | 820 - Shonning Center | | | | 97 | 09 | 152 |
| | 252 - Senior Adult Housing - Attached | | | | 5 6 | 15 | 24 |

Carpenter Marty Transportation

| 411 - Public Park | 0 | 0 | 0 |
|--|-------|---------------------------|-------|
| | | | |
| Land Use | | New Vehicle Trips (Truck) | |
| | Entry | Exit | Total |
| 210 - Single-Family Detached Housing | 0 | 0 | 0 |
| 220 - Multifamily Housing (Low-Rise) | 0 | 0 | 0 |
| 820 - Shopping Center | 0 | 0 | 0 |
| 252 - Senior Adult Housing - Attached | 0 | 0 | 0 |
| 411 - Public Park | 0 | 0 | 0 |
| | | | |
| RESULTS | | | |
| | | | |
| Site Totals | Entry | Exit | Total |
| Vehicle Trips Before Reduction | 150 | 214 | 364 |
| Vehicle Trips After Multi-modal Adjustment | 150 | 214 | 364 |
| Internal Vehicle Trips | 7 | 7 | 14 |
| External Vehicle Trips | 143 | 207 | 350 |
| Internal Vehicle Trip Capture | 2% | 3% | 4% |
| Pass-by Vehicle Trips | 0 | 0 | 0 |
| Diverted Vehicle Trips | 0 | 0 | 0 |
| Extra Reduced Vehicle Trips | 0 | 0 | 0 |
| New Vehicle Trips | 143 | 207 | 350 |
| PPV | 143 | 207 | 350 |
| Truck | 0 | 0 | 0 |
| Person Trips by Other Modes | 0 | 0 | 0 |

Carpenter Marty Transportation

| Scenario - 4 | | | | | | | | |
|--|---------------------------|------------------|-------------------------|--|--|-----------------------|--|----------------------------------|
| Dev phase: 1 | | | No. of Years to Project | · + | | | | |
| | | | Traffic: |) | | | | |
| Analyst Note: | | | | | | | | |
| Warning: | | | | | | | | |
| , | | | | | | | | |
| VEHICLE TRIPS BEFORE REDUCTION | | | | | | | | |
| Land Use & Data Source | Location | 2 | Size | Time Period | Method Rate/Fountion | Entry Split% | Exit Split% | Total |
| 210 - Single-Family Detached Housing | General | Dwelling Units | 37 | Weekday, Peak Hour of Adjacent Street Traffic, One | \vdash | 25 | 14 | 39 |
| Data Source: Trip Gen Manual, 10th Ed + | Urban/Suburban General |) | | Meekday Deak Hour of Adiacent Street Traffic One | Ln(T) =0.96Ln(X) + 0.20 Bost Eit (10G) | 63% | 37% | |
| | Urban/Suburban | Dwelling Units | 331 | Weenday, Tean Toda of Adjacent Street Hamit, One Hour Between 4 and 6 p.m. | | 63% | 37% | 171 |
| 820 - Shopping Center | General | 1000 Sq. Ft. GLA | 14.45 | Weekday, Peak Hour of Adjacent Street Traffic, One | Best Fit (LOG) | 62 | 89 | 130 |
| Data Source: Irip Gen Manual, 10th Ed + | Orban/Suburban General | | | Moekday Peak Hour of Adjacent Street Traffic One | Ln(1) =0.74Ln(X) + 2.89 Rost Fit (11N) | 48% | 52% 15 | |
| Data Source: Trip Gen Manual, 10th Ed + | Urban/Suburban | Dwelling Units | 125 | weekday, reak noul of Adjacent Street Haint, One Hour Between 4 and 6 p.m. | | 55% | 45% | 33 |
| 926 - Food Cart Pod | General | Food Carts | 3 | Weekday, Peak Hour of Adjacent Street Traffic, | Best Fit (LIN) | 7 | 7 | 14 |
| Data Source: Irip Gen Manual, 10th Ed + 411 - Public Park | Orban/Suburban General | Acres | 8 47 | Une Hour between 4 and 6 p.m. Weekday, Peak Hour of Adjacent Street Traffic, One | | 50% | 50% | 23 |
| Data Source: Trip Gen Manual, 10th Ed + | Urban/Suburban | | ì | Hour Between 4 and 6 p.m. | T = 0.06(X) + 22.60 | 25% | 45% | 63 |
| VEHICLE TO PERSON TRIP CONVERSION | | | | | | | | |
| BASELINE SITE VEHICLE CHARACTERISTICS: | | | | | | | | |
| Land Use | | | Entry (%) | Baseline Site Vehicle Mode Share | Baseline Site Vehicle Occupancy Entry Exit | cle Occupancy Exit | Baseline Site Vehicle Directional Split Entry (%) Exit (%) | le Directional Split Exit (%) |
| 210 - Single-Family Detached Housing | | | 100 | 100 | 1 | T | 63 | 37 |
| 220 - Multifamily Housing (Low-Rise) | | | 100 | 100 | 1 | 1 | 63 | 37 |
| - 1 | | | 100 | 100 | Т | Η, | 48 | 52 |
| 252 - Senior Adult Housing - Attached | | | 100 | 100 | - | ₽ | 55 | 45 |
| 920 - roou call rou 411 - Public Park | | | 100 | 100 | ⊣ ← | + + | 55 | 45 |
| ESTIMATED BASELINE SITE PERSON TRIPS: | | | | | | | | |
| and I kne | | | | Person Trips by Vehicle | Person Trips by Other Modes | Other Modes | Total Baseline Site Person Trips | te Person Trips |
| | | | Entry | Exit | Entry | Exit | Entry | Exit |
| 210 - Single-Family Detached Housing | | | 57 | 39 | 0 | 0 | 25 | 14 |
| 220 - Multifamily Housing (Low-Rise) | | | 108 | 171 | 0 | 0 | 108 | 63 |
| O O Charles | | | 62 | 89 | 0 | 0 | 62 | 89 |
| | | | | 130 | 0 | | 130 | |
| 252 - Senior Adult Housing - Attached | | | 18 | 33 | 0 | 0 | 18 33 | 15 |
| 926 - Food Cart Pod | | | 7 | 7 | 0 | 0 | 7 | 7 |
| | | | Ç | 14 | 0 | C | 14 | |
| 411 - Public Park | | | 13 | 23 | 0 | Þ | 13 23 | 3 |
| | | | | | | | | |
| VEHICLE TRIPS AFTER MULTI-MODAL ADJUSTMENT | Ly | | | | | | | |
| MODE SHARE: | | | | | | | | |
| Land Use | | | [%] | Personal Passenger Vehicle | Truck | k | Other Modes | Modes Evit (%) |
| 210 - Single-Family Detached Housing | | | 100% | 100% | 0%) FIIF() (%) | 0%) | 0%) (%) 0% | 0% 0% |
| 7 | | | 1 1 2 1 | , | • | | • | ;;; |

| 220 - Multifamily Housing (Low-Rise) | 100% | 100% | %0 | %0 | %0 | %0 |
|---------------------------------------|------|------|----|----|----|----|
| 820 - Shopping Center | 100% | 100% | %0 | %0 | %0 | %0 |
| 252 - Senior Adult Housing - Attached | 100% | 100% | %0 | %0 | %0 | %0 |
| 926 - Food Cart Pod | 100% | 100% | %0 | %0 | %0 | %0 |
| 411 - Public Park | 100% | 100% | %0 | %0 | 0% | %0 |

OCCUPANCY:

| | Veh | Vehicle | |
|---------------------------------------|-------|---------|---|
| | Entry | Exit | _ |
| 210 - Single-Family Detached Housing | 1.00 | 1.00 | |
| 220 - Multifamily Housing (Low-Rise) | 1.00 | 1.00 | |
| 820 - Shopping Center | 1.00 | 1.00 | |
| 252 - Senior Adult Housing - Attached | 1.00 | 1.00 | |
| 926 - Food Cart Pod | 1.00 | 1.00 | |
| 411 - Public Park | 1.00 | 001 | |

ADJUSTED VEHICLE TRIPS:

| | | | Entry | | | Exit | | |
|---------------------------------------|--------------|------------------------|-------------------|---------------|--------------|---------------------------|-------------------|---------------|
| Land Use | Person Trips | Vehicle Mode Share (%) | Vehicle Occupancy | Vehical Trips | Person Trips | Vehicle Mode Share (%) | Vehicle Occupancy | Vehical Trips |
| 210 - Single-Family Detached Housing | 25 | 100% | 1.00 | 25 | 14 | 700% | 1.00 | 14 |
| 220 - Multifamily Housing (Low-Rise) | 108 | 100% | 1.00 | 108 | 63 | 700% | 1.00 | 63 |
| 820 - Shopping Center | 62 | 100% | 1.00 | 62 | 89 | 100% | 1.00 | 68 |
| 252 - Senior Adult Housing - Attached | 18 | 100% | 1.00 | 18 | 15 | 100% | 1.00 | 15 |
| 926 - Food Cart Pod | 7 | 100% | 1.00 | 7 | 7 | 100% | 1.00 | 7 |
| 411 - Public Park | 13 | 100% | 1.00 | 13 | 10 | 100% | 1.00 | 10 |

INTERNAL VEHICLE TRIP REDUCTION

| LAND USE GROUP ASSIGNMENT: | |
|---------------------------------------|----------------|
| Land Use | Land Use Group |
| 210 - Single-Family Detached Housing | Residential |
| 220 - Multifamily Housing (Low-Rise) | Residential |
| 820 - Shopping Center | Retail |
| 252 - Senior Adult Housing - Attached | Residential |
| 926 - Food Cart Pod | Resturant |
| 411 - Public Park | Cinema |

ALANCED PERSON TRIPS:

| BALANCED PERSON TRIPS: | • | | | | | | | |
|--------------------------------------|------------|--------------------|----------------------|----------------------|----------------------|------------------|-------------|---------------------------------------|
| 210 - Single-Family Detached Housing | ed Housing | | | | | | 220 - Mult | 220 - Multifamily Housing (Low-Rise) |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 14 | Н | 0 | 0 | 0 | 0 | 0 | Н | 108 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| 25 | Н | 0 | 0 | 0 | 0 | 0 | Н | 63 |
| 210 - Single-Family Detached Housing | ed Housing | | | | | | | 820 - Shopping Center |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 14 | Н | 14 | 2 | 2 | 2 | 3.33333333333355 | П | 62 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| 25 | Н | 15.333333333333334 | 4 | 4 | 9 | 8.666666666666 | Н | 89 |
| 210 - Single-Family Detached Housing | ed Housing | | | | | | 252 - Senio | 252 - Senior Adult Housing - Attached |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 14 | Н | 0 | 0 | 0 | 0 | 0 | Н | 18 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |

Generated By OTISS Pro v2.1

| 25 | П | 0 | 0 | 0 | 0 | 0 | П | 15 |
|--------------------------------------|-----------|---------------------|----------------------|----------------------|----------------------|------------------|--------------|---------------------------------------|
| 210 - Single-Family Detached Housing | d Housing | | | | | | | 926 - Food Cart Pod |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 14 | Н | 7 | 1 | 0 | 0 | 4.6666666666667 | 1 | 7 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| 25 | П | 5.3333333333333333 | 1 | 0 | 0 | 9 | П | 7 |
| 210 - Single-Family Detached Housing | d Housing | | | | | | | 411 - Public Park |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 14 | П | 0 | 0 | 0 | 0 | 0 | 1 | 13 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| 25 | П | 1.33333333333333333 | 0 | 0 | 0 | 2.6666666666665 | П | 10 |
| 220 - Multifamily Housing (Low-Rise) | ow-Rise) | | | | | | | 820 - Shopping Center |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 63 | Н | 14 | 6 | 2 | 2 | 3.3333333333335 | П | 62 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| 108 | Н | 15.33333333333334 | 17 | 9 | 9 | 8.666666666666 | П | 89 |
| 220 - Multifamily Housing (Low-Rise) | ow-Rise) | | | | | | 252 - Senior | 252 - Senior Adult Housing - Attached |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 63 | Н | 0 | 0 | 0 | 0 | 0 | П | 18 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| 108 | Н | 0 | 0 | 0 | 0 | 0 | Н | 15 |
| 220 - Multifamily Housing (Low-Rise) | ow-Rise) | | | | | | | 926 - Food Cart Pod |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 63 | Н | 7 | 4 | 0 | 0 | 4.6666666666667 | П | 7 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| 108 | Н | 5.3333333333333333 | 9 | 0 | 0 | 9 | Т | 7 |
| 220 - Multifamily Housing (Low-Rise) | ow-Rise) | | | | | | | 411 - Public Park |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 63 | П | 0 | 0 | 0 | 0 | 0 | П | 13 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| 108 | Н | 1.33333333333333333 | 1 | 0 | 0 | 2.66666666666665 | Н | 10 |
| 820 - Shopping Center | | | | | | | 252 - Senior | 252 - Senior Adult Housing - Attached |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 89 | П | 8.66666666666666 | 9 | ٤ | က | 15.3333333333334 | 1 | 18 |
| Persons Entry | PAF | UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| 62 | Н | 3.3333333333333333 | 2 | 2 | 2 | 14 | Н | 15 |
| 820 - Shopping Center | | | | | | | | 926 - Food Cart Pod |
| Persons Exit | PAF | UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 89 | П | 29 | 20 | 2 | 2 | 29 | 1 | 7 |

C10 of 16

| Persons Entry PAF | F UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
|--|---------------------|----------------------|-----------------------|----------------------|-----------------|---------|---------------------|
| 62 1 | 20 | 31 | m | ю | 41 | 1 | 7 |
| 820 - Shopping Center | | | | | | | 411 - Public Park |
| Persons Exit PAF | F UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 68 1 | 4 | 3 | æ | ဧ | 26 | 1 | 13 |
| Persons Entry PAF | F UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| 62 1 | 4 | 2 | 2 | 2 | 21 | ₽ | 10 |
| 252 - Senior Adult Housing - Attached | | | | | | | 926 - Food Cart Pod |
| Persons Exit PAF | F UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 15 1 | 7 | 1 | 0 | 0 | 4.6666666666667 | 1 | 7 |
| Persons Entry PAF | F UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| 18 1 | 5.3333333333333333 | 1 | 0 | 0 | 9 | 1 | 7 |
| 252 - Senior Adult Housing - Attached | | | | | | | 411 - Public Park |
| Persons Exit PAF | F UIPTC | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| 15 1 | 0 | 0 | 0 | 0 | 0 | 1 | 13 |
| Persons Entry PAF | F UIPTC | Unconstrained Demand | <<== BALANCED <<<== | Unconstrained Demand | UIPTC | PAF | Persons Exit |
| 18 1 | 1.33333333333333333 | 0 | 0 | 0 | 2.6666666666665 | Н | 10 |
| 926 - Food Cart Pod | | | | | | | 411 - Public Park |
| s Exit | n | Unconstrained Demand | ==>>> BALANCED ==>>> | Unconstrained Demand | UIPTC | PAF | Persons Entry |
| | | 1 | 1 | 4 | 32 | T (| 13 |
| Persons Entry PAF | 740 | Onconstrained Demand | SSS== BALAINCED SSS== | Unconstrained Demand | OPIC 24 | ΑΥ Τ | Persons exit |
| | | | | n | T C | 4 | 2 |
| INTERNAL PERSON TRIPS: | | | | | | | |
| 210 - Single-Family Detached Housing | 80 | | | | | : | |
| Internal Person Trips From | | | | | Entry | Exit | Total |
| 220 - Multifamily Housing (Low-Rise) | | | | | 0 | 0 | 0 |
| 820 - Shopping Center 252 - Senior Adulf Housing - Attached | | | | | 4 0 | 2 | ی و |
| 926 - Food Cart Pod | | | | | 0 | 0 | 0 4 |
| 411 - Public Park | | | | | 0 | 0 | 0 |
| Total Internal Person Trips | | | | | 4 | 2 | 9 |
| 220 - Multifamily Housing (Low-Rise) | | | | | | | |
| Internal Person Trips From | | | | | Entry | Exit | Total |
| 210 - Single-Family Detached Housing | | | | | 0 | 0 | 0 |
| 820 - Snopping Center 252 - Senior Adult Housing - Attached | | | | | ٥ 0 | 7 0 | × 0 |
| 1 | | | | | 0 | 0 | 1 |
| 411 - Public Park | | | | | 0 | 0 | 0 |
| Total Internal Person Trips | | | | | 9 | 2 | 8 |
| 820 - Shopping Center | | | | | | | |
| Internal Person Trips From | | | | | Entry | Exit | Total |
| 210 - Single-Family Detached Housing (220 - Multifamily Housing (Low-Rise) | | | | | 2 | 4 9 | 9 8 |
| 252 - Senior Adult Housing - Attached | | | | | 2 | o m | 2 10 |
| 926 - Food Cart Pod | | | | | 3 | 2 | 5 |
| | | | | | | | |

| 444 Dublic Dubl | r | c | |
|---|---------------|---|---------|
| 411 - Public Park Total Internal Person Trips | 11 | 3 18 | 5 29 |
| 252 - Sonior Adult Housing - Attached | | | |
| Internal Person Trips From | Entry | Exit | Total |
| 210 - Single-Family Detached Housing | 0 | 0 | 0 |
| 220 - Multifamily Housing (Low-Rise) | 0 | 0 | 0 |
| 820 - Shopping Center | 3 | 2 | 5 |
| 926 - Food Cart Pod | 0 | 0 | 1 |
| 411 - Public Park | 0 | 0 | 0 |
| Total Internal Person Trips | 3 | 2 | 5 |
| 926 - Food Cart Pod | | | |
| Internal Person Trips From | Fntrv | Fxit | Total |
| 210 - Single-Family Detached Housing | 0 | 0 | |
| 220 - Multifamily Housing (Low-Rise) | 0 | 0 | |
| 820 - Shopping Center | 2 | 3 | 5 |
| 252 - Senior Adult Housing - Attached | 0 | 0 | 1 |
| 411 - Public Park | 0 | 1 | 1 |
| Total Internal Person Trips | 2 | 4 | 9 |
| 411. Dublic Dark | | | |
| Internal Person Trips From | Fntrv | Fxit | Total |
| 210 - Single-Family Detached Housing | 0 | 0 | 0 |
| 220 - Multifamily Housing (Low-Rise) | 0 | 0 | 0 |
| 820 - Shopping Center | 8 | 2 | 5 |
| 252 - Senior Adult Housing - Attached | 0 | 0 | 0 |
| 926 - Food Cart Pod | 1 | 0 | 1 |
| Total Internal Person Trips | 4 | 2 | 6 |
| INTERNAL VEHICLE TRIPS AND CAPTURE: 210 - Single-Family Detached Housing | | | |
| | | | |
| Total Internal Person Trips | 4 | 2 | 9 |
| Vehicle Mode Share | 100% | 100% | |
| Vehicle Occupancy | 1.00 | 1.00 | |
| Total Vehicle Internal Trips | 4 | 2 | 9 |
| Total External Vehicle Trips | 21 | 12 | 33 |
| Internal Vehicle Trip Capture | 16% | 14% | 15% |
| 220 - Multifamily Housing (Low-Rise) | | | |
| Total Internal Person Trips | 9 | 2 | 8 |
| Vehicle Mode Share | 100% | 100% | |
| Vehicle Occupancy | 1.00 | 1.00 | |
| Total Vehicle Internal Trips | 9 | 2 | 8 |
| Total External Vehicle Trips | 102 | 61 | 163 |
| Internal Vehicle Trip Capture | %9 | 3% | 2% |
| 820 - Shopping Center | | | |
| Total Internal Person Trips | 11 | 18 | 29 |
| Vehicle Mode Share | 100% | 100% | } ' |
| Vehicle Occupancy | 1.00 | 1.00 | |
| Total Vehicle Internal Trips | 11 | 18 | 29 |
| Total External Vehicle Trips | 51 | 50 | 101 |
| Internal Vehicle Trip Capture | 18% | 79% | 22% |
| 252 - Senior Adult Housing - Attached | | | |
| Total Internal Darson Trins | 8 | , | L. |
| Vehicle Mode Share | 100% | 100% |) ' |
| | , , , , , , , | , | |

| | | | | , | , | |
|--|-------------|---|---|-------------------------|------------------------------|-----------------------------|
| Vernicie Occupancy Total Vobicie Internal Trins | | | | 1.00 3 | 1.00 2 | . 4 |
| Total External Vehicle Trips | | | | 15 | 13 | 28 |
| Internal Vehicle Trip Capture | | | | 17% | 13% | 15% |
| 926 - Food Cart Pod | | | | | | |
| | | | | , | | , |
| Total Internal Person Trips | | | | 2 | 4 | 9 |
| Vehicle Mode Share | | | | 100% | 100% | ' |
| Venicle Occupancy | | | | 1.00 | 1.00 | |
| l otal Vehicle Internal Trips | | | | 2 5 | 4 0 | 9 0 |
| Internal Vehicle Trip Capture | | | | 29% | 22% | 43% |
| 411 - Public Park | | | | | | |
| | | | | | | |
| Total Internal Person Trips | | | | 4 | 2 | 9 |
| Vehicle Mode Share | | | | 100% | 100% | |
| Vehicle Occupancy | | | | 1.00 | 1.00 | . (|
| Total External Vehicle Trips | | | | 4 0 | 8 | b 17 |
| Internal Vehicle Trip Capture | | | | 31% | 20% | 26% |
| PASS-BY VEHICLE TRIP REDUCTION | | | | | | |
| | | | | | | |
| Land Use | | External Vehicle Trips | Pass-by Vehicle Trip % | icle Trip % | Pass-by Vehicle Trips | hicle Trips |
| 2.5. C. | Entry | Exit | Entry (%) | Exit (%) | Entry | Exit |
| 210 - Single-Family Detached Housing | 2.1 | 12 | 0.00 | %00.0 | 0 | 0 |
| 820 - Shooping Center | 51 | 10 | 34 00% | 34 00% | 0 1 | 17 |
| 252 - Senior Adult Housing - Attached | 15 | 13 | 00:0 | 0.00% | 0 | 0 |
| 926 - Food Cart Pod | 5 | 8 | 0.00% | 0.00% | 0 | 0 |
| 411 - Public Park | 6 | 8 | 0.00% | 0.00% | 0 | 0 |
| DIVERTED VEHICLE TRIP REDUCTION | | | | | | |
| | | | | | | |
| Land Use | Fortro | External Vehicle Trips External Vehicle Trips | Diverted Vehicle Trip % Fntry (%) Ex | ncle Trip % Exit (%) | Diverted Vehicle Trips Fatry | enicle Trips Fxit |
| 210 - Single-Family Detached Housing | 21 | 12 | 0.00% | 0.00% | 0 | 0 |
| 220 - Multifamily Housing (Low-Rise) | 102 | 61 | 0.00% | 0.00% | 0 | 0 |
| 820 - Shopping Center | 51 | 50 | 0.00% | 0.00% | 0 | 0 |
| 252 - Senior Adult Housing - Attached | 15 | 13 | 0.00% | 0.00% | 0 | 0 |
| 926 - Food Cart Pod 411 - Public Park | 5 | m « | %00.0 0.000 | %00.0 | 0 0 | 0 |
| | | | | | | |
| EXTRA VEHICLE TRIP REDUCTION | | | | | | |
| Land Use | | (External - (Pass-by + Diverted)) Vehicle Trips | Extra Vehicle Trip Reduction % | p Reduction % | Extra Reduced | Extra Reduced Vehicle Trips |
| 210 - Single-Family Detached Housing | Entry 21 | 12 | 0.00% | 0.00% | Entry | EXIL |
| 220 Single Family Detached Housing (1 ow-Rice) | 102 | 51 | %00.0 | %00.0 | o c | 0 |
| 820 - Shopping Center | 34 | 33 | %00.0 | %00.0 | 0 | 0 |
| 252 - Senior Adult Housing - Attached | 15 | 13 | 0.00% | 0.00% | 0 | 0 |
| 926 - Food Cart Pod | 5 | 3 | 0.00% | 0.00% | 0 | 0 |
| 411 - Public Park | 6 | 8 | %00.0 | %00'0 | 0 | 0 |
| NEW VEHICLE TRIPS | | | | | | |
| | | | | | | |
| Land Use | | | | | New Vehicle Trips | |
| 1910 - Cinala-Esmik Datschad Haucina | | | | Entry 21 | Exit | Total 33 |
| Z10 - Single-Family Detached Housing | | | | 21 | 12 | 33 |

Carpenter Marty Transportation

| 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17 - | | 3 | |
|--|-------|---------------------------|-------|
| 220 - Muritamily Housing (Low-Kise) | 102 | 61 | 163 |
| 820 - Shopping Center | 34 | 33 | 67 |
| 252 - Senior Adult Housing - Attached | 15 | 13 | 28 |
| 926 - Food Cart Pod | 5 | 3 | 8 |
| 411 - Public Park | 6 | 8 | 17 |
| | | | |
| ay I box | | New Vehicle Trips (PPV) | |
| | Entry | Exit | Total |
| 210 - Single-Family Detached Housing | 21 | 12 | 33 |
| 220 - Multifamily Housing (Low-Rise) | 102 | 61 | 163 |
| 820 - Shopping Center | 34 | 33 | 29 |
| 252 - Senior Adult Housing - Attached | 15 | 13 | 28 |
| 926 - Food Cart Pod | 5 | 3 | 8 |
| 411 - Public Park | 6 | 8 | 17 |
| | | | |
| | ~ | New Vehicle Trips (Truck) | |
| | Entry | Exit | Total |
| 210 - Single-Family Detached Housing | 0 | 0 | 0 |
| 220 - Multifamily Housing (Low-Rise) | 0 | 0 | 0 |
| 820 - Shopping Center | 0 | 0 | 0 |
| 252 - Senior Adult Housing - Attached | 0 | 0 | 0 |
| 926 - Food Cart Pod | 0 | 0 | 0 |
| 411 - Public Park | 0 | 0 | 0 |
| | | | |
| RESULTS | | | |
| | | | |
| Site Totals | Entry | Exit | Total |
| Vehicle Trips Before Reduction | 233 | 177 | 410 |
| Vehicle Trips After Multi-modal Adjustment | 233 | 177 | 410 |
| Internal Vehicle Trips | 30 | 30 | 09 |
| External Vehicle Trips | 203 | 147 | 350 |
| Internal Vehicle Trip Capture | 13% | 17% | 15% |
| Pass-by Vehicle Trips | 17 | 17 | 34 |
| Diverted Vehicle Trips | 0 | 0 | 0 |
| Extra Reduced Vehicle Trips | 0 | 0 | 0 |
| New Vehicle Trips | 186 | 130 | 316 |
| PPV | 186 | 130 | 316 |
| Truck | 0 | 0 | 0 |
| Person Trips by Other Modes | 0 | 0 | 0 |
| | | | |

| Sconario 2 | | | | | | | | |
|---|---------------------------|------------------|---------------------------|---|---------------------------------------|---------------|---|---------------------|
| Scenario Name: Background AM Peak | | | User Groun: | | | | | |
| Dev. phase: 1 | | | No. of Years to Project O | t 0 | | | | |
| Analyst Note: | | | | | | | | |
| | | | | | | | | |
| Warning: | | | | | | | | |
| VEHICLE TRIPS BEFORE REDUCTION | | | | | | | | |
| Land Use & Data Source | Location | 2 | Size | Time Period | Method | Entry | Exit | Total |
| | | | | 5 | Rate/Equation | Split% | Split% | |
| 710 - General Office Building Data Source: Trip Gen Manual, 10th Ed + | General Urban/Suburban | 1000 Sq. Ft. GFA | 333.2 | Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m. | Best Fit (LIN) T = 0.94(X) + 26.49 | 292 86% | 48 | 340 |
| 210 - Single-Family Detached Housing Data Source: Trip Gen Manual, 10th Ed + | General Urban/Suburban | Dwelling Units | 50 | Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m. | Best Fit (LIN) T = 0.71(X) + 4.80 | 10 25% | 30 75% | 40 |
| VEHICLE TO PERSON TRIP CONVERSION | | | | | | | | |
| BASELINE SITE VEHICLE CHARACTERISTICS: | | | | | | | | |
| - | | | В | Baseline Site Vehicle Mode Share | Baseline Site Vehicle Occupancy | cle Occupancy | Baseline Site Vehicle Directional Split | e Directional Split |
| רמון סאב | | | Entry (%) | Exit (%) | Entry | Exit | Entry (%) | Exit (%) |
| 710 - General Office Building | | | 100 | 100 | 1 | 1 | 98 | 14 |
| 210 - Single-Family Detached Housing | | | 100 | 100 | 1 | 1 | 25 | 75 |
| ESTIMATED BASELINE SITE PERSON TRIPS: | | | | | | | | |
| and Use | | | | Person Trips by Vehicle | Person Trips by Other Modes | Other Modes | Total Baseline Site Person Trips | te Person Trips |
| | | | Entry | Exit | Entry | Exit | Entry | Exit |
| 710 - General Office Building | | | 292 | 48 | 0 | 0 | 292 | 48 |
| 0 | | | | 340 | 0 | | 340 | |
| 210 - Single-Family Detached Housing | | | 10 | 30 | 0 | 0 | 10 | 30 |
| 0 | | | | 40 | 0 | | 40 | |
| NEW VEHICLE TRIPS | | | | | | | | |
| | | | | | | | | |
| (| | | | | | | New Vehicle Trips | |
| רמות ספר | | | | | | Entry | Exit | Total |
| 710 - General Office Building | | | | | | 292 | 48 | 340 |
| 210 - Single-Family Detached Housing | | | | | | 10 | 30 | 40 |
| | | | | | | | | |

Exit 78 78 78

Entry 302 302 302

Site Totals
Vehicle Trips Before Reduction
External Vehicle Trips
New Vehicle Trips

RESULTS

| Scenario - 3 | | | | | | | | |
|---|----------------|------------------|---|--|---------------------------------|---------------|---|----------------------|
| Scenario Name: Background PM Peak | | | User Group: No. of Years to Project _O | | | | | |
| | | | Traffic: | · | | | | |
| Analyst Note: | | | | | | | | |
| Warning: | | | | | | | | |
| , | | | | | | | | |
| VEHICLE TRIPS BEFORE REDUCTION | | | | | | | | |
| Land Use & Data Source | Location | ≥ | Size | Time Period | Method | Entry | Exit | Total |
| 710 - General Office Building | Gonoral | | | Weekday Deak Hour of Adjacent Street Traffic One | Kate/Equation | Split% E7 | Split% | |
| Data Source: Trip Gen Manual, 10th Ed + | Urban/Suburban | 1000 Sq. Ft. GFA | 333.2 | | Ln(T) =0.95Ln(X) + 0.36 | 16% | 84% | 357 |
| 210 - Single-Family Detached Housing | General | Dwelling Units | 05 | Traffic, One | Best Fit (LOG) | 33 | 19 | 52 |
| Data Source: Trip Gen Manual, 10th Ed + | Urban/Suburban | DWCIIIIB OIIIC3 | S | Hour Between 4 and 6 p.m. | Ln(T) =0.96Ln(X) + 0.20 | 63% | 37% | 25 |
| VEHICLE TO PERSON TRIP CONVERSION | | | | | | | | |
| BASELINE SITE VEHICLE CHARACTERISTICS: | | | | | | | | |
| | | | В | Baseline Site Vehicle Mode Share | Baseline Site Vehicle Occupancy | cle Occupancy | Baseline Site Vehicle Directional Split | le Directional Split |
| רמות ספע | | | Entry (%) | Exit (%) | Entry | Exit | Entry (%) | Exit (%) |
| 710 - General Office Building | | | 100 | 100 | 1 | 1 | 16 | 84 |
| 210 - Single-Family Detached Housing | | | 100 | 100 | 1 | 1 | 63 | 37 |
| ESTIMATED BASELINE SITE PERSON TRIPS: | | | | | | | | |
| 9 - | | | | Person Trips by Vehicle | Person Trips by Other Modes | Other Modes | Total Baseline Site Person Trips | te Person Trips |
| | | | Entry | Exit | Entry | Exit | Entry | Exit |
| 710 - General Office Building | | | 57 | 300 | 0 | 0 | 57 | 300 |
| | | | | 357 | 0 | | 357 | 7 |
| 210 - Single-Family Detached Housing | | | 33 | 19 | 0 | 0 | 33 | 19 |
| 8 | | | | 52 | 0 | | 52 | |
| | | | | | | | | |
| NEW VEHICLE TRIPS | | | | | | | | |
| | | | | | | | | |
| Land Use | | | | | | 1 | New Vehicle Trips | |
| - 17.0 C 13.0 C 17.0 C. | | | | | | Entry | EXIC | lotal |
| /10 - General Office Building | | | | | | 57 | 300 | 35/ |
| Z10 - Single-Family Detached Housing | | | | | | 33 | 19 | 52 |

 ∞

Total 409 409 409

Exit 319 319 319 319

Entry 90 90 90

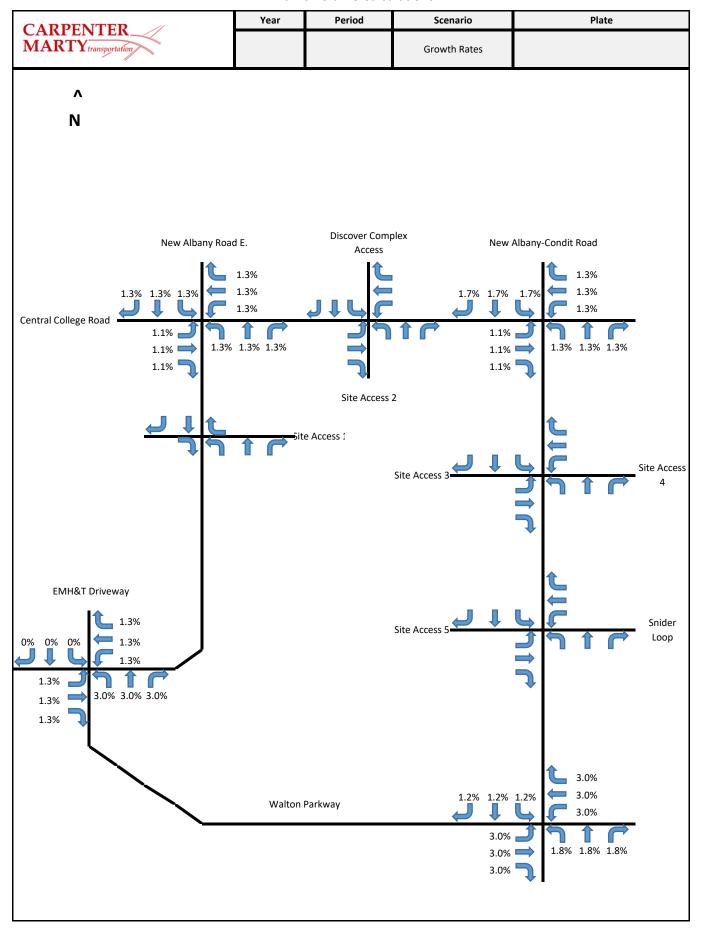
RESULTS

Site Totals
Vehicle Trips Before Reduction
External Vehicle Trips
New Vehicle Trips

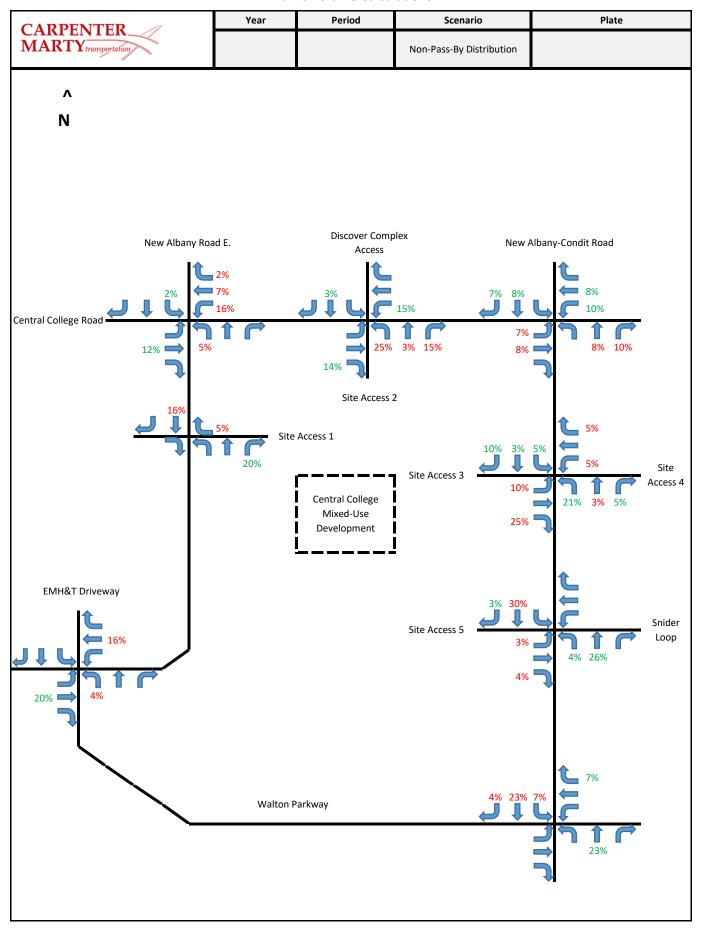
Appendix DVolume Calculations



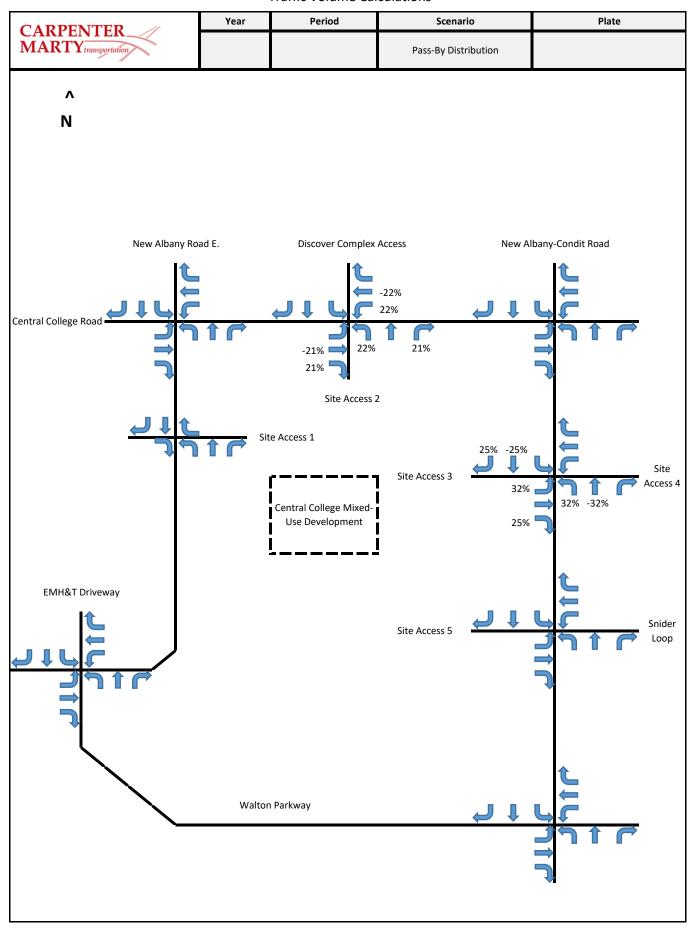
NMD Mixed-Use Development TIS Traffic Volume Calculations

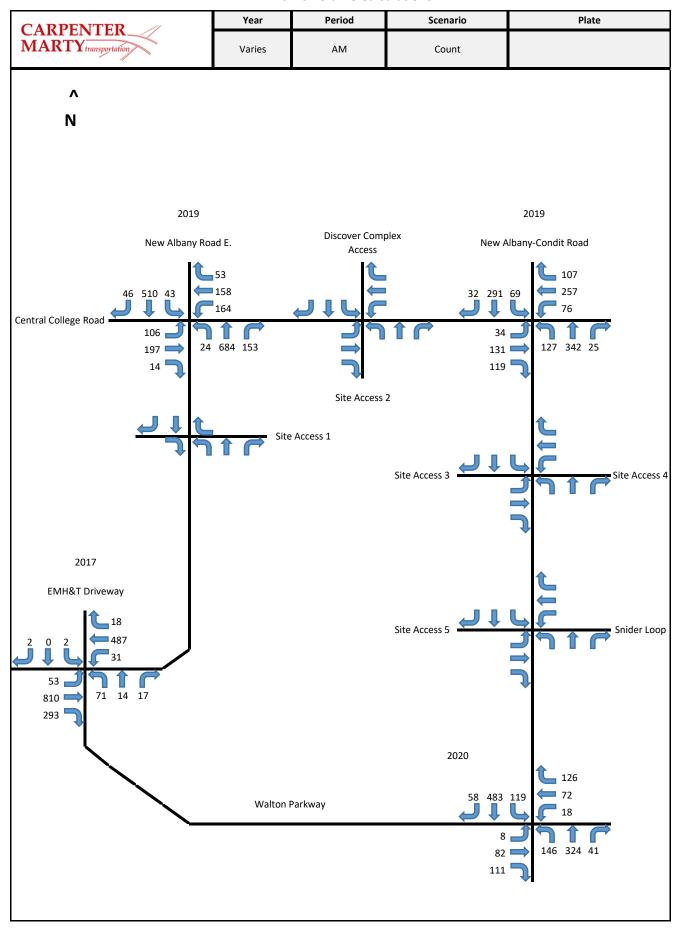


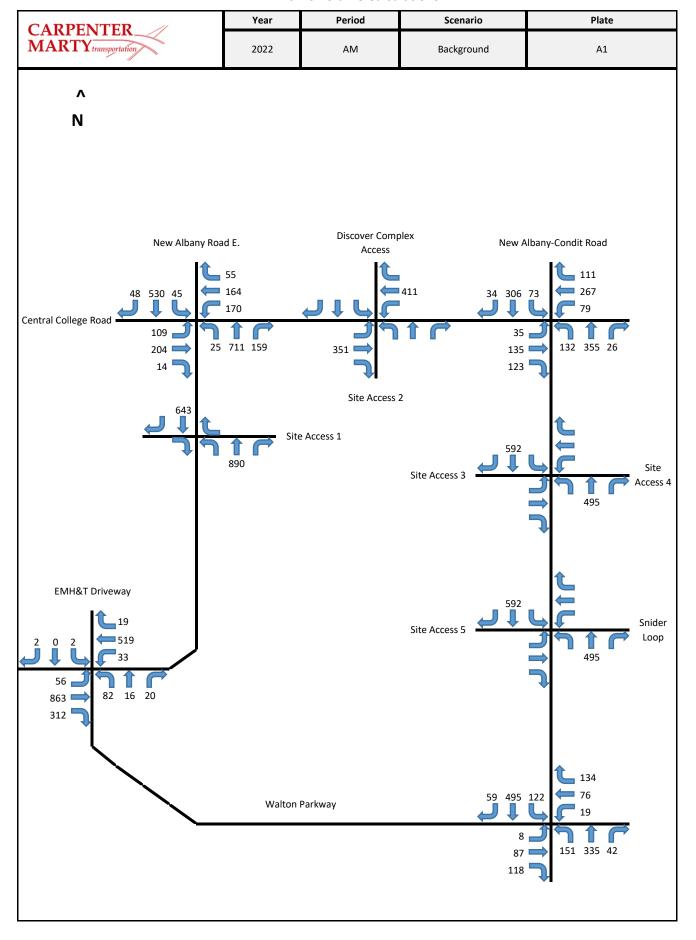
NMD Mixed-Use Development TIS Traffic Volume Calculations

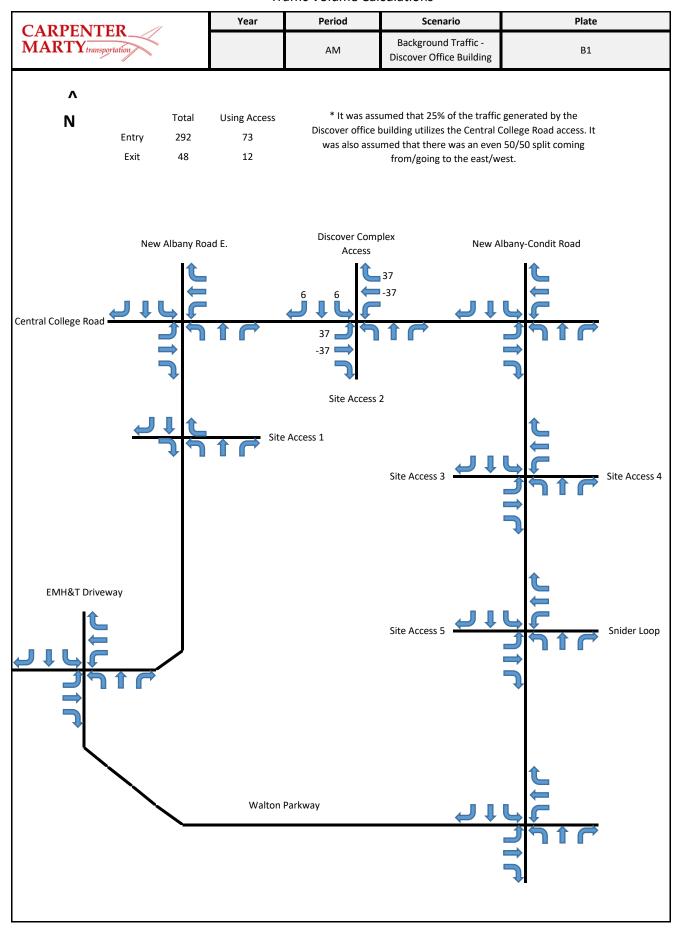


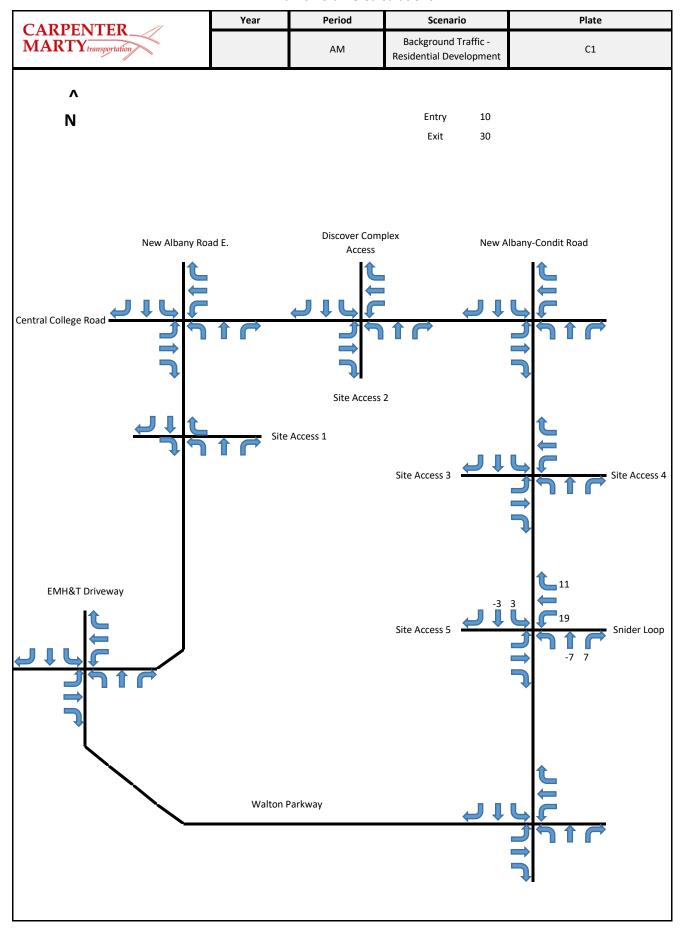
NMD Mixed-Use Development TIS Traffic Volume Calculations

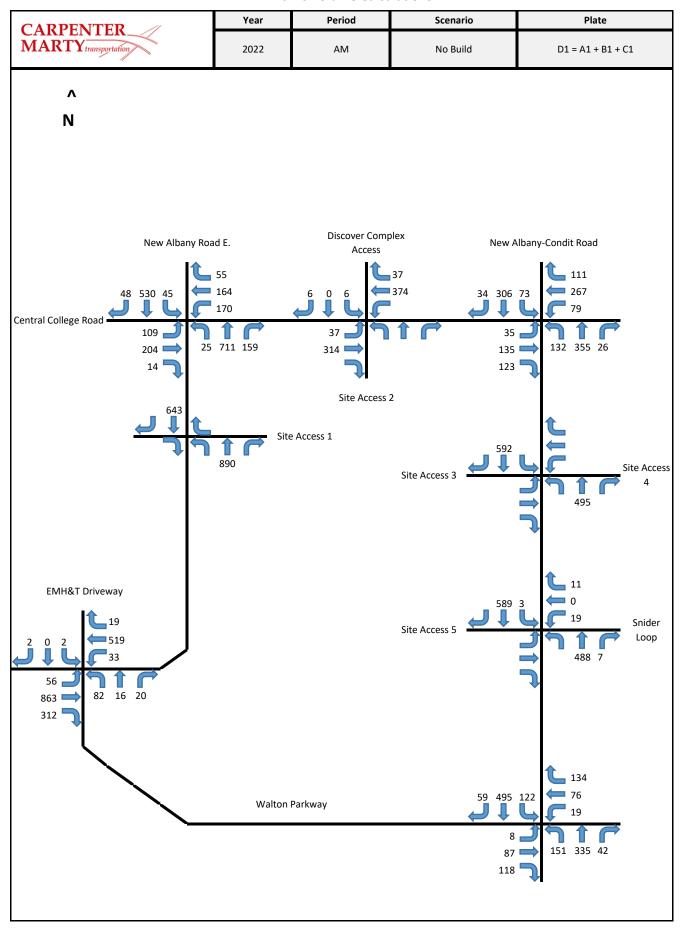


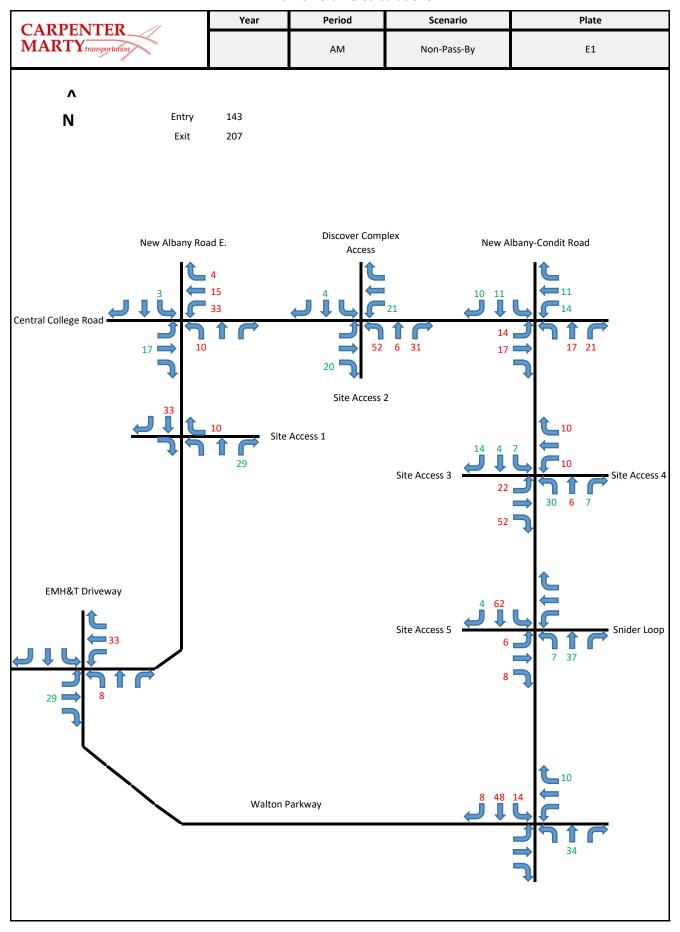


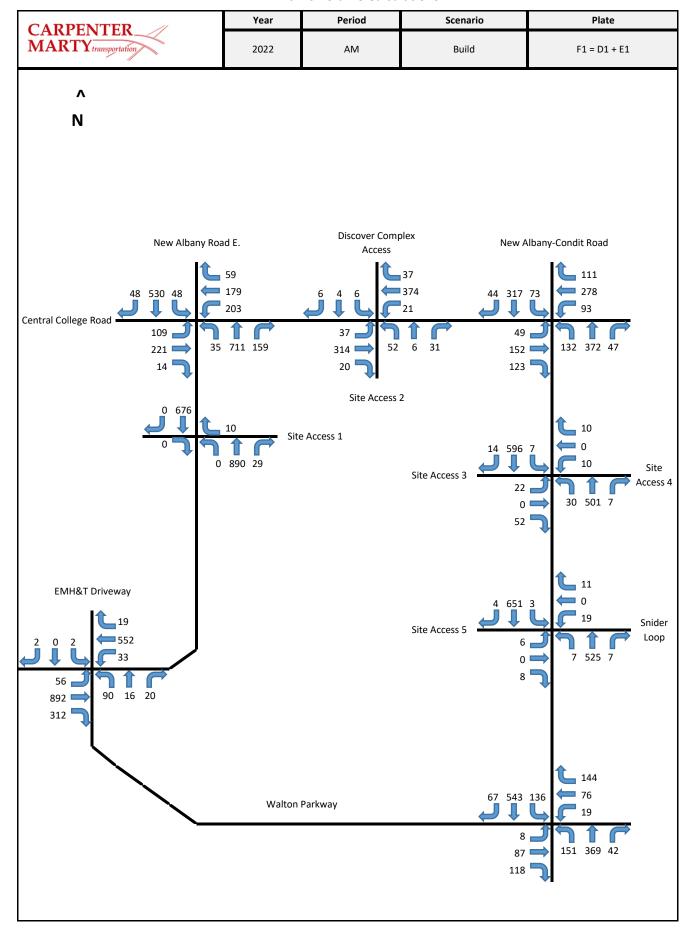


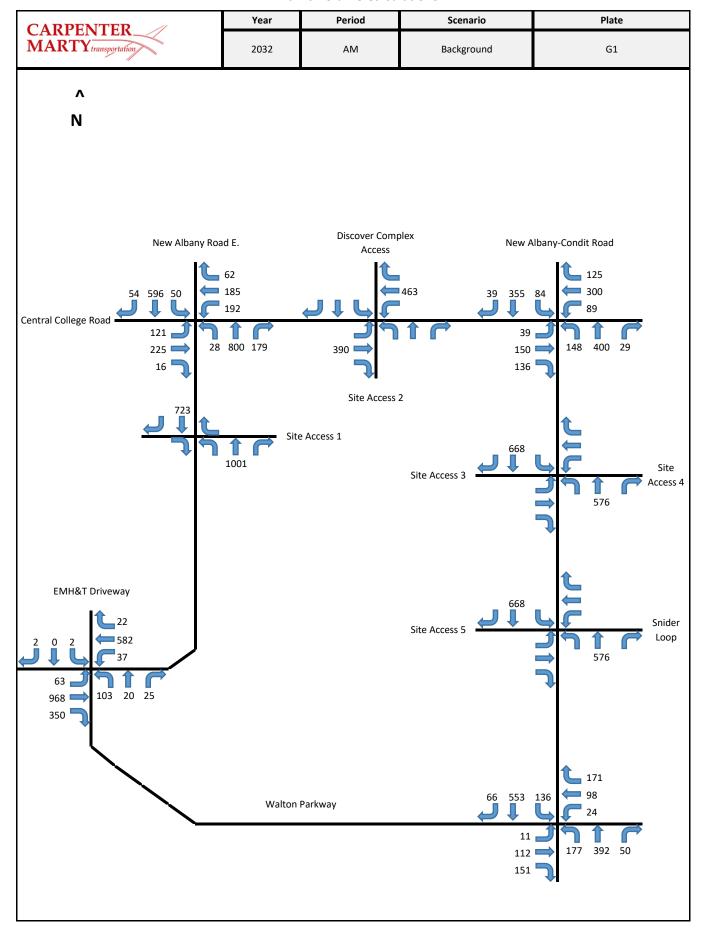


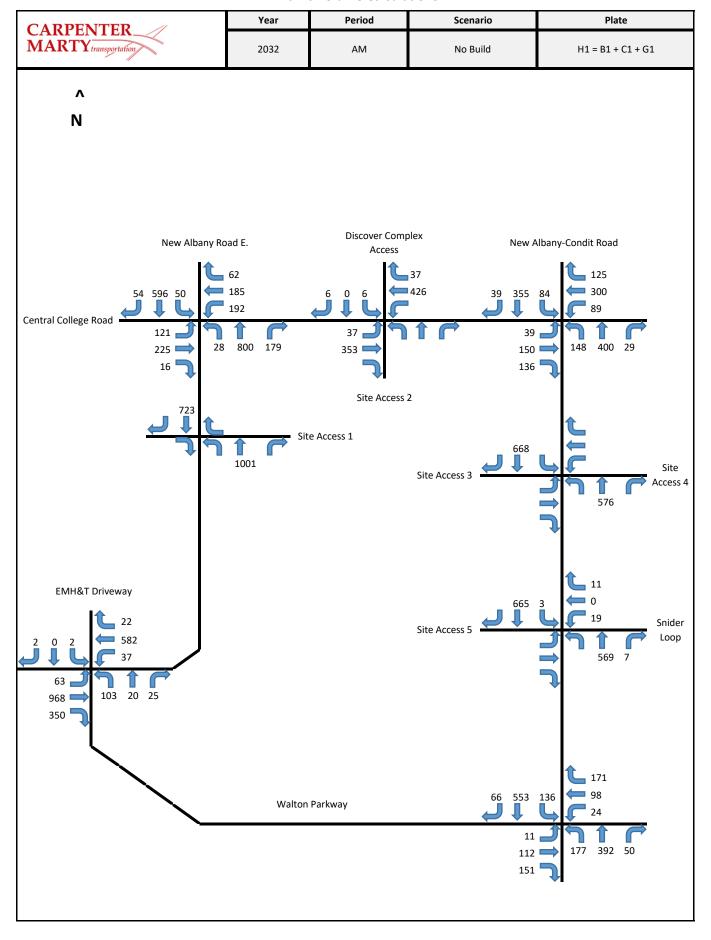


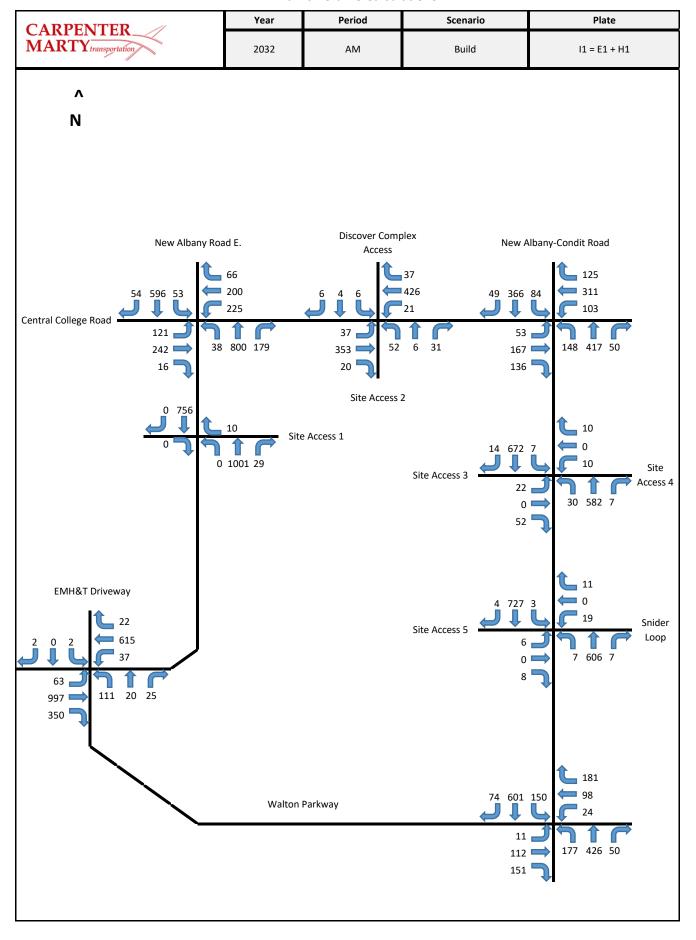


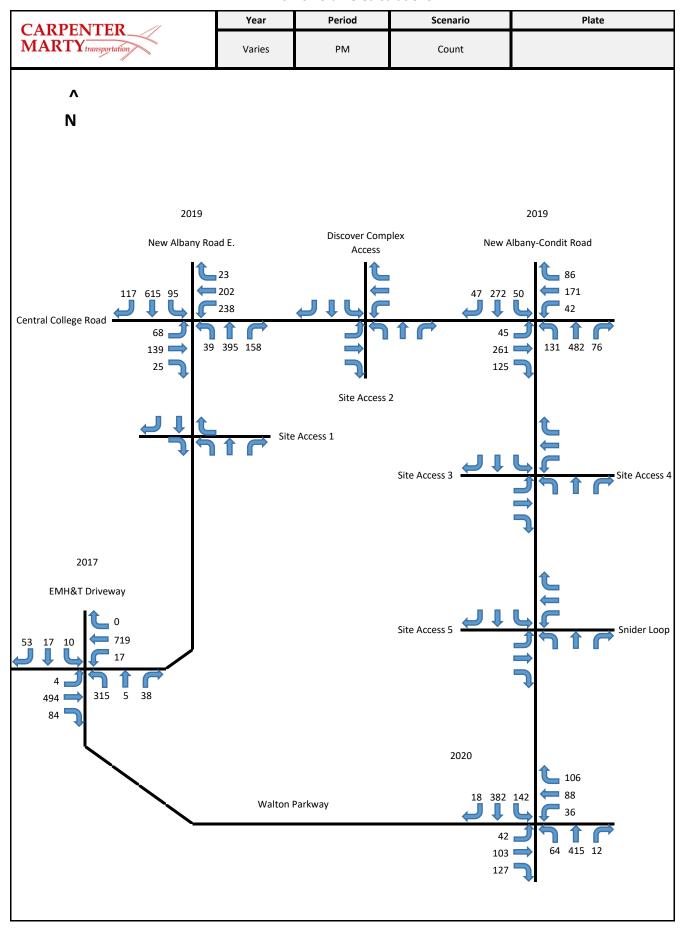


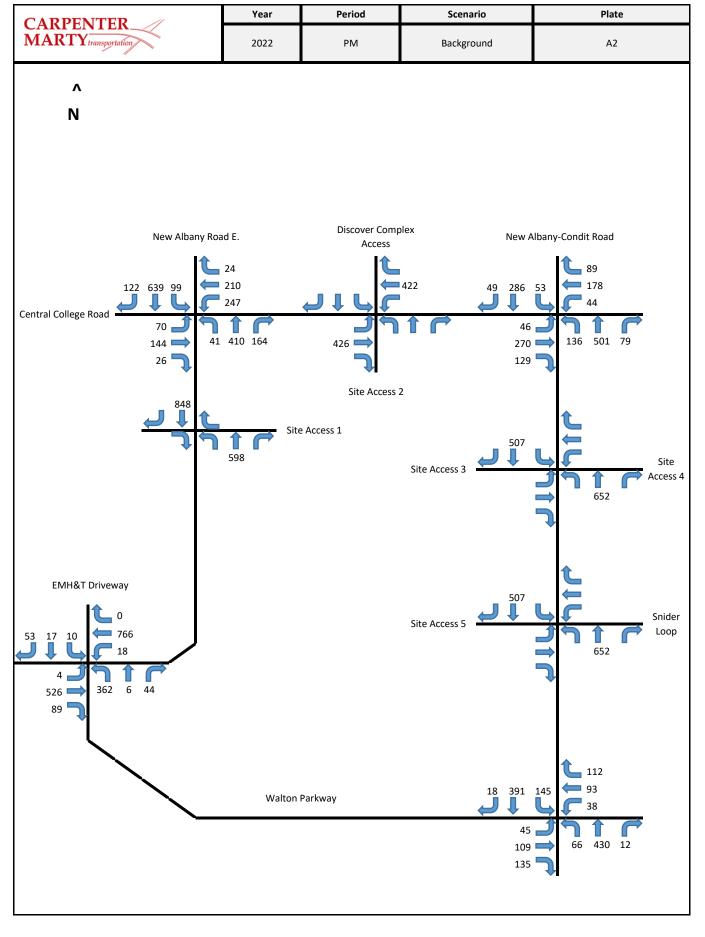


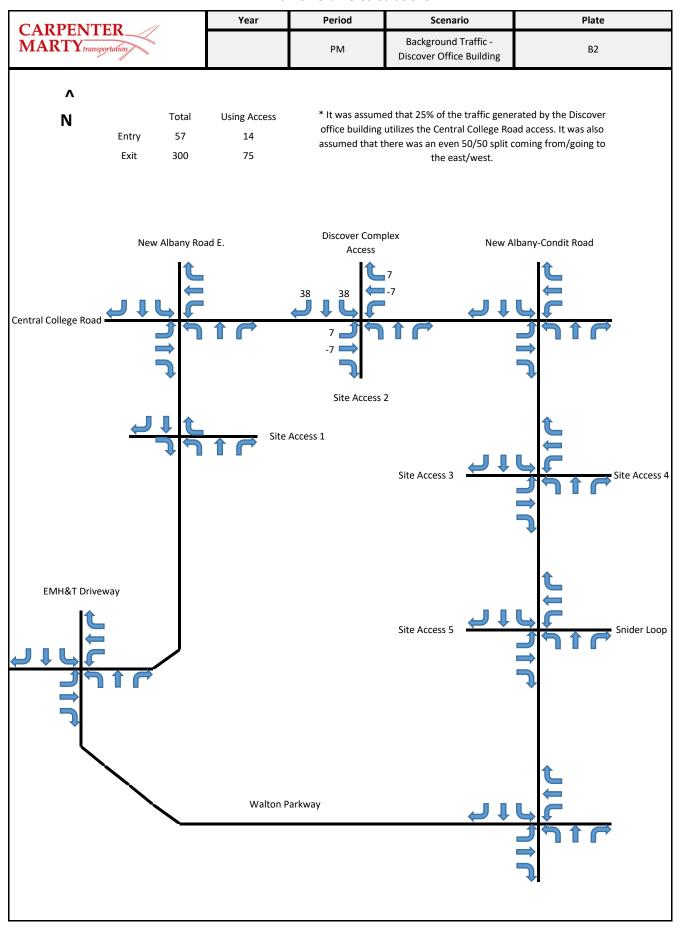


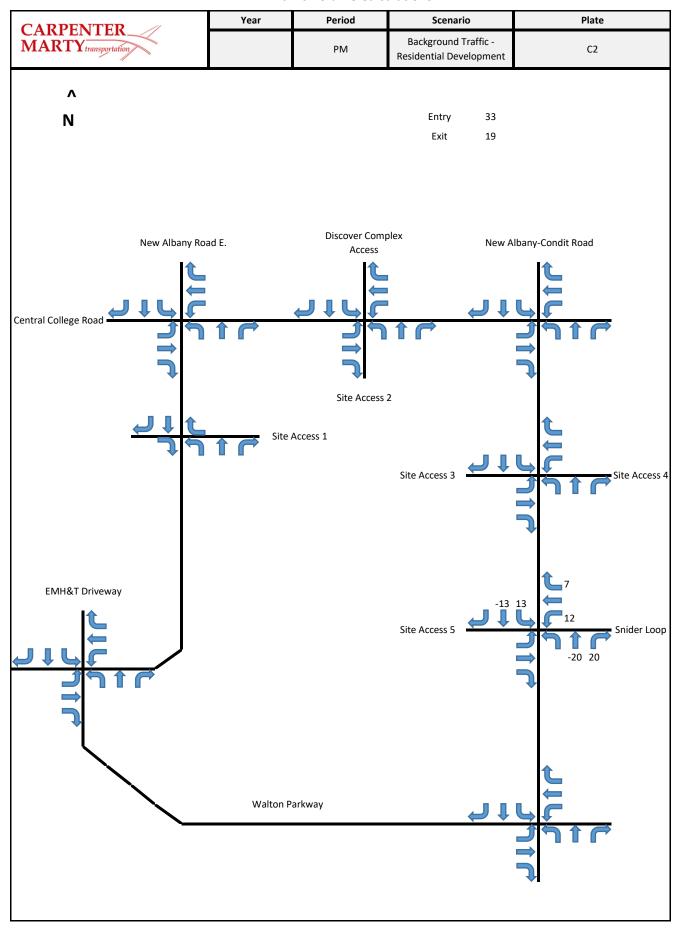


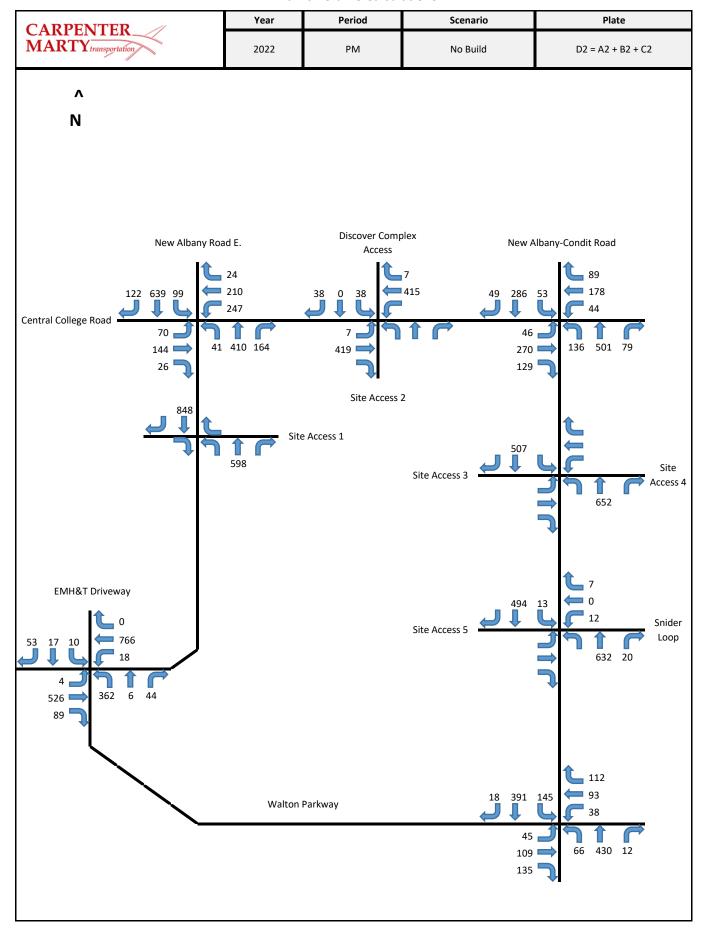


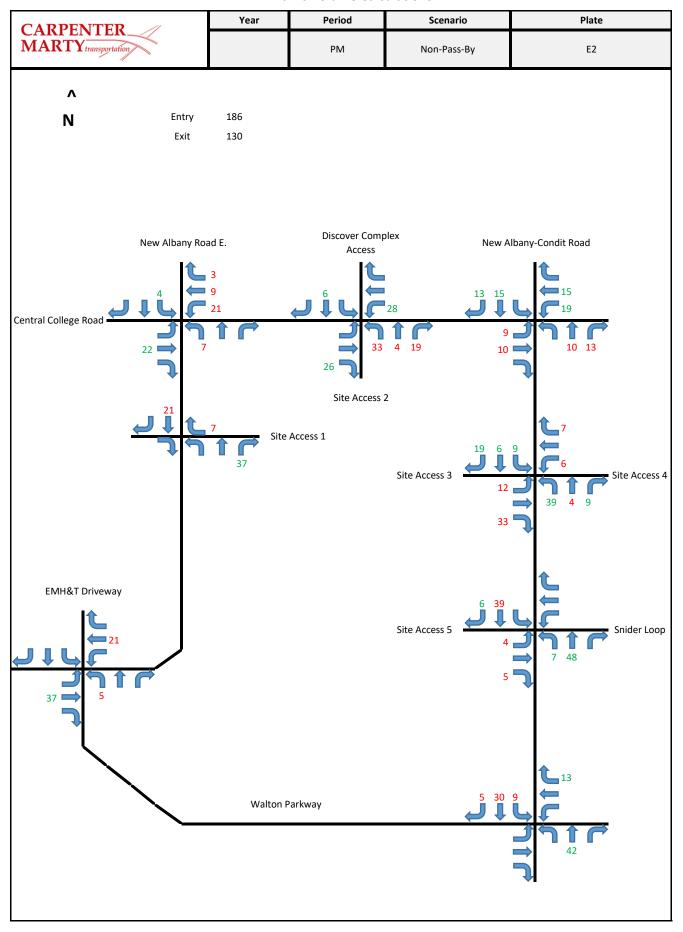


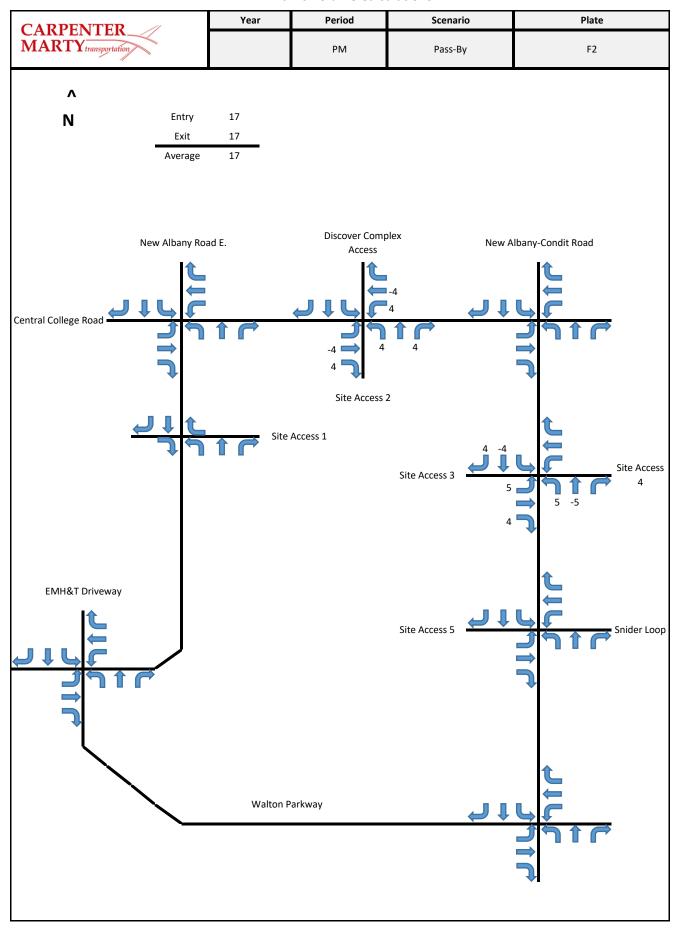


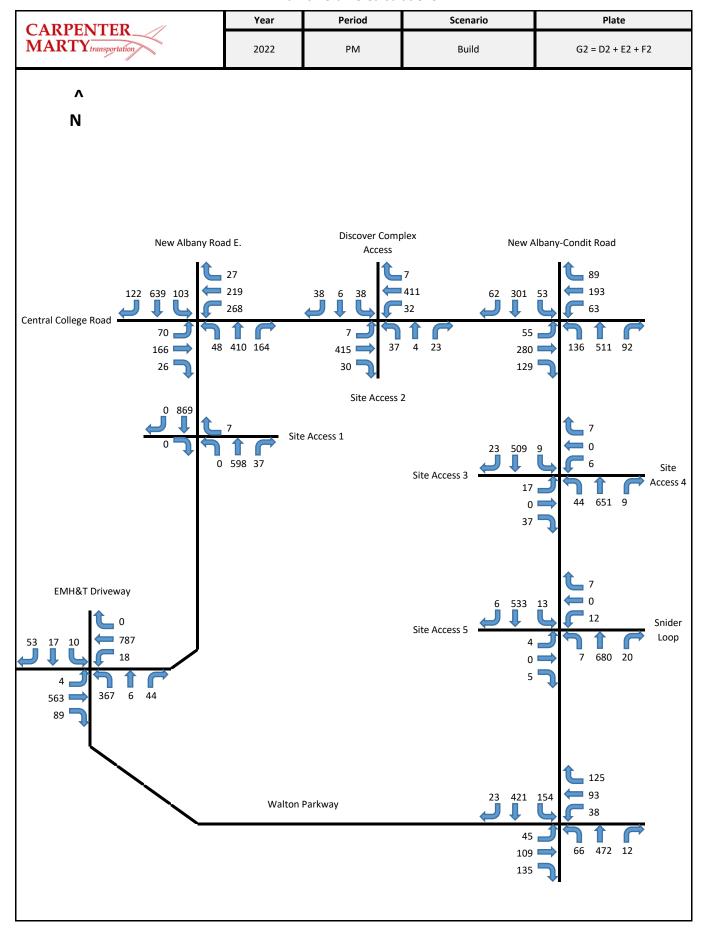


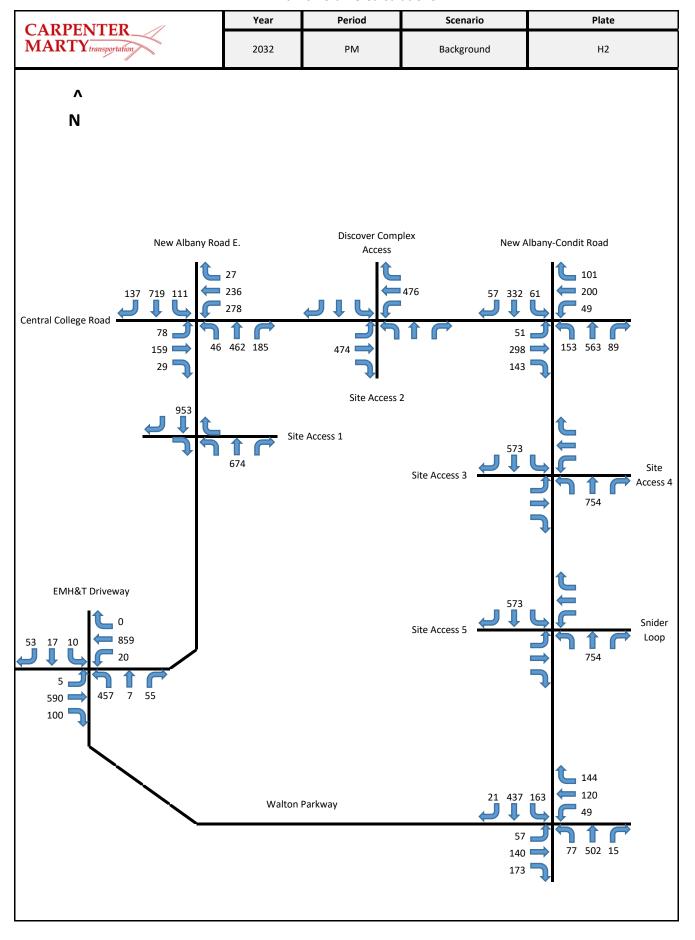


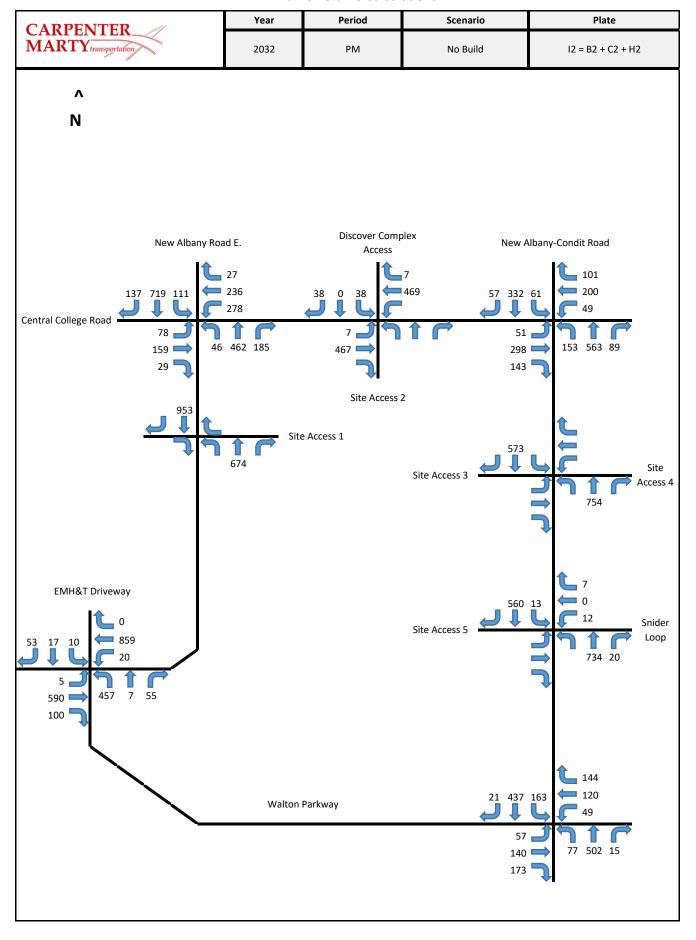


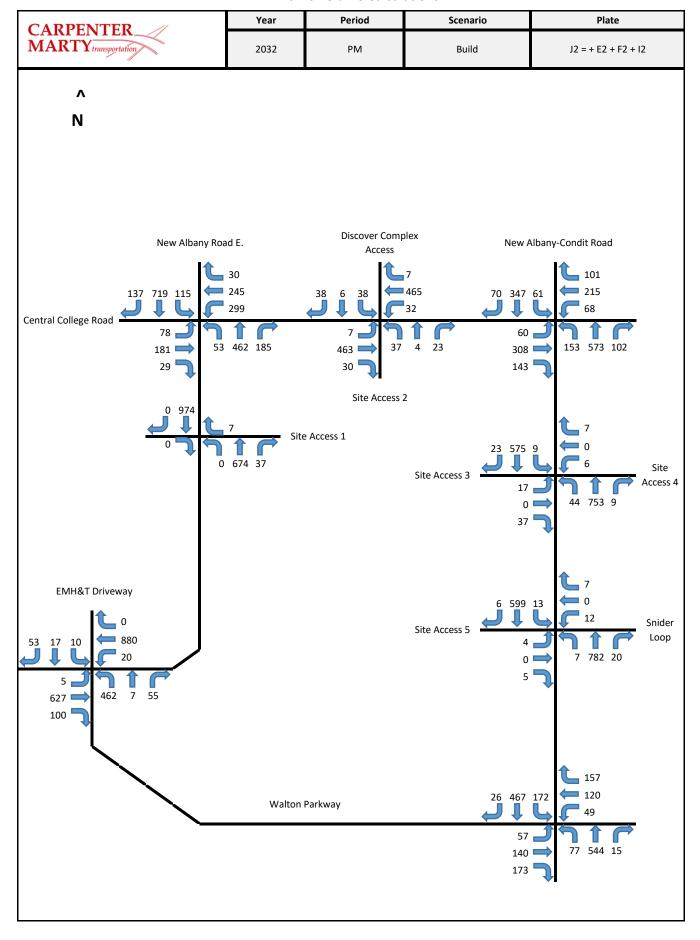






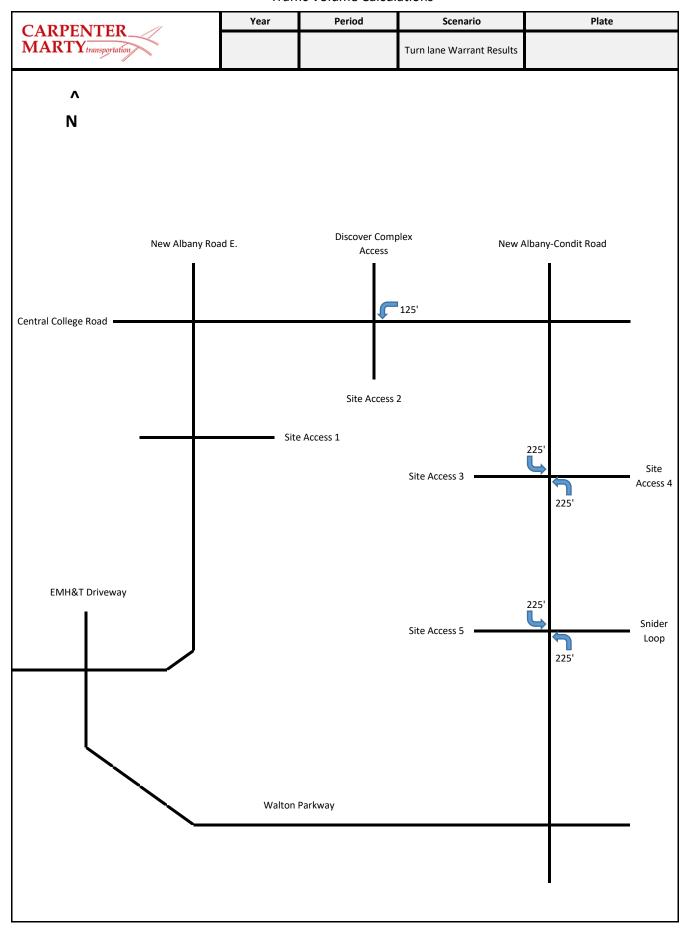






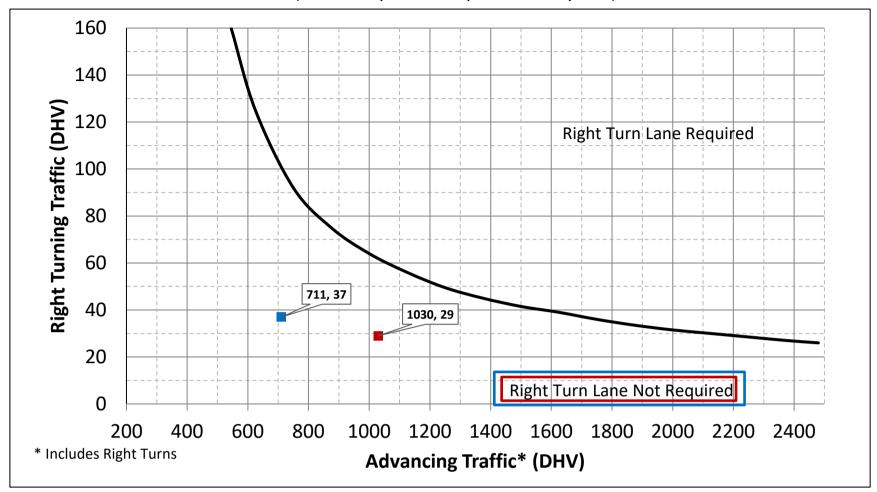
Appendix E Turn Lane Warrant Analysis







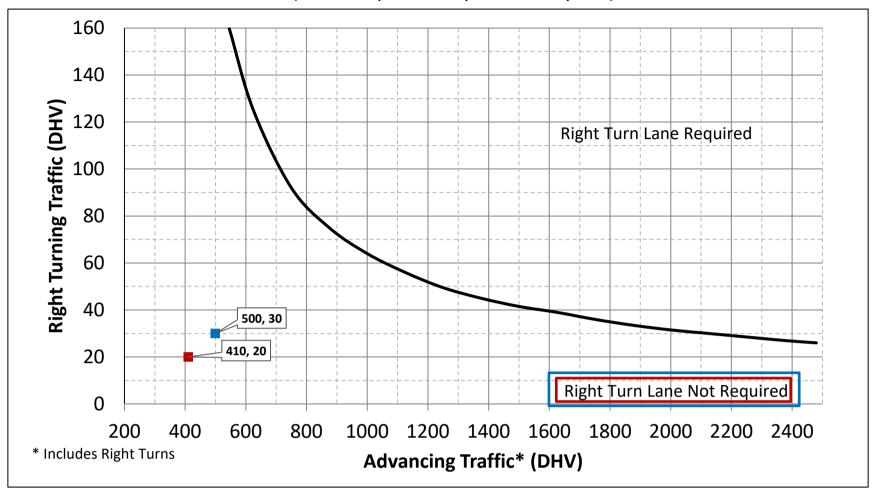
(= < 40 mph or 70 kph Posted Speed)



| AM Peak | Design Speed | 40 | mph | 7 |
|-----------------|-----------------------|--------------|--------------------------------|----------------------------------|
| | Traffic Control | Unsignalized | | |
| | Cycle Length | Unsignalized | | |
| | Cycles Per Hour | 60 | Assume 60 | |
| | Turn Lane Volume | 29 | VPH | |
| | Advancing Traffic | 1030 | VPH | |
| _ | Right Turn Percentage | 3% | | |
| | Location Type | Through Road | | |
| \triangleleft | Condition | В | | |
| | Vehicles/Cycle | 1 | | |
| | Turn Lane Length | 125 | | * Turn Lane Length |
| | Design Speed | 40 | mph | includes 50 ft divergin |
| | Traffic Control | Unsignalized | | taper |
| _ | Cycle Length | Unsignalized | | |
| B | Cycles Per Hour | 60 | Assume 60 | |
| O | Turn Lane Volume | 37 | VPH | |
| Q | Advancing Traffic | 711 | VPH | |
| PM Peak | Right Turn Percentage | 5% | | |
| | Location Type | Through Road | | |
| | Condition | В | | |
| | Vehicles/Cycle | 1 | | |
| | Turn Lane Length | 125 | | * Turn Lane Length |
| Is Righ | t Turn Warrant Met | No | No Right Turn Lane Required | includes 50 ft divergin taper |

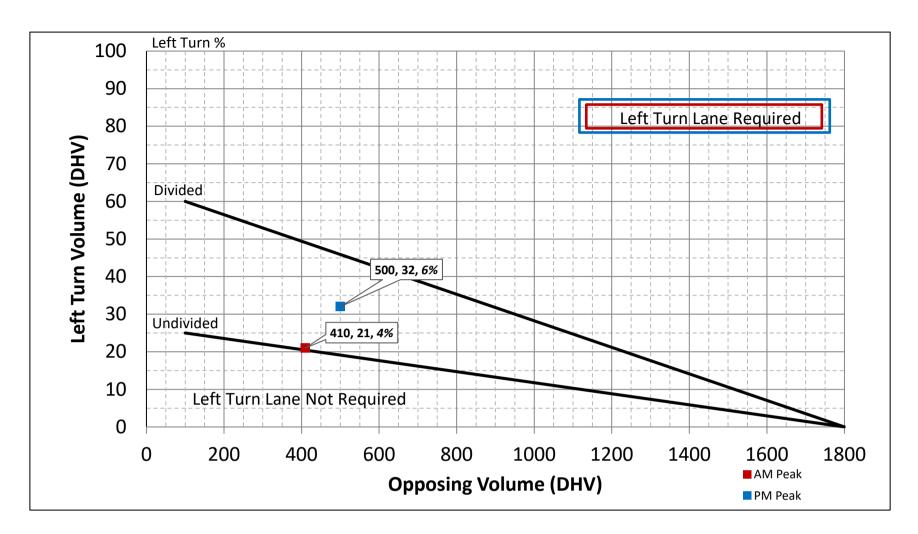


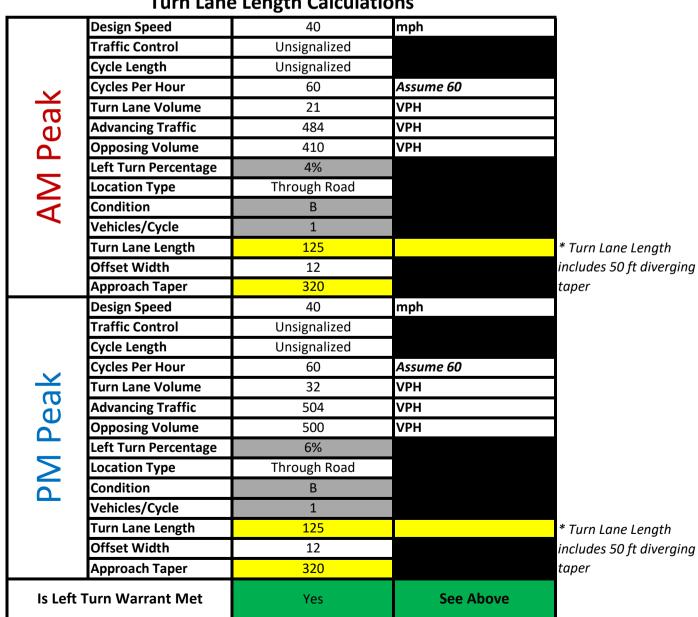
(= < 40 mph or 70 kph Posted Speed)



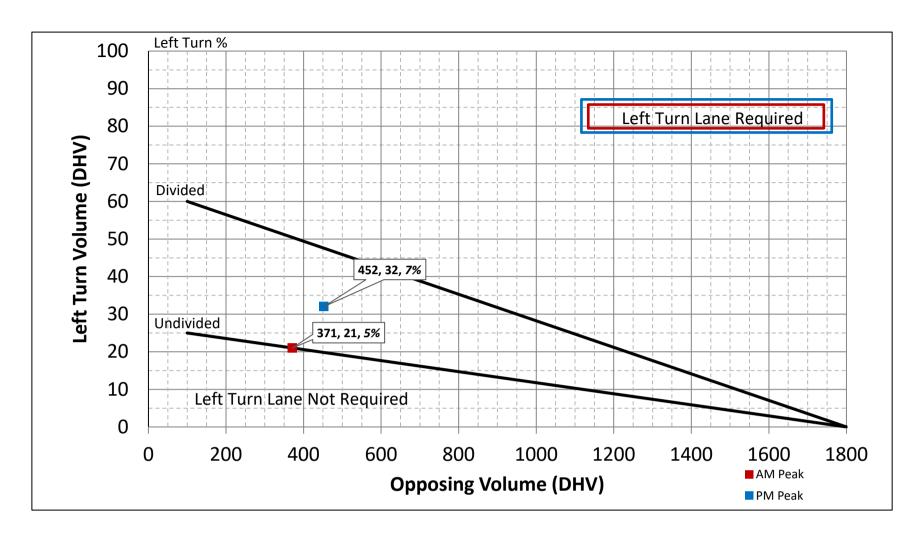
| AM Peak | Design Speed | 40 | mph |] |
|-----------------|-----------------------|--------------|--------------------------------|-----------------------------------|
| | Traffic Control | Unsignalized | | |
| | Cycle Length | Unsignalized | | |
| | Cycles Per Hour | 60 | Assume 60 | |
| | Turn Lane Volume | 20 | VPH | |
| 4 | Advancing Traffic | 410 | VPH | |
| _ | Right Turn Percentage | 5% | | |
| | Location Type | Through Road | | |
| \triangleleft | Condition | В | | |
| | Vehicles/Cycle | 1 | | |
| | Turn Lane Length | 125 | | * Turn Lane Length |
| | Design Speed | 40 | mph | includes 50 ft diverging |
| | Traffic Control | Unsignalized | | taper |
| _ | Cycle Length | Unsignalized | | |
| B | Cycles Per Hour | 60 | Assume 60 | |
| O | Turn Lane Volume | 30 | VPH | |
| D | Advancing Traffic | 500 | VPH | |
| | Right Turn Percentage | 6% | | |
| PM Peak | Location Type | Through Road | | |
| | Condition | В | | |
| | Vehicles/Cycle | 1 | | |
| | Turn Lane Length | 125 | | * Turn Lane Length |
| Is Righ | t Turn Warrant Met | No | No Right Turn Lane Required | includes 50 ft diverging taper |



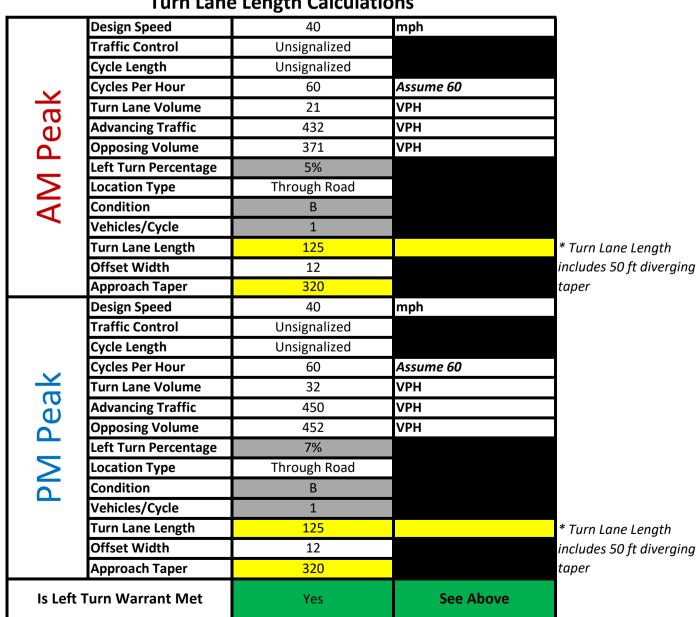






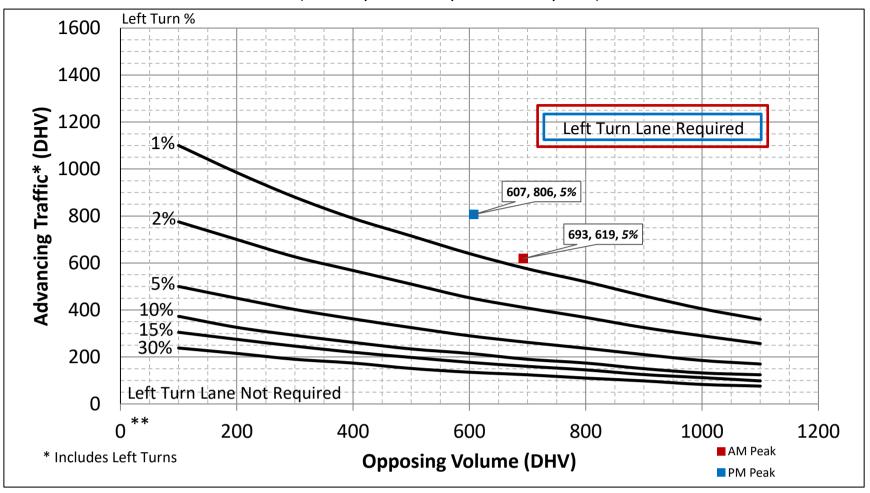


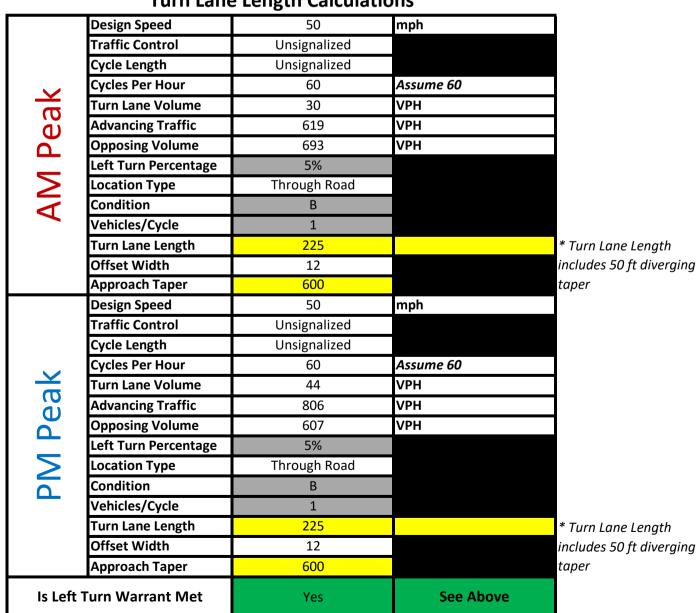
Turn Lane Length Calculations





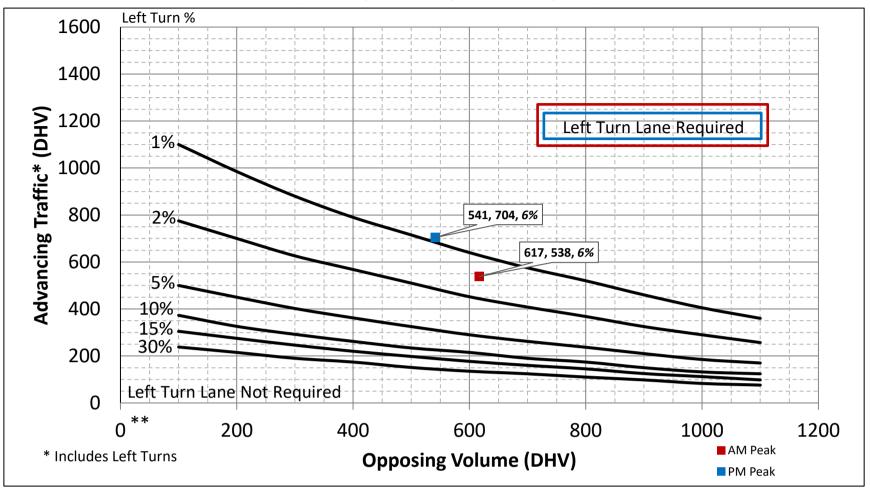
(> 40 mph or 70 kph Posted Speed)

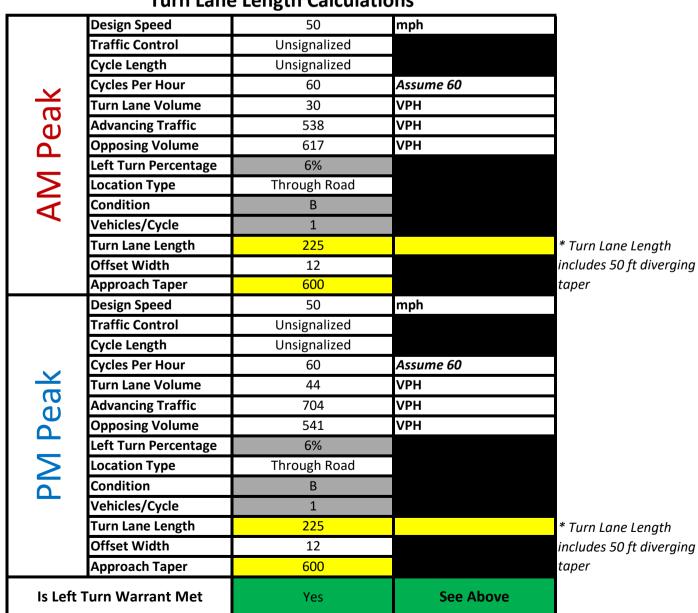






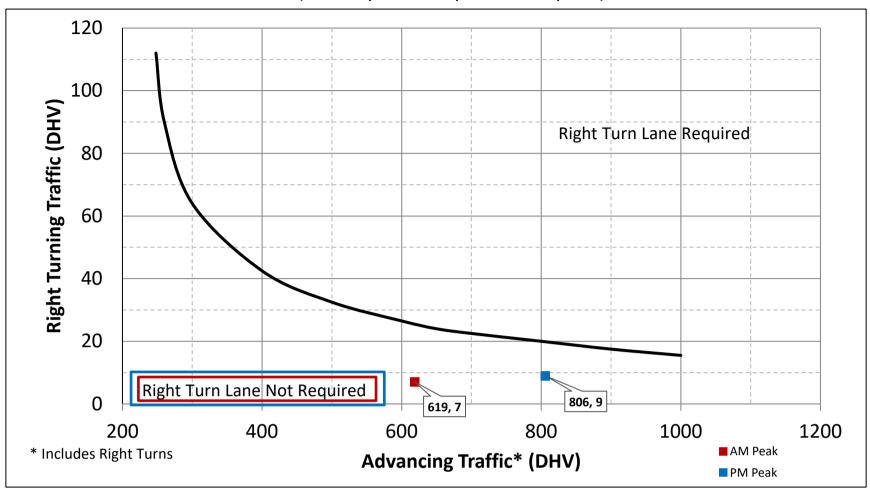
(> 40 mph or 70 kph Posted Speed)







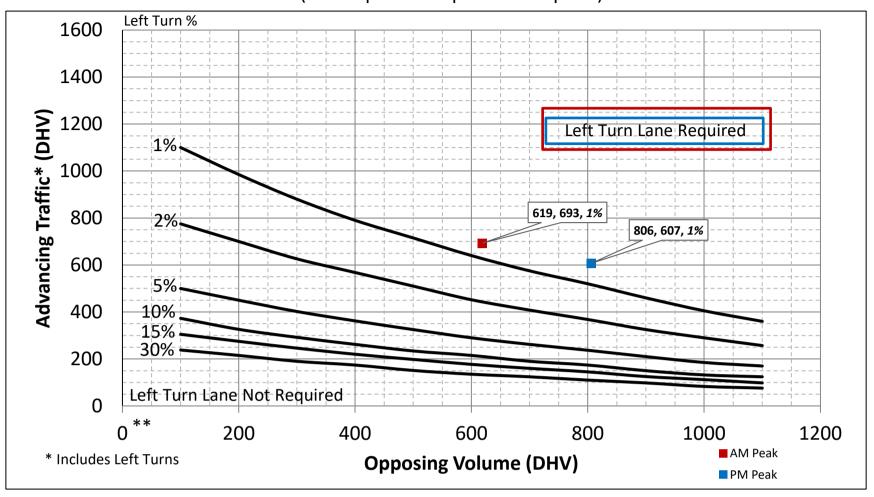
(> 40 mph or 70 kph Posted Speed)

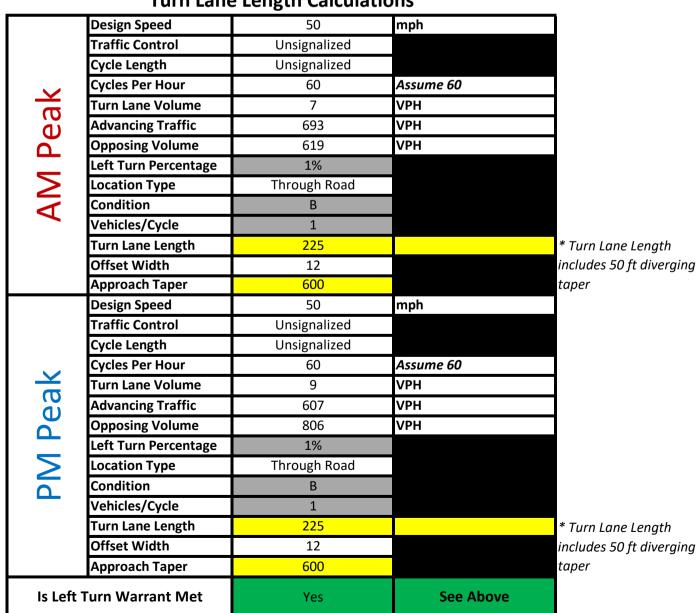


| AM Peak | Design Speed | 50 | mph | |
|-----------------|-----------------------|--------------|--------------------------------|----------------------------------|
| | Traffic Control | Unsignalized | | |
| | Cycle Length | Unsignalized | | |
| | Cycles Per Hour | 60 | Assume 60 | |
| | Turn Lane Volume | 7 | VPH | |
| | Advancing Traffic | 619 | VPH | |
| _ | Right Turn Percentage | 1% | | |
| | Location Type | Through Road | | |
| \triangleleft | Condition | В | | |
| | Vehicles/Cycle | 1 | | |
| | Turn Lane Length | 225 | | * Turn Lane Length |
| | Design Speed | 50 | mph | includes 50 ft divergin |
| | Traffic Control | Unsignalized | | taper |
| | Cycle Length | Unsignalized | | |
| O | Cycles Per Hour | 60 | Assume 60 | |
| O | Turn Lane Volume | 9 | VPH | |
| _ | Advancing Traffic | 806 | VPH | |
| PM Peak | Right Turn Percentage | 1% | | |
| | Location Type | Through Road | | |
| | Condition | В | | |
| | Vehicles/Cycle | 1 | | |
| | Turn Lane Length | 225 | | * Turn Lane Length |
| Is Righ | t Turn Warrant Met | No | No Right Turn Lane Required | includes 50 ft divergin taper |



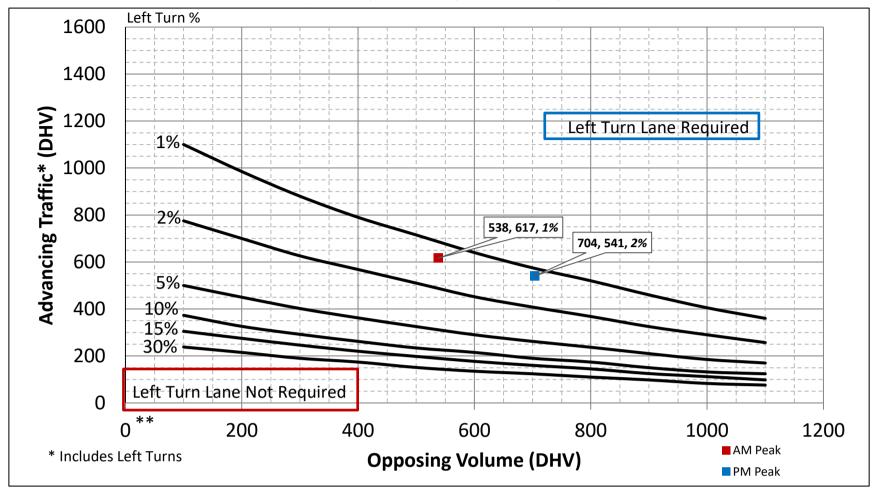
(> 40 mph or 70 kph Posted Speed)

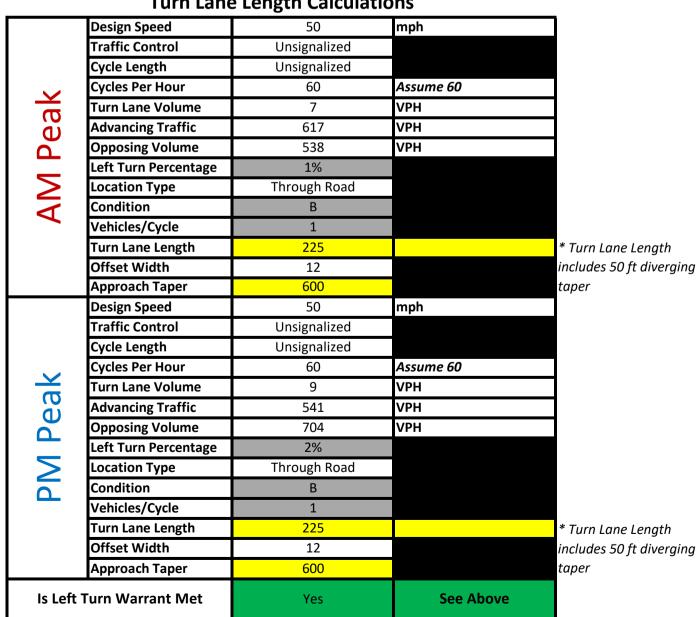






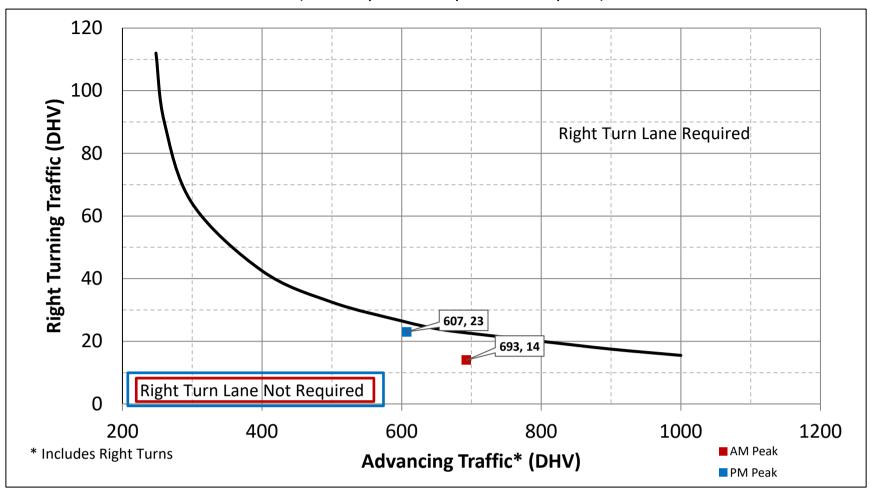
(> 40 mph or 70 kph Posted Speed)







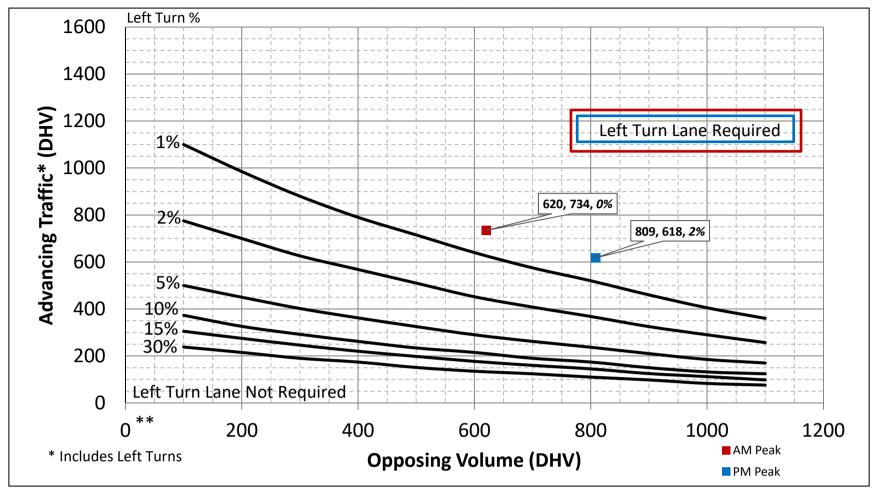
(> 40 mph or 70 kph Posted Speed)

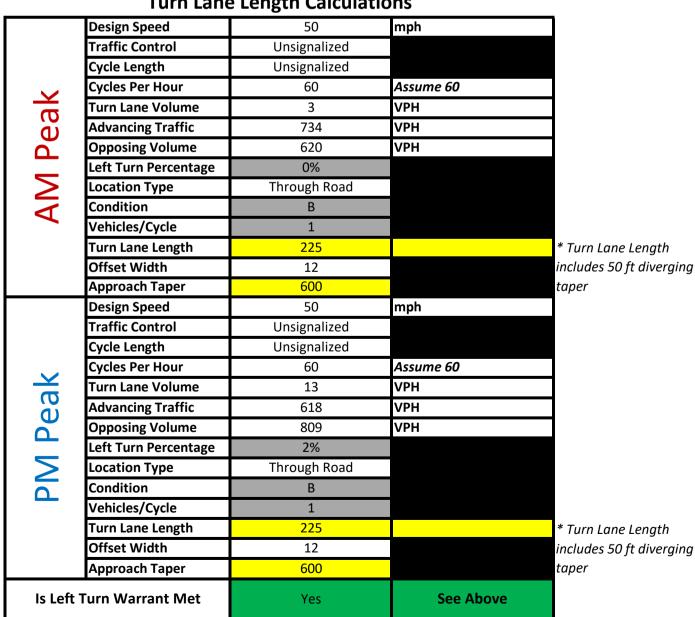


| | Design Speed | 50 | mph | 1 |
|-----------------|-----------------------|--------------|--------------------------------|----------------------------------|
| AM Peak | Traffic Control | Unsignalized | | |
| | Cycle Length | Unsignalized | | |
| | Cycles Per Hour | 60 | Assume 60 | |
| | Turn Lane Volume | 14 | VPH | |
| | Advancing Traffic | 693 | VPH | |
| _ | Right Turn Percentage | 2% | | |
| | Location Type | Through Road | | |
| \triangleleft | Condition | В | | |
| | Vehicles/Cycle | 1 | | |
| | Turn Lane Length | 225 | | * Turn Lane Length |
| | Design Speed | 50 | mph | includes 50 ft divergin |
| | Traffic Control | Unsignalized | | taper |
| _ | Cycle Length | Unsignalized | | |
| B | Cycles Per Hour | 60 | Assume 60 | |
| O | Turn Lane Volume | 23 | VPH | |
| _ | Advancing Traffic | 607 | VPH | |
| | Right Turn Percentage | 4% | | |
| PM Peak | Location Type | Through Road | | |
| | Condition | В | | |
| | Vehicles/Cycle | 1 | | |
| | Turn Lane Length | 225 | | * Turn Lane Length |
| Is Righ | t Turn Warrant Met | No | No Right Turn Lane Required | includes 50 ft divergin taper |



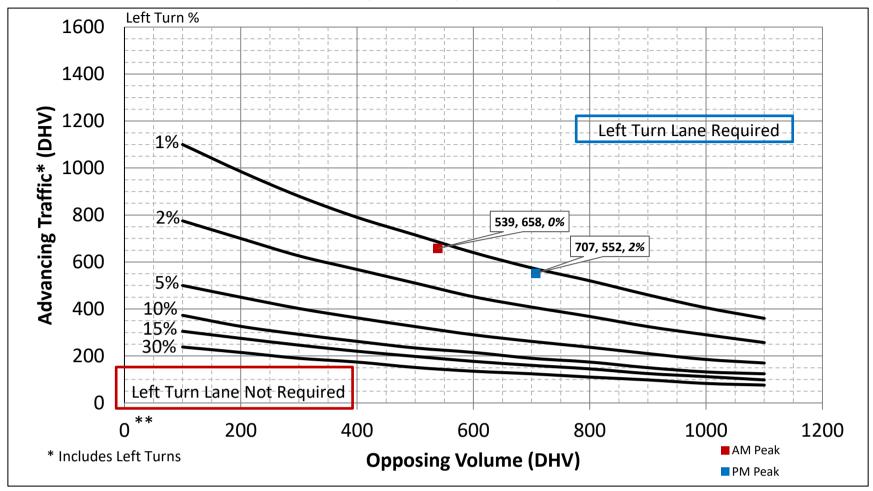
(> 40 mph or 70 kph Posted Speed)







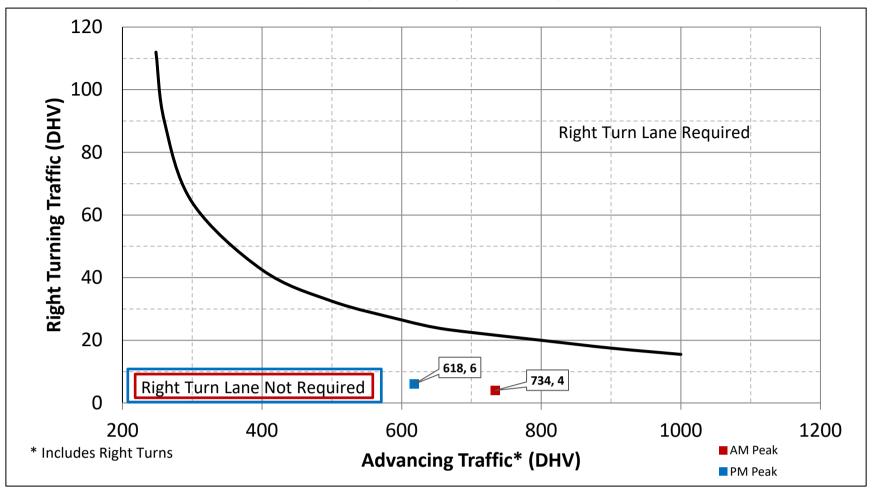
(> 40 mph or 70 kph Posted Speed)



| | Design Speed | 50 | mph | |
|----------------|----------------------|--------------|-----------|--------------------------|
| AM Peak | Traffic Control | Unsignalized | | |
| | Cycle Length | Unsignalized | | |
| | Cycles Per Hour | 60 | Assume 60 | |
| | Turn Lane Volume | 3 | VPH | |
| | Advancing Traffic | 658 | VPH | |
| 2 | Opposing Volume | 539 | VPH | |
| | Left Turn Percentage | 0% | | |
| > | Location Type | Through Road | | |
| | Condition | В | | |
| | Vehicles/Cycle | 1 | | |
| | Turn Lane Length | 225 | | * Turn Lane Length |
| | Offset Width | 12 | | includes 50 ft diverging |
| | Approach Taper | 600 | | taper |
| | Design Speed | 50 | mph | |
| | Traffic Control | Unsignalized | | |
| | Cycle Length | Unsignalized | | |
| | Cycles Per Hour | 60 | Assume 60 | |
| | Turn Lane Volume | 13 | VPH | |
| (1) | Advancing Traffic | 552 | VPH | |
| $\tilde{\Box}$ | Opposing Volume | 707 | VPH | |
| | Left Turn Percentage | 2% | | |
| PM Peak | Location Type | Through Road | | |
| | Condition | В | | |
| | Vehicles/Cycle | 1 | | |
| | Turn Lane Length | 225 | | * Turn Lane Length |
| | Offset Width | 12 | | includes 50 ft diverging |
| | Approach Taper | 600 | | taper |
| Is Left | Turn Warrant Met | Yes | See Above | |



(> 40 mph or 70 kph Posted Speed)

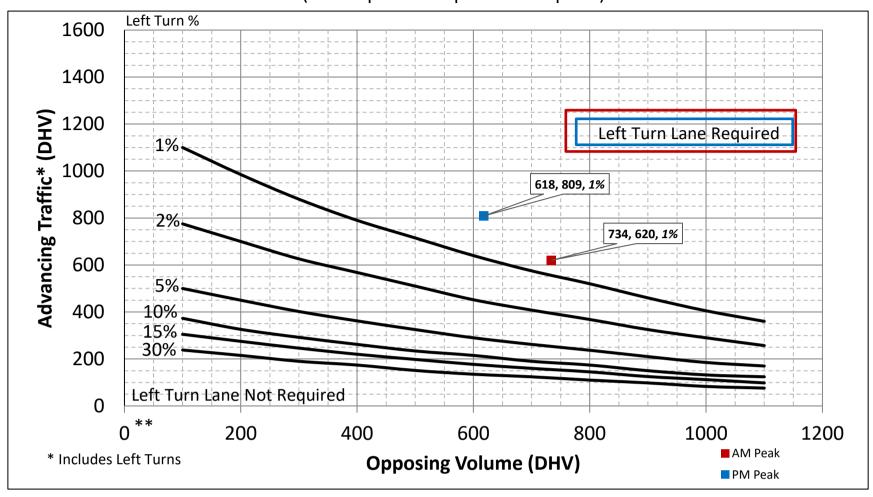


| AM Peak | Design Speed | 50 | mph |] |
|-----------------|-----------------------|--------------|--------------------------------|-----------------------------------|
| | Traffic Control | Unsignalized | | |
| | Cycle Length | Unsignalized | | |
| | Cycles Per Hour | 60 | Assume 60 | |
| | Turn Lane Volume | 4 | VPH | |
| <u> </u> | Advancing Traffic | 734 | VPH | |
| _ | Right Turn Percentage | 1% | | |
| | Location Type | Through Road | | |
| \triangleleft | Condition | В | | |
| | Vehicles/Cycle | 1 | | |
| | Turn Lane Length | 225 | | * Turn Lane Length |
| | Design Speed | 50 | mph | includes 50 ft diverging |
| | Traffic Control | Unsignalized | | taper |
| | Cycle Length | Unsignalized | | |
| D | Cycles Per Hour | 60 | Assume 60 | |
| O | Turn Lane Volume | 6 | VPH | |
| Δ_ | Advancing Traffic | 618 | VPH | |
| PM Peak | Right Turn Percentage | 1% | | |
| | Location Type | Through Road | | |
| | Condition | В | | |
| | Vehicles/Cycle | 1 | | |
| | Turn Lane Length | 225 | | * Turn Lane Length |
| Is Righ | t Turn Warrant Met | No | No Right Turn Lane Required | includes 50 ft diverging taper |

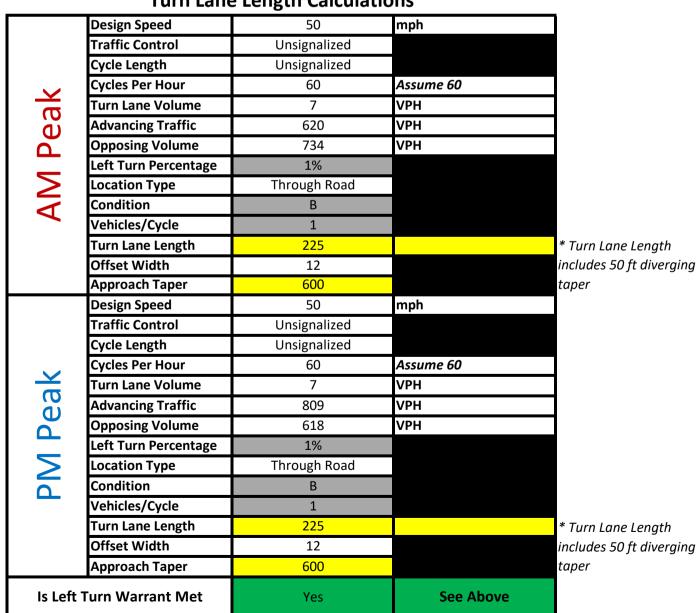


2-Lane Highway Left Turn Lane Warrant

(> 40 mph or 70 kph Posted Speed)



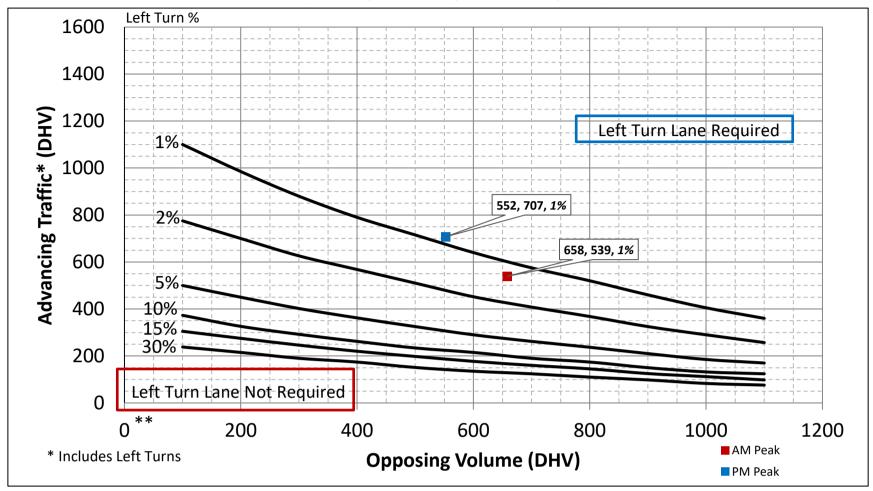
Turn Lane Length Calculations



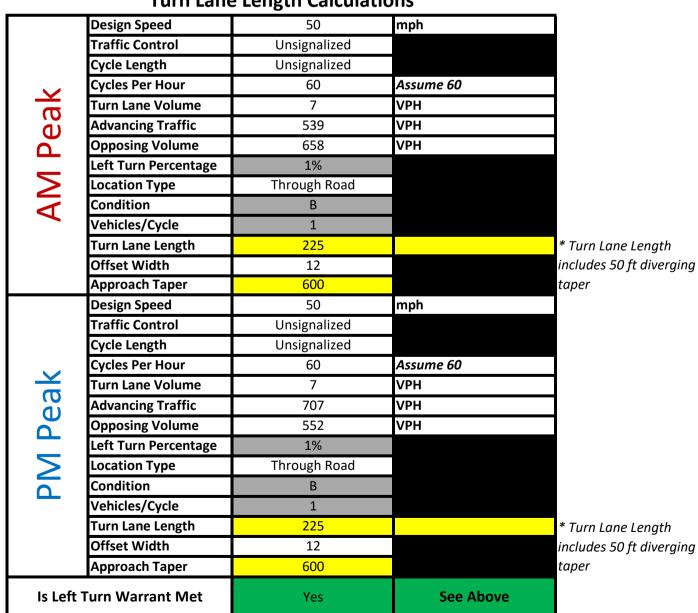


2-Lane Highway Left Turn Lane Warrant

(> 40 mph or 70 kph Posted Speed)



Turn Lane Length Calculations





Right Turn Lane Length Calculations

| | Design Speed | 50 | mph |
|-----------------|-----------------------|----------------------|-----------|
| | Traffic Control | Signalized - 4 Phase | |
| | Cycle Length | Unknown | |
| ס | Cycles Per Hour | 30 | Assume 30 |
| a | Turn Lane Volume | 50 | VPH |
| <u>Д</u> | Advancing Traffic | 615 | VPH |
| AM Peak | Right Turn Percentage | 8% | |
| | Location Type | Intersection | |
| \triangleleft | Condition | B or C | |
| | Vehicles/Cycle | 2 | |
| | Turn Lane Length | See Column to Right | 245 |
| | Design Speed | 50 | mph |
| | Traffic Control | Signalized - 4 Phase | |
| | Cycle Length | Unknown | |
| O | Cycles Per Hour | 30 | Assume 30 |
| O | Turn Lane Volume | 102 | VPH |
| <u>م</u> | Advancing Traffic | 828 | VPH |
| | Right Turn Percentage | 12% | |
| PM Peak | Location Type | Intersection | |
| <u> </u> | Condition | B or C | |
| | Vehicles/Cycle | 4 | |
| | Turn Lane Length | See Column to Right | 320 |



Appendix F Capacity Analysis & Signal Warrant Analysis



| | * | \$⊳ | * | * | / | ₫ | • | * | |
|--------------------------|------------|------------|----------|------------|----------|----------|------------|-------|-------------|
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Movement | NBL | SBTL | EBL | WBTL | SBL | NBTL | WBL | EBTL | |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag | |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Recall Mode | None | Max | None | None | None | Max | None | None | |
| Maximum Split (s) | 15 | 36.4 | 15 | 23.6 | 15 | 36.4 | 15 | 23.6 | |
| Maximum Split (%) | 16.7% | 40.4% | 16.7% | 26.2% | 16.7% | 40.4% | 16.7% | 26.2% | |
| Minimum Split (s) | 15 | 26.7 | 15 | 23.6 | 15 | 26.4 | 15 | 23 | |
| Yellow Time (s) | 3 | 4.7 | 3 | 3.6 | 3 | 4.4 | 3 | 3.6 | |
| All-Red Time (s) | 1.8 | 1 | 1.4 | 1 | 1.8 | 1 | 1.4 | 1 | |
| Minimum Initial (s) | 10 | 20 | 10 | 15 | 10 | 20 | 10 | 15 | |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Walk Time (s) | | | | 7 | | 7 | | | |
| Flash Dont Walk (s) | | | | 11 | | 11 | | | |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes | |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Start Time (s) | 0 | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | |
| End Time (s) | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | 0 | |
| Yield/Force Off (s) | 10.2 | 45.7 | 62 | 85.4 | 10.2 | 46 | 62 | 85.4 | |
| Yield/Force Off 170(s) | 10.2 | 45.7 | 62 | 74.4 | 10.2 | 35 | 62 | 85.4 | |
| Local Start Time (s) | 75 | 0 | 36.4 | 51.4 | 75 | 0 | 36.4 | 51.4 | |
| Local Yield (s) | 85.2 | 30.7 | 47 | 70.4 | 85.2 | 31 | 47 | 70.4 | |
| Local Yield 170(s) | 85.2 | 30.7 | 47 | 59.4 | 85.2 | 20 | 47 | 70.4 | |
| Intersection Summary | | | | | | | | | |
| Cycle Length | | | 90 | | | | | | |
| Control Type | Actuate | ed-Uncoo | | | | | | | |
| Natural Cycle | | | 85 | | | | | | |
| Splits and Phases: 3: Ne | w Albany-C | Condit Roa | ad & Cen | tral Colle | ne Road | | | | |
| \$ Ø1 | Uhr. | | | | <i>J</i> | 1 | 7 2 | | ★ |
| | Ø2 | | | | | 15 s | Ø3 | | ₩ Ø4 |
| 15 s 36.4 | † S ▲ | | | | | | _ | | 23.0 8 |
| ø ₅ | Ø6 | | | | | - • | Ø7 | | ₽ 08 |
| 15 - | 1- | | | | | 15. | | | 22.6 - |

Synchro 11 Report OY AM No Build

| | ۶ | → | • | • | ← | • | 4 | † | / | > | ļ | 4 |
|------------------------------|-------|-----------|-------|------|------------|-------|-------|----------|------|-------------|-----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ¥ | † | 7 | ň | ↑ ↑ | | Ţ | f) | | * | | 7 |
| Traffic Volume (veh/h) | 35 | 135 | 123 | 79 | 267 | 111 | 132 | 355 | 26 | 73 | 306 | 34 |
| Future Volume (veh/h) | 35 | 135 | 123 | 79 | 267 | 111 | 132 | 355 | 26 | 73 | 306 | 34 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 38 | 147 | 134 | 86 | 290 | 121 | 143 | 386 | 28 | 79 | 333 | 37 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 314 | 336 | 468 | 391 | 525 | 214 | 526 | 659 | 48 | 464 | 688 | 694 |
| Arrive On Green | 0.07 | 0.18 | 0.18 | 0.10 | 0.21 | 0.21 | 0.12 | 0.38 | 0.38 | 0.10 | 0.37 | 0.37 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1781 | 2463 | 1004 | 1781 | 1723 | 125 | 1781 | 1870 | 1585 |
| Grp Volume(v), veh/h | 38 | 147 | 134 | 86 | 207 | 204 | 143 | 0 | 414 | 79 | 333 | 37 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1870 | 1585 | 1781 | 1777 | 1690 | 1781 | 0 | 1848 | 1781 | 1870 | 1585 |
| Q Serve(g_s), s | 1.4 | 5.8 | 5.4 | 3.0 | 8.7 | 9.0 | 3.8 | 0.0 | 14.9 | 2.1 | 11.4 | 1.1 |
| Cycle Q Clear(g_c), s | 1.4 | 5.8 | 5.4 | 3.0 | 8.7 | 9.0 | 3.8 | 0.0 | 14.9 | 2.1 | 11.4 | 1.1 |
| Prop In Lane | 1.00 | 0.0 | 1.00 | 1.00 | 017 | 0.59 | 1.00 | 0.0 | 0.07 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 314 | 336 | 468 | 391 | 378 | 360 | 526 | 0 | 707 | 464 | 688 | 694 |
| V/C Ratio(X) | 0.12 | 0.44 | 0.29 | 0.22 | 0.55 | 0.57 | 0.27 | 0.00 | 0.59 | 0.17 | 0.48 | 0.05 |
| Avail Cap(c_a), veh/h | 415 | 426 | 544 | 433 | 404 | 385 | 538 | 0.00 | 707 | 503 | 688 | 694 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 24.2 | 30.5 | 22.7 | 22.5 | 29.3 | 29.4 | 13.0 | 0.0 | 20.5 | 13.6 | 20.3 | 13.5 |
| Incr Delay (d2), s/veh | 0.2 | 0.9 | 0.3 | 0.3 | 1.3 | 1.7 | 0.3 | 0.0 | 3.5 | 0.2 | 2.4 | 0.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.6 | 2.6 | 2.0 | 1.2 | 3.6 | 3.6 | 1.3 | 0.0 | 6.4 | 0.7 | 4.9 | 0.4 |
| Unsig. Movement Delay, s/veh | | 2.0 | 2.0 | 112 | 0.0 | 0.0 | 1.0 | 0.0 | 0.1 | 0.7 | 1.7 | 0.1 |
| LnGrp Delay(d),s/veh | 24.4 | 31.4 | 23.0 | 22.8 | 30.6 | 31.1 | 13.3 | 0.0 | 24.0 | 13.7 | 22.7 | 13.6 |
| LnGrp LOS | C | С | C | C | C | С | В | A | C | В | C | В |
| Approach Vol, veh/h | | 319 | | | 497 | | | 557 | | | 449 | |
| Approach Delay, s/veh | | 27.0 | | | 29.5 | | | 21.3 | | | 20.4 | |
| Approach LOS | | 27.0 C | | | 27.3 C | | | Z1.3 | | | 20.4 C | |
| | | | | | | | | | | | C | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 14.4 | 36.4 | 10.3 | 22.4 | 13.2 | 37.6 | 13.0 | 19.6 | | | | |
| Change Period (Y+Rc), s | * 4.8 | 5.7 | * 4.4 | 4.6 | * 4.8 | * 5.7 | * 4.4 | 4.6 | | | | |
| Max Green Setting (Gmax), s | * 10 | 30.7 | * 11 | 19.0 | * 10 | * 31 | * 11 | 19.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 5.8 | 13.4 | 3.4 | 11.0 | 4.1 | 16.9 | 5.0 | 7.8 | | | | |
| Green Ext Time (p_c), s | 0.1 | 1.6 | 0.0 | 1.4 | 0.1 | 1.9 | 0.1 | 0.9 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 24.3 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |
| Notes | | | | | | | | | | | | |

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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|-----------------------------|-------------|------------|-----------|---------------|----------|-------|-------|----------|--------|
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Movement | SBL | NBTL | WBL | EBTL | NBL | SBTL | EBL | WBT | |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag | |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Recall Mode | None | C-Max | None | None | None | C-Max | None | None | |
| Maximum Split (s) | 12 | 39 | 16 | 23 | 12 | 39 | 12 | 27 | |
| Maximum Split (%) | 13.3% | 43.3% | 17.8% | 25.6% | 13.3% | 43.3% | 13.3% | 30.0% | |
| Minimum Split (s) | 12 | 23 | 12 | 23 | 12 | 23 | 12 | 23 | |
| Yellow Time (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| All-Red Time (s) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Minimum Initial (s) | 7 | 10 | 7 | 10 | 7 | 10 | 7 | 10 | |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Walk Time (s) | | 7 | | 7 | | 7 | | 7 | |
| Flash Dont Walk (s) | | 11 | | 11 | | 11 | | 11 | |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes | |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Start Time (s) | 0 | 12 | 51 | 67 | 0 | 12 | 51 | 63 | |
| End Time (s) | 12 | 51 | 67 | 0 | 12 | 51 | 63 | 0 | |
| Yield/Force Off (s) | 7 | 46 | 62 | 85 | 7 | 46 | 58 | 85 | |
| Yield/Force Off 170(s) | 7 | 35 | 62 | 74 | 7 | 35 | 58 | 74 | |
| Local Start Time (s) | 78 | 0 | 39 | 55 | 78 | 0 | 39 | 51 | |
| Local Yield (s) | 85 | 34 | 50 | 73 | 85 | 34 | 46 | 73 | |
| Local Yield 170(s) | 85 | 23 | 50 | 62 | 85 | 23 | 46 | 62 | |
| Intersection Summary | | | | | | | | | |
| Cycle Length | | | 90 | | | | | | |
| Control Type | Actu | ated-Coor | | | | | | | |
| Natural Cycle | | | 70 | | | | | | |
| Offset: 12 (13%), Reference | d to phase | 2:NBTL | and 6:SB | TL, Start | of Green | | | | |
| Splits and Phases: 6: New | / Albany F | Road E & (| Central C | ollege Ro | oad | | | | |
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|------------------------------------|------------|------------|------|-------------|------------|-------------|-------------|----------|-------------|-------------|----------|-------------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ሻ | ∱ ∱ | | ሻሻ | ∱ ∱ | | ሻ | ^ | 7 | ሻ | ^ | 7 |
| Traffic Volume (veh/h) | 109 | 204 | 14 | 170 | 164 | 55 | 25 | 711 | 159 | 45 | 530 | 48 |
| Future Volume (veh/h) | 109 | 204 | 14 | 170 | 164 | 55 | 25 | 711 | 159 | 45 | 530 | 48 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 118 | 222 | 15 | 185 | 178 | 60 | 27 | 773 | 173 | 49 | 576 | 52 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 267 | 376 | 25 | 266 | 296 | 97 | 519 | 1900 | 970 | 418 | 1960 | 994 |
| Arrive On Green | 0.08 | 0.11 | 0.11 | 0.08 | 0.11 | 0.11 | 0.04 | 0.53 | 0.53 | 0.05 | 0.55 | 0.55 |
| Sat Flow, veh/h | 1781 | 3380 | 227 | 3456 | 2633 | 859 | 1781 | 3554 | 1585 | 1781 | 3554 | 1585 |
| Grp Volume(v), veh/h | 118 | 116 | 121 | 185 | 118 | 120 | 27 | 773 | 173 | 49 | 576 | 52 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1777 | 1830 | 1728 | 1777 | 1716 | 1781 | 1777 | 1585 | 1781 | 1777 | 1585 |
| Q Serve(g_s), s | 5.2 5.2 | 5.6 | 5.7 | 4.7 | 5.7 | 6.0 | 0.6 | 11.6 | 4.3 | 1.0 | 7.8 | 1.1 |
| Cycle Q Clear(g_c), s | | 5.6 | 5.7 | 4.7 | 5.7 | 6.0 | 0.6 | 11.6 | 4.3 | 1.0 | 7.8 | 1.1 |
| Prop In Lane | 1.00 | 197 | 0.12 | 1.00 266 | 200 | 0.50 193 | 1.00 519 | 1900 | 1.00 970 | 1.00 | 1960 | 1.00 994 |
| Lane Grp Cap(c), veh/h | 0.44 | 0.59 | 0.60 | 0.70 | 0.59 | 0.62 | 0.05 | 0.41 | 0.18 | 418 0.12 | 0.29 | 0.05 |
| V/C Ratio(X) Avail Cap(c_a), veh/h | 271 | 355 | 366 | 422 | 434 | 419 | 589 | 1900 | 970 | 459 | 1960 | 994 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 32.1 | 38.0 | 38.1 | 40.5 | 38.0 | 38.1 | 8.6 | 12.4 | 7.6 | 8.6 | 10.8 | 6.5 |
| Incr Delay (d2), s/veh | 1.1 | 2.8 | 2.8 | 3.3 | 2.8 | 3.2 | 0.0 | 0.6 | 0.4 | 0.1 | 0.4 | 0.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.3 | 2.5 | 2.6 | 2.1 | 2.6 | 2.6 | 0.2 | 4.4 | 1.4 | 0.4 | 2.9 | 0.4 |
| Unsig. Movement Delay, s/veh | | 2.0 | 2.0 | 2.1 | 2.0 | 2.0 | 0.2 | | | 0.1 | 2.7 | 0.1 |
| LnGrp Delay(d),s/veh | 33.2 | 40.8 | 40.8 | 43.8 | 40.8 | 41.4 | 8.6 | 13.1 | 8.0 | 8.7 | 11.2 | 6.6 |
| LnGrp LOS | С | D | D | D | D | D | А | В | А | А | В | А |
| Approach Vol, veh/h | | 355 | | | 423 | | | 973 | | | 677 | |
| Approach Delay, s/veh | | 38.3 | | | 42.2 | | | 12.1 | | | 10.7 | |
| Approach LOS | | D | | | D | | | В | | | В | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 9.9 | 53.1 | 11.9 | 15.0 | 8.4 | 54.6 | 11.8 | 15.1 | | | | |
| Change Period (Y+Rc), s | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | | | | |
| Max Green Setting (Gmax), s | 7.0 | 34.0 | 11.0 | 18.0 | 7.0 | 34.0 | 7.0 | 22.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 3.0 | 13.6 | 6.7 | 7.7 | 2.6 | 9.8 | 7.2 | 8.0 | | | | |
| Green Ext Time (p_c), s | 0.0 | 5.8 | 0.7 | 0.8 | 0.0 | 4.1 | 0.0 | 1.0 | | | | |
| | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | | 0.0 | 1.0 | | | | |
| Intersection Summary | | | 00.0 | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 20.8 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |

Timing Report, Sorted By Phase 8: Walton Parkway/EMH&T Driveway & New Albany Road E

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|----------------------------|-------------|-----------|------------|----------|
| Phase Number | 2 | 4 | 6 | 8 |
| Movement | EBTL | NBTL | WBTL | SBTL |
| Lead/Lag | | | | |
| Lead-Lag Optimize | | | | |
| Recall Mode | C-Max | Max | Max | Max |
| Maximum Split (s) | 63 | 27 | 63 | 27 |
| Maximum Split (%) | 70.0% | 30.0% | 70.0% | 30.0% |
| Minimum Split (s) | 23 | 23 | 23 | 23 |
| Yellow Time (s) | 3 | 3 | 3 | 3 |
| All-Red Time (s) | 2 | 2 | 2 | 2 |
| Minimum Initial (s) | 10 | 10 | 10 | 10 |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 | 0 |
| Walk Time (s) | 7 | 7 | 7 | 7 |
| Flash Dont Walk (s) | 11 | 11 | 11 | 11 |
| Dual Entry | Yes | Yes | Yes | Yes |
| Inhibit Max | Yes | Yes | Yes | Yes |
| Start Time (s) | 0 | 63 | 0 | 63 |
| End Time (s) | 63 | 0 | 63 | 0 |
| Yield/Force Off (s) | 58 | 85 | 58 | 85 |
| Yield/Force Off 170(s) | 47 | 74 | 47 | 74 |
| Local Start Time (s) | 0 | 63 | 0 | 63 |
| Local Yield (s) | 58 | 85 | 58 | 85 |
| Local Yield 170(s) | 47 | 74 | 47 | 74 |
| | 17 | , , | 17 | , , |
| Intersection Summary | | | | |
| Cycle Length | | | 90 | |
| Control Type | Actu | ated-Coo | | |
| Natural Cycle | | | 55 | |
| Offset: 0 (0%), Referenced | to phase 2 | :EBTL, St | art of Gre | een |
| | | | | |
| Splits and Phases: 8: Wa | Ilton Parkw | ay/EMH& | T Drivew | ay & New |
| A (2) (2) | | | | |
| Ø2 (R) | | | | |
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| 63 s | | | | |

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|------------------------------|------|------------|------|------|----------|------|------|-------|------|----------|------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ň | ∱ ∱ | | 7 | ħβ | | Ţ | 4î | | 7 | f) | |
| Traffic Volume (veh/h) | 56 | 863 | 312 | 33 | 519 | 19 | 82 | 16 | 20 | 2 | 0 | 2 |
| Future Volume (veh/h) | 56 | 863 | 312 | 33 | 519 | 19 | 82 | 16 | 20 | 2 | 0 | 2 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 61 | 938 | 339 | 36 | 564 | 21 | 89 | 17 | 22 | 2 | 0 | 2 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 558 | 1651 | 593 | 269 | 2252 | 84 | 425 | 181 | 234 | 390 | 0 | 387 |
| Arrive On Green | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.24 | 0.24 | 0.24 | 0.24 | 0.00 | 0.24 |
| Sat Flow, veh/h | 830 | 2561 | 920 | 433 | 3494 | 130 | 1415 | 740 | 958 | 1368 | 0 | 1585 |
| Grp Volume(v), veh/h | 61 | 649 | 628 | 36 | 287 | 298 | 89 | 0 | 39 | 2 | 0 | 2 |
| Grp Sat Flow(s), veh/h/ln | 830 | 1777 | 1705 | 433 | 1777 | 1847 | 1415 | 0 | 1698 | 1368 | 0 | 1585 |
| Q Serve(g_s), s | 3.0 | 18.4 | 18.7 | 4.6 | 6.2 | 6.2 | 4.6 | 0.0 | 1.6 | 0.1 | 0.0 | 0.1 |
| Cycle Q Clear(g_c), s | 9.2 | 18.4 | 18.7 | 23.3 | 6.2 | 6.2 | 4.7 | 0.0 | 1.6 | 1.7 | 0.0 | 0.1 |
| Prop In Lane | 1.00 | | 0.54 | 1.00 | | 0.07 | 1.00 | | 0.56 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 558 | 1145 | 1099 | 269 | 1145 | 1190 | 425 | 0 | 415 | 390 | 0 | 387 |
| V/C Ratio(X) | 0.11 | 0.57 | 0.57 | 0.13 | 0.25 | 0.25 | 0.21 | 0.00 | 0.09 | 0.01 | 0.00 | 0.01 |
| Avail Cap(c_a), veh/h | 558 | 1145 | 1099 | 269 | 1145 | 1190 | 425 | 0 | 415 | 390 | 0 | 387 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 8.7 | 9.0 | 9.0 | 15.6 | 6.8 | 6.8 | 27.5 | 0.0 | 26.3 | 27.0 | 0.0 | 25.7 |
| Incr Delay (d2), s/veh | 0.4 | 2.0 | 2.2 | 1.0 | 0.5 | 0.5 | 1.1 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.6 | 6.5 | 6.4 | 0.5 | 2.1 | 2.2 | 1.6 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | 11.0 | 11.0 | 1// | 7.0 | 7.0 | 00 (| 0.0 | 0/7 | 07.0 | 0.0 | 05.7 |
| LnGrp Delay(d),s/veh | 9.1 | 11.0 | 11.2 | 16.6 | 7.3 | 7.3 | 28.6 | 0.0 | 26.7 | 27.0 | 0.0 | 25.7 |
| LnGrp LOS | A | В | В | В | A (21 | A | С | A 100 | С | С | A | С |
| Approach Vol, veh/h | | 1338 | | | 621 | | | 128 | | | 4 | |
| Approach Delay, s/veh | | 11.0 | | | 7.8 | | | 28.0 | | | 26.4 | |
| Approach LOS | | В | | | А | | | С | | | С | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 63.0 | | 27.0 | | 63.0 | | 27.0 | | | | |
| Change Period (Y+Rc), s | | 5.0 | | 5.0 | | 5.0 | | 5.0 | | | | |
| Max Green Setting (Gmax), s | | 58.0 | | 22.0 | | 58.0 | | 22.0 | | | | |
| Max Q Clear Time (g_c+l1), s | | 20.7 | | 6.7 | | 25.3 | | 3.7 | | | | |
| Green Ext Time (p_c), s | | 12.0 | | 0.3 | | 4.3 | | 0.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 11.1 | | | | | | | | | |
| HCM 6th LOS | | | В | | | | | | | | | |

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|----------------------------|-------------|----------|-----------|-------------|
| Phase Number | 2 | 4 | 6 | 8 |
| Movement | NBTL | EBTL | SBTL | WBTL |
| Lead/Lag | | | | |
| Lead-Lag Optimize | | | | |
| Recall Mode | C-Max | None | C-Max | None |
| Maximum Split (s) | 61 | 29 | 61 | 29 |
| Maximum Split (%) | 67.8% | 32.2% | 67.8% | 32.2% |
| Minimum Split (s) | 22.5 | 22.5 | 22.5 | 22.5 |
| Yellow Time (s) | 3.5 | 3.5 | 3.5 | 3.5 |
| All-Red Time (s) | 1 | 1 | 1 | 1 |
| Minimum Initial (s) | 5 | 5 | 5 | 5 |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 | 0 |
| Walk Time (s) | 7 | 7 | 7 | 7 |
| Flash Dont Walk (s) | 11 | 11 | 11 | 11 |
| Dual Entry | Yes | Yes | Yes | Yes |
| Inhibit Max | Yes | Yes | Yes | Yes |
| Start Time (s) | 0 | 61 | 0 | 61 |
| End Time (s) | 61 | 0 | 61 | 0 |
| Yield/Force Off (s) | 56.5 | 85.5 | 56.5 | 85.5 |
| Yield/Force Off 170(s) | 45.5 | 74.5 | 45.5 | 74.5 |
| Local Start Time (s) | 0 | 61 | 0 | 61 |
| Local Yield (s) | 56.5 | 85.5 | 56.5 | 85.5 |
| Local Yield 170(s) | 45.5 | 74.5 | 45.5 | 74.5 |
| Intersection Summary | | | | |
| Cycle Length | | | 90 | |
| Control Type | Actua | ated-Coo | rdinated | |
| Natural Cycle | | | 60 | |
| Offset: 0 (0%), Referenced | to phase 2: | :NBTL an | id 6:SBTL | ., Start of |
| | | | | |
| Splits and Phases: 12: N | ew Albany- | Condit R | oad & Wa | Ilton Park |
| Ø2 (R) | | | | |
| 1 Ø2 (R) 61 s | | | | |
| h | | | | |
| ▼ Ø6 (R) | | | | |
| 61s | | | | |

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|---------------------------------|------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|-----------|----------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ሻ | ₽ | | ሻ | ₽ | | ሻ | f) | | ሻ | ₽ | |
| Traffic Volume (veh/h) | 8 | 87 | 118 | 19 | 76 | 134 | 151 | 335 | 42 | 122 | 495 | 59 |
| Future Volume (veh/h) | 8 | 87 | 118 | 19 | 76 | 134 | 151 | 335 | 42 | 122 | 495 | 59 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | 1070 | No | 1070 | 1070 | No | 1070 | 1070 | No | 1070 | 1070 | No | 1070 |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 9 | 95 | 128 | 21 | 83 | 146 | 164 | 364 | 46 | 133 | 538 | 64 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % Cap, veh/h | 131 | 2 126 | 2 170 | 2 138 | 106 | 2 187 | 2 563 | 2 1180 | 2 149 | 2 710 | 2 1189 | 2 141 |
| Arrive On Green | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 |
| Sat Flow, veh/h | 1152 | 722 | 973 | 1158 | 608 | 1070 | 817 | 1628 | 206 | 976 | 1640 | 195 |
| Grp Volume(v), veh/h | 9 | 0 | 223 | 21 | 000 | 229 | 164 | 0 | 410 | 133 | 0 | 602 |
| Grp Sat Flow(s), veh/h/ln | 1152 | 0 | 1695 | 1158 | 0 | 1678 | 817 | 0 | 1833 | 976 | 0 | 1835 |
| Q Serve(q_s), s | 0.7 | 0.0 | 11.2 | 1.6 | 0.0 | 11.7 | 9.2 | 0.0 | 7.1 | 5.0 | 0.0 | 12.1 |
| Cycle Q Clear(g_c), s | 12.4 | 0.0 | 11.2 | 12.8 | 0.0 | 11.7 | 21.3 | 0.0 | 7.1 | 12.2 | 0.0 | 12.1 |
| Prop In Lane | 1.00 | 0.0 | 0.57 | 1.00 | 0.0 | 0.64 | 1.00 | 0.0 | 0.11 | 1.00 | 0.0 | 0.11 |
| Lane Grp Cap(c), veh/h | 131 | 0 | 297 | 138 | 0 | 294 | 563 | 0 | 1329 | 710 | 0 | 1331 |
| V/C Ratio(X) | 0.07 | 0.00 | 0.75 | 0.15 | 0.00 | 0.78 | 0.29 | 0.00 | 0.31 | 0.19 | 0.00 | 0.45 |
| Avail Cap(c_a), veh/h | 243 | 0 | 461 | 251 | 0 | 457 | 563 | 0 | 1329 | 710 | 0 | 1331 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 41.4 | 0.0 | 35.3 | 41.4 | 0.0 | 35.5 | 9.4 | 0.0 | 4.4 | 6.5 | 0.0 | 5.1 |
| Incr Delay (d2), s/veh | 0.2 | 0.0 | 3.8 | 0.5 | 0.0 | 4.5 | 1.3 | 0.0 | 0.6 | 0.6 | 0.0 | 1.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.2 | 0.0 | 4.8 | 0.5 | 0.0 | 5.0 | 1.7 | 0.0 | 2.2 | 0.9 | 0.0 | 3.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 41.6 | 0.0 | 39.1 | 41.9 | 0.0 | 40.0 | 10.7 | 0.0 | 5.0 | 7.1 | 0.0 | 6.2 |
| LnGrp LOS | D | А | D | D | А | D | В | А | А | А | А | А |
| Approach Vol, veh/h | | 232 | | | 250 | | | 574 | | | 735 | |
| Approach Delay, s/veh | | 39.2 | | | 40.2 | | | 6.6 | | | 6.3 | |
| Approach LOS | | D | | | D | | | А | | | А | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 69.8 | | 20.2 | | 69.8 | | 20.2 | | | | |
| Change Period (Y+Rc), s | | 4.5 | | 4.5 | | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | | 56.5 | | 24.5 | | 56.5 | | 24.5 | | | | |
| Max Q Clear Time (g_c+l1), s | | 23.3 | | 14.4 | | 14.2 | | 14.8 | | | | |
| Green Ext Time (p_c), s | | 3.9 | | 0.9 | | 4.9 | | 0.9 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 15.4 | | | | | | | | | |
| HCM 6th LOS | | | В | | | | | | | | | |

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|---------------------------------|-------|----------|------------|------|-------------|------------|------|------|------|--|
| Movement | EBL | EBT | WBT | WBR | SBL | SBR | | | | |
| Lane Configurations | 16.64 | ^ | ∱ ∱ | | 7 | 77 | | | | |
| Traffic Volume (veh/h) | 37 | 314 | 374 | 37 | 6 | 6 | | | | |
| Future Volume (Veh/h) | 37 | 314 | 374 | 37 | 6 | 6 | | | | |
| Sign Control | | Free | Free | | Stop | | | | | |
| Grade | | 0% | 0% | | 0% | | | | | |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | | | | |
| Hourly flow rate (vph) | 40 | 341 | 407 | 40 | 7 | 7 | | | | |
| Pedestrians | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | |
| Median type | | None | None | | | | | | | |
| Median storage veh) | | | | | | | | | | |
| Upstream signal (ft) | | 791 | 679 | | | | | | | |
| pX, platoon unblocked | 0.98 | | | | 0.98 | 0.98 | | | | |
| vC, conflicting volume | 447 | | | | 678 | 224 | | | | |
| vC1, stage 1 conf vol | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | |
| vCu, unblocked vol | 403 | | | | 637 | 176 | | | | |
| tC, single (s) | 4.1 | | | | 6.8 | 6.9 | | | | |
| tC, 2 stage (s) | | | | | | | | | | |
| tF (s) | 2.2 | | | | 3.5 | 3.3 | | | | |
| p0 queue free % | 96 | | | | 98 | 99 | | | | |
| cM capacity (veh/h) | 1133 | | | | 388 | 823 | | | | |
| Direction, Lane # | EB 1 | EB 2 | EB3 | EB 4 | WB 1 | WB 2 | SB1 | SB 2 | SB3 | |
| Volume Total | 20 | 20 | 170 | 170 | 271 | 176 | 7 | 4 | 4 | |
| Volume Left | 20 | 20 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | |
| Volume Right | 0 | 0 | 0 | 0 | 0 | 40 | 0 | 4 | 4 | |
| cSH | 1133 | 1133 | 1700 | 1700 | 1700 | 1700 | 388 | 823 | 823 | |
| Volume to Capacity | 0.04 | 0.04 | 0.10 | 0.10 | 0.16 | 0.10 | 0.02 | 0.00 | 0.00 | |
| Queue Length 95th (ft) | 3 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | |
| Control Delay (s) | 8.3 | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 14.4 | 9.4 | 9.4 | |
| Lane LOS | А | А | | | | | В | А | А | |
| Approach Delay (s) | 0.9 | | | | 0.0 | | 11.9 | | | |
| Approach LOS | | | | | | | В | | | |
| Intersection Summary | | | | | | | | | | |
| Average Delay | | | 0.6 | | | | | | | |
| Intersection Capacity Utilizati | ion | | 25.8% | IC | CU Level of | of Service | | | А | |
| Analysis Period (min) | | | 15 | | | | | | | |

| Intersection | | | | | | |
|--------------------------|--------|------|----------|--------|--------|----------|
| Int Delay, s/veh | 0.5 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | WDL | NON | | NDK | JDL | |
| | | 11 | } | 7 | 2 | 4 |
| Traffic Vol, veh/h | 19 | 11 | 488 | 7 | 3 | 589 |
| Future Vol, veh/h | 19 | 11 | 488 | 7 | 3 | 589 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | e, # 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 21 | 12 | 530 | 8 | 3 | 640 |
| IVIVIII I IOVV | 21 | 12 | 000 | U | 9 | 010 |
| | | | | | | |
| | Minor1 | 1 | Major1 | 1 | Major2 | |
| Conflicting Flow All | 1180 | 534 | 0 | 0 | 538 | 0 |
| Stage 1 | 534 | - | - | - | - | - |
| Stage 2 | 646 | - | - | _ | - | - |
| Critical Hdwy | 6.42 | 6.22 | _ | _ | 4.12 | _ |
| Critical Hdwy Stg 1 | 5.42 | 0.22 | _ | _ | 1.12 | _ |
| Critical Hdwy Stg 2 | 5.42 | - | _ | | - | |
| | | | - | | 2.218 | |
| Follow-up Hdwy | 3.518 | | - | - | | - |
| Pot Cap-1 Maneuver | 210 | 546 | - | - | 1030 | - |
| Stage 1 | 588 | - | - | - | - | - |
| Stage 2 | 522 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 209 | 546 | - | - | 1030 | - |
| Mov Cap-2 Maneuver | 209 | - | - | - | - | - |
| Stage 1 | 588 | - | - | - | - | - |
| Stage 2 | 519 | _ | | _ | - | _ |
| Jiago Z | 517 | | | | | |
| | | | | | | |
| Approach | WB | | NB | | SB | |
| HCM Control Delay, s | 20.2 | | 0 | | 0 | |
| HCM LOS | С | | | | | |
| | | | | | | |
| | | NET | NES | N/DL 4 | 021 | 057 |
| Minor Lane/Major Mvr | nt | NBT | NBRV | VBLn1 | SBL | SBT |
| Capacity (veh/h) | | - | - | 270 | 1030 | - |
| HCM Lane V/C Ratio | | - | - | 0.121 | 0.003 | - |
| HCM Control Delay (s |) | - | - | 20.2 | 8.5 | 0 |
| HCM Lane LOS | | - | - | С | А | A |
| HCM 95th %tile Q(veh | 1) | _ | - | 0.4 | 0 | - |
| 113111 70til 70til Q(VCI | 7 | | | 0.1 | 0 | |

| | \$ | \$⊳ | * | \checkmark | - | <₫ | • | 4 | |
|---------------------------|------------|-----------|----------|--------------|----------|-------|-------|-------|-----|
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Movement | NBL | SBTL | EBL | WBTL | SBL | NBTL | WBL | EBTL | |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag | |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Recall Mode | None | Max | None | None | None | Max | None | None | |
| Maximum Split (s) | 15 | 36.4 | 15 | 23.6 | 15 | 36.4 | 15 | 23.6 | |
| Maximum Split (%) | 16.7% | 40.4% | 16.7% | 26.2% | 16.7% | 40.4% | 16.7% | 26.2% | |
| Minimum Split (s) | 15 | 26.7 | 15 | 23.6 | 15 | 26.4 | 15 | 23 | |
| Yellow Time (s) | 3 | 4.7 | 3 | 3.6 | 3 | 4.4 | 3 | 3.6 | |
| All-Red Time (s) | 1.8 | 1 | 1.4 | 1 | 1.8 | 1 | 1.4 | 1 | |
| Minimum Initial (s) | 10 | 20 | 10 | 15 | 10 | 20 | 10 | 15 | |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Walk Time (s) | | | | 7 | | 7 | | | |
| Flash Dont Walk (s) | | | | 11 | | 11 | | | |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes | |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Start Time (s) | 0 | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | |
| End Time (s) | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | 0 | |
| Yield/Force Off (s) | 10.2 | 45.7 | 62 | 85.4 | 10.2 | 46 | 62 | 85.4 | |
| Yield/Force Off 170(s) | 10.2 | 45.7 | 62 | 74.4 | 10.2 | 35 | 62 | 85.4 | |
| Local Start Time (s) | 75 | 0 | 36.4 | 51.4 | 75 | 0 | 36.4 | 51.4 | |
| Local Yield (s) | 85.2 | 30.7 | 47 | 70.4 | 85.2 | 31 | 47 | 70.4 | |
| Local Yield 170(s) | 85.2 | 30.7 | 47 | 59.4 | 85.2 | 20 | 47 | 70.4 | |
| ntersection Summary | | | | | | | | | |
| Cycle Length | | | 90 | | | | | | |
| Control Type | Actuate | ed-Uncoo | | | | | | | |
| Natural Cycle | | | 85 | | | | | | |
| Splits and Phases: 3: New | w Albany-C | Condit Ro | ad & Cen | tral Colle | ge Road | | | | |
| <u> </u> | lle. | | | | <u> </u> | 1/2 | | | 4 |
| \$ ø₁ \$ | Ø2 | | | | | | Ø3 | | - 1 |
| 15 s 36.4 | łs. | | | | | 15 s | | | 23 |

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|------------------------------|-------|----------|-------|------|----------|-------|-------|----------|----------|----------|-----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | ^ | 7 | ሻ | ħβ | | Ť | 4Î | | 7 | † | 7 |
| Traffic Volume (veh/h) | 49 | 152 | 123 | 93 | 278 | 111 | 132 | 372 | 47 | 73 | 317 | 44 |
| Future Volume (veh/h) | 49 | 152 | 123 | 93 | 278 | 111 | 132 | 372 | 47 | 73 | 317 | 44 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 53 | 165 | 134 | 101 | 302 | 121 | 143 | 404 | 51 | 79 | 345 | 48 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 323 | 334 | 466 | 385 | 504 | 198 | 511 | 620 | 78 | 429 | 684 | 714 |
| Arrive On Green | 0.08 | 0.18 | 0.18 | 0.11 | 0.20 | 0.20 | 0.11 | 0.38 | 0.38 | 0.10 | 0.37 | 0.37 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1781 | 2494 | 978 | 1781 | 1628 | 205 | 1781 | 1870 | 1585 |
| Grp Volume(v), veh/h | 53 | 165 | 134 | 101 | 213 | 210 | 143 | 0 | 455 | 79 | 345 | 48 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1870 | 1585 | 1781 | 1777 | 1694 | 1781 | 0 | 1833 | 1781 | 1870 | 1585 |
| Q Serve(g_s), s | 1.9 | 6.7 | 5.5 | 3.6 | 9.1 | 9.5 | 3.8 | 0.0 | 17.2 | 2.1 | 12.0 | 1.4 |
| Cycle Q Clear(g_c), s | 1.9 | 6.7 | 5.5 | 3.6 | 9.1 | 9.5 | 3.8 | 0.0 | 17.2 | 2.1 | 12.0 | 1.4 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.58 | 1.00 | | 0.11 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 323 | 334 | 466 | 385 | 359 | 342 | 511 | 0 | 698 | 429 | 684 | 714 |
| V/C Ratio(X) | 0.16 | 0.49 | 0.29 | 0.26 | 0.59 | 0.61 | 0.28 | 0.00 | 0.65 | 0.18 | 0.50 | 0.07 |
| Avail Cap(c_a), veh/h | 397 | 424 | 541 | 418 | 402 | 384 | 523 | 0 | 698 | 467 | 684 | 714 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 23.8 | 31.0 | 22.9 | 22.9 | 30.3 | 30.5 | 13.3 | 0.0 | 21.4 | 14.2 | 20.7 | 13.1 |
| Incr Delay (d2), s/veh | 0.2 | 1.1 | 0.3 | 0.4 | 1.9 | 2.4 | 0.3 | 0.0 | 4.7 | 0.2 | 2.6 | 0.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.8 | 3.0 | 2.0 | 1.4 | 3.8 | 3.8 | 1.4 | 0.0 | 7.5 | 0.7 | 5.1 | 0.5 |
| Unsig. Movement Delay, s/veh | | 0.0 | 2.0 | | 0.0 | 0.0 | | 0.0 | 7,10 | 0., | 011 | 0.0 |
| LnGrp Delay(d),s/veh | 24.1 | 32.2 | 23.2 | 23.3 | 32.3 | 32.8 | 13.6 | 0.0 | 26.1 | 14.4 | 23.3 | 13.2 |
| LnGrp LOS | С | C | C | C | C | C | В | A | C | В | C | В |
| Approach Vol, veh/h | | 352 | | | 524 | | | 598 | | | 472 | |
| Approach Delay, s/veh | | 27.5 | | | 30.8 | | | 23.1 | | | 20.8 | |
| Approach LOS | | C C | | | C | | | C C | | | 20.0 C | |
| • | | | | | | | | | | | C | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 14.4 | 36.4 | 11.5 | 21.6 | 13.2 | 37.6 | 13.4 | 19.6 | | | | |
| Change Period (Y+Rc), s | * 4.8 | 5.7 | * 4.4 | 4.6 | * 4.8 | * 5.7 | * 4.4 | 4.6 | | | | |
| Max Green Setting (Gmax), s | * 10 | 30.7 | * 11 | 19.0 | * 10 | * 31 | * 11 | 19.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 5.8 | 14.0 | 3.9 | 11.5 | 4.1 | 19.2 | 5.6 | 8.7 | | | | |
| Green Ext Time (p_c), s | 0.1 | 1.7 | 0.0 | 1.3 | 0.1 | 2.0 | 0.1 | 0.9 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 25.4 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |
| Notes | | | | | | | | | | | | |

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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|-----------------------------|-------------|-----------|-----------|-----------|----------|-------|-------|----------|---------|
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Movement | SBL | NBTL | WBL | EBTL | NBL | SBTL | EBL | WBT | |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag | |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Recall Mode | None | C-Max | None | None | None | C-Max | None | None | |
| Maximum Split (s) | 12 | 39 | 16 | 23 | 12 | 39 | 12 | 27 | |
| Maximum Split (%) | 13.3% | 43.3% | 17.8% | 25.6% | 13.3% | 43.3% | 13.3% | 30.0% | |
| Minimum Split (s) | 12 | 23 | 12 | 23 | 12 | 23 | 12 | 23 | |
| Yellow Time (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| All-Red Time (s) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Minimum Initial (s) | 7 | 10 | 7 | 10 | 7 | 10 | 7 | 10 | |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Walk Time (s) | | 7 | | 7 | | 7 | | 7 | |
| Flash Dont Walk (s) | | 11 | | 11 | | 11 | | 11 | |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes | |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Start Time (s) | 0 | 12 | 51 | 67 | 0 | 12 | 51 | 63 | |
| End Time (s) | 12 | 51 | 67 | 0 | 12 | 51 | 63 | 0 | |
| Yield/Force Off (s) | 7 | 46 | 62 | 85 | 7 | 46 | 58 | 85 | |
| Yield/Force Off 170(s) | 7 | 35 | 62 | 74 | 7 | 35 | 58 | 74 | |
| Local Start Time (s) | 78 | 0 | 39 | 55 | 78 | 0 | 39 | 51 | |
| Local Yield (s) | 85 | 34 | 50 | 73 | 85 | 34 | 46 | 73 | |
| Local Yield 170(s) | 85 | 23 | 50 | 62 | 85 | 23 | 46 | 62 | |
| Intersection Summary | | | | | | | | | |
| Cycle Length | | | 90 | | | | | | |
| Control Type | Actu | ated-Coor | | | | | | | |
| Natural Cycle | | | 70 | | | | | | |
| Offset: 12 (13%), Reference | d to phase | 2:NBTL | and 6:SB | TL, Start | of Green | | | | |
| Splits and Phases: 6: Nev | v Albany R | Road E & | Central C | ollege Ro | oad | | | | |
| Ø1 Ø2 | | | | <u> </u> | | 40 | M3 | | <u></u> |

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|------------------------------|------|------------|------|------|------------|------|------|----------|------|----------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | ∱ β | | ሻሻ | ∱ ⊅ | | 7 | ^ | 7 | ሻ | ^↑ | 7 |
| Traffic Volume (veh/h) | 109 | 221 | 14 | 203 | 179 | 59 | 35 | 711 | 159 | 48 | 530 | 48 |
| Future Volume (veh/h) | 109 | 221 | 14 | 203 | 179 | 59 | 35 | 711 | 159 | 48 | 530 | 48 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 118 | 240 | 15 | 221 | 195 | 64 | 38 | 773 | 173 | 52 | 576 | 52 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 271 | 378 | 23 | 300 | 324 | 103 | 517 | 1860 | 967 | 412 | 1891 | 964 |
| Arrive On Green | 0.08 | 0.11 | 0.11 | 0.09 | 0.12 | 0.12 | 0.05 | 0.52 | 0.52 | 0.06 | 0.53 | 0.53 |
| Sat Flow, veh/h | 1781 | 3398 | 211 | 3456 | 2651 | 844 | 1781 | 3554 | 1585 | 1781 | 3554 | 1585 |
| Grp Volume(v), veh/h | 118 | 125 | 130 | 221 | 129 | 130 | 38 | 773 | 173 | 52 | 576 | 52 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1777 | 1832 | 1728 | 1777 | 1718 | 1781 | 1777 | 1585 | 1781 | 1777 | 1585 |
| Q Serve(g_s), s | 5.2 | 6.0 | 6.1 | 5.6 | 6.2 | 6.5 | 8.0 | 11.9 | 4.3 | 1.1 | 8.1 | 1.2 |
| Cycle Q Clear(g_c), s | 5.2 | 6.0 | 6.1 | 5.6 | 6.2 | 6.5 | 0.8 | 11.9 | 4.3 | 1.1 | 8.1 | 1.2 |
| Prop In Lane | 1.00 | | 0.12 | 1.00 | | 0.49 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 271 | 197 | 204 | 300 | 217 | 210 | 517 | 1860 | 967 | 412 | 1891 | 964 |
| V/C Ratio(X) | 0.44 | 0.63 | 0.64 | 0.74 | 0.59 | 0.62 | 0.07 | 0.42 | 0.18 | 0.13 | 0.30 | 0.05 |
| Avail Cap(c_a), veh/h | 275 | 355 | 366 | 422 | 434 | 420 | 571 | 1860 | 967 | 450 | 1891 | 964 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 32.1 | 38.2 | 38.3 | 40.1 | 37.4 | 37.5 | 8.8 | 13.1 | 7.7 | 9.0 | 11.8 | 7.2 |
| Incr Delay (d2), s/veh | 1.1 | 3.3 | 3.3 | 4.1 | 2.6 | 3.0 | 0.1 | 0.7 | 0.4 | 0.1 | 0.4 | 0.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.3 | 2.7 | 2.9 | 2.5 | 2.8 | 2.8 | 0.3 | 4.5 | 1.4 | 0.4 | 3.1 | 0.4 |
| Unsig. Movement Delay, s/veh | | 41 / | 41 / | 440 | 40.0 | 40 F | 0.0 | 100 | 0.1 | 0.0 | 10.0 | 7.0 |
| LnGrp Delay(d),s/veh | 33.2 | 41.6 | 41.6 | 44.2 | 40.0 | 40.5 | 8.8 | 13.8 | 8.1 | 9.2 | 12.2 | 7.3 |
| LnGrp LOS | С | D | D | D | D 100 | D | A | В | А | А | B (00 | A |
| Approach Vol, veh/h | | 373 | | | 480 | | | 984 | | | 680 | |
| Approach LOS | | 38.9 | | | 42.1 | | | 12.6 | | | 11.6 | |
| Approach LOS | | D | | | D | | | В | | | В | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 10.1 | 52.1 | 12.8 | 15.0 | 9.3 | 52.9 | 11.8 | 16.0 | | | | |
| Change Period (Y+Rc), s | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | | | | |
| Max Green Setting (Gmax), s | 7.0 | 34.0 | 11.0 | 18.0 | 7.0 | 34.0 | 7.0 | 22.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 3.1 | 13.9 | 7.6 | 8.1 | 2.8 | 10.1 | 7.2 | 8.5 | | | | |
| Green Ext Time (p_c), s | 0.0 | 5.8 | 0.2 | 0.9 | 0.0 | 4.1 | 0.0 | 1.1 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 21.8 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |

Timing Report, Sorted By Phase 8: Walton Parkway/EMH&T Driveway & New Albany Road E

| | 4 | - ≪† | * | 1 |
|----------------------------|------------|-----------|------------|----------|
| Phase Number | 2 | 4 | 6 | 8 |
| Movement | EBTL | NBTL | WBTL | SBTL |
| Lead/Lag | | | | |
| Lead-Lag Optimize | | | | |
| Recall Mode | C-Max | Max | Max | Max |
| Maximum Split (s) | 63 | 27 | 63 | 27 |
| Maximum Split (%) | 70.0% | 30.0% | 70.0% | 30.0% |
| Minimum Split (s) | 23 | 23 | 23 | 23 |
| Yellow Time (s) | 3 | 3 | 3 | 3 |
| All-Red Time (s) | 2 | 2 | 2 | 2 |
| Minimum Initial (s) | 10 | 10 | 10 | 10 |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 | 0 |
| Walk Time (s) | 7 | 7 | 7 | 7 |
| Flash Dont Walk (s) | 11 | 11 | 11 | 11 |
| Dual Entry | Yes | Yes | Yes | Yes |
| Inhibit Max | Yes | Yes | Yes | Yes |
| Start Time (s) | 0 | 63 | 0 | 63 |
| End Time (s) | 63 | 0 | 63 | 0 |
| Yield/Force Off (s) | 58 | 85 | 58 | 85 |
| Yield/Force Off 170(s) | 47 | 74 | 47 | 74 |
| Local Start Time (s) | 0 | 63 | 0 | 63 |
| Local Yield (s) | 58 | 85 | 58 | 85 |
| Local Yield 170(s) | 47 | 74 | 47 | 74 |
| | 17 | , , | 17 | , , |
| Intersection Summary | | | | |
| Cycle Length | | | 90 | |
| Control Type | Actu | ated-Coo | | |
| Natural Cycle | | | 60 | |
| Offset: 0 (0%), Referenced | to phase 2 | :EBTL, St | art of Gre | een |
| | | | | |
| Splits and Phases: 8: Wa | Iton Parkw | ay/EMH& | T Drivew | ay & New |
| A (2) (2) | | | | |
| Ø2 (R) | | | | |
| 4 | | | | |
| ₩ Ø6 | | | | |
| 63 s | | | | |

Synchro 11 Report OY AM Build

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|------------------------------------|-------------|--------------|--------------|-------------|--------------|--------------|-------------|----------|-------------|-------------|--------------|-------------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ሻ | ∱ ⊅ | | ሻ | ∱ β | | ሻ | ₽ | | ሻ | ₽ | |
| Traffic Volume (veh/h) | 56 | 892 | 312 | 33 | 552 | 19 | 90 | 16 | 20 | 2 | 0 | 2 |
| Future Volume (veh/h) | 56 | 892 | 312 | 33 | 552 | 19 | 90 | 16 | 20 | 2 | 0 | 2 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 61 | 970 | 339 | 36 | 600 | 21 | 98 | 17 | 22 | 2 | 0 | 2 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 538 | 1668 | 579 | 260 | 2257 | 79 | 425 | 181 | 234 | 390 | 0 | 387 |
| Arrive On Green | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.24 | 0.24 | 0.24 | 0.24 | 0.00 | 0.24 |
| Sat Flow, veh/h | 803 | 2588 | 898 | 420 | 3503 | 122 | 1415 | 740 | 958 | 1368 | 0 | 1585 |
| Grp Volume(v), veh/h | 61 | 664 | 645 | 36 | 304 | 317 | 98 | 0 | 39 | 2 | 0 | 2 |
| Grp Sat Flow(s), veh/h/ln | 803 | 1777 | 1709 | 420 | 1777 | 1848 | 1415 | 0 | 1698 | 1368 | 0 | 1585 |
| Q Serve(g_s), s | 3.2 | 19.1 | 19.4 | 4.8 | 6.6 | 6.6 | 5.1 | 0.0 | 1.6 | 0.1 | 0.0 | 0.1 |
| Cycle Q Clear(g_c), s | 9.8 | 19.1 | 19.4 | 24.2 | 6.6 | 6.6 | 5.2 | 0.0 | 1.6 | 1.7 | 0.0 | 0.1 |
| Prop In Lane | 1.00 | 1115 | 0.53 | 1.00 | 1115 | 0.07 | 1.00 | 0 | 0.56 | 1.00 | 0 | 1.00 |
| Lane Grp Cap(c), veh/h | 538 0.11 | 1145 0.58 | 1101 0.59 | 260 0.14 | 1145 0.27 | 1191 0.27 | 425 0.23 | 0.00 | 415 0.09 | 390 0.01 | 0.00 | 387 0.01 |
| V/C Ratio(X) Avail Cap(c_a), veh/h | 538 | 1145 | 1101 | 260 | 1145 | 1191 | 425 | 0.00 | 415 | 390 | 0.00 | 387 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 9.0 | 9.1 | 9.1 | 16.1 | 6.9 | 6.9 | 27.7 | 0.00 | 26.3 | 27.0 | 0.00 | 25.7 |
| Incr Delay (d2), s/veh | 0.4 | 2.1 | 2.3 | 1.1 | 0.6 | 0.5 | 1.3 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.6 | 6.8 | 6.7 | 0.5 | 2.3 | 2.4 | 1.8 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | 0.0 | 0.7 | 0.0 | 2.0 | 2.1 | 1.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 |
| LnGrp Delay(d),s/veh | 9.4 | 11.2 | 11.4 | 17.2 | 7.4 | 7.4 | 28.9 | 0.0 | 26.7 | 27.0 | 0.0 | 25.7 |
| LnGrp LOS | А | В | В | В | А | А | С | А | С | С | А | С |
| Approach Vol, veh/h | | 1370 | | | 657 | | | 137 | | | 4 | |
| Approach Delay, s/veh | | 11.2 | | | 8.0 | | | 28.3 | | | 26.4 | |
| Approach LOS | | В | | | А | | | С | | | С | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 63.0 | | 27.0 | | 63.0 | | 27.0 | | | | |
| Change Period (Y+Rc), s | | 5.0 | | 5.0 | | 5.0 | | 5.0 | | | | |
| Max Green Setting (Gmax), s | | 58.0 | | 22.0 | | 58.0 | | 22.0 | | | | |
| Max Q Clear Time (g_c+11), s | | 21.4 | | 7.2 | | 26.2 | | 3.7 | | | | |
| Green Ext Time (p_c), s | | 12.4 | | 0.3 | | 4.6 | | 0.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 11.4 | | | | | | | | | |
| HCM 6th LOS | | | В | | | | | | | | | |

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|----------------------------|-------------|----------|----------|------------|
| Phase Number | 2 | 4 | 6 | 8 |
| Movement | NBTL | EBTL | SBTL | WBTL |
| Lead/Lag | | | | |
| Lead-Lag Optimize | | | | |
| Recall Mode | C-Max | None | C-Max | None |
| Maximum Split (s) | 63 | 27 | 63 | 27 |
| Maximum Split (%) | 70.0% | 30.0% | 70.0% | 30.0% |
| Minimum Split (s) | 22.5 | 22.5 | 22.5 | 22.5 |
| Yellow Time (s) | 3.5 | 3.5 | 3.5 | 3.5 |
| All-Red Time (s) | 1 | 1 | 1 | 1 |
| Minimum Initial (s) | 5 | 5 | 5 | 5 |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 | 0 |
| Walk Time (s) | 7 | 7 | 7 | 7 |
| Flash Dont Walk (s) | 11 | 11 | 11 | 11 |
| Dual Entry | Yes | Yes | Yes | Yes |
| Inhibit Max | Yes | Yes | Yes | Yes |
| Start Time (s) | 0 | 63 | 0 | 63 |
| End Time (s) | 63 | 0 | 63 | 0 |
| Yield/Force Off (s) | 58.5 | 85.5 | 58.5 | 85.5 |
| Yield/Force Off 170(s) | 47.5 | 74.5 | 47.5 | 74.5 |
| Local Start Time (s) | 0 | 63 | 0 | 63 |
| Local Yield (s) | 58.5 | 85.5 | 58.5 | 85.5 |
| Local Yield 170(s) | 47.5 | 74.5 | 47.5 | 74.5 |
| Intersection Summary | | | | |
| Cycle Length | | | 90 | |
| Control Type | Actua | ated-Coo | rdinated | |
| Natural Cycle | | | 60 | |
| Offset: 0 (0%), Referenced | to phase 2: | :NBTL an | d 6:SBTL | , Start of |
| | | | | |
| Splits and Phases: 12: N | ew Albany- | Condit R | oad & Wa | Iton Park |
| Ø2 (R) | | | | |
| 63 s | | | | |
| 1 | | | | |
| √ Ø6 (R) | | | | |
| 63 s | | | | |

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|--|------|----------|-------------|------|----------|-------------|-------------|----------|------|-------------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 1> | | ሻ | ₽ | | ሻ | ₽ | | ሻ | ₽ | |
| Traffic Volume (veh/h) | 8 | 87 | 118 | 19 | 76 | 144 | 151 | 369 | 42 | 136 | 543 | 67 |
| Future Volume (veh/h) | 8 | 87 | 118 | 19 | 76 | 144 | 151 | 369 | 42 | 136 | 543 | 67 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 9 | 95 | 128 | 21 | 83 | 157 | 164 | 401 | 46 | 148 | 590 | 73 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 123 | 127 | 171 | 139 | 102 | 192 | 519 | 1193 | 137 | 679 | 1182 | 146 |
| Arrive On Green | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 |
| Sat Flow, veh/h | 1140 | 722 | 973 | 1158 | 579 | 1095 | 772 | 1647 | 189 | 943 | 1632 | 202 |
| Grp Volume(v), veh/h | 9 | 0 | 223 | 21 | 0 | 240 | 164 | 0 | 447 | 148 | 0 | 663 |
| Grp Sat Flow(s), veh/h/ln | 1140 | 0 | 1695 | 1158 | 0 | 1673 | 772 | 0 | 1836 | 943 | 0 | 1834 |
| Q Serve(g_s), s | 0.7 | 0.0 | 11.2 | 1.6 | 0.0 | 12.4 | 10.5 | 0.0 | 8.0 | 6.1 | 0.0 | 14.1 |
| Cycle Q Clear(g_c), s | 13.1 | 0.0 | 11.2 | 12.8 | 0.0 | 12.4 | 24.5 | 0.0 | 8.0 | 14.1 | 0.0 | 14.1 |
| Prop In Lane | 1.00 | 0 | 0.57 298 | 1.00 | 0 | 0.65 294 | 1.00 519 | 0 | 0.10 | 1.00 679 | 0 | 0.11 |
| Lane Grp Cap(c), veh/h V/C Ratio(X) | 0.07 | 0.00 | 0.75 | 0.15 | 0.00 | 0.82 | 0.32 | 0.00 | 0.34 | 0.22 | 0.00 | 0.50 |
| Avail Cap(c_a), veh/h | 208 | 0.00 | 424 | 225 | 0.00 | 418 | 519 | 0.00 | 1330 | 679 | 0.00 | 1328 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 42.0 | 0.00 | 35.2 | 41.3 | 0.00 | 35.7 | 10.7 | 0.0 | 4.5 | 7.1 | 0.0 | 5.4 |
| Incr Delay (d2), s/veh | 0.2 | 0.0 | 4.4 | 0.5 | 0.0 | 8.2 | 1.6 | 0.0 | 0.7 | 0.7 | 0.0 | 1.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.2 | 0.0 | 4.9 | 0.5 | 0.0 | 5.6 | 1.8 | 0.0 | 2.5 | 1.1 | 0.0 | 4.0 |
| Unsig. Movement Delay, s/veh | | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 2.0 | | 0.0 | 1.0 |
| LnGrp Delay(d),s/veh | 42.2 | 0.0 | 39.7 | 41.8 | 0.0 | 43.9 | 12.3 | 0.0 | 5.2 | 7.8 | 0.0 | 6.7 |
| LnGrp LOS | D | А | D | D | А | D | В | А | А | A | А | Α |
| Approach Vol, veh/h | | 232 | | | 261 | | | 611 | | | 811 | |
| Approach Delay, s/veh | | 39.8 | | | 43.7 | | | 7.1 | | | 6.9 | |
| Approach LOS | | D | | | D | | | А | | | А | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 69.7 | | 20.3 | | 69.7 | | 20.3 | | | | |
| Change Period (Y+Rc), s | | 4.5 | | 4.5 | | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | | 58.5 | | 22.5 | | 58.5 | | 22.5 | | | | |
| Max Q Clear Time (g_c+11), s | | 26.5 | | 15.1 | | 16.1 | | 14.8 | | | | |
| Green Ext Time (p_c), s | | 4.3 | | 0.7 | | 5.7 | | 0.8 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 16.0 | | | | | | | | | |
| HCM 6th LOS | | | В | | | | | | | | | |
| | | | | | | | | | | | | |

| Movement | | • | • | † | <i>></i> | / | | | |
|--|---------------------------------------|-------|------|----------|-------------|-----------|--------------|------|--|
| Traffic Volume (veh/h) | Movement | WBL | WBR | NBT | NBR | SBL | SBT | | |
| Traffic Volume (veh/h) | Lane Configurations | | 7 | 4111 | | | ^ | | |
| Sign Control Stop Grade Free Own | Traffic Volume (veh/h) | 0 | 10 | 890 | 29 | 0 | | | |
| Grade 0% 0% 0% Peak Hour Factor 0.92 | Future Volume (Veh/h) | 0 | 10 | 890 | 29 | 0 | 676 | | |
| Peak Hour Factor 0.92 0. | Sign Control | Stop | | Free | | | Free | | |
| Hourly flow rate (vph) | Grade | 0% | | 0% | | | 0% | | |
| Pedestrians Lane Width (ft) Walking Speed (ft/s) Percent Blockage Right turn flare (veh) Median type | Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | | |
| Lane Width (ft) Walking Speed (ft/s) Percent Blockage Right turn flare (veh) Median type Median storage veh) Upstream signal (ft) pX, platoon unblocked vC2, conflicting volume vC2, stage 2 conf vol vC2, stage 2 conf vol vC4, unblocked vol tC5, single (s) tC7, single (s) tC8, single (s) tC9, stage (s) tF (| Hourly flow rate (vph) | 0 | 11 | 967 | 32 | 0 | 735 | | |
| Walking Speed (ft/s) Percent Blockage Right turn flare (veh) Median type None None Median storage veh) Upstream signal (ft) 270 pX, platoon unblocked 0.91 vC, conflicting volume 1350 258 999 vC1, stage 1 conf vol vCu, unblocked vol 1182 258 999 vCu, unblocked vol 1182 258 999 tC, single (s) 6.8 6.9 4.1 vC, 2 stage (s) tF (s) 3.5 3.3 2.2 pO queue free % 100 99 100 volume color co | Pedestrians | | | | | | | | |
| Percent Blockage Right turn flare (veh) Median type | | | | | | | | | |
| Right turn flare (veh) Median type Median storage veh) Upstream signal (ft) pX, platoon unblocked vC, conflicting volume vC1, stage 1 conf vol vC2, stage 2 conf vol vC2, stage 2 conf vol vC3, stage 1 conf vol vC4, unblocked vol 1182 258 999 tC, single (s) tF (s) 3.5 3.3 2.2 p0 queue free % 100 99 100 cM capacity (veh/h) 166 741 889 Direction, Lane # WB 1 NB 1 NB 2 NB 3 NB 4 SB 1 SB 2 Volume Total 11 276 276 276 276 170 368 368 Volume Left 0 0 0 0 0 0 0 0 0 0 0 0 0 | Walking Speed (ft/s) | | | | | | | | |
| Median type None None Median storage veh) Upstream signal (ft) 270 pX, platoon unblocked 0.91 VC, conflicting volume 1350 258 999 vC1, stage 1 conf vol vC2, stage 2 conf vol VC2, stage 2 conf vol VC2, stage 2 conf vol VC2, stage (s) 4.1 IC, single (s) 6.8 6.9 4.1 IC, 2 stage (s) IF (s) 3.5 3.3 2.2 DO queue free % 100 99 100 CM CM CAD AND AND AND AND AND AND AND AND AND A | Percent Blockage | | | | | | | | |
| Median storage veh) 270 pX, platoon unblocked vC, conflicting volume 0.91 270 vC, conflicting volume 1350 258 999 vC1, stage 1 conf vol vCQ, stage 2 conf vol vCQ, unblocked vol 1182 258 999 tC, single (s) 6.8 6.9 4.1 100 | Right turn flare (veh) | | | | | | | | |
| Upstream signal (ft) | | | | None | | | None | | |
| pX, platoon unblocked vC, conflicting volume 1350 258 999 vC1, stage 1 conf vol vC2, stage 2 conf vol vC2, stage 2 conf vol vCu, unblocked vol tC, single (s) 1182 258 999 tC, single (s) 6.8 6.9 4.1 tC, 2 stage (s) tF (s) 3.5 3.3 2.2 p0 queue free % 100 99 100 cM capacity (veh/h) 166 741 689 Direction, Lane # WB 1 NB 1 NB 2 NB 3 NB 4 SB 1 SB 2 Volume Total 11 276 276 276 170 368 368 Volume Left 0 0 0 0 0 0 0 Volume Right 11 0 0 0 0 0 0 Volume to Capacity 0.01 0.16 0.16 0.16 0.10 0.22 0.22 Queue Length 95th (ft) 1 0 0 0 0 0 0 Control Delay (s) 9.9 0.0 0 0.0 0.0 0 0 Approach LOS A | Median storage veh) | | | | | | | | |
| vC, conflicting volume 1350 258 999 vC1, stage 1 conf vol vC2, stage 2 conf vol vCu, unblocked vol 1182 258 999 tC, single (s) 6.8 6.9 4.1 tC, stage (s) tF (s) 3.5 3.3 2.2 po queue free % 100 99 100 cd | Upstream signal (ft) | | | | | | 270 | | |
| VC1, stage 1 conf vol VC2, stage 2 conf vol VCu, unblocked vol 1182 258 999 tC, single (s) 6.8 6.9 4.1 tC, 2 stage (s) tF (s) 3.5 3.3 2.2 p0 queue free % 100 99 100 cM capacity (veh/h) 166 741 689 Direction, Lane # WB 1 NB 1 NB 2 NB 3 NB 4 SB 1 SB 2 Volume Total 11 276 276 170 368 368 Volume Left 0 0 0 0 0 0 0 Volume Right 11 0 0 0 0 0 0 Volume to Capacity 0.01 0.16 0.16 0.10 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 0 0 0 0 0 0 0 0 0 0 0 0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | | | | | | | |
| vC2, stage 2 conf vol vCu, unblocked vol 1182 258 999 tC, single (s) 6.8 6.9 4.1 tC, 2 stage (s) tF (s) 3.5 3.3 2.2 p0 queue free % 100 99 100 cM capacity (veh/h) 166 741 689 Direction, Lane # WB 1 NB 1 NB 2 NB 3 NB 4 SB 1 SB 2 Volume Total 11 276 276 276 170 368 368 Volume Left 0 0 0 0 0 0 0 Volume Right 11 0 0 0 32 0 0 CSH 741 1700 1700 1700 1700 1700 1700 Volume to Capacity 0.01 0.16 0.16 0.16 0.16 0.10 0.22 0.22 Queue Length 95th (ft) 1 0 0 0 0 0 0 0 Lane LOS A Approach LOS < | | 1350 | 258 | | | 999 | | | |
| vCu, unblocked vol 1182 258 999 tC, single (s) 6.8 6.9 4.1 tC, 2 stage (s) tF (s) 3.5 3.3 2.2 p0 queue free % 100 99 100 cM capacity (veh/h) 166 741 689 Direction, Lane # WB 1 NB 1 NB 2 NB 3 NB 4 SB 1 SB 2 Volume Total 11 276 276 276 170 368 368 Volume Left 0 | | | | | | | | | |
| tC, single (s) tC, 2 stage (s) tF (s) 3.5 3.3 2.2 p0 queue free % 100 99 100 cM capacity (veh/h) 166 741 689 Direction, Lane # WB 1 NB 1 NB 2 NB 3 NB 4 SB 1 SB 2 Volume Total 11 276 276 276 170 368 368 Volume Left 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | |
| tC, 2 stage (s) tF (s) 3.5 3.3 2.2 p0 queue free % 100 99 100 cM capacity (veh/h) 166 741 689 Direction, Lane # WB 1 NB 1 NB 2 NB 3 NB 4 SB 1 SB 2 Volume Total 11 276 276 276 170 368 368 Volume Left 0 0 0 0 0 0 0 0 Volume Right 11 0 0 0 32 0 0 cSH 741 1700 1700 1700 1700 1700 1700 1700 Volume to Capacity 0.01 0.16 0.16 0.16 0.10 0.22 0.22 Queue Length 95th (ft) 1 0 0 0 0 0 0 0 Control Delay (s) 9.9 0.0 0.0 0.0 0.0 Approach Delay (s) 9.9 0.0 0.0 Intersection Summary Average Delay Intersection Capacity Utilization 23.4% ICU Level of Service | · · · · · · · · · · · · · · · · · · · | | | | | 999 | | | |
| tF (s) 3.5 3.3 2.2 p0 queue free % 100 99 100 cM capacity (veh/h) 166 741 689 Direction, Lane # WB 1 NB 1 NB 2 NB 3 NB 4 SB 1 SB 2 Volume Total 11 276 276 276 170 368 368 Volume Left 0 0 0 0 0 0 0 0 0 Volume Right 11 0 0 0 32 0 0 cSH 741 1700 1700 1700 1700 1700 1700 Volume to Capacity 0.01 0.16 0.16 0.16 0.10 0.22 0.22 Queue Length 95th (ft) 1 0 0 0 0 0 0 0 Control Delay (s) 9.9 0.0 0.0 0.0 0.0 Approach Delay (s) 9.9 0.0 Intersection Summary Average Delay Intersection Capacity Utilization 23.4% ICU Level of Service | tC, single (s) | 6.8 | 6.9 | | | 4.1 | | | |
| p0 queue free % cM capacity (veh/h) 100 99 100 cM capacity (veh/h) 166 741 689 Direction, Lane # WB 1 NB 1 NB 2 NB 3 NB 4 SB 1 SB 2 Volume Total 11 276 276 276 170 368 368 Volume Left 0 0 0 0 0 0 0 0 Volume Right 11 0 0 0 32 0 0 cSH 741 1700 1700 1700 1700 1700 1700 Volume to Capacity 0.01 0.16 0.16 0.16 0.10 0.22 0.22 Queue Length 95th (ft) 1 0 0 0 0 0 0 Control Delay (s) 9.9 0.0 0.0 0.0 0.0 0.0 Approach LOS A Intersection Summary Average Delay 0.1 Intersection Capacity Utilization <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<> | | | | | | | | | |
| CM capacity (veh/h) 166 741 689 Direction, Lane # WB 1 NB 1 NB 2 NB 3 NB 4 SB 1 SB 2 Volume Total 11 276 276 276 170 368 368 Volume Left 0 0 0 0 0 0 0 0 Volume Right 11 0 0 0 32 0 | | | | | | | | | |
| Direction, Lane # WB 1 NB 1 NB 2 NB 3 NB 4 SB 1 SB 2 Volume Total 11 276 276 276 170 368 368 Volume Left 0 0 0 0 0 0 0 0 Volume Right 11 0 0 0 32 0 0 cSH 741 1700 1700 1700 1700 1700 1700 Volume to Capacity 0.01 0.16 0.16 0.16 0.10 0.22 0.22 Queue Length 95th (ft) 1 0 0 0 0 0 0 Control Delay (s) 9.9 0.0 0.0 0.0 0.0 0.0 0.0 Lane LOS A Approach Delay (s) 9.9 0.0 0.0 0.0 0.0 0.0 Approach LOS A 1 0.1 0.1 0.1 0.1 0.1 0.1 0. | | | | | | | | | |
| Volume Total 11 276 276 276 170 368 368 Volume Left 0 0 0 0 0 0 0 0 Volume Right 11 0 0 0 32 0 0 cSH 741 1700 1700 1700 1700 1700 1700 Volume to Capacity 0.01 0.16 0.16 0.16 0.10 0.22 0.22 Queue Length 95th (ft) 1 0 0 0 0 0 0 Control Delay (s) 9.9 0.0 0.0 0.0 0.0 0.0 Lane LOS A Approach Delay (s) 9.9 0.0 0.0 0.0 Approach LOS A Intersection Summary Average Delay 0.1 Intersection Capacity Utilization 23.4% ICU Level of Service | cM capacity (veh/h) | 166 | 741 | | | 689 | | | |
| Volume Left 0 0 0 0 0 0 0 Volume Right 11 0 0 0 32 0 0 cSH 741 1700 1700 1700 1700 1700 1700 Volume to Capacity 0.01 0.16 0.16 0.16 0.10 0.22 0.22 Queue Length 95th (ft) 1 0 0 0 0 0 0 Control Delay (s) 9.9 0.0 0.0 0.0 0.0 0.0 Lane LOS A Approach Delay (s) 9.9 0.0 0.0 0.0 0.0 Approach LOS A A Intersection Summary 0.1 Intersection Capacity Utilization 23.4% ICU Level of Service | Direction, Lane # | WB 1 | NB 1 | NB 2 | NB 3 | NB 4 | SB 1 | SB 2 | |
| Volume Right 11 0 0 0 32 0 0 cSH 741 1700 1700 1700 1700 1700 1700 Volume to Capacity 0.01 0.16 0.16 0.16 0.10 0.22 0.22 Queue Length 95th (ft) 1 0 0 0 0 0 0 Control Delay (s) 9.9 0.0 0.0 0.0 0.0 0.0 Lane LOS A Approach Delay (s) 9.9 0.0 0.0 0.0 Approach LOS A Intersection Summary 0.1 Intersection Capacity Utilization 23.4% ICU Level of Service | | 11 | 276 | 276 | 276 | 170 | 368 | | |
| cSH 741 1700 1 | Volume Left | | 0 | | 0 | | 0 | 0 | |
| Volume to Capacity 0.01 0.16 0.16 0.16 0.10 0.22 0.22 Queue Length 95th (ft) 1 0 0 0 0 0 0 0 Control Delay (s) 9.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Lane LOS A A A A A A A A A A A A A A B A | | | 0 | | | | | 0 | |
| Queue Length 95th (ft) 1 0 0 0 0 0 0 Control Delay (s) 9.9 0.0 0.0 0.0 0.0 0.0 Lane LOS A Approach Delay (s) 9.9 0.0 0.0 Approach LOS A Intersection Summary Average Delay 0.1 Intersection Capacity Utilization 23.4% ICU Level of Service | cSH | 741 | 1700 | | | | | | |
| Control Delay (s) 9.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Approach Delay (s) 0.0 0.0 Approach LOS A Intersection Summary 0.1 0.1 Intersection Capacity Utilization 23.4% ICU Level of Service | | 0.01 | 0.16 | 0.16 | 0.16 | 0.10 | 0.22 | | |
| Lane LOS A Approach Delay (s) 9.9 0.0 0.0 Approach LOS A Intersection Summary Average Delay 0.1 Intersection Capacity Utilization 23.4% ICU Level of Service | Queue Length 95th (ft) | 1 | 0 | | | | | | |
| Approach Delay (s) 9.9 0.0 0.0 Approach LOS A Intersection Summary Average Delay 0.1 Intersection Capacity Utilization 23.4% ICU Level of Service | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Approach LOS A Intersection Summary Average Delay Intersection Capacity Utilization 23.4% ICU Level of Service | | | | | | | | | |
| Intersection Summary Average Delay Intersection Capacity Utilization 23.4% ICU Level of Service | | | 0.0 | | | | 0.0 | | |
| Average Delay 0.1 Intersection Capacity Utilization 23.4% ICU Level of Service | Approach LOS | А | | | | | | | |
| Average Delay 0.1 Intersection Capacity Utilization 23.4% ICU Level of Service | Intersection Summary | | | | | | | | |
| Intersection Capacity Utilization 23.4% ICU Level of Service | | | | 0.1 | | | | | |
| | | ation | | | IC | U Level o | of Service | | |
| | Analysis Period (min) | | | 15 | | | | | |

| | ۶ | → | • | • | + | • | • | † | <i>></i> | / | ļ | ✓ |
|----------------------------------|------|------------|-------|------|------------|------------|------|----------|-------------|----------|------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 1,1 | ↑ ↑ | | ¥ | ↑ ↑ | | | 4 | | Ž | -f | 7 |
| Traffic Volume (veh/h) | 37 | 314 | 20 | 21 | 374 | 37 | 52 | 6 | 31 | 6 | 4 | 6 |
| Future Volume (Veh/h) | 37 | 314 | 20 | 21 | 374 | 37 | 52 | 6 | 31 | 6 | 4 | 6 |
| Sign Control | | Free | | | Free | | | Stop | | | Stop | |
| Grade | | 0% | | | 0% | | | 0% | | | 0% | |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Hourly flow rate (vph) | 40 | 341 | 22 | 23 | 407 | 40 | 57 | 7 | 34 | 7 | 4 | 7 |
| Pedestrians | | | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | 5 |
| Median type | | None | | | None | | | | | | | |
| Median storage veh) | | | | | | | | | | | | |
| Upstream signal (ft) | | 791 | | | 679 | | | | | | | |
| pX, platoon unblocked | 0.99 | | | | | | 0.99 | 0.99 | | 0.99 | 0.99 | 0.99 |
| vC, conflicting volume | 447 | | | 363 | | | 684 | 925 | 182 | 761 | 916 | 224 |
| vC1, stage 1 conf vol | | | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 433 | | | 363 | | | 671 | 914 | 182 | 749 | 905 | 208 |
| tC, single (s) | 4.1 | | | 4.1 | | | 7.5 | 6.5 | 6.9 | 7.5 | 6.5 | 6.9 |
| tC, 2 stage (s) | | | | | | | | | | | | |
| tF (s) | 2.2 | | | 2.2 | | | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 |
| p0 queue free % | 96 | | | 98 | | | 82 | 97 | 96 | 97 | 98 | 99 |
| cM capacity (veh/h) | 1117 | | | 1192 | | | 319 | 255 | 830 | 269 | 259 | 793 |
| Direction, Lane # | EB 1 | EB 2 | EB3 | EB 4 | WB 1 | WB 2 | WB 3 | NB 1 | SB 1 | SB 2 | | |
| Volume Total | 20 | 20 | 227 | 136 | 23 | 271 | 176 | 98 | 7 | 11 | | |
| Volume Left | 20 | 20 | 0 | 0 | 23 | 0 | 0 | 57 | 7 | 0 | | |
| Volume Right | 0 | 0 | 0 | 22 | 0 | 0 | 40 | 34 | 0 | 7 | | |
| cSH | 1117 | 1117 | 1700 | 1700 | 1192 | 1700 | 1700 | 397 | 269 | 711 | | |
| Volume to Capacity | 0.04 | 0.04 | 0.13 | 0.08 | 0.02 | 0.16 | 0.10 | 0.25 | 0.03 | 0.02 | | |
| Queue Length 95th (ft) | 3 | 3 | 0 | 0 | 1 | 0 | 0 | 24 | 2 | 1 | | |
| Control Delay (s) | 8.3 | 8.3 | 0.0 | 0.0 | 8.1 | 0.0 | 0.0 | 17.0 | 18.7 | 13.1 | | |
| Lane LOS | А | А | | | А | | | С | С | В | | |
| Approach Delay (s) | 0.8 | | | | 0.4 | | | 17.0 | 15.3 | | | |
| Approach LOS | | | | | | | | С | С | | | |
| Intersection Summary | | | | | | | | | | | | |
| Average Delay | | | 2.5 | | | | | | | | | |
| Intersection Capacity Utilizatio | n | | 35.9% | IC | U Level | of Service | | | А | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |

| - | | | | | | | | | | | | |
|------------------------|--------|-------|-------|--------|-----------|-----------|--------|------|------|--------|------|------|
| Intersection | | | | | | | | | | | | |
| Int Delay, s/veh | 2.1 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 4 | | | 4 | | ች | ĵ. | | ሻ | f) | |
| Traffic Vol, veh/h | 22 | 0 | 52 | 10 | 0 | 10 | 30 | 501 | 7 | 7 | 596 | 14 |
| Future Vol, veh/h | 22 | 0 | 52 | 10 | 0 | 10 | 30 | 501 | 7 | 7 | 596 | 14 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 200 | - | - | 225 | - | - |
| Veh in Median Storage | ≘,# - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 24 | 0 | 57 | 11 | 0 | 11 | 33 | 545 | 8 | 8 | 648 | 15 |
| | | | | | | | | | | | | |
| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | ١ | Major2 | | |
| Conflicting Flow All | 1293 | 1291 | 656 | 1315 | 1294 | 549 | 663 | 0 | 0 | 553 | 0 | 0 |
| Stage 1 | 672 | 672 | - | 615 | 615 | - | - | - | - | - | - | - |
| Stage 2 | 621 | 619 | - | 700 | 679 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 140 | 163 | 465 | 135 | 163 | 535 | 926 | - | - | 1017 | - | - |
| Stage 1 | 445 | 454 | - | 479 | 482 | - | - | - | - | - | - | - |
| Stage 2 | 475 | 480 | - | 430 | 451 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 133 | 156 | 465 | 115 | 156 | 535 | 926 | - | - | 1017 | - | - |
| Mov Cap-2 Maneuver | 133 | 156 | - | 115 | 156 | - | - | - | - | - | - | - |
| Stage 1 | 429 | 450 | - | 462 | 465 | - | - | - | - | - | - | - |
| Stage 2 | 449 | 463 | - | 375 | 447 | - | - | - | - | - | - | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Control Delay, s | 24.2 | | | 26.5 | | | 0.5 | | | 0.1 | | |
| HCM LOS | С | | | D | | | | | | | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvn | nt | NBL | NBT | NBR | EBLn1V | VBI n1 | SBL | SBT | SBR | | | |
| Capacity (veh/h) | - | 926 | | - | 267 | 189 | 1017 | - | - | | | |
| HCM Lane V/C Ratio | | 0.035 | _ | _ | | 0.115 | | - | _ | | | |
| HCM Control Delay (s) |) | 9 | | | 24.2 | 26.5 | 8.6 | _ | _ | | | |
| HCM Lane LOS | | A | _ | - | 24.2 C | 20.3 D | Α | _ | _ | | | |
| HCM 95th %tile Q(veh | 1) | 0.1 | _ | _ | 1.2 | 0.4 | 0 | _ | _ | | | |
| 1.13W 70W 70W Q(VCI | '/ | 0.1 | | | 1.4 | 0. 1 | U | | | | | |

| - | | | | | | | | | | | | |
|------------------------|--------|-------|-------|--------|----------|--------|--------|----------|------|----------|----------|------|
| Intersection | | | | | | | | | | | | |
| Int Delay, s/veh | 1 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 4 | | ሻ | 1 | | * | 1 | | <u> </u> | 1 | |
| Traffic Vol, veh/h | 6 | 0 | 8 | 19 | 0 | 11 | 7 | 525 | 7 | 3 | 651 | 4 |
| Future Vol, veh/h | 6 | 0 | 8 | 19 | 0 | 11 | 7 | 525 | 7 | 3 | 651 | 4 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | 0 | - | - | 225 | - | - | 200 | - | - |
| Veh in Median Storage | ≘,# - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 7 | 0 | 9 | 21 | 0 | 12 | 8 | 571 | 8 | 3 | 708 | 4 |
| | | | | | | | | | | | | |
| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Najor2 | | |
| Conflicting Flow All | 1313 | 1311 | 710 | 1312 | 1309 | 575 | 712 | 0 | 0 | 579 | 0 | 0 |
| Stage 1 | 716 | 716 | - | 591 | 591 | - | - | - | - | - | - | - |
| Stage 2 | 597 | 595 | - | 721 | 718 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 135 | 159 | 434 | 136 | 159 | 518 | 888 | - | - | 995 | - | - |
| Stage 1 | 421 | 434 | - | 493 | 494 | - | - | - | - | - | - | - |
| Stage 2 | 490 | 492 | - | 419 | 433 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 131 | 157 | 434 | 132 | 157 | 518 | 888 | - | - | 995 | - | - |
| Mov Cap-2 Maneuver | 131 | 157 | - | 132 | 157 | - | - | - | - | - | - | - |
| Stage 1 | 417 | 433 | - | 489 | 490 | - | - | - | - | - | - | - |
| Stage 2 | 474 | 488 | - | 409 | 432 | - | - | - | - | - | - | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Control Delay, s | 22.7 | | | 28.1 | | | 0.1 | | | 0 | | |
| HCM LOS | С | | | D | | | | | | | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvn | nt | NBL | NBT | NBR | EBLn1V | VBLn1\ | VBLn2 | SBL | SBT | SBR | | |
| Capacity (veh/h) | | 888 | | | 218 | 132 | 518 | 995 | - | | | |
| HCM Lane V/C Ratio | | 0.009 | _ | _ | | | | 0.003 | _ | _ | | |
| HCM Control Delay (s) |) | 9.1 | _ | _ | 22.7 | 37.3 | 12.1 | 8.6 | - | _ | | |
| HCM Lane LOS | | A | _ | _ | C | E | В | A | _ | _ | | |
| HCM 95th %tile Q(veh |) | 0 | - | | 0.2 | 0.5 | 0.1 | 0 | - | _ | | |
| | 1 | | | | 0.2 | 0.0 | 3.1 | 0 | | | | |

| | * | \$⊳ | 1 /2 | * | / | 4 | • | 4 | |
|---------------------------|------------|-----------|-------------|------------|----------|-------|-------|-------|----------|
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Movement | NBL | SBTL | EBL | WBTL | SBL | NBTL | WBL | EBTL | |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag | |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Recall Mode | None | Max | None | None | None | Max | None | None | |
| Maximum Split (s) | 15 | 36.2 | 15 | 23.8 | 15 | 36.2 | 15 | 23.8 | |
| Maximum Split (%) | 16.7% | 40.2% | 16.7% | 26.4% | 16.7% | 40.2% | 16.7% | 26.4% | |
| Minimum Split (s) | 15 | 26.7 | 15 | 23.6 | 15 | 26.4 | 15 | 23 | |
| Yellow Time (s) | 3 | 4.7 | 3 | 3.6 | 3 | 4.4 | 3 | 3.6 | |
| All-Red Time (s) | 1.8 | 1 | 1.4 | 1 | 1.8 | 1 | 1.4 | 1 | |
| Minimum Initial (s) | 10 | 20 | 10 | 15 | 10 | 20 | 10 | 15 | |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Walk Time (s) | | | | 7 | | 7 | | | |
| Flash Dont Walk (s) | | | | 11 | | 11 | | | |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes | |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Start Time (s) | 0 | 15 | 51.2 | 66.2 | 0 | 15 | 51.2 | 66.2 | |
| End Time (s) | 15 | 51.2 | 66.2 | 0 | 15 | 51.2 | 66.2 | 0 | |
| Yield/Force Off (s) | 10.2 | 45.5 | 61.8 | 85.4 | 10.2 | 45.8 | 61.8 | 85.4 | |
| Yield/Force Off 170(s) | 10.2 | 45.5 | 61.8 | 74.4 | 10.2 | 34.8 | 61.8 | 85.4 | |
| Local Start Time (s) | 75 | 0 | 36.2 | 51.2 | 75 | 0 | 36.2 | 51.2 | |
| Local Yield (s) | 85.2 | 30.5 | 46.8 | 70.4 | 85.2 | 30.8 | 46.8 | 70.4 | |
| Local Yield 170(s) | 85.2 | 30.5 | 46.8 | 59.4 | 85.2 | 19.8 | 46.8 | 70.4 | |
| Intersection Summary | | | | | | | | | |
| Cycle Length | | | 90 | | | | | | |
| Control Type | Actuate | ed-Uncoo | rdinated | | | | | | |
| Natural Cycle | | | 85 | | | | | | |
| Splits and Phases: 3: New | w Albany-C | Condit Ro | ad & Cen | tral Colle | ge Road | | | | |
| | | 2 | & 0011 | | <u></u> | ₩ | | | + |
| \$ Ø1 | Ø2 | | | | | | Ø3 | | ₩ Ø4 |
| 15 s 36.2 | | | | | | 15 s | | | 23.8 s |
| \ ≪' | h | | | | | 12 | | | A |

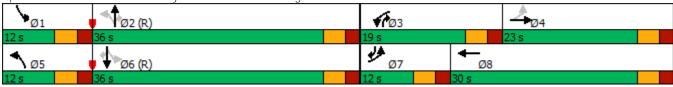
Synchro 11 Report OY PM No Build

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|------------------------------|-------|----------|-------|------|------------|-------|-------|----------|----------|----------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ሻ | + | 7 | 7 | ∱ ∱ | | ሻ | ₽ | | ሻ | | - 7 |
| Traffic Volume (veh/h) | 46 | 270 | 129 | 44 | 178 | 89 | 136 | 501 | 79 | 53 | 286 | 49 |
| Future Volume (veh/h) | 46 | 270 | 129 | 44 | 178 | 89 | 136 | 501 | 79 | 53 | 286 | 49 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 50 | 293 | 140 | 48 | 193 | 97 | 148 | 545 | 86 | 58 | 311 | 53 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 354 | 350 | 484 | 268 | 431 | 208 | 553 | 635 | 100 | 317 | 700 | 725 |
| Arrive On Green | 0.08 | 0.19 | 0.19 | 0.08 | 0.19 | 0.19 | 0.12 | 0.40 | 0.40 | 0.09 | 0.37 | 0.37 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1781 | 2325 | 1121 | 1781 | 1577 | 249 | 1781 | 1870 | 1585 |
| Grp Volume(v), veh/h | 50 | 293 | 140 | 48 | 146 | 144 | 148 | 0 | 631 | 58 | 311 | 53 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1870 | 1585 | 1781 | 1777 | 1669 | 1781 | 0 | 1826 | 1781 | 1870 | 1585 |
| Q Serve(g_s), s | 1.7 | 12.3 | 5.5 | 1.7 | 5.9 | 6.3 | 3.8 | 0.0 | 25.7 | 1.5 | 10.2 | 1.5 |
| Cycle Q Clear(q_c), s | 1.7 | 12.3 | 5.5 | 1.7 | 5.9 | 6.3 | 3.8 | 0.0 | 25.7 | 1.5 | 10.2 | 1.5 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.67 | 1.00 | | 0.14 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 354 | 350 | 484 | 268 | 329 | 309 | 553 | 0 | 735 | 317 | 700 | 725 |
| V/C Ratio(X) | 0.14 | 0.84 | 0.29 | 0.18 | 0.44 | 0.47 | 0.27 | 0.00 | 0.86 | 0.18 | 0.44 | 0.07 |
| Avail Cap(c_a), veh/h | 438 | 440 | 561 | 354 | 418 | 393 | 565 | 0 | 735 | 381 | 700 | 725 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 22.7 | 31.9 | 21.6 | 23.5 | 29.5 | 29.6 | 12.2 | 0.0 | 22.2 | 15.7 | 19.2 | 12.4 |
| Incr Delay (d2), s/veh | 0.2 | 10.9 | 0.3 | 0.3 | 0.9 | 1.1 | 0.3 | 0.0 | 12.4 | 0.3 | 2.0 | 0.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.7 | 6.4 | 2.0 | 0.7 | 2.4 | 2.4 | 1.3 | 0.0 | 12.1 | 0.5 | 4.3 | 0.5 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | 0.0 |
| LnGrp Delay(d),s/veh | 22.9 | 42.9 | 21.9 | 23.8 | 30.4 | 30.7 | 12.5 | 0.0 | 34.6 | 16.0 | 21.2 | 12.6 |
| LnGrp LOS | С | D | С | С | С | С | В | А | С | В | C | В |
| Approach Vol, veh/h | | 483 | | | 338 | | | 779 | | | 422 | |
| Approach Delay, s/veh | | 34.7 | | | 29.6 | | | 30.4 | | | 19.4 | |
| Approach LOS | | C C | | | C C | | | С | | | В | |
| | | | | | | , | _ | | | | D | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 14.4 | 36.2 | 11.2 | 19.7 | 12.1 | 38.5 | 11.0 | 19.9 | | | | |
| Change Period (Y+Rc), s | * 4.8 | 5.7 | * 4.4 | 4.6 | * 4.8 | * 5.7 | * 4.4 | 4.6 | | | | |
| Max Green Setting (Gmax), s | * 10 | 30.5 | * 11 | 19.2 | * 10 | * 31 | * 11 | 19.2 | | | | |
| Max Q Clear Time (g_c+l1), s | 5.8 | 12.2 | 3.7 | 8.3 | 3.5 | 27.7 | 3.7 | 14.3 | | | | |
| Green Ext Time (p_c), s | 0.1 | 1.6 | 0.0 | 1.1 | 0.0 | 1.1 | 0.0 | 0.9 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 29.0 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |
| Notes | | | | | | | | | | | | |

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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|------------------------------|-------------|----------|----------|-----------|----------|-------|-------|-------|--|
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Movement | SBL | NBTL | WBL | EBTL | NBL | SBTL | EBL | WBT | |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag | |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Recall Mode | None | C-Max | None | None | None | C-Max | None | None | |
| Maximum Split (s) | 12 | 36 | 19 | 23 | 12 | 36 | 12 | 30 | |
| Maximum Split (%) | 13.3% | 40.0% | 21.1% | 25.6% | 13.3% | 40.0% | 13.3% | 33.3% | |
| Minimum Split (s) | 12 | 23 | 12 | 23 | 12 | 23 | 12 | 23 | |
| Yellow Time (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| All-Red Time (s) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Minimum Initial (s) | 7 | 10 | 7 | 10 | 7 | 10 | 7 | 10 | |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Walk Time (s) | | 7 | | 7 | | 7 | | 7 | |
| Flash Dont Walk (s) | | 11 | | 11 | | 11 | | 11 | |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes | |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Start Time (s) | 0 | 12 | 48 | 67 | 0 | 12 | 48 | 60 | |
| End Time (s) | 12 | 48 | 67 | 0 | 12 | 48 | 60 | 0 | |
| Yield/Force Off (s) | 7 | 43 | 62 | 85 | 7 | 43 | 55 | 85 | |
| Yield/Force Off 170(s) | 7 | 32 | 62 | 74 | 7 | 32 | 55 | 74 | |
| Local Start Time (s) | 78 | 0 | 36 | 55 | 78 | 0 | 36 | 48 | |
| Local Yield (s) | 85 | 31 | 50 | 73 | 85 | 31 | 43 | 73 | |
| Local Yield 170(s) | 85 | 20 | 50 | 62 | 85 | 20 | 43 | 62 | |
| Intersection Summary | | | | | | | | | |
| Cycle Length | | | 90 | | | | | | |
| Control Type | Actu | ated-Coo | | | | | | | |
| Natural Cycle | | | 70 | | | | | | |
| Offset: 12 (13%), Referenced | d to phase | 2:NBTL | and 6:SB | TL, Start | of Green | | | | |

Splits and Phases: 6: New Albany Road E & Central College Road



Synchro 11 Report OY PM No Build

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|--|------------|-------------|------------|-------------|-------------|------------|------------|-------------|-------------|-------------|-------------|-------------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ሻ | ተኈ | | ሻሻ | ∱ β | | ሻ | ^ | 7 | 7 | ^ | 7 |
| Traffic Volume (veh/h) | 70 | 144 | 26 | 247 | 210 | 24 | 41 | 410 | 164 | 99 | 639 | 122 |
| Future Volume (veh/h) | 70 | 144 | 26 | 247 | 210 | 24 | 41 | 410 | 164 | 99 | 639 | 122 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | 1070 | No | 1070 | 1070 | No | 1070 | 1070 | No | 1070 | 1070 | No | 1070 |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 268 | 1870 | 1870 | 1870 45 | 1870 | 1870 | 1870 | 1870 695 | 1870 133 |
| Adj Flow Rate, veh/h Peak Hour Factor | 76 0.92 | 157 0.92 | 28 0.92 | 0.92 | 228 0.92 | 26 0.92 | 0.92 | 446 0.92 | 178 0.92 | 108 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Cap, veh/h | 289 | 336 | 59 | 353 | 474 | 53 | 434 | 1748 | 942 | 545 | 1819 | 916 |
| Arrive On Green | 0.07 | 0.11 | 0.11 | 0.10 | 0.15 | 0.15 | 0.05 | 0.49 | 0.49 | 0.07 | 0.51 | 0.51 |
| Sat Flow, veh/h | 1781 | 3023 | 529 | 3456 | 3219 | 363 | 1781 | 3554 | 1585 | 1781 | 3554 | 1585 |
| Grp Volume(v), veh/h | 76 | 91 | 94 | 268 | 125 | 129 | 45 | 446 | 178 | 108 | 695 | 133 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1777 | 1775 | 1728 | 1777 | 1805 | 1781 | 1777 | 1585 | 1781 | 1777 | 1585 |
| Q Serve(g_s), s | 3.3 | 4.3 | 4.5 | 6.8 | 5.8 | 5.9 | 1.1 | 6.6 | 4.6 | 2.5 | 10.7 | 3.5 |
| Cycle Q Clear(q_c), s | 3.3 | 4.3 | 4.5 | 6.8 | 5.8 | 5.9 | 1.1 | 6.6 | 4.6 | 2.5 | 10.7 | 3.5 |
| Prop In Lane | 1.00 | ,,, | 0.30 | 1.00 | 0.0 | 0.20 | 1.00 | 0.0 | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 289 | 197 | 197 | 353 | 261 | 266 | 434 | 1748 | 942 | 545 | 1819 | 916 |
| V/C Ratio(X) | 0.26 | 0.46 | 0.48 | 0.76 | 0.48 | 0.49 | 0.10 | 0.26 | 0.19 | 0.20 | 0.38 | 0.15 |
| Avail Cap(c_a), veh/h | 310 | 355 | 355 | 538 | 494 | 501 | 479 | 1748 | 942 | 554 | 1819 | 916 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 31.9 | 37.5 | 37.5 | 39.3 | 35.2 | 35.3 | 10.0 | 13.3 | 8.4 | 9.4 | 13.3 | 8.7 |
| Incr Delay (d2), s/veh | 0.5 | 1.7 | 1.8 | 3.4 | 1.4 | 1.4 | 0.1 | 0.4 | 0.4 | 0.2 | 0.6 | 0.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.4 | 1.9 | 2.0 | 3.0 | 2.5 | 2.6 | 0.4 | 2.5 | 1.5 | 0.9 | 4.1 | 1.2 |
| Unsig. Movement Delay, s/veh | | 00.4 | | | 0.4.4 | 0.4.4 | 100 | 40.4 | | 0.5 | | 0.1 |
| LnGrp Delay(d),s/veh | 32.3 | 39.1 | 39.3 | 42.7 | 36.6 | 36.6 | 10.2 | 13.6 | 8.8 | 9.5 | 13.9 | 9.1 |
| LnGrp LOS | С | D | D | D | D | D | В | В | А | A | В | А |
| Approach Vol, veh/h | | 261 | | | 522 | | | 669 | | | 936 | |
| Approach LOS | | 37.2 | | | 39.7 | | | 12.1 | | | 12.7 | |
| Approach LOS | | D | | | D | | | В | | | В | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 11.5 | 49.3 | 14.2 | 15.0 | 9.7 | 51.1 | 11.0 | 18.2 | | | | |
| Change Period (Y+Rc), s | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | | | | |
| Max Green Setting (Gmax), s | 7.0 | 31.0 | 14.0 | 18.0 | 7.0 | 31.0 | 7.0 | 25.0 | | | | |
| Max Q Clear Time (g_c+I1), s | 4.5 | 8.6 | 8.8 | 6.5 | 3.1 | 12.7 | 5.3 | 7.9 | | | | |
| Green Ext Time (p_c), s | 0.1 | 3.5 | 0.4 | 0.7 | 0.0 | 4.9 | 0.0 | 1.2 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 21.1 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |

Timing Report, Sorted By Phase 8: Walton Parkway/EMH&T Driveway & New Albany Road E

| | _ | - 4₫ | * | \bar{\psi} |
|------------------------------|------------|-----------|------------|------------|
| Phase Number | 2 | 4 | 6 | 8 |
| Movement | EBTL | NBTL | WBTL | SBTL |
| Lead/Lag | | | | |
| Lead-Lag Optimize | | | | |
| Recall Mode | C-Max | Max | Max | Max |
| Maximum Split (s) | 42 | 48 | 42 | 48 |
| Maximum Split (%) | 46.7% | 53.3% | 46.7% | 53.3% |
| Minimum Split (s) | 23 | 23 | 23 | 23 |
| Yellow Time (s) | 3 | 3 | 3 | 3 |
| All-Red Time (s) | 2 | 2 | 2 | 2 |
| Minimum Initial (s) | 10 | 10 | 10 | 10 |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 | 0 |
| Walk Time (s) | 7 | 7 | 7 | 7 |
| Flash Dont Walk (s) | 11 | 11 | 11 | 11 |
| Dual Entry | Yes | Yes | Yes | Yes |
| Inhibit Max | Yes | Yes | Yes | Yes |
| Start Time (s) | 0 | 42 | 0 | 42 |
| End Time (s) | 42 | 0 | 42 | 0 |
| Yield/Force Off (s) | 37 | 85 | 37 | 85 |
| Yield/Force Off 170(s) | 26 | 74 | 26 | 74 |
| Local Start Time (s) | 0 | 42 | 0 | 42 |
| Local Yield (s) | 37 | 85 | 37 | 85 |
| Local Yield 170(s) | 26 | 74 | 26 | 74 |
| Intersection Summary | | | | |
| Cycle Length | | | 90 | |
| Control Type | Δctu | ated-Cool | | |
| Natural Cycle | Actu | alcu-C00l | 50 | |
| Offset: 0 (0%), Referenced | n nhase 2 | ·FRTI St | | en |
| onsett o (o70), recicioned | o priase z | | art or Orc | 0011 |
| Splits and Phases: 8: Wa | lton Parkw | /av/FMH& | T Drivew | av & New |
| p.i.to drid i fladoos. O. Wa | and | 1011 10 | . Diivov | <u> </u> |
| J → Ø2 (R) | | | | |
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|--|------|------------|-------------|-------------|------------|------|-------------|----------|-------------|----------|----------|-------------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ∱ ∱ | | ሻ | ተ ኈ | | ሻ | ₽ | | ሻ | 1> | |
| Traffic Volume (veh/h) | 4 | 526 | 89 | 18 | 766 | 0 | 362 | 6 | 44 | 10 | 17 | 53 |
| Future Volume (veh/h) | 4 | 526 | 89 | 18 | 766 | 0 | 362 | 6 | 44 | 10 | 17 | 53 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 4 | 572 | 97 | 20 | 833 | 0 | 393 | 7 | 48 | 11 | 18 | 58 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 232 | 1250 | 211 | 291 | 1461 | 0 | 679 | 98 | 674 | 700 | 186 | 600 |
| Arrive On Green | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.00 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 |
| Sat Flow, veh/h | 659 | 3040 | 514 | 768 | 3647 | 0 | 1323 | 206 | 1411 | 1349 | 389 | 1255 |
| Grp Volume(v), veh/h | 4 | 334 | 335 | 20 | 833 | 0 | 393 | 0 | 55 | 11 | 0 | 76 |
| Grp Sat Flow(s), veh/h/ln | 659 | 1777 | 1778 | 768 | 1777 | 0 | 1323 | 0 | 1616 | 1349 | 0 | 1644 |
| Q Serve(g_s), s | 0.4 | 12.3 | 12.3 | 1.7 | 16.2 | 0.0 | 20.8 | 0.0 | 1.7 | 0.4 | 0.0 | 2.3 |
| Cycle Q Clear(g_c), s | 16.6 | 12.3 | 12.3 | 14.1 | 16.2 | 0.0 | 23.1 | 0.0 | 1.7 | 2.1 | 0.0 | 2.3 0.76 |
| Prop In Lane | 1.00 | 730 | 0.29 731 | 1.00 291 | 1461 | 0.00 | 1.00 679 | 0 | 0.87 772 | 1.00 | 0 | 786 |
| Lane Grp Cap(c), veh/h V/C Ratio(X) | 0.02 | 0.46 | 0.46 | 0.07 | 0.57 | 0.00 | 0.58 | 0.00 | 0.07 | 0.02 | 0.00 | 0.10 |
| Avail Cap(c_a), veh/h | 232 | 730 | 731 | 291 | 1461 | 0.00 | 679 | 0.00 | 772 | 700 | 0.00 | 786 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 26.8 | 19.2 | 19.2 | 24.3 | 20.4 | 0.0 | 19.2 | 0.0 | 12.7 | 13.3 | 0.00 | 12.9 |
| Incr Delay (d2), s/veh | 0.1 | 2.1 | 2.1 | 0.5 | 1.6 | 0.0 | 3.6 | 0.0 | 0.2 | 0.0 | 0.0 | 0.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.1 | 5.2 | 5.2 | 0.3 | 6.6 | 0.0 | 6.6 | 0.0 | 0.6 | 0.1 | 0.0 | 0.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 26.9 | 21.3 | 21.3 | 24.8 | 22.0 | 0.0 | 22.8 | 0.0 | 12.9 | 13.3 | 0.0 | 13.1 |
| LnGrp LOS | С | С | С | С | С | А | С | А | В | В | А | В |
| Approach Vol, veh/h | | 673 | | | 853 | | | 448 | | | 87 | |
| Approach Delay, s/veh | | 21.3 | | | 22.1 | | | 21.6 | | | 13.1 | |
| Approach LOS | | С | | | С | | | С | | | В | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 42.0 | | 48.0 | | 42.0 | | 48.0 | | | | |
| Change Period (Y+Rc), s | | 5.0 | | 5.0 | | 5.0 | | 5.0 | | | | |
| Max Green Setting (Gmax), s | | 37.0 | | 43.0 | | 37.0 | | 43.0 | | | | |
| Max Q Clear Time (g_c+l1), s | | 18.6 | | 25.1 | | 18.2 | | 4.3 | | | | |
| Green Ext Time (p_c), s | | 3.9 | | 1.5 | | 5.7 | | 0.5 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 21.3 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |

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|----------------------------|-------------|----------|----------|-------------|
| Phase Number | 2 | 4 | 6 | 8 |
| Movement | NBTL | EBTL | SBTL | WBTL |
| Lead/Lag | | | | |
| Lead-Lag Optimize | | | | |
| Recall Mode | C-Max | None | C-Max | None |
| Maximum Split (s) | 56 | 34 | 56 | 34 |
| Maximum Split (%) | 62.2% | 37.8% | 62.2% | 37.8% |
| Minimum Split (s) | 22.5 | 22.5 | 22.5 | 22.5 |
| Yellow Time (s) | 3.5 | 3.5 | 3.5 | 3.5 |
| All-Red Time (s) | 1 | 1 | 1 | 1 |
| Minimum Initial (s) | 5 | 5 | 5 | 5 |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 | 0 |
| Walk Time (s) | 7 | 7 | 7 | 7 |
| Flash Dont Walk (s) | 11 | 11 | 11 | 11 |
| Dual Entry | Yes | Yes | Yes | Yes |
| Inhibit Max | Yes | Yes | Yes | Yes |
| Start Time (s) | 0 | 56 | 0 | 56 |
| End Time (s) | 56 | 0 | 56 | 0 |
| Yield/Force Off (s) | 51.5 | 85.5 | 51.5 | 85.5 |
| Yield/Force Off 170(s) | 40.5 | 74.5 | 40.5 | 74.5 |
| Local Start Time (s) | 0 | 56 | 0 | 56 |
| Local Yield (s) | 51.5 | 85.5 | 51.5 | 85.5 |
| Local Yield 170(s) | 40.5 | 74.5 | 40.5 | 74.5 |
| Intersection Summary | | | | |
| Cycle Length | | _ | 90 | _ |
| Control Type | Actua | ated-Coo | rdinated | |
| Natural Cycle | | | 50 | |
| Offset: 0 (0%), Referenced | to phase 2: | :NBTL an | d 6:SBTL | ., Start of |
| Splits and Phases: 12: N | ew Albany- | Condit R | oad & Wa | ılton Parkı |
| . | | | | |
| Ø2 (R) | | | | |
| | | | | |
| √ Ø6 (R) | | | | |
| 56 s | | | | |

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|--|------|----------|------|--------------|----------|------|------|------|------|-------------|----------|-------------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | ₽ | | ሻ | ₽ | | ሻ | ₽ | | 7 | ĵ∍ | |
| Traffic Volume (veh/h) | 45 | 109 | 135 | 38 | 93 | 112 | 66 | 430 | 12 | 145 | 391 | 18 |
| Future Volume (veh/h) | 45 | 109 | 135 | 38 | 93 | 112 | 66 | 430 | 12 | 145 | 391 | 18 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 49 | 118 | 147 | 41 | 101 | 122 | 72 | 467 | 13 | 158 | 425 | 20 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 191 | 162 | 202 | 157 | 165 | 200 | 634 | 1242 | 35 | 607 | 1215 | 57 |
| Arrive On Green | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 |
| Sat Flow, veh/h | 1158 | 757 | 943 | 1114 | 771 | 932 | 945 | 1811 | 50 | 915 | 1772 | 83 |
| Grp Volume(v), veh/h | 49 | 0 | 265 | 41 | 0 | 223 | 72 | 0 | 480 | 158 | 0 | 445 |
| Grp Sat Flow(s), veh/h/ln | 1158 | 0 | 1701 | 1114 | 0 | 1703 | 945 | 0 | 1861 | 915 | 0 | 1855 |
| Q Serve(g_s), s | 3.6 | 0.0 | 13.1 | 3.2 | 0.0 | 10.7 | 3.1 | 0.0 | 9.8 | 8.0 | 0.0 | 8.9 |
| Cycle Q Clear(g_c), s | 14.3 | 0.0 | 13.1 | 16.3 | 0.0 | 10.7 | 12.0 | 0.0 | 9.8 | 17.8 | 0.0 | 8.9 |
| Prop In Lane | 1.00 | 0 | 0.55 | 1.00 | 0 | 0.55 | 1.00 | 0 | 0.03 | 1.00 | 0 | 0.04 |
| Lane Grp Cap(c), veh/h | 191 | 0 | 365 | 157 | 0 | 365 | 634 | 0 | 1276 | 607 | 0 | 1272 |
| V/C Ratio(X) | 0.26 | 0.00 | 0.73 | 0.26 | 0.00 | 0.61 | 0.11 | 0.00 | 0.38 | 0.26 | 0.00 | 0.35 |
| Avail Cap(c_a), veh/h | 322 | 1.00 | 557 | 284 | 1.00 | 558 | 634 | 1.00 | 1276 | 607 | 1.00 | 1272 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 38.4 | 0.00 | 32.9 | 1.00 40.5 | 0.00 | 32.0 | 1.00 | 0.00 | 1.00 | 1.00 9.8 | 0.00 | 1.00 5.9 |
| Uniform Delay (d), s/veh Incr Delay (d2), s/veh | 0.7 | 0.0 | 2.8 | 0.9 | 0.0 | 1.7 | 0.3 | 0.0 | 0.0 | 1.0 | 0.0 | 0.8 |
| Initial Q Delay(d3),s/veh | 0.7 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.0 | 0.0 | 5.5 | 0.0 | 0.0 | 4.4 | 0.6 | 0.0 | 3.4 | 1.5 | 0.0 | 2.8 |
| Unsig. Movement Delay, s/veh | | 0.0 | 5.5 | 0.7 | 0.0 | 4.4 | 0.0 | 0.0 | 3.4 | 1.0 | 0.0 | 2.0 |
| LnGrp Delay(d),s/veh | 39.1 | 0.0 | 35.7 | 41.3 | 0.0 | 33.6 | 8.7 | 0.0 | 6.8 | 10.8 | 0.0 | 6.6 |
| LnGrp LOS | D | Α | D | D | Α | C | Α | Α | Α | В | Α | Α |
| Approach Vol, veh/h | | 314 | | | 264 | | /\ | 552 | / \ | | 603 | |
| Approach Delay, s/veh | | 36.2 | | | 34.8 | | | 7.1 | | | 7.7 | |
| Approach LOS | | D | | | C | | | A | | | Α | |
| | | - | | | | | | | | | 71 | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 66.2 | | 23.8 | | 66.2 | | 23.8 | | | | |
| Change Period (Y+Rc), s | | 4.5 | | 4.5 | | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | | 51.5 | | 29.5 | | 51.5 | | 29.5 | | | | |
| Max Q Clear Time (g_c+I1), s | | 14.0 | | 16.3 | | 19.8 | | 18.3 | | | | |
| Green Ext Time (p_c), s | | 3.7 | | 1.4 | | 3.6 | | 1.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 16.8 | | | | | | | | | |
| HCM 6th LOS | | | В | | | | | | | | | |

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|---------------------------------|------|----------|------------|------|----------|------------|------|------|------|--|
| Movement | EBL | EBT | WBT | WBR | SBL | SBR | | | | |
| Lane Configurations | 14 | ^ | ↑ ↑ | | ¥ | 77 | | | | |
| Traffic Volume (veh/h) | 7 | 419 | 415 | 7 | 38 | 38 | | | | |
| Future Volume (Veh/h) | 7 | 419 | 415 | 7 | 38 | 38 | | | | |
| Sign Control | | Free | Free | | Stop | | | | | |
| Grade | | 0% | 0% | | 0% | | | | | |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | | | | |
| Hourly flow rate (vph) | 8 | 455 | 451 | 8 | 41 | 41 | | | | |
| Pedestrians | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | |
| Median type | | None | None | | | | | | | |
| Median storage veh) | | | | | | | | | | |
| Upstream signal (ft) | | 791 | 679 | | | | | | | |
| pX, platoon unblocked | | | | | | | | | | |
| vC, conflicting volume | 459 | | | | 698 | 230 | | | | |
| vC1, stage 1 conf vol | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | |
| vCu, unblocked vol | 459 | | | | 698 | 230 | | | | |
| tC, single (s) | 4.1 | | | | 6.8 | 6.9 | | | | |
| tC, 2 stage (s) | | | | | | | | | | |
| tF (s) | 2.2 | | | | 3.5 | 3.3 | | | | |
| p0 queue free % | 99 | | | | 89 | 95 | | | | |
| cM capacity (veh/h) | 1098 | | | | 372 | 773 | | | | |
| Direction, Lane # | EB 1 | EB 2 | EB3 | EB 4 | WB 1 | WB 2 | SB 1 | SB 2 | SB3 | |
| Volume Total | 4 | 4 | 228 | 228 | 301 | 158 | 41 | 20 | 20 | |
| Volume Left | 4 | 4 | 0 | 0 | 0 | 0 | 41 | 0 | 0 | |
| Volume Right | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 20 | 20 | |
| cSH | 1098 | 1098 | 1700 | 1700 | 1700 | 1700 | 372 | 773 | 773 | |
| Volume to Capacity | 0.01 | 0.01 | 0.13 | 0.13 | 0.18 | 0.09 | 0.11 | 0.03 | 0.03 | |
| Queue Length 95th (ft) | 1 | 1 | 0 | 0 | 0 | 0 | 9 | 2 | 2 | |
| Control Delay (s) | 8.3 | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 15.9 | 9.8 | 9.8 | |
| Lane LOS | А | А | | | | | С | А | А | |
| Approach Delay (s) | 0.1 | | | | 0.0 | | 12.8 | | | |
| Approach LOS | | | | | | | В | | | |
| Intersection Summary | | | | | | | | | | |
| Average Delay | | | 1.1 | | | | | | | |
| Intersection Capacity Utilizati | on | | 21.7% | IC | CU Level | of Service | | | А | |
| Analysis Period (min) | | | 15 | | | | | | | |

| Intersection | | | | | | |
|-----------------------------------|-----------|-------|----------|-----------|--------|------------------|
| Int Delay, s/veh | 0.4 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| | | WDK | | NDK | SDL | |
| Lane Configurations | \ | 7 | } | 20 | 10 | ની 404 |
| Traffic Vol, veh/h | 12 | 7 | 632 | 20 | 13 | 494 |
| Future Vol, veh/h | 12 | 7 | 632 | 20 | 13 | 494 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storag | e,# 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 13 | 8 | 687 | 22 | 14 | 537 |
| | | | | | | |
| N 4 = 1 = 10 / N / 1 = 1 | N.41 1 | | 1-1. 1 | | NA-! 0 | |
| | Minor1 | | /lajor1 | | Major2 | |
| Conflicting Flow All | 1263 | 698 | 0 | 0 | 709 | 0 |
| Stage 1 | 698 | - | - | - | - | - |
| Stage 2 | 565 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | | 3.318 | - | _ | 2.218 | _ |
| Pot Cap-1 Maneuver | 187 | 440 | _ | _ | 890 | _ |
| Stage 1 | 494 | - | _ | _ | - 070 | _ |
| Stage 2 | 569 | _ | | | _ | _ |
| Platoon blocked, % | 309 | - | _ | - | - | - |
| | 100 | 4.40 | - | - | 000 | - |
| Mov Cap-1 Maneuver | | 440 | - | - | 890 | - |
| Mov Cap-2 Maneuver | 183 | - | - | - | - | - |
| Stage 1 | 494 | - | - | - | - | - |
| Stage 2 | 556 | - | - | - | - | - |
| | | | | | | |
| Approach | WB | | NB | | SB | |
| HCM Control Delay, s | | | 0 | | 0.2 | |
| HCM LOS | 21.9 C | | U | | U.Z | |
| LICIVI LOS | C | | | | | |
| | | | | | | |
| Minor Lane/Major Mvr | nt | NBT | NBRV | WBLn1 | SBL | SBT |
| Capacity (veh/h) | | - | _ | 233 | 890 | - |
| HCM Lane V/C Ratio | | _ | | 0.089 | | - |
| HCM Control Delay (s |) | _ | _ | 21.9 | 9.1 | 0 |
| | | | | _ L . / | 7.1 | U |
| | / | _ | | \cap | Δ | Δ |
| HCM Lane LOS HCM 95th %tile Q(veh | , | - | - | C 0.3 | A 0 | A |

| 3. New Albarry-Cor | IUIL I VOE | au & C | Cilliai | Colleg | e itoat | <i>.</i> | | | 00/04/202 |
|------------------------|------------|----------|-------------|----------|----------|----------|-------|-------|-----------|
| | * | \$⊳ | 1 /2 | ₩ | / | -4 | • | 4 | |
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Movement | NBL | SBTL | EBL | WBTL | SBL | NBTL | WBL | EBTL | |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag | |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Recall Mode | None | Max | None | None | None | Max | None | None | |
| Maximum Split (s) | 15 | 36.1 | 15 | 23.9 | 15 | 36.1 | 15 | 23.9 | |
| Maximum Split (%) | 16.7% | 40.1% | 16.7% | 26.6% | 16.7% | 40.1% | 16.7% | 26.6% | |
| Minimum Split (s) | 15 | 26.7 | 15 | 23.6 | 15 | 26.4 | 15 | 23 | |
| Yellow Time (s) | 3 | 4.7 | 3 | 3.6 | 3 | 4.4 | 3 | 3.6 | |
| All-Red Time (s) | 1.8 | 1 | 1.4 | 1 | 1.8 | 1 | 1.4 | 1 | |
| Minimum Initial (s) | 10 | 20 | 10 | 15 | 10 | 20 | 10 | 15 | |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Walk Time (s) | | | | 7 | | 7 | | | |
| Flash Dont Walk (s) | | | | 11 | | 11 | | | |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes | |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Start Time (s) | 0 | 15 | 51.1 | 66.1 | 0 | 15 | 51.1 | 66.1 | |
| End Time (s) | 15 | 51.1 | 66.1 | 0 | 15 | 51.1 | 66.1 | 0 | |
| Yield/Force Off (s) | 10.2 | 45.4 | 61.7 | 85.4 | 10.2 | 45.7 | 61.7 | 85.4 | |
| Yield/Force Off 170(s) | 10.2 | 45.4 | 61.7 | 74.4 | 10.2 | 34.7 | 61.7 | 85.4 | |
| Local Start Time (s) | 75 | 0 | 36.1 | 51.1 | 75 | 0 | 36.1 | 51.1 | |
| Local Yield (s) | 85.2 | 30.4 | 46.7 | 70.4 | 85.2 | 30.7 | 46.7 | 70.4 | |
| Local Yield 170(s) | 85.2 | 30.4 | 46.7 | 59.4 | 85.2 | 19.7 | 46.7 | 70.4 | |
| Intersection Summary | | | | | | | | | |
| Cycle Length | | | 90 | | | | | | |
| Control Type | Actuate | ed-Uncoo | rdinated | | | | | | |
| Natural Cycle | | | 85 | | | | | | |
| | | | | | | | | | |

Splits and Phases: 3: New Albany-Condit Road & Central College Road



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|------------------------------|-------|----------|-------|------|------------|-------|-------|----------|------|-------------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | Ť | † | 7 | ሻ | ∱ ∱ | | ሻ | f) | | ሻ | † | 7 |
| Traffic Volume (veh/h) | 55 | 280 | 129 | 63 | 193 | 89 | 136 | 511 | 92 | 53 | 301 | 62 |
| Future Volume (veh/h) | 55 | 280 | 129 | 63 | 193 | 89 | 136 | 511 | 92 | 53 | 301 | 62 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 60 | 304 | 140 | 68 | 210 | 97 | 148 | 555 | 100 | 58 | 327 | 67 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 371 | 358 | 487 | 288 | 469 | 209 | 520 | 604 | 109 | 282 | 681 | 720 |
| Arrive On Green | 0.09 | 0.19 | 0.19 | 0.10 | 0.20 | 0.20 | 0.12 | 0.39 | 0.39 | 0.09 | 0.36 | 0.36 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1781 | 2391 | 1065 | 1781 | 1542 | 278 | 1781 | 1870 | 1585 |
| Grp Volume(v), veh/h | 60 | 304 | 140 | 68 | 154 | 153 | 148 | 0 | 655 | 58 | 327 | 67 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1781 | 1777 | 1679 | 1781 | 0 | 1820 | 1781 | 1870 | 1585 |
| Q Serve(g_s), s | 2.1 | 13.1 | 5.6 | 2.4 | 6.4 | 6.7 | 3.9 | 0.0 | 28.6 | 1.5 | 11.2 | 2.0 |
| Cycle Q Clear(g_c), s | 2.1 | 13.1 | 5.6 | 2.4 | 6.4 | 6.7 | 3.9 | 0.0 | 28.6 | 1.5 | 11.2 | 2.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.63 | 1.00 | | 0.15 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 371 | 358 | 487 | 288 | 349 | 330 | 520 | 0 | 713 | 282 | 681 | 720 |
| V/C Ratio(X) | 0.16 | 0.85 | 0.29 | 0.24 | 0.44 | 0.46 | 0.28 | 0.00 | 0.92 | 0.21 | 0.48 | 0.09 |
| Avail Cap(c_a), veh/h | 437 | 432 | 550 | 345 | 411 | 388 | 531 | 0 | 713 | 342 | 681 | 720 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 22.6 | 32.6 | 22.0 | 23.2 | 29.5 | 29.7 | 13.2 | 0.0 | 24.1 | 17.4 | 20.5 | 13.0 |
| Incr Delay (d2), s/veh | 0.2 | 12.8 | 0.3 | 0.4 | 0.9 | 1.0 | 0.3 | 0.0 | 18.9 | 0.4 | 2.4 | 0.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.9 | 7.0 | 2.0 | 0.9 | 2.6 | 2.6 | 1.4 | 0.0 | 14.6 | 0.6 | 4.8 | 0.7 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 22.8 | 45.4 | 22.3 | 23.6 | 30.4 | 30.7 | 13.5 | 0.0 | 43.0 | 17.7 | 22.9 | 13.2 |
| LnGrp LOS | С | D | С | С | С | С | В | Α | D | В | С | В |
| Approach Vol, veh/h | | 504 | | | 375 | | | 803 | | | 452 | |
| Approach Delay, s/veh | | 36.3 | | | 29.3 | | | 37.6 | | | 20.8 | |
| Approach LOS | | D | | | С | | | D | | | С | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 14.5 | 36.1 | 11.9 | 21.0 | 12.2 | 38.4 | 12.3 | 20.6 | | | | |
| Change Period (Y+Rc), s | * 4.8 | 5.7 | * 4.4 | 4.6 | * 4.8 | * 5.7 | * 4.4 | 4.6 | | | | |
| Max Green Setting (Gmax), s | * 10 | 30.4 | * 11 | 19.3 | * 10 | * 31 | * 11 | 19.3 | | | | |
| Max Q Clear Time (g_c+l1), s | 5.9 | 13.2 | 4.1 | 8.7 | 3.5 | 30.6 | 4.4 | 15.1 | | | | |
| Green Ext Time (p_c), s | 0.1 | 1.7 | 0.0 | 1.1 | 0.0 | 0.1 | 0.1 | 0.9 | | | | |
| 4 , | 3.1 | 1.7 | 3.0 | 1.1 | 0.0 | 3.1 | 3.1 | 3.7 | | | | |
| Intersection Summary | | | 00.0 | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 32.3 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |
| Notes | | | | | | | | | | | | |

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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|------------------------------|----------|----------|-----------|-----------|----------|-------------|-------|----------|------------------|
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Movement | SBL | NBTL | WBL | EBTL | NBL | SBTL | EBL | WBT | |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag | |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Recall Mode | None | C-Max | None | None | None | C-Max | None | None | |
| Maximum Split (s) | 12 | 36 | 19 | 23 | 12 | 36 | 12 | 30 | |
| Maximum Split (%) | 13.3% | 40.0% | 21.1% | 25.6% | 13.3% | 40.0% | 13.3% | 33.3% | |
| Minimum Split (s) | 12 | 23 | 12 | 23 | 12 | 23 | 12 | 23 | |
| Yellow Time (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| All-Red Time (s) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Minimum Initial (s) | 7 | 10 | 7 | 10 | 7 | 10 | 7 | 10 | |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Walk Time (s) | | 7 | | 7 | | 7 | | 7 | |
| Flash Dont Walk (s) | | 11 | | 11 | | 11 | | 11 | |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes | |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Start Time (s) | 0 | 12 | 48 | 67 | 0 | 12 | 48 | 60 | |
| End Time (s) | 12 | 48 | 67 | 0 | 12 | 48 | 60 | 0 | |
| Yield/Force Off (s) | 7 | 43 | 62 | 85 | 7 | 43 | 55 | 85 | |
| Yield/Force Off 170(s) | 7 | 32 | 62 | 74 | 7 | 32 | 55 | 74 | |
| Local Start Time (s) | 78 | 0 | 36 | 55 | 78 | 0 | 36 | 48 | |
| Local Yield (s) | 85 | 31 | 50 | 73 | 85 | 31 | 43 | 73 | |
| Local Yield 170(s) | 85 | 20 | 50 | 62 | 85 | 20 | 43 | 62 | |
| Intersection Summary | | | | | | | | | |
| Cycle Length | | | 90 | | | | | | |
| Control Type | Actu | ated-Coo | | | | | | | |
| Natural Cycle | | | 70 | | | | | | |
| Offset: 12 (13%), Referenced | to phase | 2:NBTL | and 6:SB | TL, Start | of Green | | | | |
| Splits and Phases: 6: New | Albany R | Road E & | Central C | ollege Ro | ad | | | | |
| Ø1 • Ø2 (| | | | | | √ Ø3 | | | A ₀₁₄ |

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|--|-----------|-------------|-----------|-----------|------------|-----------|-----------|------------|-------------|-------------|------------|-------------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | ħβ | | ሻሻ | ∱ ⊅ | | ሻ | ^ | 7 | | ተተ | 7 |
| Traffic Volume (veh/h) | 70 | 166 | 26 | 268 | 219 | 27 | 48 | 410 | 164 | 103 | 639 | 122 |
| Future Volume (veh/h) | 70 | 166 | 26 | 268 | 219 | 27 | 48 | 410 | 164 | 103 | 639 | 122 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | 1870 | No | 1870 | 1870 | No 1870 | 1870 | 1870 | No 1870 | 1070 | 1070 | No 1870 | 1070 |
| Adj Sat Flow, veh/h/ln Adj Flow Rate, veh/h | 76 | 1870 180 | 28 | 291 | 238 | 29 | 52 | 446 | 1870 178 | 1870 112 | 695 | 1870 133 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 292 | 343 | 53 | 376 | 491 | 59 | 432 | 1723 | 941 | 539 | 1781 | 899 |
| Arrive On Green | 0.07 | 0.11 | 0.11 | 0.11 | 0.15 | 0.15 | 0.06 | 0.48 | 0.48 | 0.07 | 0.50 | 0.50 |
| Sat Flow, veh/h | 1781 | 3089 | 473 | 3456 | 3193 | 385 | 1781 | 3554 | 1585 | 1781 | 3554 | 1585 |
| Grp Volume(v), veh/h | 76 | 102 | 106 | 291 | 131 | 136 | 52 | 446 | 178 | 112 | 695 | 133 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1777 | 1785 | 1728 | 1777 | 1801 | 1781 | 1777 | 1585 | 1781 | 1777 | 1585 |
| Q Serve(g_s), s | 3.3 | 4.9 | 5.0 | 7.4 | 6.1 | 6.2 | 1.2 | 6.7 | 4.6 | 2.7 | 10.9 | 3.6 |
| Cycle Q Clear(g_c), s | 3.3 | 4.9 | 5.0 | 7.4 | 6.1 | 6.2 | 1.2 | 6.7 | 4.6 | 2.7 | 10.9 | 3.6 |
| Prop In Lane | 1.00 | | 0.26 | 1.00 | | 0.21 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 292 | 197 | 198 | 376 | 273 | 277 | 432 | 1723 | 941 | 539 | 1781 | 899 |
| V/C Ratio(X) | 0.26 | 0.52 | 0.53 | 0.77 | 0.48 | 0.49 | 0.12 | 0.26 | 0.19 | 0.21 | 0.39 | 0.15 |
| Avail Cap(c_a), veh/h | 313 | 355 | 357 | 538 | 494 | 500 | 470 | 1723 | 941 | 548 | 1781 | 899 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 31.9 | 37.7 | 37.8 | 39.0 | 34.8 | 34.9 | 10.3 | 13.7 | 8.4 | 9.7 | 13.9 | 9.2 |
| Incr Delay (d2), s/veh | 0.5 | 2.1 | 2.2 | 4.4 | 1.3 | 1.3 | 0.1 | 0.4 | 0.4 | 0.2 | 0.6 | 0.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.4 | 2.2 | 2.3 | 3.3 | 2.7 | 2.7 | 0.5 | 2.6 | 1.5 | 1.0 | 4.2 | 1.2 |
| Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh | 32.3 | 39.8 | 40.0 | 43.4 | 36.1 | 36.2 | 10.4 | 14.0 | 8.8 | 9.9 | 14.6 | 9.5 |
| LnGrp LOS | 32.3 C | 39.8 D | 40.0 D | 43.4 D | 30.1 D | 30.2 D | 10.4 B | 14.0 B | 8.8 A | 9.9 A | 14.0 B | 9.5 A |
| - | C | 284 | D | D | 558 | D | В | 676 | A | A | 940 | A |
| Approach Vol, veh/h Approach Delay, s/veh | | 37.9 | | | 40.0 | | | 12.4 | | | 13.3 | |
| Approach LOS | | 37.9 D | | | 40.0 D | | | 12.4 B | | | 13.3 B | |
| | | | | | | | | | | | D | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 11.6 | 48.6 | 14.8 | 15.0 | 10.1 | 50.1 | 11.0 | 18.8 | | | | |
| Change Period (Y+Rc), s | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | | | | |
| Max Green Setting (Gmax), s | 7.0 | 31.0 | 14.0 | 18.0 | 7.0 | 31.0 | 7.0 | 25.0 | | | | |
| Max Q Clear Time (g_c+I1), s | 4.7 | 8.7 | 9.4 | 7.0 | 3.2 | 12.9 | 5.3 | 8.2 | | | | |
| Green Ext Time (p_c), s | 0.1 | 3.5 | 0.4 | 0.7 | 0.0 | 4.9 | 0.0 | 1.3 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 21.9 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |

Timing Report, Sorted By Phase 8: Walton Parkway/EMH&T Driveway & New Albany Road E

| | 4 | - 4₫ | * | - \$⊳ |
|----------------------------|------------|-----------------|------------|----------|
| Phase Number | 2 | 4 | 6 | 8 |
| Movement | EBTL | NBTL | WBTL | SBTL |
| Lead/Lag | | | | |
| Lead-Lag Optimize | | | | |
| Recall Mode | C-Max | Max | Max | Max |
| Maximum Split (s) | 41 | 49 | 41 | 49 |
| Maximum Split (%) | 45.6% | 54.4% | 45.6% | 54.4% |
| Minimum Split (s) | 23 | 23 | 23 | 23 |
| Yellow Time (s) | 3 | 3 | 3 | 3 |
| All-Red Time (s) | 2 | 2 | 2 | 2 |
| Minimum Initial (s) | 10 | 10 | 10 | 10 |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 | 0 |
| Walk Time (s) | 7 | 7 | 7 | 7 |
| Flash Dont Walk (s) | 11 | 11 | 11 | 11 |
| Dual Entry | Yes | Yes | Yes | Yes |
| Inhibit Max | Yes | Yes | Yes | Yes |
| Start Time (s) | 0 | 41 | 0 | 41 |
| End Time (s) | 41 | 0 | 41 | 0 |
| Yield/Force Off (s) | 36 | 85 | 36 | 85 |
| Yield/Force Off 170(s) | 25 | 74 | 25 | 74 |
| Local Start Time (s) | 0 | 41 | 0 | 41 |
| Local Yield (s) | 36 | 85 | 36 | 85 |
| Local Yield 170(s) | 25 | 74 | 25 | 74 |
| Intersection Summary | | | | |
| Cycle Length | | | 90 | |
| Control Type | Δctu | ated-Coo | | |
| Natural Cycle | Actu | aicu Cool | 50 | |
| Offset: 0 (0%), Referenced | n nhase 2 | ·FRTI St | | en |
| onsett o (o/o), recicioned | o priase z | | art or orc | 0011 |
| Splits and Phases: 8: Wa | lton Parkw | av/EMH& | T Drivew | av & New |
| | | j, = i v ii i o | 5.11011 | |
| J → Ø2 (R) | | | | |
| 41 s | | | | 49 |
| ▼ Ø6 | | | | |
| ₩ Ø6 41 s | | | | 49 |

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|------------------------------|------|------------|------|------|------------|------|------|----------|------|----------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | ∱ β | | ሻ | ∱ ∱ | | 7 | 4î | | 7 | ₽ | |
| Traffic Volume (veh/h) | 4 | 563 | 89 | 18 | 787 | 0 | 367 | 6 | 44 | 10 | 17 | 53 |
| Future Volume (veh/h) | 4 | 563 | 89 | 18 | 787 | 0 | 367 | 6 | 44 | 10 | 17 | 53 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 4 | 612 | 97 | 20 | 855 | 0 | 399 | 7 | 48 | 11 | 18 | 58 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 216 | 1229 | 194 | 265 | 1421 | 0 | 694 | 101 | 690 | 715 | 190 | 614 |
| Arrive On Green | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.00 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 |
| Sat Flow, veh/h | 646 | 3074 | 486 | 740 | 3647 | 0 | 1323 | 206 | 1411 | 1349 | 389 | 1255 |
| Grp Volume(v), veh/h | 4 | 353 | 356 | 20 | 855 | 0 | 399 | 0 | 55 | 11 | 0 | 76 |
| Grp Sat Flow(s),veh/h/ln | 646 | 1777 | 1783 | 740 | 1777 | 0 | 1323 | 0 | 1616 | 1349 | 0 | 1644 |
| Q Serve(g_s), s | 0.4 | 13.4 | 13.5 | 1.9 | 17.1 | 0.0 | 20.8 | 0.0 | 1.6 | 0.4 | 0.0 | 2.2 |
| Cycle Q Clear(g_c), s | 17.6 | 13.4 | 13.5 | 15.3 | 17.1 | 0.0 | 23.0 | 0.0 | 1.6 | 2.0 | 0.0 | 2.2 |
| Prop In Lane | 1.00 | | 0.27 | 1.00 | | 0.00 | 1.00 | | 0.87 | 1.00 | | 0.76 |
| Lane Grp Cap(c), veh/h | 216 | 711 | 713 | 265 | 1421 | 0 | 694 | 0 | 790 | 715 | 0 | 804 |
| V/C Ratio(X) | 0.02 | 0.50 | 0.50 | 0.08 | 0.60 | 0.00 | 0.57 | 0.00 | 0.07 | 0.02 | 0.00 | 0.09 |
| Avail Cap(c_a), veh/h | 216 | 711 | 713 | 265 | 1421 | 0 | 694 | 0 | 790 | 715 | 0 | 804 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 28.3 | 20.2 | 20.2 | 26.0 | 21.3 | 0.0 | 18.5 | 0.0 | 12.2 | 12.7 | 0.0 | 12.3 |
| Incr Delay (d2), s/veh | 0.2 | 2.5 | 2.5 | 0.6 | 1.9 | 0.0 | 3.4 | 0.0 | 0.2 | 0.0 | 0.0 | 0.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.1 | 5.7 | 5.8 | 0.4 | 7.1 | 0.0 | 6.5 | 0.0 | 0.6 | 0.1 | 0.0 | 0.9 |
| Unsig. Movement Delay, s/veh | | 22.7 | 22.7 | 2/ 5 | 22.2 | 0.0 | 21.0 | 0.0 | 100 | 107 | 0.0 | 10 / |
| LnGrp Delay(d),s/veh | 28.4 | 22.7 | 22.7 | 26.5 | 23.2 | 0.0 | 21.9 | 0.0 | 12.3 | 12.7 | 0.0 | 12.6 |
| LnGrp LOS | С | C | С | С | C 075 | А | С | A | В | В | A 07 | В |
| Approach Vol, veh/h | | 713 | | | 875 | | | 454 | | | 87 | |
| Approach Delay, s/veh | | 22.7 | | | 23.3 | | | 20.8 | | | 12.6 | |
| Approach LOS | | С | | | С | | | С | | | В | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 41.0 | | 49.0 | | 41.0 | | 49.0 | | | | |
| Change Period (Y+Rc), s | | 5.0 | | 5.0 | | 5.0 | | 5.0 | | | | |
| Max Green Setting (Gmax), s | | 36.0 | | 44.0 | | 36.0 | | 44.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 19.6 | | 25.0 | | 19.1 | | 4.2 | | | | |
| Green Ext Time (p_c), s | | 4.0 | | 1.6 | | 5.6 | | 0.5 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 22.1 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |

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|----------------------------|-------------|----------|------------|------------|
| Phase Number | 2 | 4 | 6 | 8 |
| Movement | NBTL | EBTL | SBTL | WBTL |
| Lead/Lag | 11016 | | ODIE | .,,,,,, |
| Lead-Lag Optimize | | | | |
| Recall Mode | C-Max | None | C-Max | None |
| Maximum Split (s) | 57 | 33 | 57 | 33 |
| Maximum Split (%) | 63.3% | 36.7% | 63.3% | 36.7% |
| Minimum Split (s) | 22.5 | 22.5 | 22.5 | 22.5 |
| Yellow Time (s) | 3.5 | 3.5 | 3.5 | 3.5 |
| All-Red Time (s) | 1 | 1 | 1 | 1 |
| Minimum Initial (s) | 5 | 5 | 5 | 5 |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 | 0 |
| Walk Time (s) | 7 | 7 | 7 | 7 |
| Flash Dont Walk (s) | 11 | 11 | 11 | 11 |
| Dual Entry | Yes | Yes | Yes | Yes |
| Inhibit Max | Yes | Yes | Yes | Yes |
| Start Time (s) | 0 | 57 | 0 | 57 |
| End Time (s) | 57 | 0 | 57 | 0 |
| Yield/Force Off (s) | 52.5 | 85.5 | 52.5 | 85.5 |
| Yield/Force Off 170(s) | 41.5 | 74.5 | 41.5 | 74.5 |
| Local Start Time (s) | 0 | 57 | 0 | 57 |
| Local Yield (s) | 52.5 | 85.5 | 52.5 | 85.5 |
| Local Yield 170(s) | 41.5 | 74.5 | 41.5 | 74.5 |
| Intersection Summary | | | | |
| Cycle Length | | | 90 | |
| Control Type | Actua | ated-Coo | | |
| Natural Cycle | | | 55 | |
| Offset: 0 (0%), Referenced | to phase 2: | NBTL an | d 6:SBTL | , Start of |
| Cality and Dhasses 12: No | ou. Alboni | Condit D | ood 0 \\/a | Itan Dark |
| Splits and Phases: 12: No | ew Albany- | Conait R | uau & Wa | iilon Park |
| ¶ø2 (R) | | | | |
| 57 s | | | | |
| . | | | | |
| ▼ Ø6 (R) | | | | |

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|--|-----------|-------------|------------|-------------|------------|-------------|----------|-------------|-------------|-----------|------------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ħ | ₽ | | ሻ | ₽ | | ሻ | ₽ | | ሻ | ₽ | |
| Traffic Volume (veh/h) | 45 | 109 | 135 | 38 | 93 | 125 | 66 | 472 | 12 | 154 | 421 | 23 |
| Future Volume (veh/h) | 45 | 109 | 135 | 38 | 93 | 125 | 66 | 472 | 12 | 154 | 421 | 23 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1 00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj Work Zone On Approach | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow, veh/h/ln | 1870 | No 1870 | 1870 | 1870 | No 1870 | 1870 | 1870 | No 1870 | 1870 | 1870 | No 1870 | 1870 |
| Adj Flow Rate, veh/h | 49 | 118 | 147 | 41 | 101 | 136 | 72 | 513 | 13 | 167 | 458 | 25 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 179 | 162 | 202 | 158 | 155 | 209 | 604 | 1245 | 32 | 572 | 1204 | 66 |
| Arrive On Green | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 |
| Sat Flow, veh/h | 1143 | 757 | 943 | 1114 | 722 | 973 | 912 | 1816 | 46 | 877 | 1757 | 96 |
| Grp Volume(v), veh/h | 49 | 0 | 265 | 41 | 0 | 237 | 72 | 0 | 526 | 167 | 0 | 483 |
| Grp Sat Flow(s), veh/h/ln | 1143 | 0 | 1701 | 1114 | 0 | 1695 | 912 | 0 | 1862 | 877 | 0 | 1853 |
| Q Serve(g_s), s | 3.7 | 0.0 | 13.0 | 3.2 | 0.0 | 11.5 | 3.3 | 0.0 | 11.1 | 9.3 | 0.0 | 10.0 |
| Cycle Q Clear(g_c), s | 15.2 | 0.0 | 13.0 | 16.2 | 0.0 | 11.5 | 13.3 | 0.0 | 11.1 | 20.4 | 0.0 | 10.0 |
| Prop In Lane | 1.00 | | 0.55 | 1.00 | | 0.57 | 1.00 | | 0.02 | 1.00 | | 0.05 |
| Lane Grp Cap(c), veh/h | 179 | 0 | 365 | 158 | 0 | 364 | 604 | 0 | 1276 | 572 | 0 | 1270 |
| V/C Ratio(X) | 0.27 | 0.00 | 0.73 | 0.26 | 0.00 | 0.65 | 0.12 | 0.00 | 0.41 | 0.29 | 0.00 | 0.38 |
| Avail Cap(c_a), veh/h | 296 | 0 | 539 | 271 | 0 | 537 | 604 | 0 | 1276 | 572 | 0 | 1270 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 39.2 | 0.0 | 32.9 | 40.4 | 0.0 | 32.3 | 8.8 | 0.0 | 6.2 | 10.7 | 0.0 | 6.0 |
| Incr Delay (d2), s/veh | 0.8 | 0.0 | 2.8 | 0.9 | 0.0 | 2.0 | 0.4 | 0.0 | 1.0 | 1.3 | 0.0 | 0.9 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 5.5 | 0.0 | 0.0 | 0.0 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln Unsig. Movement Delay, s/veh | 1.0 | 0.0 | 0.0 | 0.9 | 0.0 | 4.7 | 0.7 | 0.0 | 3.8 | 1.7 | 0.0 | 3.1 |
| LnGrp Delay(d),s/veh | 40.0 | 0.0 | 35.7 | 41.3 | 0.0 | 34.2 | 9.2 | 0.0 | 7.2 | 12.0 | 0.0 | 6.9 |
| LnGrp LOS | 40.0 D | Α | 55.7 D | 41.3 D | Α | 34.2 C | 7.Z A | Α | 7.2 A | 12.0 B | Α | A |
| Approach Vol, veh/h | D | 314 | D | D | 278 | | /\ | 598 | /\ | D | 650 | 71 |
| Approach Delay, s/veh | | 36.3 | | | 35.3 | | | 7.4 | | | 8.2 | |
| Approach LOS | | D | | | D | | | A | | | Α | |
| | | | | 4 | | 4 | | | | | | |
| Timer - Assigned Phs | | 2 | | | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 66.2 | | 23.8 | | 66.2 | | 23.8 | | | | |
| Change Period (Y+Rc), s Max Green Setting (Gmax), s | | 4.5 52.5 | | 4.5 28.5 | | 4.5 52.5 | | 4.5 28.5 | | | | |
| Max Q Clear Time (g_c+l1), s | | 15.3 | | 17.2 | | 22.4 | | 18.2 | | | | |
| Green Ext Time (p_c), s | | 4.1 | | 1.3 | | 4.0 | | 1.1 | | | | |
| , , | | 7.1 | | 1.5 | | 4.0 | | 1.1 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 16.8 | | | | | | | | | |
| HCM 6th LOS | | | В | | | | | | | | | |

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|-------------------------------|-------|------|----------|-------------|-----------|------------|------|---|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | |
| Lane Configurations | | 7 | 4111 | | | ^ | | |
| Traffic Volume (veh/h) | 0 | 7 | 598 | 37 | 0 | 869 | | |
| Future Volume (Veh/h) | 0 | 7 | 598 | 37 | 0 | 869 | | |
| Sign Control | Stop | | Free | | | Free | | |
| Grade | 0% | | 0% | | | 0% | | |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | | |
| Hourly flow rate (vph) | 0 | 8 | 650 | 40 | 0 | 945 | | |
| Pedestrians | | | | | | | | |
| Lane Width (ft) | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | |
| Percent Blockage | | | | | | | | |
| Right turn flare (veh) | | | | | | | | |
| Median type | | | None | | | None | | |
| Median storage veh) | | | | | | | | |
| Upstream signal (ft) | | | | | | 270 | | |
| pX, platoon unblocked | 0.88 | | | | | | | |
| vC, conflicting volume | 1142 | 182 | | | 690 | | | |
| vC1, stage 1 conf vol | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | |
| vCu, unblocked vol | 878 | 182 | | | 690 | | | |
| tC, single (s) | 6.8 | 6.9 | | | 4.1 | | | |
| tC, 2 stage (s) | | | | | | | | |
| tF (s) | 3.5 | 3.3 | | | 2.2 | | | |
| p0 queue free % | 100 | 99 | | | 100 | | | |
| cM capacity (veh/h) | 251 | 829 | | | 900 | | | |
| Direction, Lane # | WB 1 | NB 1 | NB 2 | NB 3 | NB 4 | SB 1 | SB 2 | |
| Volume Total | 8 | 186 | 186 | 186 | 133 | 472 | 472 | |
| Volume Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Volume Right | 8 | 0 | 0 | 0 | 40 | 0 | 0 | |
| cSH | 829 | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 | |
| Volume to Capacity | 0.01 | 0.11 | 0.11 | 0.11 | 0.08 | 0.28 | 0.28 | |
| Queue Length 95th (ft) | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Control Delay (s) | 9.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Lane LOS | А | | | | | | | |
| Approach Delay (s) | 9.4 | 0.0 | | | | 0.0 | | |
| Approach LOS | А | | | | | | | |
| Intersection Summary | | | | | | | | |
| Average Delay | | | 0.0 | | | | | |
| Intersection Capacity Utiliza | ation | | 27.4% | IC | U Level o | of Service | | Α |
| Analysis Period (min) | | | 15 | | 3.3. | | | |
| | | | 10 | | | | | |

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|---------------------------------|------|------------|-------|------|-------------|------------|------|------|-------------|----------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 44 | ∱ } | | J. | ↑ 1> | | | 4 | | * | ₽ | 7 |
| Traffic Volume (veh/h) | 7 | 415 | 30 | 32 | 411 | 7 | 37 | 4 | 23 | 38 | 6 | 38 |
| Future Volume (Veh/h) | 7 | 415 | 30 | 32 | 411 | 7 | 37 | 4 | 23 | 38 | 6 | 38 |
| Sign Control | | Free | | | Free | | | Stop | | | Stop | |
| Grade | | 0% | | | 0% | | | 0% | | | 0% | |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Hourly flow rate (vph) | 8 | 451 | 33 | 35 | 447 | 8 | 40 | 4 | 25 | 41 | 7 | 41 |
| Pedestrians | | | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | 5 |
| Median type | | None | | | None | | | | | | | |
| Median storage veh) | | | | | | | | | | | | |
| Upstream signal (ft) | | 791 | | | 679 | | | | | | | |
| pX, platoon unblocked | | | | | | | | | | | | |
| vC, conflicting volume | 455 | | | 484 | | | 780 | 1008 | 242 | 790 | 1021 | 228 |
| vC1, stage 1 conf vol | | | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 455 | | | 484 | | | 780 | 1008 | 242 | 790 | 1021 | 228 |
| tC, single (s) | 4.1 | | | 4.1 | | | 7.5 | 6.5 | 6.9 | 7.5 | 6.5 | 6.9 |
| tC, 2 stage (s) | | | | | | | | | | | | |
| tF (s) | 2.2 | | | 2.2 | | | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 |
| p0 queue free % | 99 | | | 97 | | | 84 | 98 | 97 | 84 | 97 | 95 |
| cM capacity (veh/h) | 1102 | | | 1075 | | | 256 | 229 | 759 | 260 | 226 | 775 |
| Direction, Lane # | EB 1 | EB 2 | EB3 | EB 4 | WB 1 | WB 2 | WB 3 | NB 1 | SB 1 | SB 2 | | |
| Volume Total | 4 | 4 | 301 | 183 | 35 | 298 | 157 | 69 | 41 | 48 | | |
| Volume Left | 4 | 4 | 0 | 0 | 35 | 0 | 0 | 40 | 41 | 0 | | |
| Volume Right | 0 | 0 | 0 | 33 | 0 | 0 | 8 | 25 | 0 | 41 | | |
| cSH | 1102 | 1102 | 1700 | 1700 | 1075 | 1700 | 1700 | 334 | 260 | 908 | | |
| Volume to Capacity | 0.01 | 0.01 | 0.18 | 0.11 | 0.03 | 0.18 | 0.09 | 0.21 | 0.16 | 0.05 | | |
| Queue Length 95th (ft) | 1 | 1 | 0 | 0 | 3 | 0 | 0 | 19 | 14 | 4 | | |
| Control Delay (s) | 8.3 | 8.3 | 0.0 | 0.0 | 8.5 | 0.0 | 0.0 | 18.6 | 21.4 | 11.6 | | |
| Lane LOS | А | А | | | А | | | С | С | В | | |
| Approach Delay (s) | 0.1 | | | | 0.6 | | | 18.6 | 16.1 | | | |
| Approach LOS | | | | | | | | С | С | | | |
| Intersection Summary | | | | | | | | | | | | |
| Average Delay | | | 2.7 | | | | | | | | | |
| Intersection Capacity Utilizati | on | | 36.1% | IC | CU Level | of Service | | | А | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |

| Intersection | | | | | | | | | | | | |
|-------------------------------|--------|------------|-------|--------|------------|-------|--------|-------|------|---------|------|------|
| Int Delay, s/veh | 1.6 | | | | | | | | | | | |
| | EBL | EBT | EBR | \\/DI | WBT | WBR | NBL | NBT | NDD | SBL | SBT | SBR |
| Movement Lane Configurations | LDL | | LDK | WBL | | WDK | NBL | IND I | NBR | SBL | 361 | JOK |
| Traffic Vol, veh/h | 17 | 4 | 37 | 6 | 4 | 7 | 44 | 651 | 9 | 9 | 509 | 23 |
| Future Vol, veh/h | 17 | 0 | 37 | 6 | 0 | 7 | 44 | 651 | 9 | 9 | 509 | 23 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 200 | - | - | 225 | - | - |
| Veh in Median Storage | 2,# - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 18 | 0 | 40 | 7 | 0 | 8 | 48 | 708 | 10 | 10 | 553 | 25 |
| | | | | | | | | | | | | |
| Major/Minor | Minor2 | | 1 | Minor1 | | | Major1 | | Λ | /lajor2 | | |
| Conflicting Flow All | 1399 | 1400 | 566 | 1415 | 1407 | 713 | 578 | 0 | 0 | 718 | 0 | 0 |
| Stage 1 | 586 | 586 | - | 809 | 809 | - | - | - | - | - | - | - |
| Stage 2 | 813 | 814 | - | 606 | 598 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 118 | 140 | 524 | 115 | 139 | 432 | 996 | - | - | 883 | - | - |
| Stage 1 | 496 | 497 | - | 374 | 394 | - | - | - | - | - | - | - |
| Stage 2 | 372 | 391 | - | 484 | 491 | - | - | - | - | - | - | - |
| Platoon blocked, % | 444 | 400 | F0. | 101 | 101 | 100 | 00/ | - | - | 000 | - | - |
| Mov Cap-1 Maneuver | 111 | 132 | 524 | 101 | 131 | 432 | 996 | - | - | 883 | - | - |
| Mov Cap-2 Maneuver | 111 | 132 | - | 101 | 131 | - | - | - | - | - | - | - |
| Stage 1 | 472 | 492 372 | - | 356 | 375 486 | - | - | - | - | - | - | - |
| Stage 2 | 348 | 3/2 | - | 442 | 400 | - | - | - | - | - | - | - |
| | | | | 14.5 | | | | | | 0.5 | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Control Delay, s | 24.7 | | | 27.8 | | | 0.5 | | | 0.2 | | |
| HCM LOS | С | | | D | | | | | | | | |
| | | NE | NIDT | NDD | EDL 4: | NDL 1 | 051 | CDT | 000 | | | |
| Minor Lane/Major Mvn | nt | NBL | NBT | NBR | EBLn1V | | SBL | SBT | SBR | | | |
| Capacity (veh/h) | | 996 | - | - | 241 | 172 | 883 | - | - | | | |
| HCM Lane V/C Ratio | | 0.048 | - | - | | 0.082 | | - | - | | | |
| HCM Control Delay (s) | | 8.8 | - | - | 24.7 | 27.8 | 9.1 | - | - | | | |
| HCM Lane LOS | | Α | - | - | С | D | Α | - | - | | | |
| HCM 95th %tile Q(veh | ١ | 0.2 | | _ | 0.9 | 0.3 | 0 | | _ | | | |

| Intersection | | | | | | | | | | | | |
|---------------------------|--------|-------|-------|--------|----------------|-----------|-----------|----------|------|--------|----------------|------|
| Int Delay, s/veh | 0.7 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 4 | | ሻ | (î | | ች | f) | | ሻ | (Î | |
| Traffic Vol, veh/h | 4 | 0 | 5 | 12 | 0 | 7 | 7 | 680 | 20 | 13 | 533 | 6 |
| Future Vol, veh/h | 4 | 0 | 5 | 12 | 0 | 7 | 7 | 680 | 20 | 13 | 533 | 6 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | 0 | - | - | 225 | - | - | 200 | - | - |
| Veh in Median Storage | ≘,# - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 4 | 0 | 5 | 13 | 0 | 8 | 8 | 739 | 22 | 14 | 579 | 7 |
| | | | | | | | | | | | | |
| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | Λ | Major2 | | |
| Conflicting Flow All | 1381 | 1388 | 583 | 1379 | 1380 | 750 | 586 | 0 | 0 | 761 | 0 | 0 |
| Stage 1 | 611 | 611 | - | 766 | 766 | - | - | - | - | - | - | - |
| Stage 2 | 770 | 777 | - | 613 | 614 | _ | _ | _ | _ | _ | _ | _ |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | _ | _ | 4.12 | _ | _ |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | | - | _ | _ | - | _ | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | _ | - | _ | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 121 | 143 | 512 | 122 | 144 | 411 | 989 | - | - | 851 | - | - |
| Stage 1 | 481 | 484 | - | 395 | 412 | - | - | - | - | - | - | - |
| Stage 2 | 393 | 407 | - | 480 | 483 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 117 | 140 | 512 | 118 | 141 | 411 | 989 | - | - | 851 | - | - |
| Mov Cap-2 Maneuver | 117 | 140 | - | 118 | 141 | - | - | - | - | - | - | - |
| Stage 1 | 477 | 476 | - | 392 | 409 | - | - | - | - | - | - | - |
| Stage 2 | 383 | 404 | - | 467 | 475 | - | - | - | - | - | - | - |
| Ŭ | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Control Delay, s | | | | 29.9 | | | 0.1 | | | 0.2 | | |
| HCM LOS | C | | | D | | | | | | J.L | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvn | nt | NBL | NBT | NBR | FBI n1\ | VBLn1V | VBI n2 | SBL | SBT | SBR | | |
| Capacity (veh/h) | | 989 | - | | 205 | 118 | 411 | 851 | - | - | | |
| HCM Lane V/C Ratio | | 0.008 | - | | 0.048 | | 0.019 | | | | | |
| HCM Control Delay (s |) | 8.7 | - | - | 23.4 | 39.3 | 13.9 | 9.3 | - | | | |
| HCM Lane LOS | | Α | | | 23.4 C | 37.3 E | 13.9 B | 7.3 A | _ | _ | | |
| HCM 95th %tile Q(veh | 1) | 0 | - | - | 0.1 | 0.4 | 0.1 | 0.1 | - | _ | | |
| 1101VI 75111 70111E Q(VEI | 1) | U | | | U. I | 0.4 | U. I | U. I | | | | |

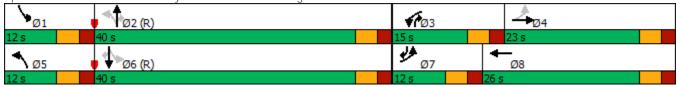
| | * | \$ | * | * | / | <₫ | • | 4 | |
|--------------------------|------------|-----------|----------|------------|----------|-------|-------|-------|----|
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Movement | NBL | SBTL | EBL | WBTL | SBL | NBTL | WBL | EBTL | |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag | |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Recall Mode | None | Max | None | None | None | Max | None | None | |
| Maximum Split (s) | 15 | 36.4 | 15 | 23.6 | 15 | 36.4 | 15 | 23.6 | |
| Maximum Split (%) | 16.7% | 40.4% | 16.7% | 26.2% | 16.7% | 40.4% | 16.7% | 26.2% | |
| Minimum Split (s) | 15 | 26.7 | 15 | 23.6 | 15 | 26.4 | 15 | 23 | |
| Yellow Time (s) | 3 | 4.7 | 3 | 3.6 | 3 | 4.4 | 3 | 3.6 | |
| All-Red Time (s) | 1.8 | 1 | 1.4 | 1 | 1.8 | 1 | 1.4 | 1 | |
| Minimum Initial (s) | 10 | 20 | 10 | 15 | 10 | 20 | 10 | 15 | |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Walk Time (s) | | | | 7 | | 7 | | | |
| Flash Dont Walk (s) | | | | 11 | | 11 | | | |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes | |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Start Time (s) | 0 | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | |
| End Time (s) | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | 0 | |
| Yield/Force Off (s) | 10.2 | 45.7 | 62 | 85.4 | 10.2 | 46 | 62 | 85.4 | |
| Yield/Force Off 170(s) | 10.2 | 45.7 | 62 | 74.4 | 10.2 | 35 | 62 | 85.4 | |
| Local Start Time (s) | 75 | 0 | 36.4 | 51.4 | 75 | 0 | 36.4 | 51.4 | |
| Local Yield (s) | 85.2 | 30.7 | 47 | 70.4 | 85.2 | 31 | 47 | 70.4 | |
| Local Yield 170(s) | 85.2 | 30.7 | 47 | 59.4 | 85.2 | 20 | 47 | 70.4 | |
| Intersection Summary | | | | | | | | | |
| Cycle Length | | | 90 | | | | | | |
| Control Type | Actuate | ed-Uncoo | | | | | | | |
| Natural Cycle | | | 85 | | | | | | |
| Splits and Phases: 3: Ne | w Albany-C | Condit Ro | ad & Cen | tral Colle | ge Road | | | | |
| \$ 01 | Ø2 | | | | | 1 | Ø3 | | • |
| 15 s 36. | | | | | | 15 s | כש | | 2: |
| | * | | | | | 203 | | | • |

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|------------------------------|-------|----------|-------|------|----------|-------|-------|-----------|----------|----------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | ^ | 7 | ሻ | ħβ | | Ť | €Î | | 7 | † | 7 |
| Traffic Volume (veh/h) | 39 | 150 | 136 | 89 | 300 | 125 | 148 | 400 | 29 | 84 | 355 | 39 |
| Future Volume (veh/h) | 39 | 150 | 136 | 89 | 300 | 125 | 148 | 400 | 29 | 84 | 355 | 39 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 42 | 163 | 148 | 97 | 326 | 136 | 161 | 435 | 32 | 91 | 386 | 42 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 300 | 334 | 468 | 383 | 519 | 212 | 486 | 649 | 48 | 427 | 684 | 698 |
| Arrive On Green | 0.07 | 0.18 | 0.18 | 0.11 | 0.21 | 0.21 | 0.12 | 0.38 | 0.38 | 0.10 | 0.37 | 0.37 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1781 | 2460 | 1006 | 1781 | 1721 | 127 | 1781 | 1870 | 1585 |
| Grp Volume(v), veh/h | 42 | 163 | 148 | 97 | 234 | 228 | 161 | 0 | 467 | 91 | 386 | 42 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1870 | 1585 | 1781 | 1777 | 1689 | 1781 | 0 | 1848 | 1781 | 1870 | 1585 |
| Q Serve(g_s), s | 1.5 | 6.6 | 6.1 | 3.4 | 10.0 | 10.3 | 4.3 | 0.0 | 17.7 | 2.4 | 13.8 | 1.3 |
| Cycle Q Clear(g_c), s | 1.5 | 6.6 | 6.1 | 3.4 | 10.0 | 10.3 | 4.3 | 0.0 | 17.7 | 2.4 | 13.8 | 1.3 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.60 | 1.00 | | 0.07 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 300 | 334 | 468 | 383 | 375 | 357 | 486 | 0 | 697 | 427 | 684 | 698 |
| V/C Ratio(X) | 0.14 | 0.49 | 0.32 | 0.25 | 0.62 | 0.64 | 0.33 | 0.00 | 0.67 | 0.21 | 0.56 | 0.06 |
| Avail Cap(c_a), veh/h | 392 | 423 | 543 | 418 | 402 | 382 | 495 | 0 | 697 | 457 | 684 | 698 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 24.3 | 31.0 | 23.0 | 22.7 | 30.1 | 30.2 | 13.7 | 0.0 | 21.8 | 14.2 | 21.3 | 13.5 |
| Incr Delay (d2), s/veh | 0.2 | 1.1 | 0.4 | 0.3 | 2.7 | 3.2 | 0.4 | 0.0 | 5.1 | 0.2 | 3.3 | 0.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.6 | 3.0 | 2.2 | 1.4 | 4.3 | 4.2 | 1.6 | 0.0 | 7.8 | 0.8 | 6.0 | 0.5 |
| Unsig. Movement Delay, s/veh | | 0.0 | 2.2 | | 110 | | 110 | 0.0 | 7.10 | 0.0 | 0.0 | 0.0 |
| LnGrp Delay(d),s/veh | 24.5 | 32.1 | 23.4 | 23.1 | 32.8 | 33.4 | 14.1 | 0.0 | 26.8 | 14.5 | 24.6 | 13.7 |
| LnGrp LOS | C | C | C | C | C | С | В | A | C | В | C | В |
| Approach Vol, veh/h | | 353 | | | 559 | | | 628 | | | 519 | |
| Approach Delay, s/veh | | 27.5 | | | 31.4 | | | 23.6 | | | 22.0 | |
| Approach LOS | | C C | | | C C | | | 23.0 C | | | C C | |
| | | | | | | | | | | | C | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 14.6 | 36.4 | 10.6 | 22.3 | 13.6 | 37.4 | 13.4 | 19.6 | | | | |
| Change Period (Y+Rc), s | * 4.8 | 5.7 | * 4.4 | 4.6 | * 4.8 | * 5.7 | * 4.4 | 4.6 | | | | |
| Max Green Setting (Gmax), s | * 10 | 30.7 | * 11 | 19.0 | * 10 | * 31 | * 11 | 19.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 6.3 | 15.8 | 3.5 | 12.3 | 4.4 | 19.7 | 5.4 | 8.6 | | | | |
| Green Ext Time (p_c), s | 0.1 | 1.9 | 0.0 | 1.4 | 0.1 | 2.0 | 0.1 | 1.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 26.0 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |
| Notes | | | | | | | | | | | | |

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

| | > | ₫ | 40 | * | 4 | \$⊳ | * | ← | |
|-----------------------------|-------------|----------|----------|-----------|----------|-------|-------|----------|--|
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Movement | SBL | NBTL | WBL | EBTL | NBL | SBTL | EBL | WBT | |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag | |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Recall Mode | None | C-Max | None | None | None | C-Max | None | None | |
| Maximum Split (s) | 12 | 40 | 15 | 23 | 12 | 40 | 12 | 26 | |
| Maximum Split (%) | 13.3% | 44.4% | 16.7% | 25.6% | 13.3% | 44.4% | 13.3% | 28.9% | |
| Minimum Split (s) | 12 | 23 | 12 | 23 | 12 | 23 | 12 | 23 | |
| Yellow Time (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| All-Red Time (s) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Minimum Initial (s) | 7 | 10 | 7 | 10 | 7 | 10 | 7 | 10 | |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Walk Time (s) | | 7 | | 7 | | 7 | | 7 | |
| Flash Dont Walk (s) | | 11 | | 11 | | 11 | | 11 | |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes | |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Start Time (s) | 0 | 12 | 52 | 67 | 0 | 12 | 52 | 64 | |
| End Time (s) | 12 | 52 | 67 | 0 | 12 | 52 | 64 | 0 | |
| Yield/Force Off (s) | 7 | 47 | 62 | 85 | 7 | 47 | 59 | 85 | |
| Yield/Force Off 170(s) | 7 | 36 | 62 | 74 | 7 | 36 | 59 | 74 | |
| Local Start Time (s) | 78 | 0 | 40 | 55 | 78 | 0 | 40 | 52 | |
| Local Yield (s) | 85 | 35 | 50 | 73 | 85 | 35 | 47 | 73 | |
| Local Yield 170(s) | 85 | 24 | 50 | 62 | 85 | 24 | 47 | 62 | |
| Intersection Summary | | | | | | | | | |
| Cycle Length | | | 90 | | | | | | |
| Control Type | Actu | ated-Coo | rdinated | | | | | | |
| Natural Cycle | | | 70 | | | | | | |
| Offset: 12 (13%), Reference | ed to phase | e 2:NBTL | and 6:SB | TL, Start | of Green | | | | |
| | | | | | | | | | |

Splits and Phases: 6: New Albany Road E & Central College Road



| | ۶ | → | • | • | ← | • | 1 | † | ~ | / | + | ✓ |
|------------------------------------|-------------|-------------|-------------|-------------|-------------|---------------------|-------------|--------------|-------------|-------------|--------------|-------------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ሻ | ∱ ∱ | | ሻሻ | ተ ኈ | | ሻ | ^ | 7 | ሻ | ^ | 7 |
| Traffic Volume (veh/h) | 121 | 225 | 16 | 192 | 185 | 62 | 28 | 800 | 179 | 50 | 596 | 54 |
| Future Volume (veh/h) | 121 | 225 | 16 | 192 | 185 | 62 | 28 | 800 | 179 | 50 | 596 | 54 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 132 | 245 | 17 | 209 | 201 | 67 | 30 | 870 | 195 | 54 | 648 | 59 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 264 | 375 | 26 | 286 | 306 | 99 | 480 | 1870 | 965 | 380 | 1929 | 984 |
| Arrive On Green | 0.08 | 0.11 | 0.11 | 0.08 | 0.12 | 0.12 | 0.04 | 0.53 | 0.53 | 0.06 | 0.54 | 0.54 |
| Sat Flow, veh/h | 1781 | 3373 | 233 | 3456 | 2639 | 854 | 1781 | 3554 | 1585 | 1781 | 3554 | 1585 |
| Grp Volume(v), veh/h | 132 | 128 | 134 | 209 | 133 | 135 | 30 | 870 | 195 | 54 | 648 | 59 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1777 | 1828 | 1728 | 1777 | 1717 | 1781 | 1777 | 1585 | 1781 | 1777 | 1585 |
| Q Serve(g_s), s | 5.8 | 6.2 | 6.3 | 5.3 | 6.5 | 6.8 | 0.7 | 13.8 | 4.9 | 1.2 | 9.2 | 1.3 |
| Cycle Q Clear(g_c), s | 5.8 | 6.2 | 6.3 | 5.3 | 6.5 | 6.8 | 0.7 | 13.8 | 4.9 | 1.2 | 9.2 | 1.3 |
| Prop In Lane | 1.00 | 107 | 0.13 | 1.00 | 207 | 0.50 | 1.00 | 1070 | 1.00 | 1.00 | 1000 | 1.00 984 |
| Lane Grp Cap(c), veh/h | 264 0.50 | 197 0.65 | 203 0.66 | 286 0.73 | 206 0.65 | 1 99 0.68 | 480 | 1870 0.47 | 965 | 380 0.14 | 1929 0.34 | 0.06 |
| V/C Ratio(X) Avail Cap(c_a), veh/h | 264 | 355 | 366 | 384 | 415 | 401 | 0.06 545 | 1870 | 0.20 965 | 416 | 1929 | 984 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 32.2 | 38.3 | 38.4 | 40.3 | 38.0 | 38.2 | 8.9 | 13.4 | 7.8 | 9.2 | 11.5 | 6.7 |
| Incr Delay (d2), s/veh | 1.5 | 3.6 | 3.6 | 4.7 | 3.4 | 4.0 | 0.7 | 0.8 | 0.5 | 0.2 | 0.5 | 0.7 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.5 | 2.8 | 3.0 | 2.4 | 2.9 | 3.0 | 0.2 | 5.3 | 1.6 | 0.4 | 3.4 | 0.4 |
| Unsig. Movement Delay, s/veh | | 2.0 | 3.0 | 2.7 | 2.7 | 5.0 | 0.2 | 0.0 | 1.0 | 0.1 | 5.4 | 0.4 |
| LnGrp Delay(d),s/veh | 33.7 | 41.9 | 42.0 | 45.0 | 41.4 | 42.1 | 9.0 | 14.2 | 8.3 | 9.4 | 12.0 | 6.8 |
| LnGrp LOS | C | D | D | D | D | D | A | В | A | A | В | A |
| Approach Vol, veh/h | | 394 | | | 477 | | <u> </u> | 1095 | | , , | 761 | |
| Approach Delay, s/veh | | 39.2 | | | 43.2 | | | 13.0 | | | 11.4 | |
| Approach LOS | | D | | | D | | | В | | | В | |
| | 1 | | 2 | 4 | | / | 7 | | | | | |
| Timer - Assigned Phs | 10.0 | 2 | 3 | 4 | 5 | 6 | 10.0 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 10.2 | 52.4 | 12.4 | 15.0 | 8.7 | 53.9 | 12.0 | 15.4 | | | | |
| Change Period (Y+Rc), s | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | | | | |
| Max Green Setting (Gmax), s | 7.0 | 35.0 | 10.0 | 18.0 | 7.0 | 35.0 | 7.0 | 21.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 3.2 | 15.8 | 7.3 | 8.3 | 2.7 | 11.2 | 7.8 | 8.8 | | | | |
| Green Ext Time (p_c), s | 0.0 | 6.6 | 0.2 | 0.9 | 0.0 | 4.7 | 0.0 | 1.1 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 21.6 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |

Timing Report, Sorted By Phase 8: Walton Parkway/EMH&T Driveway & New Albany Road E

| | 4 | - ≪† | * | 4 |
|--------------------------------|------------|-----------|----------|----------|
| Phase Number | 2 | 4 | 6 | 8 |
| Movement | EBTL | NBTL | WBTL | SBTL |
| Lead/Lag | | | | |
| Lead-Lag Optimize | | | | |
| Recall Mode | C-Max | Max | Max | Max |
| Maximum Split (s) | 64 | 26 | 64 | 26 |
| Maximum Split (%) | 71.1% | 28.9% | 71.1% | 28.9% |
| Minimum Split (s) | 23 | 23 | 23 | 23 |
| Yellow Time (s) | 3 | 3 | 3 | 3 |
| All-Red Time (s) | 2 | 2 | 2 | 2 |
| Minimum Initial (s) | 10 | 10 | 10 | 10 |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 | 0 |
| Walk Time (s) | 7 | 7 | 7 | 7 |
| Flash Dont Walk (s) | 11 | 11 | 11 | 11 |
| Dual Entry | Yes | Yes | Yes | Yes |
| | Yes | | Yes | |
| Inhibit Max | | Yes | | Yes |
| Start Time (s) | 0 | 64 | 0 | 64 |
| End Time (s) | 64 | 0 | 64 | 0 |
| Yield/Force Off (s) | 59 | 85 | 59 | 85 |
| Yield/Force Off 170(s) | 48 | 74 | 48 | 74 |
| Local Start Time (s) | 0 | 64 | 0 | 64 |
| Local Yield (s) | 59 | 85 | 59 | 85 |
| Local Yield 170(s) | 48 | 74 | 48 | 74 |
| Intersection Summary | | | | |
| Cycle Length | | | 90 | |
| Control Type | Actu | ated-Coo | | |
| Natural Cycle | , .510 | | 60 | |
| Offset: 0 (0%), Referenced t | to phase 2 | :EBTL, St | | een |
| 222.3 0 (070)/ 1 (0.0.010000) | p 2 | ,, 01 | | |
| Splits and Phases: 8: Wal | Iton Parkw | ay/EMH8 | T Drivew | ay & New |
| | | - ,, = 10 | | - , |
| Ø 2 (R) | | | | |
| 64 s | | | | |
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Synchro 11 Report HY AM No Build

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|------------------------------|------|------------|------|------|------------|------|------|------|------|----------|-----------|----------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ň | ∱ β | | 7 | ∱ ∱ | | Ţ | f) | | 7 | f) | |
| Traffic Volume (veh/h) | 63 | 968 | 350 | 37 | 582 | 22 | 103 | 20 | 25 | 2 | 0 | 2 |
| Future Volume (veh/h) | 63 | 968 | 350 | 37 | 582 | 22 | 103 | 20 | 25 | 2 | 0 | 2 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 68 | 1052 | 380 | 40 | 633 | 24 | 112 | 22 | 27 | 2 | 0 | 2 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 530 | 1683 | 600 | 233 | 2289 | 87 | 409 | 178 | 219 | 366 | 0 | 370 |
| Arrive On Green | 0.66 | 0.66 | 0.66 | 0.66 | 0.66 | 0.66 | 0.23 | 0.23 | 0.23 | 0.23 | 0.00 | 0.23 |
| Sat Flow, veh/h | 777 | 2568 | 915 | 374 | 3491 | 132 | 1415 | 764 | 938 | 1356 | 0 | 1585 |
| Grp Volume(v), veh/h | 68 | 724 | 708 | 40 | 322 | 335 | 112 | 0 | 49 | 2 | 0 | 2 |
| Grp Sat Flow(s), veh/h/ln | 777 | 1777 | 1706 | 374 | 1777 | 1847 | 1415 | 0 | 1702 | 1356 | 0 | 1585 |
| Q Serve(g_s), s | 3.6 | 21.3 | 22.0 | 6.4 | 6.9 | 6.9 | 5.9 | 0.0 | 2.0 | 0.1 | 0.0 | 0.1 |
| Cycle Q Clear(g_c), s | 10.5 | 21.3 | 22.0 | 28.4 | 6.9 | 6.9 | 6.0 | 0.0 | 2.0 | 2.2 | 0.0 | 0.1 |
| Prop In Lane | 1.00 | | 0.54 | 1.00 | | 0.07 | 1.00 | | 0.55 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 530 | 1165 | 1118 | 233 | 1165 | 1211 | 409 | 0 | 397 | 366 | 0 | 370 |
| V/C Ratio(X) | 0.13 | 0.62 | 0.63 | 0.17 | 0.28 | 0.28 | 0.27 | 0.00 | 0.12 | 0.01 | 0.00 | 0.01 |
| Avail Cap(c_a), veh/h | 530 | 1165 | 1118 | 233 | 1165 | 1211 | 409 | 0 | 397 | 366 | 0 | 370 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 8.7 | 9.0 | 9.1 | 17.5 | 6.5 | 6.5 | 28.8 | 0.0 | 27.2 | 28.1 | 0.0 | 26.5 |
| Incr Delay (d2), s/veh | 0.5 | 2.5 | 2.7 | 1.6 | 0.6 | 0.6 | 1.7 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.6 | 7.5 | 7.5 | 0.6 | 2.3 | 2.4 | 2.1 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 |
| Unsig. Movement Delay, s/veh | 0.2 | 11 Г | 11 0 | 10.1 | 7 1 | 7 1 | 20.4 | 0.0 | 27.0 | 20.1 | 0.0 | 2/ 5 |
| LnGrp Delay(d),s/veh | 9.2 | 11.5 B | 11.9 | 19.1 | 7.1 | 7.1 | 30.4 | 0.0 | 27.9 | 28.1 | 0.0 | 26.5 |
| LnGrp LOS | A | | В | В | A (07 | A | С | A | С | С | A | <u>C</u> |
| Approach Vol, veh/h | | 1500 | | | 697 | | | 161 | | | 4 | |
| Approach LOS | | 11.6 | | | 7.8 | | | 29.7 | | | 27.3 C | |
| Approach LOS | | В | | | А | | | С | | | C | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 64.0 | | 26.0 | | 64.0 | | 26.0 | | | | |
| Change Period (Y+Rc), s | | 5.0 | | 5.0 | | 5.0 | | 5.0 | | | | |
| Max Green Setting (Gmax), s | | 59.0 | | 21.0 | | 59.0 | | 21.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 24.0 | | 8.0 | | 30.4 | | 4.2 | | | | |
| Green Ext Time (p_c), s | | 14.2 | | 0.4 | | 5.0 | | 0.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 11.7 | | | | | | | | | |
| HCM 6th LOS | | | В | | | | | | | | | |

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|----------------------------|-------------|----------|------------|------------|
| Phase Number | 2 | 4 | 6 | 8 |
| Movement | NBTL | EBTL | SBTL | WBTL |
| Lead/Lag | NUIL | LUIL | JUIL | , V D I L |
| Lead-Lag Optimize | | | | |
| Recall Mode | C-Max | None | C-Max | None |
| Maximum Split (s) | 63 | 27 | 63 | 27 |
| Maximum Split (%) | 70.0% | 30.0% | 70.0% | 30.0% |
| Minimum Split (s) | 22.5 | 22.5 | 22.5 | 22.5 |
| Yellow Time (s) | 3.5 | 3.5 | 3.5 | 3.5 |
| All-Red Time (s) | 1 | 1 | 1 | 1 |
| Minimum Initial (s) | 5 | 5 | 5 | 5 |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 | 0 |
| Walk Time (s) | 7 | 7 | 7 | 7 |
| Flash Dont Walk (s) | 11 | 11 | 11 | 11 |
| Dual Entry | Yes | Yes | Yes | Yes |
| Inhibit Max | Yes | Yes | Yes | Yes |
| Start Time (s) | 0 | 63 | 0 | 63 |
| End Time (s) | 63 | 0 | 63 | 0 |
| Yield/Force Off (s) | 58.5 | 85.5 | 58.5 | 85.5 |
| Yield/Force Off 170(s) | 47.5 | 74.5 | 47.5 | 74.5 |
| Local Start Time (s) | 0 | 63 | 0 | 63 |
| Local Yield (s) | 58.5 | 85.5 | 58.5 | 85.5 |
| Local Yield 170(s) | 47.5 | 74.5 | 47.5 | 74.5 |
| Intersection Summary | | | | |
| Cycle Length | | | 90 | |
| Control Type | Actua | ated-Coo | | |
| Natural Cycle | | | 60 | |
| Offset: 0 (0%), Referenced | to phase 2: | :NBTL an | d 6:SBTL | , Start of |
| Splits and Phases: 12: No | ew Albany- | Condit D | nad 8. Ma | Itan Dark |
| Spins and Phases: 12: No | ew Albally- | CUHUIL K | uau & VVa | iilon Palk |
| √T ø2 (R) | | | | |
| 63 s | | | | |
| A mar ma | | | | |
| ∮ Ø6 (R) | | | | |

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|--------------------------------------|-------------|----------|------|------|----------|------|----------|----------|------|----------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | ₽ | | ሻ | ĵ∍ | | ሻ | ₽ | | 7 | ₽ | |
| Traffic Volume (veh/h) | 11 | 112 | 151 | 24 | 98 | 171 | 177 | 392 | 50 | 136 | 553 | 66 |
| Future Volume (veh/h) | 11 | 112 | 151 | 24 | 98 | 171 | 177 | 392 | 50 | 136 | 553 | 66 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 12 | 122 | 164 | 26 | 107 | 186 | 192 | 426 | 54 | 148 | 601 | 72 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 130 | 154 | 207 | 138 | 130 | 226 | 468 | 1119 | 142 | 608 | 1127 | 135 |
| Arrive On Green | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 |
| Sat Flow, veh/h | 1086 | 723 | 972 | 1093 | 613 | 1066 | 765 | 1627 | 206 | 915 | 1639 | 196 |
| Grp Volume(v), veh/h | 12 | 0 | 286 | 26 | 0 | 293 | 192 | 0 | 480 | 148 | 0 | 673 |
| Grp Sat Flow(s), veh/h/ln | 1086 | 0 | 1695 | 1093 | 0 | 1679 | 765 | 0 | 1833 | 915 | 0 | 1835 |
| Q Serve(g_s), s | 1.0 | 0.0 | 14.4 | 2.1 | 0.0 | 15.0 | 14.9 | 0.0 | 10.0 | 7.4 | 0.0 | 16.3 |
| Cycle Q Clear(g_c), s | 15.9 | 0.0 | 14.4 | 16.5 | 0.0 | 15.0 | 31.2 | 0.0 | 10.0 | 17.3 | 0.0 | 16.3 |
| Prop In Lane | 1.00 | 0 | 0.57 | 1.00 | 0 | 0.63 | 1.00 | 0 | 0.11 | 1.00 | 0 | 0.11 |
| Lane Grp Cap(c), veh/h | 130 | 0 | 360 | 138 | 0 | 357 | 468 | 0 | 1260 | 608 | 0 | 1262 |
| V/C Ratio(X) | 0.09 | 0.00 | 0.79 | 0.19 | 0.00 | 0.82 | 0.41 | 0.00 | 0.38 | 0.24 | 0.00 | 0.53 |
| Avail Cap(c_a), veh/h | 171 1.00 | 1.00 | 424 | 179 | 1.00 | 420 | 468 | 1.00 | 1260 | 608 | 1.00 | 1262 |
| HCM Platoon Ratio Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 41.4 | 0.00 | 33.6 | 41.4 | 0.00 | 33.8 | 14.6 | 0.00 | 6.0 | 9.6 | 0.00 | 6.9 |
| Incr Delay (d2), s/veh | 0.3 | 0.0 | 8.6 | 0.7 | 0.0 | 10.8 | 2.7 | 0.0 | 0.0 | 1.0 | 0.0 | 1.6 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 0.0 | 6.6 | 0.6 | 0.0 | 7.0 | 2.7 | 0.0 | 3.4 | 1.4 | 0.0 | 5.1 |
| Unsig. Movement Delay, s/veh | | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | ۷.1 | 0.0 | 3.4 | 1.4 | 0.0 | J. I |
| LnGrp Delay(d),s/veh | 41.7 | 0.0 | 42.2 | 42.0 | 0.0 | 44.6 | 17.3 | 0.0 | 6.8 | 10.6 | 0.0 | 8.6 |
| LnGrp LOS | D | Α | D | D | Α | D | В | Α | Α | В | Α | Α |
| Approach Vol, veh/h | | 298 | | | 319 | | <u> </u> | 672 | 7. | | 821 | 7.0 |
| Approach Delay, s/veh | | 42.2 | | | 44.4 | | | 9.8 | | | 8.9 | |
| Approach LOS | | D | | | D | | | Α. | | | Α | |
| | | 0 | | | D | , | | | | | / \ | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 66.4 | | 23.6 | | 66.4 | | 23.6 | | | | |
| Change Period (Y+Rc), s | | 4.5 | | 4.5 | | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | | 58.5 | | 22.5 | | 58.5 | | 22.5 | | | | |
| Max Q Clear Time (g_c+I1), s | | 33.2 | | 17.9 | | 19.3 | | 18.5 | | | | |
| Green Ext Time (p_c), s | | 4.7 | | 0.7 | | 5.8 | | 0.7 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 19.3 | | | | | | | | | |
| HCM 6th LOS | | | В | | | | | | | | | |

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|---------------------------------|------|----------|------------|------|----------|------------|------|------|------|--|
| Movement | EBL | EBT | WBT | WBR | SBL | SBR | | | | |
| Lane Configurations | 1/1 | ^ | ∱ } | | ሻ | 77 | | | | |
| Traffic Volume (veh/h) | 37 | 353 | 426 | 37 | 6 | 6 | | | | |
| Future Volume (Veh/h) | 37 | 353 | 426 | 37 | 6 | 6 | | | | |
| Sign Control | | Free | Free | | Stop | | | | | |
| Grade | | 0% | 0% | | 0% | | | | | |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | | | | |
| Hourly flow rate (vph) | 40 | 384 | 463 | 40 | 7 | 7 | | | | |
| Pedestrians | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | |
| Median type | | None | None | | | | | | | |
| Median storage veh) | | | | | | | | | | |
| Upstream signal (ft) | | 791 | 679 | | | | | | | |
| pX, platoon unblocked | 0.97 | | | | 0.97 | 0.97 | | | | |
| vC, conflicting volume | 503 | | | | 755 | 252 | | | | |
| vC1, stage 1 conf vol | 000 | | | | , 00 | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | |
| vCu, unblocked vol | 414 | | | | 675 | 153 | | | | |
| tC, single (s) | 4.1 | | | | 6.8 | 6.9 | | | | |
| tC, 2 stage (s) | | | | | 0.0 | 0.7 | | | | |
| tF (s) | 2.2 | | | | 3.5 | 3.3 | | | | |
| p0 queue free % | 96 | | | | 98 | 99 | | | | |
| cM capacity (veh/h) | 1102 | | | | 361 | 836 | | | | |
| Direction, Lane # | EB 1 | EB 2 | EB 3 | EB 4 | WB 1 | WB 2 | SB 1 | SB 2 | SB 3 | |
| Volume Total | | | | | | | | | | |
| | 20 | 20 | 192 | 192 | 309 | 194 | 7 | 4 | 4 | |
| Volume Left | | 20 | 0 | 0 | 0 | 0 | | 0 | 0 | |
| Volume Right | 1100 | 1100 | 1700 | 1700 | 1700 | 40 | 0 | 4 | 4 | |
| CSH Valuma to Canacity | 1102 | 1102 | 1700 | 1700 | 1700 | 1700 | 361 | 836 | 836 | |
| Volume to Capacity | 0.04 | 0.04 | 0.11 | 0.11 | 0.18 | 0.11 | 0.02 | 0.00 | 0.00 | |
| Queue Length 95th (ft) | 3 | 3 | 0 | 0 | 0 | 0 | 15.0 | 0 | 0 | |
| Control Delay (s) | 8.4 | 8.4 | 0.0 | 0.0 | 0.0 | 0.0 | 15.2 | 9.3 | 9.3 | |
| Lane LOS | A | А | | | 0.0 | | C | А | А | |
| Approach Delay (s) | 0.8 | | | | 0.0 | | 12.3 | | | |
| Approach LOS | | | | | | | В | | | |
| Intersection Summary | | | | | | | | | | |
| Average Delay | | | 0.5 | | | | | | | |
| Intersection Capacity Utilizati | on | | 25.8% | IC | CU Level | of Service | | | А | |
| Analysis Period (min) | | | 15 | | | | | | | |

| Intersection | | | | | | |
|---|--------------------------------------|-------|----------------------------|---|------------------------|-----------------------------------|
| Int Delay, s/veh | 0.6 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| | | WBK | | NBK | SBL | |
| Lane Configurations | ¥ | 11 | - - - - - - - - - - | 7 | 2 | ्र र्स |
| Traffic Vol, veh/h | 19 | 11 | 569 | 7 | 3 | 665 |
| Future Vol, veh/h | 19 | 11 | 569 | 7 | 3 | 665 |
| Conflicting Peds, #/hr | | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storag | e, # 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 21 | 12 | 618 | 8 | 3 | 723 |
| 1010 | | 12 | 010 | U | U | 720 |
| | | | | | | |
| | Minor1 | | Major1 | | Major2 | |
| Conflicting Flow All | 1351 | 622 | 0 | 0 | 626 | 0 |
| Stage 1 | 622 | - | - | - | - | - |
| Stage 2 | 729 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | _ | _ | - | _ |
| Critical Hdwy Stg 2 | 5.42 | _ | _ | _ | _ | _ |
| Follow-up Hdwy | | 3.318 | _ | _ | 2.218 | _ |
| Pot Cap-1 Maneuver | 166 | 487 | _ | - | 956 | _ |
| | 535 | | - | - | 900 | - |
| Stage 1 | | - | - | - | - | - |
| Stage 2 | 477 | - | _ | _ | - | _ |
| Platoon blocked, % | | | | | | |
| | | | - | - | | - |
| Mov Cap-1 Maneuver | | 487 | - | - | 956 | - |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver | 165 | 487 | - - - | - | 956 - | - |
| Mov Cap-1 Maneuver | | | - - - | - - - | | - |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 | 165 | - | - | - | - | - - - |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver | 165 535 | - | - - - - | - | - | - - - |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 | 165 535 475 | - | - | - | - - - | - - - |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 | 165 535 475 WB | - | - - NB | - | - - - SB | - - - |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s | 165 535 475 WB | - | - | - | - - - | - - - |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 | 165 535 475 WB | - | - - NB | - | - - - SB | - - - |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s | 165 535 475 WB | - | - - NB | | - - - SB | - - - |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS | 165 535 475 WB 24.4 C | | - - NB 0 | | - - - SB 0 | - |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvr | 165 535 475 WB 24.4 C | - | - - NB 0 | VBLn1 | SB 0 | - - - |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvi Capacity (veh/h) | 165 535 475 WB 24.4 C | | NB 0 | - - - - - - - - - - - - - - - - - - - | SB 0 | - - - - - - SBT |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvr Capacity (veh/h) HCM Lane V/C Ratio | 165 535 475 WB 24.4 C | | - - NB 0 | VBLn1 218 0.15 | SB 0 SBL 956 0.003 | - - - - - - SBT |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvr Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s | 165 535 475 WB 24.4 C | NBT - | NB 0 NBR\ - | VBLn1 218 0.15 24.4 | SB 0 SBL 956 0.003 8.8 | SBT - 0 |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvr Capacity (veh/h) HCM Lane V/C Ratio | 165 535 475 WB 24.4 C | | NB 0 | VBLn1 218 0.15 | SB 0 SBL 956 0.003 | - - - - - - SBT |

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|--------------------------|------------|-----------|----------|------------|----------|-------|----------|-------|-----------------|
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Movement | NBL | SBTL | EBL | WBTL | SBL | NBTL | WBL | EBTL | |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag | |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Recall Mode | None | Max | None | None | None | Max | None | None | |
| Maximum Split (s) | 15 | 36.4 | 15 | 23.6 | 15 | 36.4 | 15 | 23.6 | |
| Maximum Split (%) | 16.7% | 40.4% | 16.7% | 26.2% | 16.7% | 40.4% | 16.7% | 26.2% | |
| Minimum Split (s) | 15 | 26.7 | 15 | 23.6 | 15 | 26.4 | 15 | 23 | |
| Yellow Time (s) | 3 | 4.7 | 3 | 3.6 | 3 | 4.4 | 3 | 3.6 | |
| All-Red Time (s) | 1.8 | 1 | 1.4 | 1 | 1.8 | 1 | 1.4 | 1 | |
| Minimum Initial (s) | 10 | 20 | 10 | 15 | 10 | 20 | 10 | 15 | |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Walk Time (s) | | | | 7 | | 7 | | | |
| Flash Dont Walk (s) | | | | 11 | | 11 | | | |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes | |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Start Time (s) | 0 | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | |
| End Time (s) | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | 0 | |
| Yield/Force Off (s) | 10.2 | 45.7 | 62 | 85.4 | 10.2 | 46 | 62 | 85.4 | |
| Yield/Force Off 170(s) | 10.2 | 45.7 | 62 | 74.4 | 10.2 | 35 | 62 | 85.4 | |
| Local Start Time (s) | 75 | 0 | 36.4 | 51.4 | 75 | 0 | 36.4 | 51.4 | |
| Local Yield (s) | 85.2 | 30.7 | 47 | 70.4 | 85.2 | 31 | 47 | 70.4 | |
| Local Yield 170(s) | 85.2 | 30.7 | 47 | 59.4 | 85.2 | 20 | 47 | 70.4 | |
| Intersection Summary | | | | | | | | | |
| Cycle Length | | | 90 | | | | | | |
| Control Type | Actuate | ed-Uncoo | rdinated | | | | | | |
| Natural Cycle | | | 85 | | | | | | |
| | | | | | | | | | |
| Splits and Phases: 3: Ne | w Albany-C | Condit Ro | ad & Cen | tral Colle | ge Road | | | | |
| \$ ø1 | lian. | | | | | 1 | ~ | | ₩ Ø4 |
| 15 s 36.4 | | | | | | 15 s | Ø3 | | 23.6 s |
| 13.5 | <u> </u> | | | | | 158 | | | 25.0 S |
| № Ø5 | Ø6 | | | | | - • | Ø7 | | √ 28 |

Synchro 11 Report HY AM Build

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|------------------------------|-------|----------|-------|------|------------|-------|-------|----------|----------|----------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | ^ | 7 | Ť | ∱ ∱ | | Ť | f) | | 7 | † | 7 |
| Traffic Volume (veh/h) | 53 | 167 | 136 | 103 | 311 | 125 | 148 | 417 | 50 | 84 | 366 | 49 |
| Future Volume (veh/h) | 53 | 167 | 136 | 103 | 311 | 125 | 148 | 417 | 50 | 84 | 366 | 49 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 58 | 182 | 148 | 112 | 338 | 136 | 161 | 453 | 54 | 91 | 398 | 53 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 308 | 333 | 466 | 375 | 497 | 197 | 473 | 616 | 73 | 394 | 682 | 717 |
| Arrive On Green | 0.09 | 0.18 | 0.18 | 0.11 | 0.20 | 0.20 | 0.12 | 0.38 | 0.38 | 0.10 | 0.36 | 0.36 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1781 | 2487 | 983 | 1781 | 1640 | 195 | 1781 | 1870 | 1585 |
| Grp Volume(v), veh/h | 58 | 182 | 148 | 112 | 240 | 234 | 161 | 0 | 507 | 91 | 398 | 53 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1870 | 1585 | 1781 | 1777 | 1693 | 1781 | 0 | 1835 | 1781 | 1870 | 1585 |
| Q Serve(g_s), s | 2.1 | 7.5 | 6.1 | 4.0 | 10.5 | 10.8 | 4.3 | 0.0 | 20.1 | 2.4 | 14.5 | 1.6 |
| Cycle Q Clear(g_c), s | 2.1 | 7.5 | 6.1 | 4.0 | 10.5 | 10.8 | 4.3 | 0.0 | 20.1 | 2.4 | 14.5 | 1.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.58 | 1.00 | | 0.11 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 308 | 333 | 466 | 375 | 355 | 339 | 473 | 0 | 690 | 394 | 682 | 717 |
| V/C Ratio(X) | 0.19 | 0.55 | 0.32 | 0.30 | 0.67 | 0.69 | 0.34 | 0.00 | 0.74 | 0.23 | 0.58 | 0.07 |
| Avail Cap(c_a), veh/h | 375 | 422 | 541 | 404 | 401 | 382 | 482 | 0 | 690 | 424 | 682 | 717 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 24.0 | 31.5 | 23.2 | 23.1 | 31.2 | 31.3 | 14.0 | 0.0 | 22.7 | 14.9 | 21.6 | 13.1 |
| Incr Delay (d2), s/veh | 0.3 | 1.4 | 0.4 | 0.4 | 3.8 | 4.6 | 0.4 | 0.0 | 6.9 | 0.3 | 3.6 | 0.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.9 | 3.4 | 2.2 | 1.6 | 4.6 | 4.5 | 1.6 | 0.0 | 9.0 | 0.9 | 6.3 | 0.6 |
| Unsig. Movement Delay, s/veh | l | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 24.2 | 32.9 | 23.5 | 23.6 | 35.0 | 35.8 | 14.4 | 0.0 | 29.5 | 15.2 | 25.2 | 13.3 |
| LnGrp LOS | С | С | С | С | С | D | В | А | С | В | С | В |
| Approach Vol, veh/h | | 388 | | | 586 | | | 668 | | | 542 | |
| Approach Delay, s/veh | | 28.0 | | | 33.1 | | | 25.9 | | | 22.4 | |
| Approach LOS | | С | | | С | | | С | | | С | |
| Timer - Assigned Phs | 1 | | 2 | 4 | 5 | 6 | 7 | 8 | | | | |
| | 11/ | 2 | 3 | | | 6 | • | | | | | |
| Phs Duration (G+Y+Rc), s | 14.6 | 36.4 | 11.8 | 21.4 | 13.6 | 37.4 | 13.7 | 19.6 | | | | |
| Change Period (Y+Rc), s | * 4.8 | 5.7 | * 4.4 | 4.6 | * 4.8 | * 5.7 | * 4.4 | 4.6 | | | | |
| Max Green Setting (Gmax), s | * 10 | 30.7 | * 11 | 19.0 | * 10 | * 31 | * 11 | 19.0 | | | | |
| Max Q Clear Time (g_c+I1), s | 6.3 | 16.5 | 4.1 | 12.8 | 4.4 | 22.1 | 6.0 | 9.5 | | | | |
| Green Ext Time (p_c), s | 0.1 | 1.9 | 0.0 | 1.3 | 0.1 | 2.0 | 0.1 | 1.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 27.3 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |
| Notes | | | | | | | | | | | | |

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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|-----------------------------|-------------|----------|-----------|-----------|----------|-------|-------|-------|---|
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Movement | SBL | NBTL | WBL | EBTL | NBL | SBTL | EBL | WBT | |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag | |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Recall Mode | None | C-Max | None | None | None | C-Max | None | None | |
| Maximum Split (s) | 12 | 39 | 16 | 23 | 12 | 39 | 12 | 27 | |
| Maximum Split (%) | 13.3% | 43.3% | 17.8% | 25.6% | 13.3% | 43.3% | 13.3% | 30.0% | |
| Minimum Split (s) | 12 | 23 | 12 | 23 | 12 | 23 | 12 | 23 | |
| Yellow Time (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| All-Red Time (s) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Minimum Initial (s) | 7 | 10 | 7 | 10 | 7 | 10 | 7 | 10 | |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Walk Time (s) | | 7 | | 7 | | 7 | | 7 | |
| Flash Dont Walk (s) | | 11 | | 11 | | 11 | | 11 | |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes | |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Start Time (s) | 0 | 12 | 51 | 67 | 0 | 12 | 51 | 63 | |
| End Time (s) | 12 | 51 | 67 | 0 | 12 | 51 | 63 | 0 | |
| Yield/Force Off (s) | 7 | 46 | 62 | 85 | 7 | 46 | 58 | 85 | |
| Yield/Force Off 170(s) | 7 | 35 | 62 | 74 | 7 | 35 | 58 | 74 | |
| Local Start Time (s) | 78 | 0 | 39 | 55 | 78 | 0 | 39 | 51 | |
| Local Yield (s) | 85 | 34 | 50 | 73 | 85 | 34 | 46 | 73 | |
| Local Yield 170(s) | 85 | 23 | 50 | 62 | 85 | 23 | 46 | 62 | |
| Intersection Summary | | | | | | | | | |
| Cycle Length | | | 90 | | | | | | |
| Control Type | Actu | ated-Coo | rdinated | | | | | | |
| Natural Cycle | | | 70 | | | | | | |
| Offset: 12 (13%), Reference | d to phase | 2:NBTL | and 6:SB | TL, Start | of Green | | | | |
| | | | | | | | | | |
| Splits and Phases: 6: New | / Albany F | Road E & | Central C | ollege Ro | oad | | | | |
| | | | | | | | | | A |

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|------------------------------|------|------------|------|------|------------|------|------|----------|------|----------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ¥ | ∱ β | | ሻሻ | ∱ ∱ | | 7 | ^ | 7 | Ť | ^ | 7 |
| Traffic Volume (veh/h) | 121 | 242 | 16 | 225 | 200 | 66 | 38 | 800 | 179 | 53 | 596 | 52 |
| Future Volume (veh/h) | 121 | 242 | 16 | 225 | 200 | 66 | 38 | 800 | 179 | 53 | 596 | 52 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 132 | 263 | 17 | 245 | 217 | 72 | 41 | 870 | 195 | 58 | 648 | 57 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 269 | 377 | 24 | 324 | 335 | 108 | 478 | 1825 | 962 | 375 | 1859 | 953 |
| Arrive On Green | 0.08 | 0.11 | 0.11 | 0.09 | 0.13 | 0.13 | 0.05 | 0.51 | 0.51 | 0.06 | 0.52 | 0.52 |
| Sat Flow, veh/h | 1781 | 3390 | 218 | 3456 | 2641 | 852 | 1781 | 3554 | 1585 | 1781 | 3554 | 1585 |
| Grp Volume(v), veh/h | 132 | 137 | 143 | 245 | 144 | 145 | 41 | 870 | 195 | 58 | 648 | 57 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1777 | 1831 | 1728 | 1777 | 1717 | 1781 | 1777 | 1585 | 1781 | 1777 | 1585 |
| Q Serve(g_s), s | 5.8 | 6.7 | 6.8 | 6.2 | 6.9 | 7.2 | 0.9 | 14.2 | 5.0 | 1.3 | 9.6 | 1.3 |
| Cycle Q Clear(g_c), s | 5.8 | 6.7 | 6.8 | 6.2 | 6.9 | 7.2 | 0.9 | 14.2 | 5.0 | 1.3 | 9.6 | 1.3 |
| Prop In Lane | 1.00 | | 0.12 | 1.00 | | 0.50 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 269 | 197 | 203 | 324 | 226 | 218 | 478 | 1825 | 962 | 375 | 1859 | 953 |
| V/C Ratio(X) | 0.49 | 0.69 | 0.70 | 0.76 | 0.64 | 0.67 | 0.09 | 0.48 | 0.20 | 0.15 | 0.35 | 0.06 |
| Avail Cap(c_a), veh/h | 269 | 355 | 366 | 422 | 434 | 420 | 528 | 1825 | 962 | 407 | 1859 | 953 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 32.2 | 38.5 | 38.6 | 39.8 | 37.3 | 37.5 | 9.2 | 14.1 | 7.9 | 9.7 | 12.5 | 7.4 |
| Incr Delay (d2), s/veh | 1.4 | 4.3 | 4.4 | 5.6 | 3.0 | 3.5 | 0.1 | 0.9 | 0.5 | 0.2 | 0.5 | 0.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.5 | 3.1 | 3.2 | 2.8 | 3.1 | 3.2 | 0.3 | 5.4 | 1.6 | 0.5 | 3.6 | 0.4 |
| Unsig. Movement Delay, s/veh | | 10.0 | 40.0 | 45.4 | 40.0 | 40.0 | 0.0 | 150 | 0.4 | 0.0 | 10.0 | 7 / |
| LnGrp Delay(d),s/veh | 33.6 | 42.9 | 42.9 | 45.4 | 40.3 | 40.9 | 9.3 | 15.0 | 8.4 | 9.9 | 13.0 | 7.6 |
| LnGrp LOS | С | D | D | D | D | D | A | В | A | A | В | A |
| Approach Vol, veh/h | | 412 | | | 534 | | | 1106 | | | 763 | |
| Approach Delay, s/veh | | 39.9 | | | 42.8 | | | 13.6 | | | 12.4 | |
| Approach LOS | | D | | | D | | | В | | | В | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 10.4 | 51.2 | 13.4 | 15.0 | 9.5 | 52.1 | 12.0 | 16.4 | | | | |
| Change Period (Y+Rc), s | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | | | | |
| Max Green Setting (Gmax), s | 7.0 | 34.0 | 11.0 | 18.0 | 7.0 | 34.0 | 7.0 | 22.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 3.3 | 16.2 | 8.2 | 8.8 | 2.9 | 11.6 | 7.8 | 9.2 | | | | |
| Green Ext Time (p_c), s | 0.0 | 6.3 | 0.2 | 1.0 | 0.0 | 4.6 | 0.0 | 1.2 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 22.7 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |

Timing Report, Sorted By Phase 8: Walton Parkway/EMH&T Driveway & New Albany Road E

| | 4 | - 4₫ | * | 1 |
|----------------------------|------------|-----------|------------|----------|
| Phase Number | 2 | 4 | 6 | 8 |
| Movement | EBTL | NBTL | WBTL | SBTL |
| Lead/Lag | | | | |
| Lead-Lag Optimize | | | | |
| Recall Mode | C-Max | Max | Max | Max |
| Maximum Split (s) | 65 | 25 | 65 | 25 |
| Maximum Split (%) | 72.2% | 27.8% | 72.2% | 27.8% |
| Minimum Split (s) | 23 | 23 | 23 | 23 |
| Yellow Time (s) | 3 | 3 | 3 | 3 |
| All-Red Time (s) | 2 | 2 | 2 | 2 |
| Minimum Initial (s) | 10 | 10 | 10 | 10 |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 | 0 |
| Walk Time (s) | 7 | 7 | 7 | 7 |
| Flash Dont Walk (s) | 11 | 11 | 11 | 11 |
| Dual Entry | Yes | Yes | Yes | Yes |
| Inhibit Max | Yes | Yes | Yes | Yes |
| Start Time (s) | 0 | 65 | 0 | 65 |
| End Time (s) | 65 | 0 | 65 | 0 |
| Yield/Force Off (s) | 60 | 85 | 60 | 85 |
| Yield/Force Off 170(s) | 49 | 74 | 49 | 74 |
| Local Start Time (s) | 0 | 65 | 0 | 65 |
| Local Yield (s) | 60 | 85 | 60 | 85 |
| Local Yield 170(s) | 49 | 74 | 49 | 74 |
| | 49 | /4 | 49 | /4 |
| Intersection Summary | | | | |
| Cycle Length | | | 90 | |
| Control Type | Actu | ated-Cool | rdinated | |
| Natural Cycle | | | 60 | |
| Offset: 0 (0%), Referenced | o phase 2 | :EBTL, St | art of Gre | en |
| | | | | |
| Splits and Phases: 8: Wa | lton Parkw | ay/EMH& | T Drivew | ay & New |
| A | | | | |
| Ø2 (R) | | | | |
| 65 S | | | | |
| ₹ Ø6 | | | | |
| 65 s | | | | |

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|------------------------------|------|------------|------|------|------------|------|------|-----------|------|----------|-----------|----------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ħ | ∱ β | | 7 | ∱ ∱ | | Ţ | f) | | 7 | f) | |
| Traffic Volume (veh/h) | 63 | 997 | 350 | 37 | 615 | 22 | 111 | 20 | 25 | 2 | 0 | 2 |
| Future Volume (veh/h) | 63 | 997 | 350 | 37 | 615 | 22 | 111 | 20 | 25 | 2 | 0 | 2 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 68 | 1084 | 380 | 40 | 668 | 24 | 121 | 22 | 27 | 2 | 0 | 2 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 522 | 1728 | 597 | 232 | 2333 | 84 | 393 | 170 | 208 | 350 | 0 | 352 |
| Arrive On Green | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.22 | 0.22 | 0.22 | 0.22 | 0.00 | 0.22 |
| Sat Flow, veh/h | 752 | 2591 | 895 | 362 | 3499 | 126 | 1415 | 764 | 938 | 1356 | 0 | 1585 |
| Grp Volume(v), veh/h | 68 | 738 | 726 | 40 | 339 | 353 | 121 | 0 | 49 | 2 | 0 | 2 |
| Grp Sat Flow(s), veh/h/ln | 752 | 1777 | 1709 | 362 | 1777 | 1848 | 1415 | 0 | 1702 | 1356 | 0 | 1585 |
| Q Serve(g_s), s | 3.7 | 21.3 | 22.1 | 6.5 | 7.1 | 7.1 | 6.6 | 0.0 | 2.1 | 0.1 | 0.0 | 0.1 |
| Cycle Q Clear(g_c), s | 10.8 | 21.3 | 22.1 | 28.6 | 7.1 | 7.1 | 6.6 | 0.0 | 2.1 | 2.2 | 0.0 | 0.1 |
| Prop In Lane | 1.00 | | 0.52 | 1.00 | | 0.07 | 1.00 | | 0.55 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 522 | 1185 | 1140 | 232 | 1185 | 1232 | 393 | 0 | 378 | 350 | 0 | 352 |
| V/C Ratio(X) | 0.13 | 0.62 | 0.64 | 0.17 | 0.29 | 0.29 | 0.31 | 0.00 | 0.13 | 0.01 | 0.00 | 0.01 |
| Avail Cap(c_a), veh/h | 522 | 1185 | 1140 | 232 | 1185 | 1232 | 393 | 0 | 378 | 350 | 0 | 352 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 8.4 | 8.6 | 8.7 | 17.0 | 6.2 | 6.2 | 29.8 | 0.0 | 28.0 | 28.9 | 0.0 | 27.3 |
| Incr Delay (d2), s/veh | 0.5 | 2.5 | 2.7 | 1.6 | 0.6 | 0.6 | 2.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.6 | 7.4 | 7.4 | 0.6 | 2.4 | 2.5 | 2.4 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 |
| Unsig. Movement Delay, s/veh | 0.0 | 11 0 | 11 / | 10 / | / 0 | / 0 | 21.0 | 0.0 | 20.7 | 20.0 | 0.0 | 27.3 |
| LnGrp Delay(d),s/veh | 8.9 | 11.0 B | 11.4 | 18.6 | 6.8 | 6.8 | 31.9 | 0.0 | 28.7 | 28.9 | 0.0 | |
| LnGrp LOS | A | | В | В | A 722 | A | С | 170 | С | С | A | <u>C</u> |
| Approach Vol, veh/h | | 1532 | | | 732 | | | 170 | | | 4 | |
| Approach LOS | | 11.1 | | | 7.4 A | | | 31.0 C | | | 28.1 C | |
| Approach LOS | | В | | | А | | | C | | | C | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 65.0 | | 25.0 | | 65.0 | | 25.0 | | | | |
| Change Period (Y+Rc), s | | 5.0 | | 5.0 | | 5.0 | | 5.0 | | | | |
| Max Green Setting (Gmax), s | | 60.0 | | 20.0 | | 60.0 | | 20.0 | | | | |
| Max Q Clear Time (g_c+l1), s | | 24.1 | | 8.6 | | 30.6 | | 4.2 | | | | |
| Green Ext Time (p_c), s | | 14.9 | | 0.4 | | 5.4 | | 0.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 11.4 | | | | | | | | | |
| HCM 6th LOS | | | В | | | | | | | | | |

| | -4 | 4 | 4 | * |
|---|-------------|------------|----------|------------|
| Phase Number | 2 | 4 | 6 | 8 |
| Movement | NBTL | EBTL | SBTL | WBTL |
| Lead/Lag | 1,5.2 | 20.2 | 00.2 | .,,,,, |
| Lead-Lag Optimize | | | | |
| Recall Mode | C-Max | None | C-Max | None |
| Maximum Split (s) | 64 | 26 | 64 | 26 |
| Maximum Split (%) | 71.1% | 28.9% | 71.1% | 28.9% |
| Minimum Split (s) | 22.5 | 22.5 | 22.5 | 22.5 |
| Yellow Time (s) | 3.5 | 3.5 | 3.5 | 3.5 |
| All-Red Time (s) | 1 | 1 | 1 | 1 |
| Minimum Initial (s) | 5 | 5 | 5 | 5 |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 | 0 |
| Walk Time (s) | 7 | 7 | 7 | 7 |
| Flash Dont Walk (s) | 11 | 11 | 11 | 11 |
| Dual Entry | Yes | Yes | Yes | Yes |
| Inhibit Max | Yes | Yes | Yes | Yes |
| Start Time (s) | 0 | 64 | 0 | 64 |
| End Time (s) | 64 | 0 | 64 | 0 |
| Yield/Force Off (s) | 59.5 | 85.5 | 59.5 | 85.5 |
| Yield/Force Off 170(s) | 48.5 | 74.5 | 48.5 | 74.5 |
| Local Start Time (s) | 0 | 64 | 0 | 64 |
| Local Yield (s) | 59.5 | 85.5 | 59.5 | 85.5 |
| Local Yield 170(s) | 48.5 | 74.5 | 48.5 | 74.5 |
| Intersection Summary | | | | |
| Cycle Length | | | 90 | |
| Control Type | Actu | ated-Coo | | |
| Natural Cycle | / icitu | 1.Cu C00 | 60 | |
| Offset: 0 (0%), Referenced | to phase 2 | :NBTL an | | . Start of |
| one of the forest of the control of | 10 prid30 Z | ID I'E dii | . 0.0DTL | , otal tol |
| Splits and Phases: 12: N | ew Albany- | Condit R | oad & Wa | Iton Park |
| + | | | | |
| Ø2 (R) | | | | |
| 64 s | | | | |
| Ø6 (R) | | | | |
| ▼ 20 (K) | | | | |

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|--------------------------------------|------|----------|------|------|----------|------|------|----------|---------------------------------------|-------------|----------|-------------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | ₽ | | ሻ | ₽ | | ሻ | f) | | 7 | ₽ | |
| Traffic Volume (veh/h) | 11 | 112 | 151 | 24 | 98 | 181 | 177 | 426 | 50 | 150 | 601 | 74 |
| Future Volume (veh/h) | 11 | 112 | 151 | 24 | 98 | 181 | 177 | 426 | 50 | 150 | 601 | 74 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 12 | 122 | 164 | 26 | 107 | 197 | 192 | 463 | 54 | 163 | 653 | 80 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 121 | 154 | 207 | 138 | 125 | 231 | 427 | 1130 | 132 | 579 | 1123 | 138 |
| Arrive On Green | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 |
| Sat Flow, veh/h | 1075 | 723 | 972 | 1093 | 590 | 1085 | 724 | 1644 | 192 | 884 | 1634 | 200 |
| Grp Volume(v), veh/h | 12 | 0 | 286 | 26 | 0 | 304 | 192 | 0 | 517 | 163 | 0 | 733 |
| Grp Sat Flow(s), veh/h/ln | 1075 | 0 | 1695 | 1093 | 0 | 1675 | 724 | 0 | 1836 | 884 | 0 | 1834 |
| Q Serve(g_s), s | 1.0 | 0.0 | 14.4 | 2.1 | 0.0 | 15.7 | 16.9 | 0.0 | 11.0 | 8.9 | 0.0 | 18.7 |
| Cycle Q Clear(g_c), s | 16.7 | 0.0 | 14.4 | 16.5 | 0.0 | 15.7 | 35.7 | 0.0 | 11.0 | 19.9 | 0.0 | 18.7 |
| Prop In Lane | 1.00 | 0 | 0.57 | 1.00 | 0 | 0.65 | 1.00 | 0 | 0.10 | 1.00 | 0 | 0.11 |
| Lane Grp Cap(c), veh/h | 121 | 0 | 361 | 138 | 0 | 356 | 427 | 0 | 1262 | 579 | 0 | 1261 |
| V/C Ratio(X) | 0.10 | 0.00 | 0.79 | 0.19 | 0.00 | 0.85 | 0.45 | 0.00 | 0.41 | 0.28 | 0.00 | 0.58 |
| Avail Cap(c_a), veh/h | 149 | 1.00 | 405 | 166 | 1.00 | 400 | 427 | 1.00 | 1262 | 579 1.00 | 1.00 | 1261 |
| HCM Platoon Ratio Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 42.1 | 0.00 | 33.6 | 41.3 | 0.00 | 34.1 | 16.6 | 0.00 | 6.1 | 10.5 | 0.00 | 1.00 7.3 |
| Incr Delay (d2), s/veh | 0.4 | 0.0 | 9.4 | 0.7 | 0.0 | 14.9 | 3.4 | 0.0 | 1.0 | 1.2 | 0.0 | 2.0 |
| Initial Q Delay(d3),s/veh | 0.4 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 0.0 | 6.6 | 0.6 | 0.0 | 7.6 | 3.0 | 0.0 | 3.7 | 1.7 | 0.0 | 5.9 |
| Unsig. Movement Delay, s/veh | | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | 3.0 | 0.0 | J. 1 | 1.7 | 0.0 | 5.7 |
| LnGrp Delay(d),s/veh | 42.5 | 0.0 | 42.9 | 42.0 | 0.0 | 49.0 | 20.0 | 0.0 | 7.1 | 11.7 | 0.0 | 9.3 |
| LnGrp LOS | D | Α | D | D | Α | D | C | Α | A | В | Α | Α |
| Approach Vol, veh/h | | 298 | | | 330 | | | 709 | , , , , , , , , , , , , , , , , , , , | | 896 | 7. |
| Approach Delay, s/veh | | 42.9 | | | 48.5 | | | 10.6 | | | 9.7 | |
| Approach LOS | | D | | | D | | | В | | | Α | |
| ** | | 0 | | | <i>D</i> | , | | | | | / \ | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 66.4 | | 23.6 | | 66.4 | | 23.6 | | | | |
| Change Period (Y+Rc), s | | 4.5 | | 4.5 | | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | | 59.5 | | 21.5 | | 59.5 | | 21.5 | | | | |
| Max Q Clear Time (g_c+I1), s | | 37.7 | | 18.7 | | 21.9 | | 18.5 | | | | |
| Green Ext Time (p_c), s | | 4.9 | | 0.5 | | 6.7 | | 0.6 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 20.2 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |

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|-------------------------------|------|------|----------|----------|-----------|------------|------|---|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | |
| Lane Configurations | | 7 | titî | | | ^ | | |
| Traffic Volume (veh/h) | 0 | 10 | 1001 | 29 | 0 | 756 | | |
| Future Volume (Veh/h) | 0 | 10 | 1001 | 29 | 0 | 756 | | |
| Sign Control | Stop | | Free | | | Free | | |
| Grade | 0% | | 0% | | | 0% | | |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | | |
| Hourly flow rate (vph) | 0 | 11 | 1088 | 32 | 0 | 822 | | |
| Pedestrians | | | | | | | | |
| Lane Width (ft) | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | |
| Percent Blockage | | | | | | | | |
| Right turn flare (veh) | | | | | | | | |
| Median type | | | None | | | None | | |
| Median storage veh) | | | | | | | | |
| Upstream signal (ft) | | | | | | 270 | | |
| pX, platoon unblocked | 0.89 | | | | | | | |
| vC, conflicting volume | 1515 | 288 | | | 1120 | | | |
| vC1, stage 1 conf vol | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | |
| vCu, unblocked vol | 1331 | 288 | | | 1120 | | | |
| tC, single (s) | 6.8 | 6.9 | | | 4.1 | | | |
| tC, 2 stage (s) | | | | | | | | |
| tF (s) | 3.5 | 3.3 | | | 2.2 | | | |
| p0 queue free % | 100 | 98 | | | 100 | | | |
| cM capacity (veh/h) | 130 | 709 | | | 619 | | | |
| Direction, Lane # | WB 1 | NB 1 | NB 2 | NB 3 | NB 4 | SB 1 | SB 2 | |
| Volume Total | 11 | 311 | 311 | 311 | 187 | 411 | 411 | |
| Volume Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Volume Right | 11 | 0 | 0 | 0 | 32 | 0 | 0 | |
| cSH | 709 | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 | |
| Volume to Capacity | 0.02 | 0.18 | 0.18 | 0.18 | 0.11 | 0.24 | 0.24 | |
| Queue Length 95th (ft) | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Control Delay (s) | 10.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Lane LOS | В | | | | | | | |
| Approach Delay (s) | 10.2 | 0.0 | | | | 0.0 | | |
| Approach LOS | В | | | | | | | |
| Intersection Summary | | | | | | | | |
| Average Delay | | | 0.1 | | | | | |
| Intersection Capacity Utiliza | tion | | 25.0% | IC | U Level o | of Service | | Α |
| Analysis Period (min) | | | 15 | | | | | |

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| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 1/1 | ∱ } | | ሻ | ∱ } | | | 4 | | ሻ | ĵ» | 7 |
| Traffic Volume (veh/h) | 37 | 353 | 20 | 21 | 426 | 37 | 52 | 6 | 31 | 6 | 4 | 6 |
| Future Volume (Veh/h) | 37 | 353 | 20 | 21 | 426 | 37 | 52 | 6 | 31 | 6 | 4 | 6 |
| Sign Control | | Free | | | Free | | | Stop | | | Stop | |
| Grade | | 0% | | | 0% | | | 0% | | | 0% | |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Hourly flow rate (vph) | 40 | 384 | 22 | 23 | 463 | 40 | 57 | 7 | 34 | 7 | 4 | 7 |
| Pedestrians | | | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | 5 |
| Median type | | None | | | None | | | | | | | |
| Median storage veh) | | | | | | | | | | | | |
| Upstream signal (ft) | | 791 | | | 679 | | | | | | | |
| pX, platoon unblocked | 0.98 | | | 1.00 | | | 0.98 | 0.98 | 1.00 | 0.98 | 0.98 | 0.98 |
| vC, conflicting volume | 503 | | | 406 | | | 754 | 1024 | 203 | 838 | 1015 | 252 |
| vC1, stage 1 conf vol | | | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 440 | | | 402 | | | 692 | 968 | 199 | 778 | 959 | 182 |
| tC, single (s) | 4.1 | | | 4.1 | | | 7.5 | 6.5 | 6.9 | 7.5 | 6.5 | 6.9 |
| tC, 2 stage (s) | | | | | | | | | | | | |
| tF (s) | 2.2 | | | 2.2 | | | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 |
| p0 queue free % | 96 | | | 98 | | | 81 | 97 | 96 | 97 | 98 | 99 |
| cM capacity (veh/h) | 1089 | | | 1151 | | | 302 | 233 | 808 | 250 | 235 | 809 |
| Direction, Lane # | EB 1 | EB 2 | EB3 | EB 4 | WB 1 | WB 2 | WB 3 | NB 1 | SB 1 | SB 2 | | |
| Volume Total | 20 | 20 | 256 | 150 | 23 | 309 | 194 | 98 | 7 | 11 | | |
| Volume Left | 20 | 20 | 0 | 0 | 23 | 0 | 0 | 57 | 7 | 0 | | |
| Volume Right | 0 | 0 | 0 | 22 | 0 | 0 | 40 | 34 | 0 | 7 | | |
| cSH | 1089 | 1089 | 1700 | 1700 | 1151 | 1700 | 1700 | 376 | 250 | 648 | | |
| Volume to Capacity | 0.04 | 0.04 | 0.15 | 0.09 | 0.02 | 0.18 | 0.11 | 0.26 | 0.03 | 0.02 | | |
| Queue Length 95th (ft) | 3 | 3 | 0 | 0 | 2 | 0 | 0 | 26 | 2 | 1 | | |
| Control Delay (s) | 8.4 | 8.4 | 0.0 | 0.0 | 8.2 | 0.0 | 0.0 | 17.9 | 19.8 | 13.5 | | |
| Lane LOS | А | А | | | А | | | С | С | В | | |
| Approach Delay (s) | 0.8 | | | | 0.4 | | | 17.9 | 16.0 | | | |
| Approach LOS | | | | | | | | С | С | | | |
| Intersection Summary | | | | | | | | | | | | |
| Average Delay | | | 2.4 | | | | | | | | | |
| Intersection Capacity Utiliz | ation | | 35.9% | IC | CU Level | of Service | | | А | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |

| To: How 7 libarry 0 | orrant r to | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | , | | • | | | | | |
|------------------------------|-------------|----------|---|------|----------|------------|------|----------|----------|----------|------|------|
| | ٠ | → | • | • | ← | • | 4 | † | / | \ | ţ | 4 |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 4 | | | 4 | | , | ĵ. | | ¥ | ĵ. | |
| Traffic Volume (veh/h) | 22 | 0 | 52 | 10 | 0 | 10 | 30 | 582 | 7 | 7 | 672 | 14 |
| Future Volume (Veh/h) | 22 | 0 | 52 | 10 | 0 | 10 | 30 | 582 | 7 | 7 | 672 | 14 |
| Sign Control | | Stop | | | Stop | | | Free | | | Free | |
| Grade | | 0% | | | 0% | | | 0% | | | 0% | |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Hourly flow rate (vph) | 24 | 0 | 57 | 11 | 0 | 11 | 33 | 633 | 8 | 8 | 730 | 15 |
| Pedestrians | | | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | |
| Median type | | | | | | | | None | | | None | |
| Median storage veh) | | | | | | | | | | | | |
| Upstream signal (ft) | | | | | | | | 1230 | | | 602 | |
| pX, platoon unblocked | 0.82 | 0.82 | 0.79 | 0.82 | 0.82 | 0.94 | 0.79 | | | 0.94 | | |
| vC, conflicting volume | 1464 | 1460 | 738 | 1506 | 1464 | 637 | 745 | | | 641 | | |
| vC1, stage 1 conf vol | | | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 1280 | 1276 | 535 | 1331 | 1280 | 578 | 544 | | | 582 | | |
| tC, single (s) | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 | 4.1 | | | 4.1 | | |
| tC, 2 stage (s) | | | | | | | | | | | | |
| tF (s) | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 | 2.2 | | | 2.2 | | |
| p0 queue free % | 78 | 100 | 87 | 88 | 100 | 98 | 96 | | | 99 | | |
| cM capacity (veh/h) | 110 | 130 | 431 | 90 | 129 | 483 | 809 | | | 928 | | |
| Direction, Lane # | EB 1 | WB 1 | NB 1 | NB 2 | SB 1 | SB 2 | | | | | | |
| Volume Total | 81 | 22 | 33 | 641 | 8 | 745 | | | | | | |
| Volume Left | 24 | 11 | 33 | 0 | 8 | 0 | | | | | | |
| Volume Right | 57 | 11 | 0 | 8 | 0 | 15 | | | | | | |
| cSH | 232 | 152 | 809 | 1700 | 928 | 1700 | | | | | | |
| Volume to Capacity | 0.35 | 0.14 | 0.04 | 0.38 | 0.01 | 0.44 | | | | | | |
| Queue Length 95th (ft) | 37 | 12 | 3 | 0 | 1 | 0 | | | | | | |
| Control Delay (s) | 28.7 | 32.6 | 9.6 | 0.0 | 8.9 | 0.0 | | | | | | |
| Lane LOS | D | D | А | | А | | | | | | | |
| Approach Delay (s) | 28.7 | 32.6 | 0.5 | | 0.1 | | | | | | | |
| Approach LOS | D | D | | | | | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| Average Delay | | | 2.2 | | | | | | | | | |
| Intersection Capacity Utiliz | ation | | 47.7% | IC | CU Level | of Service | | | А | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |

| Intersection | | | | | | | | | | | | |
|------------------------|--------|-------|-------|--------|--------|-------|--------|------|------|--------|----------------|------|
| Int Delay, s/veh | 2.4 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 4 | | | 4 | | ሻ | f) | | ሻ | (î | |
| Traffic Vol, veh/h | 22 | 0 | 52 | 10 | 0 | 10 | 30 | 582 | 7 | 7 | 672 | 14 |
| Future Vol., veh/h | 22 | 0 | 52 | 10 | 0 | 10 | 30 | 582 | 7 | 7 | 672 | 14 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 200 | - | - | 225 | - | - |
| Veh in Median Storage | e,# - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 24 | 0 | 57 | 11 | 0 | 11 | 33 | 633 | 8 | 8 | 730 | 15 |
| | | | | | | | | | | | | |
| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
| Conflicting Flow All | 1463 | 1461 | 738 | 1485 | 1464 | 637 | 745 | 0 | 0 | 641 | 0 | 0 |
| Stage 1 | 754 | 754 | - | 703 | 703 | - | 7 10 | - | - | - | - | - |
| Stage 2 | 709 | 707 | _ | 782 | 761 | _ | - | - | - | _ | _ | _ |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | | - | _ | - | _ | _ |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | _ |
| Pot Cap-1 Maneuver | 107 | 129 | 418 | 103 | 128 | 477 | 863 | - | - | 943 | - | - |
| Stage 1 | 401 | 417 | - | 428 | 440 | - | - | - | - | - | - | - |
| Stage 2 | 425 | 438 | - | 387 | 414 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 101 | 123 | 418 | 86 | 122 | 477 | 863 | - | - | 943 | - | - |
| Mov Cap-2 Maneuver | 101 | 123 | - | 86 | 122 | - | - | - | - | - | - | - |
| Stage 1 | 386 | 414 | - | 412 | 423 | - | - | - | - | - | - | - |
| Stage 2 | 399 | 421 | - | 332 | 411 | - | - | - | - | - | - | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Control Delay, s | 31.2 | | | 33.9 | | | 0.5 | | | 0.1 | | |
| HCM LOS | D | | | D | | | | | | | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvm | nt | NBL | NBT | NBR | EBLn1V | VBLn1 | SBL | SBT | SBR | | | |
| Capacity (veh/h) | | 863 | - | - | 216 | 146 | 943 | - | - | | | |
| HCM Lane V/C Ratio | | 0.038 | - | - | 0.372 | | | - | - | | | |
| HCM Control Delay (s) | | 9.3 | - | - | 31.2 | 33.9 | 8.8 | - | - | | | |
| HCM Lane LOS | | A | - | - | D | D | А | - | - | | | |
| HCM 95th %tile Q(veh |) | 0.1 | - | - | 1.6 | 0.5 | 0 | - | - | | | |
| | | | | | | | | | | | | |

| ZITTOW / tibarry Ot | orialt i te | aa a t | 31tO 7 to | 0000 0 | 7 O I II G O | т Еоор | | | | | | |
|-------------------------------|-------------|----------|-----------|--------|--------------|------------|-------|----------|----------|----------|----------|------|
| | ۶ | → | * | • | + | • | 4 | † | / | / | + | 4 |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 4 | | ሻ | ĵ. | | ሻ | ĵ» | | ሻ | 1> | , |
| Traffic Volume (veh/h) | 6 | 0 | 8 | 19 | 0 | 11 | 7 | 606 | 7 | 3 | 727 | 4 |
| Future Volume (Veh/h) | 6 | 0 | 8 | 19 | 0 | 11 | 7 | 606 | 7 | 3 | 727 | 4 |
| Sign Control | | Stop | | | Stop | | | Free | | | Free | |
| Grade | | 0% | | | 0% | | | 0% | | | 0% | |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Hourly flow rate (vph) | 7 | 0 | 9 | 21 | 0 | 12 | 8 | 659 | 8 | 3 | 790 | 4 |
| Pedestrians | | | | | | ·- | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | |
| Median type | | | | | | | | None | | | None | |
| Median storage veh) | | | | | | | | TVOITE | | | TVOTIC | |
| Upstream signal (ft) | | | | | | | | 709 | | | 1123 | |
| pX, platoon unblocked | 0.88 | 0.88 | 0.83 | 0.88 | 0.88 | 0.90 | 0.83 | 707 | | 0.90 | 1123 | |
| vC, conflicting volume | 1485 | 1481 | 792 | 1484 | 1479 | 663 | 794 | | | 667 | | |
| vC1, stage 1 conf vol | 1400 | 1401 | 172 | 1101 | 17// | 003 | 7 7 7 | | | 007 | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 1229 | 1224 | 651 | 1228 | 1222 | 570 | 653 | | | 575 | | |
| tC, single (s) | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 | 4.1 | | | 4.1 | | |
| tC, 2 stage (s) | 7.1 | 0.5 | 0.2 | 7.1 | 0.5 | 0.2 | 4.1 | | | 4.1 | | |
| tF (s) | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 | 2.2 | | | 2.2 | | |
| p0 queue free % | 95 | 100 | 98 | 84 | 100 | 97 | 99 | | | 100 | | |
| cM capacity (veh/h) | 132 | 156 | 391 | 132 | 156 | 469 | 778 | | | 899 | | |
| | | | | | | | | | | 099 | | |
| Direction, Lane # | EB 1 | WB 1 | WB 2 | NB 1 | NB 2 | SB 1 | SB 2 | | | | | |
| Volume Total | 16 | 21 | 12 | 8 | 667 | 3 | 794 | | | | | |
| Volume Left | 7 | 21 | 0 | 8 | 0 | 3 | 0 | | | | | |
| Volume Right | 9 | 0 | 12 | 0 | 8 | 0 | 4 | | | | | |
| cSH | 210 | 132 | 469 | 778 | 1700 | 899 | 1700 | | | | | |
| Volume to Capacity | 0.08 | 0.16 | 0.03 | 0.01 | 0.39 | 0.00 | 0.47 | | | | | |
| Queue Length 95th (ft) | 6 | 14 | 2 | 1 | 0 | 0 | 0 | | | | | |
| Control Delay (s) | 23.5 | 37.2 | 12.9 | 9.7 | 0.0 | 9.0 | 0.0 | | | | | |
| Lane LOS | С | Е | В | А | | А | | | | | | |
| Approach Delay (s) | 23.5 | 28.4 | | 0.1 | | 0.0 | | | | | | |
| Approach LOS | С | D | | | | | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| Average Delay | | | 0.9 | | | | | | | | | |
| Intersection Capacity Utiliza | ation | | 51.5% | IC | CU Level of | of Service | | | А | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| - | | | | | | | | | | | | |

| Intersection | | | | | | | | | | | | |
|------------------------|--------|-------|-------|--------|--------|--------|--------|------|------|--------|------|------|
| Int Delay, s/veh | 1.1 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 4 | | ሻ | î, | | ሻ | ĵ. | | ሻ | f) | |
| Traffic Vol, veh/h | 6 | 0 | 8 | 19 | 0 | 11 | 7 | 606 | 7 | 3 | 727 | 4 |
| Future Vol, veh/h | 6 | 0 | 8 | 19 | 0 | 11 | 7 | 606 | 7 | 3 | 727 | 4 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | 0 | - | - | 225 | - | - | 200 | - | - |
| Veh in Median Storage | ≘,# - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 7 | 0 | 9 | 21 | 0 | 12 | 8 | 659 | 8 | 3 | 790 | 4 |
| | | | | | | | | | | | | |
| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | 1 | Major2 | | |
| Conflicting Flow All | 1483 | 1481 | 792 | 1482 | 1479 | 663 | 794 | 0 | 0 | 667 | 0 | 0 |
| Stage 1 | 798 | 798 | - | 679 | 679 | - | - | - | - | - | - | - |
| Stage 2 | 685 | 683 | - | 803 | 800 | - | - | - | _ | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 103 | 125 | 389 | 103 | 126 | 461 | 827 | - | - | 923 | - | - |
| Stage 1 | 380 | 398 | - | 441 | 451 | - | - | - | - | - | - | - |
| Stage 2 | 438 | 449 | - | 377 | 397 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 99 | 123 | 389 | 100 | 124 | 461 | 827 | - | - | 923 | - | - |
| Mov Cap-2 Maneuver | 99 | 123 | - | 100 | 124 | - | - | - | - | - | - | - |
| Stage 1 | 376 | 397 | - | 437 | 446 | - | - | - | - | - | - | - |
| Stage 2 | 423 | 445 | - | 367 | 396 | - | - | - | - | - | - | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Control Delay, s | 28 | | | 36.5 | | | 0.1 | | | 0 | | |
| HCM LOS | D | | | E | | | | | | | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvn | nt | NBL | NBT | NBR | EBLn1V | WBLn1\ | WBLn2 | SBL | SBT | SBR | | |
| Capacity (veh/h) | | 827 | - | - | 172 | 100 | 461 | 923 | - | - | | |
| HCM Lane V/C Ratio | | 0.009 | - | - | | | 0.026 | | - | - | | |
| HCM Control Delay (s) |) | 9.4 | - | - | 28 | 50.1 | 13 | 8.9 | - | - | | |
| HCM Lane LOS | | А | - | - | D | F | В | А | - | - | | |
| HCM 95th %tile Q(veh | 1) | 0 | - | - | 0.3 | 0.7 | 0.1 | 0 | - | - | | |
| | | | | | | | | | | | | |

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|--------------------------|-------------|-----------|----------|------------|----------|-------|-------|-------|------------------|
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Movement | NBL | SBTL | EBL | WBTL | SBL | NBTL | WBL | EBTL | |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag | |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Recall Mode | None | Max | None | None | None | Max | None | None | |
| Maximum Split (s) | 15 | 36.4 | 15 | 23.6 | 15 | 36.4 | 15 | 23.6 | |
| Maximum Split (%) | 16.7% | 40.4% | 16.7% | 26.2% | 16.7% | 40.4% | 16.7% | 26.2% | |
| Minimum Split (s) | 15 | 26.7 | 15 | 23.6 | 15 | 26.4 | 15 | 23 | |
| Yellow Time (s) | 3 | 4.7 | 3 | 3.6 | 3 | 4.4 | 3 | 3.6 | |
| All-Red Time (s) | 1.8 | 1 | 1.4 | 1 | 1.8 | 1 | 1.4 | 1 | |
| Minimum Initial (s) | 10 | 20 | 10 | 15 | 10 | 20 | 10 | 15 | |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Walk Time (s) | | | | 7 | | 7 | | | |
| Flash Dont Walk (s) | | | | 11 | | 11 | | | |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes | |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Start Time (s) | 0 | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | |
| End Time (s) | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | 0 | |
| Yield/Force Off (s) | 10.2 | 45.7 | 62 | 85.4 | 10.2 | 46 | 62 | 85.4 | |
| Yield/Force Off 170(s) | 10.2 | 45.7 | 62 | 74.4 | 10.2 | 35 | 62 | 85.4 | |
| Local Start Time (s) | 75 | 0 | 36.4 | 51.4 | 75 | 0 | 36.4 | 51.4 | |
| Local Yield (s) | 85.2 | 30.7 | 47 | 70.4 | 85.2 | 31 | 47 | 70.4 | |
| Local Yield 170(s) | 85.2 | 30.7 | 47 | 59.4 | 85.2 | 20 | 47 | 70.4 | |
| Intersection Summary | | | | | | | | | |
| Cycle Length | | | 90 | | | | | | |
| Control Type | Actuate | ed-Uncoo | | | | | | | |
| Natural Cycle | | | 95 | | | | | | |
| Splits and Phases: 3: Ne | ew Albany-C | Condit Ro | ad & Cen | tral Colle | ge Road | | | | |
| \$ Ø1 | Ø2 | | | | <u> </u> | ₹ | Ø3 | | ₹ø4 |
| | 4s | | | | | 15 s | טט | | 23.6 s |
| \ . | 4 | | | | | | - | | <u>*</u> |
| Ø5 | Tø6 | | | | | € | Ø7 | | ♦ •Ø8 |
| 15 0 26 | 4.0 | | | | | 15 c | | | 22.6 a |

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|------------------------------|-------|----------|-------|------|------------|-------|-------|----------|----------|----------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ሻ | + | 7 | ሻ | ∱ ∱ | | ሻ | Դ | | 7 | | 7 |
| Traffic Volume (veh/h) | 51 | 298 | 143 | 49 | 200 | 101 | 153 | 563 | 89 | 61 | 332 | 57 |
| Future Volume (veh/h) | 51 | 298 | 143 | 49 | 200 | 101 | 153 | 563 | 89 | 61 | 332 | 57 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 55 | 324 | 155 | 53 | 217 | 110 | 166 | 612 | 97 | 66 | 361 | 62 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 357 | 374 | 502 | 266 | 459 | 224 | 501 | 613 | 97 | 254 | 685 | 717 |
| Arrive On Green | 0.09 | 0.20 | 0.20 | 0.08 | 0.20 | 0.20 | 0.12 | 0.39 | 0.39 | 0.09 | 0.37 | 0.37 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1781 | 2314 | 1130 | 1781 | 1576 | 250 | 1781 | 1870 | 1585 |
| Grp Volume(v), veh/h | 55 | 324 | 155 | 53 | 165 | 162 | 166 | 0 | 709 | 66 | 361 | 62 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1870 | 1585 | 1781 | 1777 | 1667 | 1781 | 0 | 1825 | 1781 | 1870 | 1585 |
| Q Serve(g_s), s | 1.9 | 14.1 | 6.2 | 1.8 | 6.9 | 7.2 | 4.5 | 0.0 | 32.5 | 1.7 | 12.7 | 1.9 |
| Cycle Q Clear(q_c), s | 1.9 | 14.1 | 6.2 | 1.8 | 6.9 | 7.2 | 4.5 | 0.0 | 32.5 | 1.7 | 12.7 | 1.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.68 | 1.00 | | 0.14 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 357 | 374 | 502 | 266 | 353 | 331 | 501 | 0 | 711 | 254 | 685 | 717 |
| V/C Ratio(X) | 0.15 | 0.87 | 0.31 | 0.20 | 0.47 | 0.49 | 0.33 | 0.00 | 1.00 | 0.26 | 0.53 | 0.09 |
| Avail Cap(c_a), veh/h | 429 | 424 | 544 | 341 | 403 | 378 | 509 | 0 | 711 | 304 | 685 | 717 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 22.5 | 32.5 | 21.7 | 23.4 | 29.7 | 29.8 | 13.5 | 0.0 | 25.6 | 18.3 | 20.9 | 13.1 |
| Incr Delay (d2), s/veh | 0.2 | 15.6 | 0.3 | 0.4 | 1.0 | 1.1 | 0.4 | 0.0 | 33.2 | 0.5 | 2.9 | 0.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.8 | 7.7 | 2.2 | 0.7 | 2.8 | 2.8 | 1.6 | 0.0 | 18.9 | 0.6 | 5.5 | 0.7 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 22.7 | 48.1 | 22.0 | 23.8 | 30.7 | 31.0 | 13.9 | 0.0 | 58.8 | 18.9 | 23.8 | 13.3 |
| LnGrp LOS | С | D | С | C | С | С | В | А | E | В | C | В |
| Approach Vol, veh/h | | 534 | | | 380 | | | 875 | | | 489 | |
| Approach Delay, s/veh | | 37.9 | | | 29.8 | | | 50.3 | | | 21.8 | |
| Approach LOS | | D | | | C C | | | D | | | C C | |
| | 1 | | 0 | | | | 7 | | | | | |
| Timer - Assigned Phs | 1 1 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 14.6 | 36.4 | 11.6 | 21.2 | 12.7 | 38.3 | 11.5 | 21.4 | | | | |
| Change Period (Y+Rc), s | * 4.8 | 5.7 | * 4.4 | 4.6 | * 4.8 | * 5.7 | * 4.4 | 4.6 | | | | |
| Max Green Setting (Gmax), s | * 10 | 30.7 | * 11 | 19.0 | * 10 | * 31 | * 11 | 19.0 | | | | |
| Max Q Clear Time (g_c+I1), s | 6.5 | 14.7 | 3.9 | 9.2 | 3.7 | 34.5 | 3.8 | 16.1 | | | | |
| Green Ext Time (p_c), s | 0.1 | 1.8 | 0.0 | 1.2 | 0.1 | 0.0 | 0.0 | 0.7 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 37.8 | | | | | | | | | |
| HCM 6th LOS | | | D | | | | | | | | | |
| Notes | | | | | | | | | | | | |

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Ø6 (R)

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|-----------------------------|-------------|-------------|-----------|-----------|----------|--------------|-------|-------|
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Movement | SBL | NBTL | WBL | EBTL | NBL | SBTL | EBL | WBT |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Recall Mode | None | C-Max | None | None | None | C-Max | None | None |
| Maximum Split (s) | 12 | 37 | 18 | 23 | 12 | 37 | 12 | 29 |
| Maximum Split (%) | 13.3% | 41.1% | 20.0% | 25.6% | 13.3% | 41.1% | 13.3% | 32.2% |
| Minimum Split (s) | 12 | 23 | 12 | 23 | 12 | 23 | 12 | 23 |
| Yellow Time (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| All-Red Time (s) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Minimum Initial (s) | 7 | 10 | 7 | 10 | 7 | 10 | 7 | 10 |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Walk Time (s) | | 7 | | 7 | | 7 | | 7 |
| Flash Dont Walk (s) | | 11 | | 11 | | 11 | | 11 |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Start Time (s) | 0 | 12 | 49 | 67 | 0 | 12 | 49 | 61 |
| End Time (s) | 12 | 49 | 67 | 0 | 12 | 49 | 61 | 0 |
| Yield/Force Off (s) | 7 | 44 | 62 | 85 | 7 | 44 | 56 | 85 |
| Yield/Force Off 170(s) | 7 | 33 | 62 | 74 | 7 | 33 | 56 | 74 |
| Local Start Time (s) | 78 | 0 | 37 | 55 | 78 | 0 | 37 | 49 |
| Local Yield (s) | 85 | 32 | 50 | 73 | 85 | 32 | 44 | 73 |
| Local Yield 170(s) | 85 | 21 | 50 | 62 | 85 | 21 | 44 | 62 |
| Intersection Summary | | | | | | | | |
| Cycle Length | | | 90 | | | | | |
| Control Type | Actu | ated-Coo | | | | | | |
| Natural Cycle | | | 70 | | | | | |
| Offset: 12 (13%), Reference | ed to phase | 2:NBTL | and 6:SB | TL, Start | of Green | | | |
| Calita and Dhassa / Na | Alle e e F |) = a d E 0 | Cambrol C | allama Da | | | | |
| Splits and Phases: 6: Nev | w Albany R | KUAU E & | central C | ullege Ro | Jau | | | |
| ▼ø₁ ▼ ▼ø₂ | (R) | | | | | √r ø3 | | |
| 12 s 37 s | | | | | | 18 s | | |

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|------------------------------------|------|------------|-------|------|------------|-------------|----------------------|----------|-------------|-------------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ሻ | ∱ ⊅ | | ሻሻ | ተ ኈ | | ሻ | ^ | 7 | ሻ | ^ | 7 |
| Traffic Volume (veh/h) | 78 | 159 | 29 | 278 | 236 | 27 | 46 | 462 | 185 | 111 | 719 | 137 |
| Future Volume (veh/h) | 78 | 159 | 29 | 278 | 236 | 27 | 46 | 462 | 185 | 111 | 719 | 137 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 85 | 173 | 32 | 302 | 257 | 29 | 50 | 502 | 201 | 121 | 782 | 149 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 289 | 334 | 61 | 384 | 495 | 55 | 395 | 1711 | 939 | 507 | 1777 | 901 |
| Arrive On Green | 0.07 | 0.11 | 0.11 | 0.11 | 0.15 | 0.15 | 0.06 | 0.48 | 0.48 | 0.07 | 0.50 | 0.50 |
| Sat Flow, veh/h | 1781 | 3004 | 545 | 3456 | 3222 | 360 | 1781 | 3554 | 1585 | 1781 | 3554 | 1585 |
| Grp Volume(v), veh/h | 85 | 101 | 104 | 302 | 141 | 145 | 50 | 502 | 201 | 121 | 782 | 149 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1777 | 1772 | 1728 | 1777 | 1806 | 1781 | 1777 | 1585 | 1781 | 1777 | 1585 |
| Q Serve(g_s), s | 3.7 | 4.8 | 5.0 | 7.7 | 6.5 | 6.7 | 1.2 | 7.7 | 5.3 | 2.9 | 12.7 | 4.0 |
| Cycle Q Clear(g_c), s | | 4.8 | 5.0 | 7.7 | 6.5 | 6.7 | 1.2 | 7.7 | 5.3 | 2.9 | 12.7 | 4.0 |
| Prop In Lane | 1.00 | 197 | 0.31 | 1.00 | 273 | 0.20 278 | 1.00 | 1711 | 1.00 | 1.00 507 | 1777 | 1.00 |
| Lane Grp Cap(c), veh/h | 0.29 | 0.51 | 0.53 | 0.79 | 0.51 | 0.52 | 3 9 5 0.13 | 0.29 | 939 0.21 | 0.24 | 0.44 | 901 |
| V/C Ratio(X) Avail Cap(c_a), veh/h | 306 | 355 | 354 | 499 | 474 | 481 | 434 | 1711 | 939 | 513 | 1777 | 901 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 31.9 | 37.7 | 37.8 | 39.0 | 35.0 | 35.1 | 10.7 | 14.1 | 8.6 | 9.9 | 14.4 | 9.2 |
| Incr Delay (d2), s/veh | 0.6 | 2.0 | 2.2 | 6.2 | 1.5 | 1.5 | 0.1 | 0.4 | 0.5 | 0.2 | 0.8 | 0.4 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.6 | 2.2 | 2.2 | 3.5 | 2.9 | 3.0 | 0.4 | 3.0 | 1.8 | 1.1 | 4.9 | 1.4 |
| Unsig. Movement Delay, s/veh | | 2.2 | 2,2 | 0.0 | 2.7 | 0.0 | 0.1 | 0.0 | 1.0 | | 1.7 | |
| LnGrp Delay(d),s/veh | 32.4 | 39.7 | 40.0 | 45.1 | 36.5 | 36.6 | 10.8 | 14.5 | 9.1 | 10.2 | 15.2 | 9.6 |
| LnGrp LOS | С | D | D | D | D | D | В | В | А | В | В | А |
| Approach Vol, veh/h | | 290 | | | 588 | | | 753 | | | 1052 | |
| Approach Delay, s/veh | | 37.7 | | | 41.0 | | | 12.8 | | | 13.8 | |
| Approach LOS | | D | | | D | | | В | | | В | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 11.7 | 48.3 | 15.0 | 15.0 | 10.0 | 50.0 | 11.2 | 18.8 | | | | |
| Change Period (Y+Rc), s | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | | | | |
| Max Green Setting (Gmax), s | 7.0 | 32.0 | 13.0 | 18.0 | 7.0 | 32.0 | 7.0 | 24.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 4.9 | 9.7 | 9.7 | 7.0 | 3.2 | 14.7 | 5.7 | 8.7 | | | | |
| Green Ext Time (p_c), s | 0.1 | 4.0 | 0.3 | 0.7 | 0.0 | 5.4 | 0.0 | 1.3 | | | | |
| | 0.1 | 4.0 | 0.0 | 0.7 | 0.0 | J.4 | 0.0 | 1.0 | | | | |
| Intersection Summary | | | 0.5 1 | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 22.1 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |

Timing Report, Sorted By Phase 8: Walton Parkway/EMH&T Driveway & New Albany Road E

| | 4 | -4₫ | * | - ↓ |
|----------------------------|-------------|-----------|------------|------------|
| Phase Number | 2 | 4 | 6 | 8 |
| Movement | EBTL | NBTL | WBTL | SBTL |
| Lead/Lag | | | | |
| Lead-Lag Optimize | | | | |
| Recall Mode | C-Max | Max | Max | Max |
| Maximum Split (s) | 41 | 49 | 41 | 49 |
| Maximum Split (%) | 45.6% | 54.4% | 45.6% | 54.4% |
| Minimum Split (s) | 23 | 23 | 23 | 23 |
| Yellow Time (s) | 3 | 3 | 3 | 3 |
| All-Red Time (s) | 2 | 2 | 2 | 2 |
| Minimum Initial (s) | 10 | 10 | 10 | 10 |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 | 0 |
| Walk Time (s) | 7 | 7 | 7 | 7 |
| Flash Dont Walk (s) | 11 | 11 | 11 | 11 |
| Dual Entry | Yes | Yes | Yes | Yes |
| Inhibit Max | Yes | Yes | Yes | Yes |
| Start Time (s) | 0 | 41 | 0 | 41 |
| End Time (s) | 41 | 0 | 41 | 0 |
| Yield/Force Off (s) | 36 | 85 | 36 | 85 |
| Yield/Force Off 170(s) | 25 | 74 | 25 | 74 |
| Local Start Time (s) | 0 | 41 | 0 | 41 |
| Local Yield (s) | 36 | 85 | 36 | 85 |
| Local Yield 170(s) | 25 | 74 | 25 | 74 |
| Intersection Summary | | , ' | 20 | . ' |
| | | | 00 | |
| Cycle Length | Λ α.Ι | atad Car | 90 | |
| Control Type | Actu | ated-Coo | | |
| Natural Cycle | 1 l | EDT! C | 50 | |
| Offset: 0 (0%), Referenced | to phase 2 | :EBTL, St | art of Gre | een |
| Calife and Dhases O. Wa | lton Dorlar | ov/EMILIO | T Driver | ov o Nave |
| Splits and Phases: 8: Wa | alton Parkw | ay/EIVIH8 | ı Drivew | ay & New |
| → ø2 (R) | | | | - [⁴ |
| 41 s | | | | 49 |
| 4- | | | | |
| ₩ Ø6 | | | | , |
| 41 s | | | | 49 |

Synchro 11 Report HY PM No Build

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|--------------------------------------|------|------------|-----------|------|------------|------|-----------|-----------|------|----------|----------|-----------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ሻ | ∱ ∱ | | ሻ | ተ ኈ | | 7 | ₽ | | 7 | ₽ | |
| Traffic Volume (veh/h) | 5 | 590 | 100 | 20 | 859 | 0 | 457 | 7 | 55 | 10 | 17 | 53 |
| Future Volume (veh/h) | 5 | 590 | 100 | 20 | 859 | 0 | 457 | 7 | 55 | 10 | 17 | 53 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 5 | 641 | 109 | 22 | 934 | 0 | 497 | 8 | 60 | 11 | 18 | 58 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 192 | 1215 | 206 | 250 | 1421 | 0 | 694 | 93 | 696 | 702 | 190 | 614 |
| Arrive On Green | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.00 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 |
| Sat Flow, veh/h | 599 | 3038 | 516 | 712 | 3647 | 0 | 1323 | 190 | 1424 | 1333 | 389 | 1255 |
| Grp Volume(v), veh/h | 5 | 374 | 376 | 22 | 934 | 0 | 497 | 0 | 68 | 11 | 0 | 76 |
| Grp Sat Flow(s), veh/h/ln | 599 | 1777 | 1777 | 712 | 1777 | 0 | 1323 | 0 | 1614 | 1333 | 0 | 1644 |
| Q Serve(g_s), s | 0.6 | 14.4 | 14.5 | 2.2 | 19.3 | 0.0 | 29.0 | 0.0 | 2.0 | 0.4 | 0.0 | 2.2 |
| Cycle Q Clear(g_c), s | 19.9 | 14.4 | 14.5 | 16.6 | 19.3 | 0.0 | 31.2 | 0.0 | 2.0 | 2.4 | 0.0 | 2.2 |
| Prop In Lane | 1.00 | 711 | 0.29 | 1.00 | 1 401 | 0.00 | 1.00 | 0 | 0.88 | 1.00 | 0 | 0.76 |
| Lane Grp Cap(c), veh/h | 192 | 711 | 711 | 250 | 1421 | 0 | 694 | 0 | 789 | 702 | 0 | 804 |
| V/C Ratio(X) | 0.03 | 0.53 | 0.53 | 0.09 | 0.66 | 0.00 | 0.72 | 0.00 | 0.09 | 0.02 | 0.00 | 0.09 |
| Avail Cap(c_a), veh/h | 192 | 711 | 711 | 250 | 1421 | 1.00 | 694 | 1.00 | 789 | 702 | 1.00 | 804 |
| HCM Platoon Ratio Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 30.1 | 20.5 | 20.5 | 26.9 | 22.0 | 0.00 | 1.00 | 0.00 | 12.3 | 12.9 | 0.00 | 12.3 |
| Incr Delay (d2), s/veh | 0.3 | 20.3 | 20.3 | 0.7 | 2.4 | 0.0 | 6.2 | 0.0 | 0.2 | 0.0 | 0.0 | 0.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.2 | 0.0 | 0.0 | 0.2 |
| %ile BackOfQ(50%),veh/ln | 0.0 | 6.2 | 6.2 | 0.4 | 8.0 | 0.0 | 9.4 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | 0.2 | 0.2 | 0.4 | 0.0 | 0.0 | 7.4 | 0.0 | 0.7 | 0.1 | 0.0 | 0.7 |
| LnGrp Delay(d),s/veh | 30.3 | 23.3 | 23.3 | 27.6 | 24.4 | 0.0 | 26.9 | 0.0 | 12.5 | 13.0 | 0.0 | 12.6 |
| LnGrp LOS | C | 23.3 C | 23.5 C | C C | C C | Α | 20.7 C | Α | В | В | Α | 12.0 B |
| Approach Vol, veh/h | | 755 | | | 956 | | | 565 | | | 87 | |
| Approach Delay, s/veh | | 23.4 | | | 24.4 | | | 25.2 | | | 12.6 | |
| Approach LOS | | C C | | | C | | | 23.2 C | | | В | |
| | | | | | | | | | | | | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 41.0 | | 49.0 | | 41.0 | | 49.0 | | | | |
| Change Period (Y+Rc), s | | 5.0 | | 5.0 | | 5.0 | | 5.0 | | | | |
| Max Green Setting (Gmax), s | | 36.0 | | 44.0 | | 36.0 | | 44.0 | | | | |
| Max Q Clear Time (g_c+l1), s | | 21.9 | | 33.2 | | 21.3 | | 4.4 | | | | |
| Green Ext Time (p_c), s | | 4.0 | | 1.7 | | 5.7 | | 0.5 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 23.8 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |

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|----------------------------|--------------|------------|------------|---------------|
| Phase Number | 2 | 4 | 6 | 8 |
| Movement | NBTL | EBTL | SBTL | WBTL |
| Lead/Lag | | | | |
| Lead-Lag Optimize | | | | |
| Recall Mode | C-Max | None | C-Max | None |
| Maximum Split (s) | 56 | 34 | 56 | 34 |
| Maximum Split (%) | 62.2% | 37.8% | 62.2% | 37.8% |
| Minimum Split (s) | 22.5 | 22.5 | 22.5 | 22.5 |
| Yellow Time (s) | 3.5 | 3.5 | 3.5 | 3.5 |
| All-Red Time (s) | 1 | 1 | 1 | 1 |
| Minimum Initial (s) | 5 | 5 | 5 | 5 |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 | 0 |
| Walk Time (s) | 7 | 7 | 7 | 7 |
| Flash Dont Walk (s) | 11 | 11 | 11 | 11 |
| Dual Entry | Yes | Yes | Yes | Yes |
| Inhibit Max | Yes | Yes | Yes | Yes |
| Start Time (s) | 0 | 56 | 0 | 56 |
| End Time (s) | 56 | 0 | 56 | 0 |
| Yield/Force Off (s) | 51.5 | 85.5 | 51.5 | 85.5 |
| Yield/Force Off 170(s) | 40.5 | 74.5 | 40.5 | 74.5 |
| Local Start Time (s) | 0 | 56 | 0 | 56 |
| Local Yield (s) | 51.5 | 85.5 | 51.5 | 85.5 |
| Local Yield 170(s) | 40.5 | 74.5 | 40.5 | 74.5 |
| Intersection Summary | | | | |
| Cycle Length | | | 90 | |
| Control Type | Actua | ated-Coo | rdinated | |
| Natural Cycle | | | 55 | |
| Offset: 0 (0%), Referenced | to phase 2: | :NBTL an | d 6:SBTL | ., Start of (|
| Splits and Phases: 12: Ne | ew Albany- | Condit R | nad & Wa | ilton Parki |
| A | ov / libarry | COTTUIL TO | Jaa X VV | mon r arkv |
| Ø2 (R) | | | | |
| 56 s | | | | |
| Ø6 (R) | | | | |
| 56 s | | | | |

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|------------------------------------|------|----------|-------------|-------------|------|-------------|-------------|----------|--------------|-------------|----------|--------------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ሻ | ₽ | | ሻ | 1> | | ሻ | ₽ | | ሻ | ₽ | |
| Traffic Volume (veh/h) | 57 | 140 | 173 | 49 | 120 | 144 | 77 | 502 | 15 | 163 | 437 | 21 |
| Future Volume (veh/h) | 57 | 140 | 173 | 49 | 120 | 144 | 77 | 502 | 15 | 163 | 437 | 21 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 62 | 152 | 188 | 53 | 130 | 157 | 84 | 546 | 16 | 177 | 475 | 23 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 208 | 202 | 250 | 166 | 205 | 248 | 529 | 1146 | 34 | 483 | 1121 | 54 |
| Arrive On Green | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 |
| Sat Flow, veh/h | 1092 | 760 | 941 | 1040 | 771 | 931 | 900 | 1808 | 53 | 848 | 1769 | 86 |
| Grp Volume(v), veh/h | 62 | 0 | 340 | 53 | 0 | 287 | 84 | 0 | 562 | 177 | 0 | 498 |
| Grp Sat Flow(s), veh/h/ln | 1092 | 0 | 1701 | 1040 | 0 | 1703 | 900 | 0 | 1861 | 848 | 0 | 1855 |
| Q Serve(g_s), s | 4.8 | 0.0 | 16.5 | 4.4 | 0.0 | 13.4 | 4.6 | 0.0 | 14.3 | 12.5 | 0.0 | 12.1 |
| Cycle Q Clear(g_c), s | 18.2 | 0.0 | 16.5 | 20.9 | 0.0 | 13.4 | 16.7 | 0.0 | 14.3 | 26.7 | 0.0 | 12.1 |
| Prop In Lane | 1.00 | 0 | 0.55 | 1.00 | 0 | 0.55 | 1.00 | 0 | 0.03 | 1.00 | 0 | 0.05 |
| Lane Grp Cap(c), veh/h | 208 | 0.00 | 453 0.75 | 166 0.32 | 0.00 | 453 0.63 | 529 0.16 | 0.00 | 1179 0.48 | 483 0.37 | 0.00 | 1176 0.42 |
| V/C Ratio(X) Avail Cap(c_a), veh/h | 276 | 0.00 | 558 | 230 | 0.00 | 558 | 529 | 0.00 | 1179 | 483 | 0.00 | 1176 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 37.2 | 0.0 | 30.3 | 39.9 | 0.00 | 29.1 | 12.4 | 0.00 | 8.6 | 15.7 | 0.0 | 8.2 |
| Incr Delay (d2), s/veh | 0.8 | 0.0 | 4.5 | 1.1 | 0.0 | 1.6 | 0.6 | 0.0 | 1.4 | 2.1 | 0.0 | 1.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.3 | 0.0 | 7.0 | 1.2 | 0.0 | 5.5 | 1.0 | 0.0 | 5.3 | 2.4 | 0.0 | 4.2 |
| Unsig. Movement Delay, s/veh | | 0.0 | 7.0 | 112 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 2.1 | 0.0 | 1.2 |
| LnGrp Delay(d),s/veh | 38.0 | 0.0 | 34.8 | 41.0 | 0.0 | 30.8 | 13.1 | 0.0 | 10.0 | 17.8 | 0.0 | 9.4 |
| LnGrp LOS | D | А | С | D | А | С | В | А | В | В | А | Α |
| Approach Vol, veh/h | | 402 | | | 340 | | | 646 | | | 675 | |
| Approach Delay, s/veh | | 35.3 | | | 32.4 | | | 10.4 | | | 11.6 | |
| Approach LOS | | D | | | С | | | В | | | В | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 61.5 | | 28.5 | | 61.5 | | 28.5 | | | | |
| Change Period (Y+Rc), s | | 4.5 | | 4.5 | | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | | 51.5 | | 29.5 | | 51.5 | | 29.5 | | | | |
| Max Q Clear Time (g_c+I1), s | | 18.7 | | 20.2 | | 28.7 | | 22.9 | | | | |
| Green Ext Time (p_c), s | | 4.5 | | 1.6 | | 4.0 | | 1.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| | | | 10.2 | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 19.3 | | | | | | | | | |
| HCM 6th LOS | | | В | | | | | | | | | |

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|--------------------------------|------|----------|------------|------|----------|------------|------|------|------|--|
| Movement | EBL | EBT | WBT | WBR | SBL | SBR | | | | |
| ane Configurations | ሻሻ | ^ | ↑ ↑ | | ሻ | 77 | | | | |
| raffic Volume (veh/h) | 7 | 467 | 469 | 7 | 38 | 38 | | | | |
| uture Volume (Veh/h) | 7 | 467 | 469 | 7 | 38 | 38 | | | | |
| Sign Control | | Free | Free | | Stop | | | | | |
| Grade | | 0% | 0% | | 0% | | | | | |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | | | | |
| lourly flow rate (vph) | 8 | 508 | 510 | 8 | 41 | 41 | | | | |
| Pedestrians | | | | | | | | | | |
| ane Width (ft) | | | | | | | | | | |
| Valking Speed (ft/s) | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | |
| Median type | | None | None | | | | | | | |
| Median storage veh) | | | | | | | | | | |
| Jpstream signal (ft) | | 791 | 679 | | | | | | | |
| X, platoon unblocked | | | | | | | | | | |
| C, conflicting volume | 518 | | | | 784 | 259 | | | | |
| C1, stage 1 conf vol | | | | | | | | | | |
| C2, stage 2 conf vol | | | | | | | | | | |
| Cu, unblocked vol | 518 | | | | 784 | 259 | | | | |
| C, single (s) | 4.1 | | | | 6.8 | 6.9 | | | | |
| C, 2 stage (s) | | | | | | | | | | |
| (S) | 2.2 | | | | 3.5 | 3.3 | | | | |
|) queue free % | 99 | | | | 87 | 94 | | | | |
| // capacity (veh/h) | 1044 | | | | 328 | 740 | | | | |
| rection, Lane # | EB 1 | EB 2 | EB3 | EB 4 | WB 1 | WB 2 | SB1 | SB 2 | SB 3 | |
| olume Total | 4 | 4 | 254 | 254 | 340 | 178 | 41 | 20 | 20 | |
| olume Left | 4 | 4 | 0 | 0 | 0 | 0 | 41 | 0 | 0 | |
| olume Right | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 20 | 20 | |
| SH | 1044 | 1044 | 1700 | 1700 | 1700 | 1700 | 328 | 740 | 740 | |
| olume to Capacity | 0.01 | 0.01 | 0.15 | 0.15 | 0.20 | 0.10 | 0.13 | 0.03 | 0.03 | |
| ueue Length 95th (ft) | 1 | 1 | 0 | 0 | 0 | 0 | 11 | 2 | 2 | |
| ontrol Delay (s) | 8.5 | 8.5 | 0.0 | 0.0 | 0.0 | 0.0 | 17.6 | 10.0 | 10.0 | |
| ane LOS | А | А | | | | | С | В | В | |
| pproach Delay (s) | 0.1 | | | | 0.0 | | 13.8 | | | |
| pproach LOS | | | | | | | В | | | |
| tersection Summary | | | | | | | | | | |
| verage Delay | | | 1.1 | | | | | | | |
| tersection Capacity Utilizatio | n | | 23.2% | IC | CU Level | of Service | | | А | |
| nalysis Period (min) | | | 15 | | | | | | | |

| Intersection | | | | | | |
|--|----------|-------|---------|-------|----------|-----------|
| Int Delay, s/veh | 0.5 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| | | WBK | | NBR | SBL | |
| Lane Configurations | \ | 7 | 724 | 20 | 10 | ની |
| Traffic Vol, veh/h | 12 | 7 | 734 | 20 | 13 | 560 |
| Future Vol, veh/h | 12 | 7 | 734 | 20 | 13 | 560 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | = | - |
| Veh in Median Storag | e,# 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 13 | 8 | 798 | 22 | 14 | 609 |
| | | | , , , | | | 007 |
| | | | | | | |
| | Minor1 | | /lajor1 | | Major2 | |
| Conflicting Flow All | 1446 | 809 | 0 | 0 | 820 | 0 |
| Stage 1 | 809 | - | - | - | - | - |
| Stage 2 | 637 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | _ | - | _ | _ | _ |
| Critical Hdwy Stg 2 | 5.42 | - | _ | _ | - | - |
| Follow-up Hdwy | | 3.318 | _ | _ | 2.218 | _ |
| Pot Cap-1 Maneuver | 145 | 380 | | | 809 | _ |
| Stage 1 | 438 | 300 | | | 007 | |
| | 527 | - | - | - | - | - |
| Stage 2 | 527 | - | - | - | - | - |
| Platoon blocked, % | 444 | 000 | - | - | 000 | - |
| Mov Cap-1 Maneuver | 141 | 380 | - | - | 809 | - |
| Mov Cap-2 Maneuver | 141 | - | - | - | - | - |
| Stage 1 | 438 | - | - | - | - | - |
| Stage 2 | 513 | - | - | - | - | - |
| | | | | | | |
| Approach | WB | | NB | | SB | |
| HCM Control Delay, s | | | 0 | | 0.2 | |
| HCM LOS | 27 D | | U | | 0.2 | |
| HOWI LUS | U | | | | | |
| | | | | | | |
| Minor Lane/Major Mvr | nt | NBT | NBRV | VBLn1 | SBL | SBT |
| Capacity (veh/h) | | - | _ | 184 | 809 | _ |
| HCM Lane V/C Ratio | | _ | | 0.112 | | _ |
| HCM Control Delay (s |) | _ | _ | 27 | 9.5 | 0 |
| HCM Lane LOS | / | _ | _ | D | 7.5 A | A |
| HCM 95th %tile Q(vel |) | - | _ | 0.4 | 0.1 | - |
| THE TOTAL PARTIES OF THE TOTAL | 11 | - | - | 0.4 | U. I | _ |

| | * | \$⊳ | 4/4 | * | / | 4 | • | 4 | |
|---------------------------|------------|-----------|----------|------------|----------|--------|------------|-------|--------|
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Movement | NBL | SBTL | EBL | WBTL | SBL | NBTL | WBL | EBTL | |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag | |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Recall Mode | None | Max | None | None | None | Max | None | None | |
| Maximum Split (s) | 15 | 36.4 | 15 | 23.6 | 15 | 36.4 | 15 | 23.6 | |
| Maximum Split (%) | 16.7% | 40.4% | 16.7% | 26.2% | 16.7% | 40.4% | 16.7% | 26.2% | |
| Minimum Split (s) | 15 | 26.7 | 15 | 23.6 | 15 | 26.4 | 15 | 23 | |
| Yellow Time (s) | 3 | 4.7 | 3 | 3.6 | 3 | 4.4 | 3 | 3.6 | |
| All-Red Time (s) | 1.8 | 1 | 1.4 | 1 | 1.8 | 1 | 1.4 | 1 | |
| Minimum Initial (s) | 10 | 20 | 10 | 15 | 10 | 20 | 10 | 15 | |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Walk Time (s) | | | | 7 | | 7 | | | |
| Flash Dont Walk (s) | | | | 11 | | 11 | | | |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes | |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Start Time (s) | 0 | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | |
| End Time (s) | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | 0 | |
| Yield/Force Off (s) | 10.2 | 45.7 | 62 | 85.4 | 10.2 | 46 | 62 | 85.4 | |
| Yield/Force Off 170(s) | 10.2 | 45.7 | 62 | 74.4 | 10.2 | 35 | 62 | 85.4 | |
| Local Start Time (s) | 75 | 0 | 36.4 | 51.4 | 75 | 0 | 36.4 | 51.4 | |
| Local Yield (s) | 85.2 | 30.7 | 47 | 70.4 | 85.2 | 31 | 47 | 70.4 | |
| Local Yield 170(s) | 85.2 | 30.7 | 47 | 59.4 | 85.2 | 20 | 47 | 70.4 | |
| Intersection Summary | | | | | | | | | |
| Cycle Length | | | 90 | | | | | | |
| Control Type | Actuate | ed-Uncoo | rdinated | | | | | | |
| Natural Cycle | | | 95 | | | | | | |
| Splits and Phases: 3: Nev | v Albany-C | Condit Ro | ad & Cen | tral Colle | ge Road | - 1 14 | | | |
| \$ Ø1 | Ø2 | | | | | 2/2 | Ø3 | | ₹ø4 |
| 15 s 36.4 | S | | | | | 15 s | | | 23.6 s |
| Ø5 | Ø6 | | | | | - ∢ | ø 7 | | Ø8 |

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|---|-------|----------|-------|-------------|-------------|-------|-------|----------|-----------|-------------|--------------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | ↑ | 7 | ሻ | ∱ } | | ሻ | ₽ | | ሻ | † | 7 |
| Traffic Volume (veh/h) | 60 | 308 | 143 | 68 | 215 | 101 | 153 | 573 | 102 | 61 | 347 | 70 |
| Future Volume (veh/h) | 60 | 308 | 143 | 68 | 215 | 101 | 153 | 573 | 102 | 61 | 347 | 70 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 65 | 335 | 155 | 74 | 234 | 110 | 166 | 623 | 111 | 66 | 377 | 76 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 370 | 381 | 504 | 283 | 494 | 225 | 472 | 587 | 105 | 249 | 670 | 713 |
| Arrive On Green | 0.09 | 0.20 | 0.20 | 0.10 | 0.21 | 0.21 | 0.11 | 0.38 | 0.38 | 0.09 | 0.36 | 0.36 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1781 | 2373 | 1079 | 1781 | 1545 | 275 | 1781 | 1870 | 1585 |
| Grp Volume(v), veh/h | 65 | 335 | 155 | 74 | 173 | 171 | 166 | 0 | 734 | 66 | 377 | 76 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1870 | 1585 | 1781 | 1777 | 1676 | 1781 | 0 | 1821 | 1781 | 1870 | 1585 |
| Q Serve(g_s), s | 2.3 | 14.9 | 6.3 | 2.6 | 7.3 | 7.7 | 4.6 | 0.0 | 32.6 | 1.8 | 13.9 | 2.4 |
| Cycle Q Clear(g_c), s | 2.3 | 14.9 | 6.3 | 2.6 | 7.3 | 7.7 | 4.6 | 0.0 | 32.6 | 1.8 | 13.9 | 2.4 |
| Prop In Lane | 1.00 | 201 | 1.00 | 1.00 | 270 | 0.64 | 1.00 | 0 | 0.15 | 1.00 | /70 | 1.00 |
| Lane Grp Cap(c), veh/h | 370 | 381 | 504 | 283 | 370 | 349 | 472 | 0 | 692 | 249 | 670 | 713 |
| V/C Ratio(X) | 0.18 | 0.88 | 0.31 | 0.26 | 0.47 | 0.49 | 0.35 | 0.00 | 1.06 | 0.27 | 0.56 | 0.11 |
| Avail Cap(c_a), veh/h | 427 | 414 | 533 | 331 1.00 | 394 1.00 | 371 | 480 | 1.00 | 692 | 296 1.00 | 670 1.00 | 713 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) Uniform Delay (d), s/veh | 1.00 | 1.00 | 22.1 | 23.3 | 29.8 | 29.9 | 14.5 | 0.00 | 26.6 | 18.9 | 22.1 | 13.6 |
| Incr Delay (d2), s/veh | 0.2 | 18.2 | 0.3 | 0.5 | 0.9 | 1.1 | 0.4 | 0.0 | 51.5 | 0.6 | 3.4 | 0.3 |
| Initial Q Delay(d3),s/veh | 0.2 | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.0 | 8.4 | 2.3 | 1.0 | 3.0 | 3.0 | 1.7 | 0.0 | 22.4 | 0.7 | 6.1 | 0.9 |
| Unsig. Movement Delay, s/veh | | 0.4 | 2.0 | 1.0 | 3.0 | 3.0 | 1.7 | 0.0 | 22.7 | 0.7 | 0.1 | 0.7 |
| LnGrp Delay(d),s/veh | 22.6 | 51.3 | 22.5 | 23.8 | 30.7 | 31.0 | 15.0 | 0.0 | 78.0 | 19.5 | 25.5 | 13.9 |
| LnGrp LOS | C | D | C | 23.0 C | C | C | В | Α | 70.0 F | В | 20.0 C | В |
| Approach Vol, veh/h | | 555 | | | 418 | | | 900 | <u> </u> | | 519 | |
| Approach Delay, s/veh | | 39.9 | | | 29.6 | | | 66.4 | | | 23.1 | |
| Approach LOS | | D | | | C C | | | E | | | 20.1 | |
| • | | | | | | , | _ | | | | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | / | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 14.6 | 36.4 | 12.3 | 22.5 | 12.7 | 38.3 | 12.7 | 22.0 | | | | |
| Change Period (Y+Rc), s | * 4.8 | 5.7 | * 4.4 | 4.6 | * 4.8 | * 5.7 | * 4.4 | 4.6 | | | | |
| Max Green Setting (Gmax), s | * 10 | 30.7 | * 11 | 19.0 | * 10 | * 31 | * 11 | 19.0 | | | | |
| Max Q Clear Time (g_c+I1), s | 6.6 | 15.9 | 4.3 | 9.7 | 3.8 | 34.6 | 4.6 | 16.9 | | | | |
| Green Ext Time (p_c), s | 0.1 | 1.9 | 0.1 | 1.2 | 0.1 | 0.0 | 0.1 | 0.5 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 44.4 | | | | | | | | | |
| HCM 6th LOS | | | D | | | | | | | | | |

Synchro 11 Report HY PM Build

User approved pedestrian interval to be less than phase max green.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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|------------------------------|-------------|----------|-----------|-----------|----------|--------------|-------|----------|-----|
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Movement | SBL | NBTL | WBL | EBTL | NBL | SBTL | EBL | WBT | |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag | |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Recall Mode | None | C-Max | None | None | None | C-Max | None | None | |
| Maximum Split (s) | 12 | 36 | 19 | 23 | 12 | 36 | 12 | 30 | |
| Maximum Split (%) | 13.3% | 40.0% | 21.1% | 25.6% | 13.3% | 40.0% | 13.3% | 33.3% | |
| Minimum Split (s) | 12 | 23 | 12 | 23 | 12 | 23 | 12 | 23 | |
| Yellow Time (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| All-Red Time (s) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Minimum Initial (s) | 7 | 10 | 7 | 10 | 7 | 10 | 7 | 10 | |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Walk Time (s) | | 7 | | 7 | | 7 | | 7 | |
| Flash Dont Walk (s) | | 11 | | 11 | | 11 | | 11 | |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes | |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Start Time (s) | 0 | 12 | 48 | 67 | 0 | 12 | 48 | 60 | |
| End Time (s) | 12 | 48 | 67 | 0 | 12 | 48 | 60 | 0 | |
| Yield/Force Off (s) | 7 | 43 | 62 | 85 | 7 | 43 | 55 | 85 | |
| Yield/Force Off 170(s) | 7 | 32 | 62 | 74 | 7 | 32 | 55 | 74 | |
| Local Start Time (s) | 78 | 0 | 36 | 55 | 78 | 0 | 36 | 48 | |
| Local Yield (s) | 85 | 31 | 50 | 73 | 85 | 31 | 43 | 73 | |
| Local Yield 170(s) | 85 | 20 | 50 | 62 | 85 | 20 | 43 | 62 | |
| Intersection Summary | | | | | | | | | |
| Cycle Length | | | 90 | | | | | | |
| Control Type | Actu | ated-Coo | | | | | | | |
| Natural Cycle | | | 70 | | | | | | |
| Offset: 12 (13%), Referenced | to phase | 2:NBTL | and 6:SB | TL, Start | of Green | | | | |
| Splits and Phases: 6: New | Albany R | Road F & | Central C | ollege Rr | nad | | | | |
| | | .544 - 4 | 20111101 | shogo rec | | 1 | | | A |
| Ø1 1 Ø2 (| R) | | | | | √r ø3 | | | 104 |

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|---|------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|----------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ሻ | ∱ ⊅ | | ሻሻ | ተ ኈ | | ሻ | ^ | 7 | ሻ | ^ | 7 |
| Traffic Volume (veh/h) | 78 | 181 | 29 | 299 | 245 | 30 | 53 | 462 | 185 | 115 | 719 | 137 |
| Future Volume (veh/h) | 78 | 181 | 29 | 299 | 245 | 30 | 53 | 462 | 185 | 115 | 719 | 137 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 85 | 197 | 32 | 325 | 266 | 33 | 58 | 502 | 201 | 125 | 782 | 149 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 292 | 341 | 54 | 409 | 513 | 63 | 393 | 1684 | 939 | 501 | 1737 | 883 |
| Arrive On Green | 0.07 | 0.11 | 0.11 | 0.12 | 0.16 | 0.16 | 0.06 | 0.47 | 0.47 | 0.07 | 0.49 | 0.49 |
| Sat Flow, veh/h | 1781 | 3068 | 490 | 3456 | 3186 | 391 | 1781 | 3554 | 1585 | 1781 | 3554 | 1585 |
| Grp Volume(v), veh/h | 85 | 113 | 116 | 325 | 147 | 152 | 58 | 502 | 201 | 125 | 782 | 149 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1777 | 1782 | 1728 | 1777 | 1800 | 1781 | 1777 | 1585 | 1781 | 1777 | 1585 |
| Q Serve(g_s), s | 3.7 | 5.4 | 5.6 | 8.2 | 6.8 | 7.0 | 1.4 | 7.8 | 5.3 | 3.1 | 13.0 | 4.1 |
| Cycle Q Clear(g_c), s | | 5.4 | 5.6 | 8.2 | 6.8 | 7.0 | 1.4 | 7.8 | 5.3 | 3.1 | 13.0 | 4.1 |
| Prop In Lane | 1.00 | 197 | 0.28 198 | 1.00 | 286 | 0.22 290 | 1.00 393 | 1684 | 1.00 939 | 1.00 | 1737 | 1.00 |
| Lane Grp Cap(c), veh/h V/C Ratio(X) | 0.29 | 0.57 | 0.59 | 0.79 | 0.51 | 0.52 | 0.15 | 0.30 | 0.21 | 0.25 | 0.45 | 0.17 |
| Avail Cap(c_a), veh/h | 309 | 355 | 356 | 538 | 494 | 500 | 426 | 1684 | 939 | 507 | 1737 | 883 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 31.8 | 38.0 | 38.0 | 38.6 | 34.5 | 34.6 | 11.0 | 14.5 | 8.6 | 10.3 | 15.1 | 9.7 |
| Incr Delay (d2), s/veh | 0.5 | 2.6 | 2.8 | 6.1 | 1.4 | 1.5 | 0.2 | 0.5 | 0.5 | 0.3 | 0.8 | 0.4 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.6 | 2.4 | 2.5 | 3.7 | 3.0 | 3.1 | 0.5 | 3.0 | 1.8 | 1.1 | 5.1 | 1.4 |
| Unsig. Movement Delay, s/veh | | 2 | 2.0 | 017 | 0,0 | 0,, | 0.0 | 0.0 | 110 | | 0 | |
| LnGrp Delay(d),s/veh | 32.4 | 40.6 | 40.8 | 44.7 | 36.0 | 36.1 | 11.1 | 15.0 | 9.1 | 10.5 | 15.9 | 10.1 |
| LnGrp LOS | С | D | D | D | D | D | В | В | А | В | В | В |
| Approach Vol, veh/h | | 314 | | | 624 | | | 761 | | | 1056 | |
| Approach Delay, s/veh | | 38.4 | | | 40.5 | | | 13.1 | | | 14.5 | |
| Approach LOS | | D | | | D | | | В | | | В | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| | 11.7 | | 15.7 | | | 49.0 | 11 2 | | | | | |
| Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s | 5.0 | 47.7 5.0 | 5.0 | 15.0 5.0 | 10.4 | 5.0 | 11.2 5.0 | 19.5 5.0 | | | | |
| Max Green Setting (Gmax), s | 7.0 | 31.0 | 14.0 | 18.0 | 7.0 | 31.0 | 7.0 | 25.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 5.1 | 9.8 | 10.2 | 7.6 | 3.4 | 15.0 | 5.7 | 9.0 | | | | |
| Green Ext Time (p_c), s | 0.1 | 3.9 | 0.4 | 0.8 | 0.0 | 5.3 | 0.0 | 1.4 | | | | |
| | 0.1 | 5.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | Т.Т | | | | |
| Intersection Summary | | | 0.5 = | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 22.7 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |

Timing Report, Sorted By Phase 8: Walton Parkway/EMH&T Driveway & New Albany Road E

| | 4 | - ≪\ | * | 1 |
|----------------------------|-------------|-----------|------------|----------|
| Phase Number | 2 | 4 | 6 | 8 |
| Movement | EBTL | NBTL | WBTL | SBTL |
| Lead/Lag | _ | | | |
| Lead-Lag Optimize | | | | |
| Recall Mode | C-Max | Max | Max | Max |
| Maximum Split (s) | 41 | 49 | 41 | 49 |
| Maximum Split (%) | 45.6% | 54.4% | 45.6% | 54.4% |
| Minimum Split (s) | 23 | 23 | 23 | 23 |
| Yellow Time (s) | 3 | 3 | 3 | 3 |
| All-Red Time (s) | 2 | 2 | 2 | 2 |
| Minimum Initial (s) | 10 | 10 | 10 | 10 |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 | 0 |
| Walk Time (s) | 7 | 7 | 7 | 7 |
| Flash Dont Walk (s) | 11 | 11 | 11 | 11 |
| Dual Entry | Yes | Yes | Yes | Yes |
| Inhibit Max | Yes | Yes | Yes | Yes |
| Start Time (s) | 0 | 41 | 0 | 41 |
| End Time (s) | 41 | 0 | 41 | 0 |
| Yield/Force Off (s) | 36 | 85 | 36 | 85 |
| Yield/Force Off 170(s) | 25 | 74 | 25 | 74 |
| | 25 | 41 | 25 | 41 |
| Local Start Time (s) | | | | |
| Local Yield (s) | 36 | 85 | 36 25 | 85 |
| Local Yield 170(s) | 25 | 74 | 25 | 74 |
| Intersection Summary | | | | |
| Cycle Length | | | 90 | |
| Control Type | Actu | ated-Cool | rdinated | |
| Natural Cycle | | | 50 | |
| Offset: 0 (0%), Referenced | to phase 2 | :EBTL, St | art of Gre | een |
| | | | | |
| Splits and Phases: 8: Wa | Ilton Parkw | ay/EMH& | T Drivew | ay & New |
| A | | | | 4 |
| Ø2 (R) | | | | - 40 |
| 418 | | | | 49 |
| ₩ Ø6 | | | | ١, |
| 41 s | | | | 49 |

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|---|-------------|------------|-------------|-------------|--------------|------|------|-------------|--------------|--------------|----------|--------------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | ∱ ∱ | | ሻ | ተ ኈ | | 7 | ₽ | | 7 | ₽ | |
| Traffic Volume (veh/h) | 5 | 627 | 100 | 20 | 880 | 0 | 462 | 7 | 55 | 10 | 17 | 53 |
| Future Volume (veh/h) | 5 | 627 | 100 | 20 | 880 | 0 | 462 | 7 | 55 | 10 | 17 | 53 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 5 | 682 | 109 | 22 | 957 | 0 | 502 | 8 | 60 | 11 | 18 | 58 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 185 | 1228 | 196 | 237 | 1421 | 0.00 | 694 | 93 | 696 | 702 | 190 | 614 |
| Arrive On Green | 0.40 587 | 0.40 | 0.40 490 | 0.40 685 | 0.40 3647 | 0.00 | 0.49 | 0.49 190 | 0.49 1424 | 0.49 1333 | 0.49 | 0.49 1255 |
| Sat Flow, veh/h | 5 | 395 | 396 | 22 | 957 | 0 | 502 | 0 | 68 | 11 | 309 | 76 |
| Grp Volume(v), veh/h Grp Sat Flow(s),veh/h/ln | 587 | 1777 | 1782 | 685 | 1777 | 0 | 1323 | 0 | 1614 | 1333 | 0 | 1644 |
| Q Serve(q_s), s | 0.6 | 15.4 | 15.4 | 2.3 | 19.9 | 0.0 | 29.5 | 0.0 | 2.0 | 0.4 | 0.0 | 2.2 |
| Cycle Q Clear(g_c), s | 20.5 | 15.4 | 15.4 | 17.8 | 19.9 | 0.0 | 31.7 | 0.0 | 2.0 | 2.4 | 0.0 | 2.2 |
| Prop In Lane | 1.00 | 13.4 | 0.27 | 1.00 | 17.7 | 0.00 | 1.00 | 0.0 | 0.88 | 1.00 | 0.0 | 0.76 |
| Lane Grp Cap(c), veh/h | 185 | 711 | 713 | 237 | 1421 | 0.00 | 694 | 0 | 789 | 702 | 0 | 804 |
| V/C Ratio(X) | 0.03 | 0.56 | 0.56 | 0.09 | 0.67 | 0.00 | 0.72 | 0.00 | 0.09 | 0.02 | 0.00 | 0.09 |
| Avail Cap(c_a), veh/h | 185 | 711 | 713 | 237 | 1421 | 0.00 | 694 | 0.00 | 789 | 702 | 0.00 | 804 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 30.6 | 20.8 | 20.8 | 27.7 | 22.2 | 0.0 | 20.8 | 0.0 | 12.3 | 12.9 | 0.0 | 12.3 |
| Incr Delay (d2), s/veh | 0.3 | 3.1 | 3.1 | 0.8 | 2.6 | 0.0 | 6.4 | 0.0 | 0.2 | 0.0 | 0.0 | 0.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.1 | 6.6 | 6.7 | 0.4 | 8.3 | 0.0 | 9.6 | 0.0 | 0.7 | 0.1 | 0.0 | 0.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 30.9 | 23.9 | 23.9 | 28.5 | 24.7 | 0.0 | 27.3 | 0.0 | 12.5 | 13.0 | 0.0 | 12.6 |
| LnGrp LOS | С | С | С | С | С | А | С | А | В | В | А | В |
| Approach Vol, veh/h | | 796 | | | 979 | | | 570 | | | 87 | |
| Approach Delay, s/veh | | 24.0 | | | 24.8 | | | 25.5 | | | 12.6 | |
| Approach LOS | | С | | | С | | | С | | | В | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 41.0 | | 49.0 | | 41.0 | | 49.0 | | | | |
| Change Period (Y+Rc), s | | 5.0 | | 5.0 | | 5.0 | | 5.0 | | | | |
| Max Green Setting (Gmax), s | | 36.0 | | 44.0 | | 36.0 | | 44.0 | | | | |
| Max Q Clear Time (g_c+l1), s | | 22.5 | | 33.7 | | 21.9 | | 4.4 | | | | |
| Green Ext Time (p_c), s | | 4.1 | | 1.7 | | 5.8 | | 0.5 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 24.3 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |

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|----------------------------|-------------|----------|------------|------------|
| Phase Number | 2 | 4 | 6 | 8 |
| Movement | NBTL | EBTL | SBTL | WBTL |
| Lead/Lag | INDIL | LUIL | JUIL | VVDIL |
| Lead-Lag Optimize | | | | |
| Recall Mode | C-Max | None | C-Max | None |
| Maximum Split (s) | C-IVIAX 58 | 32 | C-IVIAX 58 | 32 |
| Maximum Split (%) | 64.4% | 35.6% | 64.4% | 35.6% |
| | 22.5 | 22.5 | 22.5 | 22.5 |
| Minimum Split (s) | | | | |
| Yellow Time (s) | 3.5 | 3.5 | 3.5 | 3.5 |
| All-Red Time (s) | 1 | 1 | 1 | 1 |
| Minimum Initial (s) | 5 | 5 | 5 | 5 |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 | 0 |
| Walk Time (s) | 7 | 7 | 7 | 7 |
| Flash Dont Walk (s) | 11 | 11 | 11 | 11 |
| Dual Entry | Yes | Yes | Yes | Yes |
| Inhibit Max | Yes | Yes | Yes | Yes |
| Start Time (s) | 0 | 58 | 0 | 58 |
| End Time (s) | 58 | 0 | 58 | 0 |
| Yield/Force Off (s) | 53.5 | 85.5 | 53.5 | 85.5 |
| Yield/Force Off 170(s) | 42.5 | 74.5 | 42.5 | 74.5 |
| Local Start Time (s) | 0 | 58 | 0 | 58 |
| Local Yield (s) | 53.5 | 85.5 | 53.5 | 85.5 |
| Local Yield 170(s) | 42.5 | 74.5 | 42.5 | 74.5 |
| Intersection Summary | | | | |
| Cycle Length | | | 90 | |
| Control Type | Actua | ated-Coo | rdinated | |
| Natural Cycle | | | 60 | |
| Offset: 0 (0%), Referenced | to phase 2: | :NBTL an | | , Start of |
| (), | | | | |
| Splits and Phases: 12: N | ew Albany- | Condit R | oad & Wa | ılton Park |
| Ø2 (R) | | | | |
| 58 s | | | | |
| L. | | | | |
| ● ▼ Ø6 (R) | | | | |
| 58 c | | | | |

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|------------------------------|-----------|----------|------------|--------------|----------|-----------|-----------|-------------|-------------|-----------|----------|------------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ሻ | ₽ | | ሻ | 1> | | ሻ | f) | | | ₽ | |
| Traffic Volume (veh/h) | 57 | 140 | 173 | 49 | 120 | 157 | 77 | 544 | 15 | 172 | 467 | 26 |
| Future Volume (veh/h) | 57 | 140 | 173 | 49 | 120 | 157 | 77 | 544 | 15 | 172 | 467 | 26 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 62 | 152 | 188 | 53 | 130 | 171 | 84 | 591 | 16 | 187 | 508 | 28 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 194 | 201 | 249 | 164 | 194 | 255 | 503 | 1152 | 31 | 454 | 1116 | 62 |
| Arrive On Green | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 |
| Sat Flow, veh/h | 1078 | 760 | 941 | 1040 | 733 | 964 | 869 | 1812 | 49 | 813 | 1756 | 97 |
| Grp Volume(v), veh/h | 62 | 0 | 340 | 53 | 0 | 301 | 84 | 0 | 607 | 187 | 0 | 536 |
| Grp Sat Flow(s), veh/h/ln | 1078 | 0 | 1701 | 1040 | 0 | 1697 | 869 | 0 | 1862 | 813 | 0 | 1853 |
| Q Serve(g_s), s | 4.9 | 0.0 | 16.5 | 4.4 | 0.0 | 14.3 | 4.9 | 0.0 | 15.9 | 14.5 | 0.0 | 13.3 |
| Cycle Q Clear(g_c), s | 19.2 | 0.0 | 16.5 | 21.0 | 0.0 | 14.3 | 18.3 | 0.0 | 15.9 | 30.4 | 0.0 | 13.3 |
| Prop In Lane | 1.00 | | 0.55 | 1.00 | | 0.57 | 1.00 | | 0.03 | 1.00 | | 0.05 |
| Lane Grp Cap(c), veh/h | 194 | 0 | 450 | 164 | 0 | 449 | 503 | 0 | 1183 | 454 | 0 | 1178 |
| V/C Ratio(X) | 0.32 | 0.00 | 0.76 | 0.32 | 0.00 | 0.67 | 0.17 | 0.00 | 0.51 | 0.41 | 0.00 | 0.46 |
| Avail Cap(c_a), veh/h | 238 | 0 | 520 | 207 | 0 | 518 | 503 | 0 | 1183 | 454 | 0 | 1178 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 38.2 | 0.0 | 30.4 | 40.1 | 0.0 | 29.6 | 13.1 | 0.0 | 8.9 | 17.1 | 0.0 | 8.4 |
| Incr Delay (d2), s/veh | 0.9 | 0.0 | 5.4 | 1.1 | 0.0 | 2.7 | 0.7 | 0.0 | 1.6 | 2.8 | 0.0 | 1.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 7.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 4.6 |
| %ile BackOfQ(50%),veh/ln | | 0.0 | 1.2 | 1.2 | 0.0 | 5.9 | 1.0 | 0.0 | 5.9 | 2.8 | 0.0 | 4.0 |
| Unsig. Movement Delay, s/veh | 39.1 | 0.0 | 35.8 | <i>1</i> 1 つ | 0.0 | 32.4 | 13.8 | 0.0 | 10.5 | 19.8 | 0.0 | 9.7 |
| LnGrp Delay(d),s/veh | 39.1 D | 0.0 A | 30.8 D | 41.2 D | 0.0 A | 32.4 C | 13.8 B | 0.0 A | 10.5 B | 19.8 B | 0.0 A | |
| LnGrp LOS | D | 402 | D | D | 354 | C | Ь | | Ь | В | 723 | A |
| Approach Polov, s/voh | | 36.3 | | | 33.7 | | | 691 10.9 | | | 12.3 | |
| Approach LOS | | | | | _ | | | _ | | | _ | |
| Approach LOS | | D | | | С | | | В | | | В | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 61.7 | | 28.3 | | 61.7 | | 28.3 | | | | |
| Change Period (Y+Rc), s | | 4.5 | | 4.5 | | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | | 53.5 | | 27.5 | | 53.5 | | 27.5 | | | | |
| Max Q Clear Time (g_c+l1), s | | 20.3 | | 21.2 | | 32.4 | | 23.0 | | | | |
| Green Ext Time (p_c), s | | 5.0 | | 1.2 | | 4.4 | | 0.8 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 19.8 | | | | | | | | | |
| HCM 6th LOS | | | В | | | | | | | | | |

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|-------------------------------------|----------|------|--|-------------|------------|------------|------|---|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | |
| Lane Configurations | | 7 | ###################################### | | | ^ | | |
| Traffic Volume (veh/h) | 0 | 7 | 674 | 37 | 0 | 974 | | |
| Future Volume (Veh/h) | 0 | 7 | 674 | 37 | 0 | 974 | | |
| Sign Control | Stop | | Free | | | Free | | |
| Grade | 0% | | 0% | | | 0% | | |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | | |
| Hourly flow rate (vph) | 0.72 | 8 | 733 | 40 | 0 | 1059 | | |
| Pedestrians | | Ü | 700 | 10 | 0 | 1007 | | |
| Lane Width (ft) | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | |
| Percent Blockage | | | | | | | | |
| Right turn flare (veh) | | | | | | | | |
| Median type | | | None | | | None | | |
| Median storage veh) | | | NONE | | | NOIR | | |
| 9 , | | | | | | 270 | | |
| Upstream signal (ft) | ٥ ٥٢ | | | | | 270 | | |
| pX, platoon unblocked | 0.85 | 202 | | | 770 | | | |
| vC, conflicting volume | 1282 | 203 | | | 773 | | | |
| vC1, stage 1 conf vol | | | | | | | | |
| vC2, stage 2 conf vol | 074 | 000 | | | 770 | | | |
| vCu, unblocked vol | 971 | 203 | | | 773 | | | |
| tC, single (s) | 6.8 | 6.9 | | | 4.1 | | | |
| tC, 2 stage (s) | | | | | | | | |
| tF (s) | 3.5 | 3.3 | | | 2.2 | | | |
| p0 queue free % | 100 | 99 | | | 100 | | | |
| cM capacity (veh/h) | 212 | 804 | | | 838 | | | |
| Direction, Lane # | WB 1 | NB 1 | NB 2 | NB 3 | NB 4 | SB 1 | SB 2 | |
| Volume Total | 8 | 209 | 209 | 209 | 145 | 530 | 530 | |
| Volume Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Volume Right | 8 | 0 | 0 | 0 | 40 | 0 | 0 | |
| cSH | 804 | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 | |
| Volume to Capacity | 0.01 | 0.12 | 0.12 | 0.12 | 0.09 | 0.31 | 0.31 | |
| Queue Length 95th (ft) | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Control Delay (s) | 9.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Lane LOS | A | | 3.0 | 3.0 | 3.0 | 2.0 | | |
| Approach Delay (s) | 9.5 | 0.0 | | | | 0.0 | | |
| Approach LOS | A | | | | | | | |
| | , , | | | | | | | |
| Intersection Summary Average Delay | | | 0.0 | | | | | |
| Average Delay | zotion | | 0.0 | 10 | III ovol : | of Condoc | | ٨ |
| Intersection Capacity Utiliz | <u> </u> | | 30.3% | IC | U Level (| of Service | | А |
| Analysis Period (min) | | | 15 | | | | | |

| | • | → | • | • | ← | • | • | † | <i>></i> | \ | ļ | 4 |
|-------------------------------|-------|------------|-------|------|------------|------------|------|----------|-------------|----------|------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 1/4 | ↑ ↑ | | 7 | ∱ } | | | 4 | | ň | f) | 7 |
| Traffic Volume (veh/h) | 7 | 463 | 30 | 32 | 465 | 7 | 37 | 4 | 23 | 38 | 6 | 38 |
| Future Volume (Veh/h) | 7 | 463 | 30 | 32 | 465 | 7 | 37 | 4 | 23 | 38 | 6 | 38 |
| Sign Control | | Free | | | Free | | | Stop | | | Stop | |
| Grade | | 0% | | | 0% | | | 0% | | | 0% | |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Hourly flow rate (vph) | 8 | 503 | 33 | 35 | 505 | 8 | 40 | 4 | 25 | 41 | 7 | 41 |
| Pedestrians | | | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | 5 |
| Median type | | None | | | None | | | | | | | |
| Median storage veh) | | | | | | | | | | | | |
| Upstream signal (ft) | | 791 | | | 679 | | | | | | | |
| pX, platoon unblocked | | | | 0.99 | | | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | |
| vC, conflicting volume | 513 | | | 536 | | | 862 | 1118 | 268 | 874 | 1131 | 256 |
| vC1, stage 1 conf vol | | | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 513 | | | 518 | | | 846 | 1104 | 248 | 858 | 1117 | 256 |
| tC, single (s) | 4.1 | | | 4.1 | | | 7.5 | 6.5 | 6.9 | 7.5 | 6.5 | 6.9 |
| tC, 2 stage (s) | | | | | | | | | | | | |
| tF (s) | 2.2 | | | 2.2 | | | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 |
| p0 queue free % | 99 | | | 97 | | | 82 | 98 | 97 | 82 | 96 | 94 |
| cM capacity (veh/h) | 1049 | | | 1037 | | | 226 | 199 | 747 | 229 | 196 | 743 |
| Direction, Lane # | EB 1 | EB 2 | EB3 | EB 4 | WB 1 | WB 2 | WB 3 | NB 1 | SB 1 | SB 2 | | |
| Volume Total | 4 | 4 | 335 | 201 | 35 | 337 | 176 | 69 | 41 | 48 | | |
| Volume Left | 4 | 4 | 0 | 0 | 35 | 0 | 0 | 40 | 41 | 0 | | |
| Volume Right | 0 | 0 | 0 | 33 | 0 | 0 | 8 | 25 | 0 | 41 | | |
| cSH | 1049 | 1049 | 1700 | 1700 | 1037 | 1700 | 1700 | 299 | 229 | 869 | | |
| Volume to Capacity | 0.01 | 0.01 | 0.20 | 0.12 | 0.03 | 0.20 | 0.10 | 0.23 | 0.18 | 0.06 | | |
| Queue Length 95th (ft) | 1 | 1 | 0 | 0 | 3 | 0 | 0 | 22 | 16 | 4 | | |
| Control Delay (s) | 8.5 | 8.5 | 0.0 | 0.0 | 8.6 | 0.0 | 0.0 | 20.6 | 24.1 | 12.2 | | |
| Lane LOS | А | А | | | А | | | С | С | В | | |
| Approach Delay (s) | 0.1 | | | | 0.5 | | | 20.6 | 17.7 | | | |
| Approach LOS | | | | | | | | С | С | | | |
| Intersection Summary | | | | | | | | | | | | |
| Average Delay | | | 2.7 | | | | | | | | | |
| Intersection Capacity Utiliza | ation | | 37.4% | IC | CU Level | of Service | | | А | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |

| Intersection | | | | | | | | | | | | |
|------------------------|--------|-------|-------|--------|--------|-------|--------|------|------|--------|------|------|
| Int Delay, s/veh | 1.8 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 4 | | | 4 | | ሻ | ĵ. | | ሻ | 1→ | |
| Traffic Vol, veh/h | 17 | 0 | 37 | 6 | 0 | 7 | 44 | 753 | 9 | 9 | 575 | 23 |
| Future Vol, veh/h | 17 | 0 | 37 | 6 | 0 | 7 | 44 | 753 | 9 | 9 | 575 | 23 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 200 | - | - | 225 | - | - |
| Veh in Median Storage | e,# - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 18 | 0 | 40 | 7 | 0 | 8 | 48 | 818 | 10 | 10 | 625 | 25 |
| | | | | | | | | | | | | |
| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | | Major2 | | |
| Conflicting Flow All | 1581 | 1582 | 638 | 1597 | 1589 | 823 | 650 | 0 | 0 | 828 | 0 | 0 |
| Stage 1 | 658 | 658 | - | 919 | 919 | - | - | - | - | - | - | - |
| Stage 2 | 923 | 924 | - | 678 | 670 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 88 | 109 | 477 | 86 | 108 | 373 | 936 | - | - | 803 | - | - |
| Stage 1 | 453 | 461 | - | 325 | 350 | - | - | - | - | - | - | - |
| Stage 2 | 323 | 348 | - | 442 | 455 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 82 | 102 | 477 | 75 | 101 | 373 | 936 | - | - | 803 | - | - |
| Mov Cap-2 Maneuver | 82 | 102 | - | 75 | 101 | - | - | - | - | - | - | - |
| Stage 1 | 430 | 455 | - | 308 | 332 | - | - | - | - | - | - | - |
| Stage 2 | 300 | 330 | - | 400 | 450 | - | - | - | - | - | - | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Control Delay, s | 32.2 | | | 35.5 | | | 0.5 | | | 0.1 | | |
| HCM LOS | D | | | Ε | | | | | | | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvm | nt | NBL | NBT | NBR | EBLn1V | VBLn1 | SBL | SBT | SBR | | | |
| Capacity (veh/h) | | 936 | - | - | 190 | 132 | 803 | - | - | | | |
| HCM Lane V/C Ratio | | 0.051 | - | - | 0.309 | 0.107 | 0.012 | - | - | | | |
| HCM Control Delay (s) | | 9.1 | - | - | 32.2 | 35.5 | 9.5 | - | - | | | |
| HCM Lane LOS | | А | - | - | D | Е | А | - | - | | | |
| HCM 95th %tile Q(veh |) | 0.2 | - | - | 1.2 | 0.4 | 0 | - | - | | | |
| | | | | | | | | | | | | |

| Intersection | | | | | | | | | | | | |
|------------------------|--------|-------|-------|--------|--------|--------|---------|------|----------|--------|------|------|
| Int Delay, s/veh | 0.8 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 4 | | ሻ | î, | | ሻ | ĵ. | | ሻ | f) | |
| Traffic Vol, veh/h | 4 | 0 | 5 | 12 | 0 | 7 | 7 | 782 | 20 | 13 | 599 | 6 |
| Future Vol., veh/h | 4 | 0 | 5 | 12 | 0 | 7 | 7 | 782 | 20 | 13 | 599 | 6 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | 0 | - | - | 225 | - | - | 200 | - | - |
| Veh in Median Storage | ≘,# - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 4 | 0 | 5 | 13 | 0 | 8 | 8 | 850 | 22 | 14 | 651 | 7 |
| | | | | | | | | | | | | |
| Major/Minor | Minor2 | | | Minor1 | | | Major1 | | <u> </u> | Major2 | | |
| Conflicting Flow All | 1564 | 1571 | 655 | 1562 | 1563 | 861 | 658 | 0 | 0 | 872 | 0 | 0 |
| Stage 1 | 683 | 683 | - | 877 | 877 | - | - | - | - | - | - | - |
| Stage 2 | 881 | 888 | - | 685 | 686 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 91 | 110 | 466 | 91 | 112 | 355 | 930 | - | - | 773 | - | - |
| Stage 1 | 439 | 449 | - | 343 | 366 | - | - | - | - | - | - | - |
| Stage 2 | 341 | 362 | - | 438 | 448 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | | - | - |
| Mov Cap-1 Maneuver | 87 | 107 | 466 | 88 | 109 | 355 | 930 | - | - | 773 | - | - |
| Mov Cap-2 Maneuver | 87 | 107 | - | 88 | 109 | - | - | - | - | - | - | - |
| Stage 1 | 435 | 441 | - | 340 | 363 | - | - | - | - | - | - | - |
| Stage 2 | 331 | 359 | - | 425 | 440 | - | - | - | - | - | - | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Control Delay, s | 29.1 | | | 39.1 | | | 0.1 | | | 0.2 | | |
| HCM LOS | D | | | Е | | | | | | | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvn | nt | NBL | NBT | NBR | EBLn1V | VBLn1\ | WBLn2 | SBL | SBT | SBR | | |
| Capacity (veh/h) | | 930 | _ | - | 159 | 88 | 355 | 773 | - | - | | |
| HCM Lane V/C Ratio | | 0.008 | - | _ | | | 0.021 | | _ | _ | | |
| HCM Control Delay (s) |) | 8.9 | - | _ | 29.1 | 52.9 | 15.4 | 9.7 | - | - | | |
| HCM Lane LOS | | Α | _ | _ | D | F | C | A | _ | _ | | |
| HCM 95th %tile Q(veh |) | 0 | - | _ | 0.2 | 0.5 | 0.1 | 0.1 | - | - | | |
| | / | | | | 0.2 | 0.0 | · · · · | J | | | | |

With Improvements

Timing Report, Sorted By Phase 3: New Albany-Condit Road & Central College Road

| | * | $\Phi_{\mathbb{P}}$ | ** | \forall | > | <₽ | • | 4 | |
|--------------------------|------------|---------------------|----------|-------------|-------------|-------|-------|-------|----|
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Movement | NBL | SBTL | EBL | WBTL | SBL | NBTL | WBL | EBTL | |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag | |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Recall Mode | None | Max | None | None | None | Max | None | None | |
| Maximum Split (s) | 15 | 36.4 | 15 | 23.6 | 15 | 36.4 | 15 | 23.6 | |
| Maximum Split (%) | 16.7% | 40.4% | 16.7% | 26.2% | 16.7% | 40.4% | 16.7% | 26.2% | |
| Minimum Split (s) | 15 | 26.7 | 15 | 23.6 | 15 | 26.4 | 15 | 23 | |
| Yellow Time (s) | 3 | 4.7 | 3 | 3.6 | 3 | 4.4 | 3 | 3.6 | |
| All-Red Time (s) | 1.8 | 1 | 1.4 | 1 | 1.8 | 1 | 1.4 | 1 | |
| Minimum Initial (s) | 10 | 20 | 10 | 15 | 10 | 20 | 10 | 15 | |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Walk Time (s) | | | | 7 | | 7 | | | |
| Flash Dont Walk (s) | | | | 11 | | 11 | | | |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes | |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Start Time (s) | 0 | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | |
| End Time (s) | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | 0 | |
| Yield/Force Off (s) | 10.2 | 45.7 | 62 | 85.4 | 10.2 | 46 | 62 | 85.4 | |
| Yield/Force Off 170(s) | 10.2 | 45.7 | 62 | 74.4 | 10.2 | 35 | 62 | 85.4 | |
| Local Start Time (s) | 75 | 0 | 36.4 | 51.4 | 75 | 0 | 36.4 | 51.4 | |
| Local Yield (s) | 85.2 | 30.7 | 47 | 70.4 | 85.2 | 31 | 47 | 70.4 | |
| Local Yield 170(s) | 85.2 | 30.7 | 47 | 59.4 | 85.2 | 20 | 47 | 70.4 | |
| Intersection Summary | | | | | | | | | |
| Cycle Length | | | 90 | | | | | | |
| Control Type | Actuate | d-Uncoo | | | | | | | |
| Natural Cycle | | | 85 | | | | | | |
| Splits and Phases: 3: Ne | w Albany-C | ondit Ro | ad & Cen | tral Collec | ne Road | | | | |
| | lu. | oriali reo | <u> </u> | trai oono | gertoda | 14 | | | |
| \$ Ø1 | Ø2 | | | | | | Ø3 | | _ |
| 15 s 36.4 | 4 S | | | | | 15 s | | | 2: |

HY AM No Build w/ Improvements

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|------------------------------|-------|----------|-------|------|------------|-------|-------|----------|------|-------------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | Ť | † | 7 | ሻ | ∱ β | | ሻ | † | 7 | ሻ | † | 7 |
| Traffic Volume (veh/h) | 39 | 150 | 136 | 89 | 300 | 125 | 148 | 400 | 29 | 84 | 355 | 39 |
| Future Volume (veh/h) | 39 | 150 | 136 | 89 | 300 | 125 | 148 | 400 | 29 | 84 | 355 | 39 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 42 | 163 | 148 | 97 | 326 | 136 | 161 | 435 | 32 | 91 | 386 | 42 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 300 | 334 | 468 | 383 | 519 | 212 | 486 | 706 | 598 | 447 | 684 | 698 |
| Arrive On Green | 0.07 | 0.18 | 0.18 | 0.11 | 0.21 | 0.21 | 0.12 | 0.38 | 0.38 | 0.10 | 0.37 | 0.37 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1781 | 2460 | 1006 | 1781 | 1870 | 1585 | 1781 | 1870 | 1585 |
| Grp Volume(v), veh/h | 42 | 163 | 148 | 97 | 234 | 228 | 161 | 435 | 32 | 91 | 386 | 42 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1781 | 1777 | 1689 | 1781 | 1870 | 1585 | 1781 | 1870 | 1585 |
| Q Serve(g_s), s | 1.5 | 6.6 | 6.1 | 3.4 | 10.0 | 10.3 | 4.3 | 15.8 | 1.1 | 2.4 | 13.8 | 1.3 |
| Cycle Q Clear(g_c), s | 1.5 | 6.6 | 6.1 | 3.4 | 10.0 | 10.3 | 4.3 | 15.8 | 1.1 | 2.4 | 13.8 | 1.3 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.60 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 300 | 334 | 468 | 383 | 375 | 357 | 486 | 706 | 598 | 447 | 684 | 698 |
| V/C Ratio(X) | 0.14 | 0.49 | 0.32 | 0.25 | 0.62 | 0.64 | 0.33 | 0.62 | 0.05 | 0.20 | 0.56 | 0.06 |
| Avail Cap(c_a), veh/h | 392 | 423 | 543 | 418 | 402 | 382 | 495 | 706 | 598 | 477 | 684 | 698 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 24.3 | 31.0 | 23.0 | 22.7 | 30.1 | 30.2 | 13.7 | 21.2 | 16.6 | 13.9 | 21.3 | 13.5 |
| Incr Delay (d2), s/veh | 0.2 | 1.1 | 0.4 | 0.3 | 2.7 | 3.2 | 0.4 | 4.0 | 0.2 | 0.2 | 3.3 | 0.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.6 | 3.0 | 2.2 | 1.4 | 4.3 | 4.2 | 1.6 | 7.0 | 0.4 | 0.8 | 6.0 | 0.5 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 24.5 | 32.1 | 23.4 | 23.1 | 32.8 | 33.4 | 14.1 | 25.2 | 16.8 | 14.1 | 24.6 | 13.7 |
| LnGrp LOS | С | С | С | С | С | С | В | С | В | В | С | В |
| Approach Vol, veh/h | | 353 | | | 559 | | | 628 | | | 519 | |
| Approach Delay, s/veh | | 27.5 | | | 31.4 | | | 21.9 | | | 21.9 | |
| Approach LOS | | С | | | С | | | С | | | С | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 14.6 | 36.4 | 10.6 | 22.3 | 13.6 | 37.4 | 13.4 | 19.6 | | | | |
| Change Period (Y+Rc), s | * 4.8 | 5.7 | * 4.4 | 4.6 | * 4.8 | * 5.7 | * 4.4 | 4.6 | | | | |
| Max Green Setting (Gmax), s | * 10 | 30.7 | * 11 | 19.0 | * 10 | * 31 | * 11 | 19.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 6.3 | 15.8 | 3.5 | 12.3 | 4.4 | 17.8 | 5.4 | 8.6 | | | | |
| Green Ext Time (p_c), s | 0.3 | 1.9 | 0.0 | 1.4 | 0.1 | 2.1 | 0.1 | 1.0 | | | | |
| N / | 0.1 | 1.7 | 0.0 | 1.7 | 0.1 | ۷.۱ | 0.1 | 1.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 25.4 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |
| Motos | | | | | | | | | | | | |

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

| | \$ | \$⊳ | * | * | > | ⋖ф | • | * | |
|--------------------------|-------------|-----------|----------|------------|-------------|--------|-------|-------|-----|
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Movement | NBL | SBTL | EBL | WBTL | SBL | NBTL | WBL | EBTL | |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag | |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Recall Mode | None | Max | None | None | None | Max | None | None | |
| Maximum Split (s) | 15 | 36.4 | 15 | 23.6 | 15 | 36.4 | 15 | 23.6 | |
| Maximum Split (%) | 16.7% | 40.4% | 16.7% | 26.2% | 16.7% | 40.4% | 16.7% | 26.2% | |
| Minimum Split (s) | 15 | 26.7 | 15 | 23.6 | 15 | 26.4 | 15 | 23 | |
| Yellow Time (s) | 3 | 4.7 | 3 | 3.6 | 3 | 4.4 | 3 | 3.6 | |
| All-Red Time (s) | 1.8 | 1 | 1.4 | 1 | 1.8 | 1 | 1.4 | 1 | |
| Minimum Initial (s) | 10 | 20 | 10 | 15 | 10 | 20 | 10 | 15 | |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Walk Time (s) | | | | 7 | | 7 | | | |
| Flash Dont Walk (s) | | | | 11 | | 11 | | | |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes | |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Start Time (s) | 0 | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | |
| End Time (s) | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | 0 | |
| Yield/Force Off (s) | 10.2 | 45.7 | 62 | 85.4 | 10.2 | 46 | 62 | 85.4 | |
| Yield/Force Off 170(s) | 10.2 | 45.7 | 62 | 74.4 | 10.2 | 35 | 62 | 85.4 | |
| Local Start Time (s) | 75 | 0 | 36.4 | 51.4 | 75 | 0 | 36.4 | 51.4 | |
| Local Yield (s) | 85.2 | 30.7 | 47 | 70.4 | 85.2 | 31 | 47 | 70.4 | |
| Local Yield 170(s) | 85.2 | 30.7 | 47 | 59.4 | 85.2 | 20 | 47 | 70.4 | |
| ntersection Summary | | | | | | | | | |
| Cycle Length | | | 90 | | | | | | |
| Control Type | Actuate | ed-Uncoo | | | | | | | |
| Natural Cycle | | | 85 | | | | | | |
| Splits and Phases: 3: Ne | ew Albany-C | Condit Ro | ad & Cen | tral Colle | ge Road | | | | |
| \$ Ø1 | · | | | | | ₹ | | | 4 |
| | Ø2 | | | | | | Ø3 | | 22 |
| 15 s 36. | | | | | | 15 s | | | 23. |
| → | t ac | | | | | _ _/ | | | _ |

HY AM Build w/ Improvements Synchro 11 Report

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|------------------------------|-------|----------|-------|------|------------|-------|-------|----------|----------|----------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ķ | † | 7 | , N | ∱ } | | , | † | 7 | J. | ^ | 7 |
| Traffic Volume (veh/h) | 53 | 167 | 136 | 103 | 311 | 125 | 148 | 417 | 50 | 84 | 366 | 49 |
| Future Volume (veh/h) | 53 | 167 | 136 | 103 | 311 | 125 | 148 | 417 | 50 | 84 | 366 | 49 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 58 | 182 | 148 | 112 | 338 | 136 | 161 | 453 | 54 | 91 | 398 | 53 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 308 | 333 | 466 | 375 | 497 | 197 | 473 | 703 | 596 | 429 | 682 | 717 |
| Arrive On Green | 0.09 | 0.18 | 0.18 | 0.11 | 0.20 | 0.20 | 0.12 | 0.38 | 0.38 | 0.10 | 0.36 | 0.36 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1781 | 2487 | 983 | 1781 | 1870 | 1585 | 1781 | 1870 | 1585 |
| Grp Volume(v), veh/h | 58 | 182 | 148 | 112 | 240 | 234 | 161 | 453 | 54 | 91 | 398 | 53 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1870 | 1585 | 1781 | 1777 | 1693 | 1781 | 1870 | 1585 | 1781 | 1870 | 1585 |
| Q Serve(g_s), s | 2.1 | 7.5 | 6.1 | 4.0 | 10.5 | 10.8 | 4.3 | 16.8 | 1.9 | 2.4 | 14.5 | 1.6 |
| Cycle Q Clear(g_c), s | 2.1 | 7.5 | 6.1 | 4.0 | 10.5 | 10.8 | 4.3 | 16.8 | 1.9 | 2.4 | 14.5 | 1.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.58 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 308 | 333 | 466 | 375 | 355 | 339 | 473 | 703 | 596 | 429 | 682 | 717 |
| V/C Ratio(X) | 0.19 | 0.55 | 0.32 | 0.30 | 0.67 | 0.69 | 0.34 | 0.64 | 0.09 | 0.21 | 0.58 | 0.07 |
| Avail Cap(c_a), veh/h | 375 | 422 | 541 | 404 | 401 | 382 | 482 | 703 | 596 | 458 | 682 | 717 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 24.0 | 31.5 | 23.2 | 23.1 | 31.2 | 31.3 | 14.0 | 21.7 | 17.0 | 14.2 | 21.6 | 13.1 |
| Incr Delay (d2), s/veh | 0.3 | 1.4 | 0.4 | 0.4 | 3.8 | 4.6 | 0.4 | 4.5 | 0.3 | 0.2 | 3.6 | 0.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.9 | 3.4 | 2.2 | 1.6 | 4.6 | 4.5 | 1.6 | 7.5 | 0.7 | 0.9 | 6.3 | 0.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 24.2 | 32.9 | 23.5 | 23.6 | 35.0 | 35.8 | 14.4 | 26.2 | 17.3 | 14.4 | 25.2 | 13.3 |
| LnGrp LOS | С | С | С | С | С | D | В | С | В | В | С | В |
| Approach Vol, veh/h | | 388 | | | 586 | | | 668 | | | 542 | |
| Approach Delay, s/veh | | 28.0 | | | 33.1 | | | 22.6 | | | 22.3 | |
| Approach LOS | | С | | | С | | | С | | | С | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 14.6 | 36.4 | 11.8 | 21.4 | 13.6 | 37.4 | 13.7 | 19.6 | | | | |
| Change Period (Y+Rc), s | * 4.8 | 5.7 | * 4.4 | 4.6 | * 4.8 | * 5.7 | * 4.4 | 4.6 | | | | |
| Max Green Setting (Gmax), s | * 10 | 30.7 | * 11 | 19.0 | * 10 | * 31 | * 11 | 19.0 | | | | |
| Max Q Clear Time (g_c+I1), s | 6.3 | 16.5 | 4.1 | 12.8 | 4.4 | 18.8 | 6.0 | 9.5 | | | | |
| Green Ext Time (p_c), s | 0.1 | 1.9 | 0.0 | 1.3 | 0.1 | 2.2 | 0.1 | 1.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 26.3 | | | | | | | | | |
| HCM 6th LOS | | | | | | | | | | | | |
| | | | С | | | | | | | | | |

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

HY AM Build w/ Improvements

Synchro 11 Report

Timing Report, Sorted By Phase 3: New Albany-Condit Road & Central College Road

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|--------------------------|------------|-----------|----------|--------------|-------------------------|-------|-------|-------|----------------|
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Movement | NBL | SBTL | EBL | WBTL | SBL | NBTL | WBL | EBTL | |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag | |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Recall Mode | None | Max | None | None | None | Max | None | None | |
| Maximum Split (s) | 15 | 36.4 | 15 | 23.6 | 15 | 36.4 | 15 | 23.6 | |
| Maximum Split (%) | 16.7% | 40.4% | 16.7% | 26.2% | 16.7% | 40.4% | 16.7% | 26.2% | |
| Minimum Split (s) | 15 | 26.7 | 15 | 23.6 | 15 | 26.4 | 15 | 23 | |
| Yellow Time (s) | 3 | 4.7 | 3 | 3.6 | 3 | 4.4 | 3 | 3.6 | |
| All-Red Time (s) | 1.8 | 1 | 1.4 | 1 | 1.8 | 1 | 1.4 | 1 | |
| Minimum Initial (s) | 10 | 20 | 10 | 15 | 10 | 20 | 10 | 15 | |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Walk Time (s) | | | | 7 | | 7 | | | |
| Flash Dont Walk (s) | | | | 11 | | 11 | | | |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes | |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Start Time (s) | 0 | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | |
| End Time (s) | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | 0 | |
| Yield/Force Off (s) | 10.2 | 45.7 | 62 | 85.4 | 10.2 | 46 | 62 | 85.4 | |
| Yield/Force Off 170(s) | 10.2 | 45.7 | 62 | 74.4 | 10.2 | 35 | 62 | 85.4 | |
| Local Start Time (s) | 75 | 0 | 36.4 | 51.4 | 75 | 0 | 36.4 | 51.4 | |
| Local Yield (s) | 85.2 | 30.7 | 47 | 70.4 | 85.2 | 31 | 47 | 70.4 | |
| Local Yield 170(s) | 85.2 | 30.7 | 47 | 59.4 | 85.2 | 20 | 47 | 70.4 | |
| Intersection Summary | | | | | | | | | |
| Cycle Length | | | 90 | | | | | | |
| Control Type | Actuate | ed-Uncoo | | | | | | | |
| Natural Cycle | | | 85 | | | | | | |
| Splits and Phases: 3: Ne | w Albany-C | Condit Ro | ad & Cen | tral Collec | ge Road | | | | |
| \$ Ø1 | Uh. | | | | <i>y</i> v - | 1 | a2 | | ▼ Ø4 |
| 15 s 36.4 | Ø2 | | | | | 15 s | Ø3 | | ₩ Ø4 23.6 s |
| 10.5 | 19 | | | | | 15 8 | | | 23.03 |

HY PM No Build w/ Improvements

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|------------------------------|-------|----------|-------|------|------------|-------|-------|----------|------|-------------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ሻ | † | 7 | ሻ | ∱ ∱ | | ሻ | † | 7 | ሻ | † | 7 |
| Traffic Volume (veh/h) | 51 | 298 | 143 | 49 | 200 | 101 | 153 | 563 | 89 | 61 | 332 | 57 |
| Future Volume (veh/h) | 51 | 298 | 143 | 49 | 200 | 101 | 153 | 563 | 89 | 61 | 332 | 57 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 55 | 324 | 155 | 53 | 217 | 110 | 166 | 612 | 97 | 66 | 361 | 62 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 357 | 374 | 502 | 266 | 459 | 224 | 501 | 728 | 617 | 321 | 685 | 717 |
| Arrive On Green | 0.09 | 0.20 | 0.20 | 0.08 | 0.20 | 0.20 | 0.12 | 0.39 | 0.39 | 0.09 | 0.37 | 0.37 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1781 | 2314 | 1130 | 1781 | 1870 | 1585 | 1781 | 1870 | 1585 |
| Grp Volume(v), veh/h | 55 | 324 | 155 | 53 | 165 | 162 | 166 | 612 | 97 | 66 | 361 | 62 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 1585 | 1781 | 1777 | 1667 | 1781 | 1870 | 1585 | 1781 | 1870 | 1585 |
| Q Serve(g_s), s | 1.9 | 14.1 | 6.2 | 1.8 | 6.9 | 7.2 | 4.5 | 24.9 | 3.3 | 1.7 | 12.7 | 1.9 |
| Cycle Q Clear(g_c), s | 1.9 | 14.1 | 6.2 | 1.8 | 6.9 | 7.2 | 4.5 | 24.9 | 3.3 | 1.7 | 12.7 | 1.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.68 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 357 | 374 | 502 | 266 | 353 | 331 | 501 | 728 | 617 | 321 | 685 | 717 |
| V/C Ratio(X) | 0.15 | 0.87 | 0.31 | 0.20 | 0.47 | 0.49 | 0.33 | 0.84 | 0.16 | 0.21 | 0.53 | 0.09 |
| Avail Cap(c_a), veh/h | 429 | 424 | 544 | 341 | 403 | 378 | 509 | 728 | 617 | 371 | 685 | 717 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 22.5 | 32.5 | 21.7 | 23.4 | 29.7 | 29.8 | 13.5 | 23.2 | 16.7 | 16.2 | 20.9 | 13.1 |
| Incr Delay (d2), s/veh | 0.2 | 15.6 | 0.3 | 0.4 | 1.0 | 1.1 | 0.4 | 11.3 | 0.5 | 0.3 | 2.9 | 0.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.8 | 7.7 | 2.2 | 0.7 | 2.8 | 2.8 | 1.6 | 12.0 | 1.2 | 0.6 | 5.5 | 0.7 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 22.7 | 48.1 | 22.0 | 23.8 | 30.7 | 31.0 | 13.9 | 34.5 | 17.2 | 16.5 | 23.8 | 13.3 |
| LnGrp LOS | С | D | С | С | С | С | В | С | В | В | С | В |
| Approach Vol, veh/h | | 534 | | | 380 | | | 875 | | | 489 | |
| Approach Delay, s/veh | | 37.9 | | | 29.8 | | | 28.7 | | | 21.5 | |
| Approach LOS | | D | | | С | | | С | | | С | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 14.6 | 36.4 | 11.6 | 21.2 | 12.7 | 38.3 | 11.5 | 21.4 | | | | |
| Change Period (Y+Rc), s | * 4.8 | 5.7 | * 4.4 | 4.6 | * 4.8 | * 5.7 | * 4.4 | 4.6 | | | | |
| Max Green Setting (Gmax), s | * 10 | 30.7 | * 11 | 19.0 | * 10 | * 31 | * 11 | 19.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 6.5 | 14.7 | 3.9 | 9.2 | 3.7 | 26.9 | 3.8 | 16.1 | | | | |
| Green Ext Time (p_c), s | 0.3 | 1.8 | 0.0 | 1.2 | 0.1 | 1.5 | 0.0 | 0.7 | | | | |
| 4 , | 0.1 | 1.0 | 0.0 | 1.2 | 0.1 | 1.0 | 0.0 | 0.7 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 29.5 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |
| Motos | | | | | | | | | | | | |

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

| | * | \$⊳ | * | * | > | <₽ | • | * | |
|--------------------------|------------|-----------|----------|------------|-------------|-------|-------|-------|--------|
| Phase Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Movement | NBL | SBTL | EBL | WBTL | SBL | NBTL | WBL | EBTL | |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lead | Lag | |
| Lead-Lag Optimize | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Recall Mode | None | Max | None | None | None | Max | None | None | |
| Maximum Split (s) | 15 | 36.4 | 15 | 23.6 | 15 | 36.4 | 15 | 23.6 | |
| Maximum Split (%) | 16.7% | 40.4% | 16.7% | 26.2% | 16.7% | 40.4% | 16.7% | 26.2% | |
| Minimum Split (s) | 15 | 26.7 | 15 | 23.6 | 15 | 26.4 | 15 | 23 | |
| Yellow Time (s) | 3 | 4.7 | 3 | 3.6 | 3 | 4.4 | 3 | 3.6 | |
| All-Red Time (s) | 1.8 | 1 | 1.4 | 1 | 1.8 | 1 | 1.4 | 1 | |
| Minimum Initial (s) | 10 | 20 | 10 | 15 | 10 | 20 | 10 | 15 | |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Minimum Gap (s) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Time To Reduce (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Walk Time (s) | | | | 7 | | 7 | | | |
| Flash Dont Walk (s) | | | | 11 | | 11 | | | |
| Dual Entry | No | Yes | No | Yes | No | Yes | No | Yes | |
| Inhibit Max | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Start Time (s) | 0 | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | |
| End Time (s) | 15 | 51.4 | 66.4 | 0 | 15 | 51.4 | 66.4 | 0 | |
| Yield/Force Off (s) | 10.2 | 45.7 | 62 | 85.4 | 10.2 | 46 | 62 | 85.4 | |
| Yield/Force Off 170(s) | 10.2 | 45.7 | 62 | 74.4 | 10.2 | 35 | 62 | 85.4 | |
| Local Start Time (s) | 75 | 0 | 36.4 | 51.4 | 75 | 0 | 36.4 | 51.4 | |
| Local Yield (s) | 85.2 | 30.7 | 47 | 70.4 | 85.2 | 31 | 47 | 70.4 | |
| Local Yield 170(s) | 85.2 | 30.7 | 47 | 59.4 | 85.2 | 20 | 47 | 70.4 | |
| Intersection Summary | | | | | | | | | |
| Cycle Length | | | 90 | | | | | | |
| Control Type | Actuate | ed-Uncoo | | | | | | | |
| Natural Cycle | | | 85 | | | | | | |
| Splits and Phases: 3: Ne | w Albany-C | Condit Ro | ad & Cen | tral Colle | ge Road | | | | |
| \$ Ø1 | Ø2 | | | | | 1/2 | Ø3 | | ₩ Ø4 |
| 15 s 36.4 | | | | | | 15 s | | | 23.6 s |
| | A | | | | | | | | A |

HY PM Build w/ Improvements Synchro 11 Report

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|---|-------|-------------|-------------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | ↑ | 7 | ሻ | ∱ } | | 7 | ↑ | 7 | ሻ | ↑ | 7 |
| Traffic Volume (veh/h) | 60 | 308 | 143 | 68 | 215 | 101 | 153 | 573 | 102 | 61 | 347 | 70 |
| Future Volume (veh/h) | 60 | 308 | 143 | 68 | 215 | 101 | 153 | 573 | 102 | 61 | 347 | 70 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 65 | 335 | 155 | 74 | 234 | 110 | 166 | 623 | 111 | 66 | 377 | 76 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 370 | 381 | 504 | 283 | 494 | 225 | 472 | 711 | 602 | 299 | 670 | 713 |
| Arrive On Green | 0.09 | 0.20 | 0.20 | 0.10 | 0.21 | 0.21 | 0.11 | 0.38 | 0.38 | 0.09 | 0.36 | 0.36 |
| Sat Flow, veh/h | 1781 | 1870 | 1585 | 1781 | 2373 | 1079 | 1781 | 1870 | 1585 | 1781 | 1870 | 1585 |
| Grp Volume(v), veh/h | 65 | 335 | 155 | 74 | 173 | 171 | 166 | 623 | 111 | 66 | 377 | 76 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1870 | 1585 | 1781 | 1777 | 1676 | 1781 | 1870 | 1585 | 1781 | 1870 | 1585 |
| Q Serve(g_s), s | 2.3 | 14.9 | 6.3 | 2.6 | 7.3 | 7.7 | 4.6 | 26.5 | 4.0 | 1.8 | 13.9 | 2.4 |
| Cycle Q Clear(g_c), s | 2.3 | 14.9 | 6.3 | 2.6 | 7.3 | 7.7 | 4.6 | 26.5 | 4.0 | 1.8 | 13.9 | 2.4 |
| Prop In Lane | 1.00 | 201 | 1.00 | 1.00 | 270 | 0.64 | 1.00 | 711 | 1.00 | 1.00 | /70 | 1.00 |
| Lane Grp Cap(c), veh/h | 370 | 381 | 504 | 283 | 370 | 349 | 472 | 711 | 602 | 299 | 670 | 713 |
| V/C Ratio(X) | 0.18 | 0.88 | 0.31 | 0.26 | 0.47 | 0.49 | 0.35 | 0.88 | 0.18 | 0.22 | 0.56 | 0.11 |
| Avail Cap(c_a), veh/h HCM Platoon Ratio | 427 | 414 1.00 | 533 1.00 | 1.00 | 394 1.00 | 371 1.00 | 480 1.00 | 711 1.00 | 602 1.00 | 347 1.00 | 670 1.00 | 713 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 22.4 | 33.1 | 22.1 | 23.3 | 29.8 | 29.9 | 14.5 | 24.7 | 17.7 | 17.3 | 22.1 | 13.6 |
| Incr Delay (d2), s/veh | 0.2 | 18.2 | 0.3 | 0.5 | 0.9 | 1.1 | 0.4 | 14.3 | 0.7 | 0.4 | 3.4 | 0.3 |
| Initial Q Delay(d3),s/veh | 0.2 | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.9 | 8.4 | 2.3 | 1.0 | 3.0 | 3.0 | 1.7 | 13.3 | 1.5 | 0.7 | 6.1 | 0.9 |
| Unsig. Movement Delay, s/veh | | 0.4 | 2.0 | 1.0 | 3.0 | 5.0 | 1.7 | 10.0 | 1.0 | 0.7 | 0.1 | 0.7 |
| LnGrp Delay(d),s/veh | 22.6 | 51.3 | 22.5 | 23.8 | 30.7 | 31.0 | 15.0 | 39.0 | 18.4 | 17.7 | 25.5 | 13.9 |
| LnGrp LOS | C | D | C | C | C | C | В | D | В | В | 23.5 C | В |
| Approach Vol, veh/h | | 555 | | | 418 | | | 900 | | | 519 | |
| Approach Delay, s/veh | | 39.9 | | | 29.6 | | | 32.0 | | | 22.8 | |
| Approach LOS | | D | | | C C | | | C | | | ZZ.0 | |
| • | | | _ | | | | | | | | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 14.6 | 36.4 | 12.3 | 22.5 | 12.7 | 38.3 | 12.7 | 22.0 | | | | |
| Change Period (Y+Rc), s | * 4.8 | 5.7 | * 4.4 | 4.6 | * 4.8 | * 5.7 | * 4.4 | 4.6 | | | | |
| Max Green Setting (Gmax), s | * 10 | 30.7 | * 11 | 19.0 | * 10 | * 31 | * 11 | 19.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 6.6 | 15.9 | 4.3 | 9.7 | 3.8 | 28.5 | 4.6 | 16.9 | | | | |
| Green Ext Time (p_c), s | 0.1 | 1.9 | 0.1 | 1.2 | 0.1 | 1.0 | 0.1 | 0.5 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 31.4 | | | | | | | | | |
| HCM 6th LOS | | | С | | | | | | | | | |

User approved pedestrian interval to be less than phase max green.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

HY PM Build w/ Improvements

Synchro 11 Report

| | | | | HC: | S7 Rc | und | abo | uts R | lep | ort | | | | | | | |
|--|--------|---------|----------|---------|------------|----------|----------|--------|-----|--------|-----------|-----------|------|--------|----------|------------|--------|
| General Information | | | | | | | Site | e Info | rm | atior | 1 | | | | | | |
| Analyst | LRY | | | | | | | 1 | Т | Inters | ection | | П | Cond | dit Rd 8 | ኒ Snider l | .oop |
| Agency or Co. | CMTra | an | | | | | - | | | E/W S | Street Na | me | | Snid | er Loop |) | |
| Date Performed | | | | | | | | | ⊱ | N/S S | treet Nar | ne | | New | Albany | y-Condit | Road |
| Analysis Year | 2032 | | | | 4 + | W | ĴE 8 | 1 | | Analy | sis Time | Period (h | rs) | 0.25 | | | |
| Time Analyzed | HY A | M No Bu | ild | | | | | | | Peak I | Hour Fac | tor | | 0.92 | | | |
| Project Description | NMD | Mixed-l | Jse Deve | lopme | | | → ▼ † | | | Jurisd | liction | | | New | Albany | / | |
| Volume Adjustments | and S | Site C | haract | teristi | cs | | | | | | | | | | | | |
| Approach | | E | B | | | ٧ | VB | | | | N | В | | | | SB | |
| Movement | U | L | Т | R | U | L | Т | R | T | U | L | Т | R | U | L | Т | R |
| Number of Lanes (N) | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | T | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| Lane Assignment | | • | | | | | | LR | | | | TI | ۲ | | | | LT |
| Volume (V), veh/h | | | | | 0 | 19 | | 11 | T | 0 | | 569 | 7 | 0 | 3 | 665 | |
| Percent Heavy Vehicles, % | | | | | 3 | 3 | | 3 | | 3 | | 3 | 3 | 3 | 3 | 3 | |
| Flow Rate (VPCE), pc/h | | | | | 0 | 21 | | 12 | T | 0 | | 637 | 8 | 0 | 3 | 745 | |
| Right-Turn Bypass | | No | ne | | | N | one | | | | No | ne | | | | None | |
| Conflicting Lanes | | | | | | | 1 | | | | 1 | | | | | 1 | |
| Pedestrians Crossing, p/h | | | | | | | 0 | | T | | (|) | | | | 0 | |
| Critical and Follow-U | Јр Неа | adway | / Adju | stmer | ıt | | | | İ | | | | | | | | |
| Approach | | | | EB | | | | WB | | | | NB | | Т | | SB | |
| Lane | | | Left | Right | Вурая | ss L | eft | Right | Ву | ypass | Left | Right | Вура | SS | Left | Right | Bypass |
| Critical Headway (s) | | | | | | | | 4.9763 | | | | 4.9763 | | | | 4.9763 | |
| Follow-Up Headway (s) | | | | | | | | 2.6087 | | | | 2.6087 | | \top | | 2.6087 | |
| Flow Computations, | Capac | ity ar | nd v/c | Ratio | s | | | | | | | | | | | | |
| Approach | | | | EB | | | | WB | | | | NB | | Т | | SB | |
| Lane | | | Left | Right | Вурая | s L | eft | Right | Ву | ypass | Left | Right | Вура | ss | Left | Right | Bypass |
| Entry Flow (v _e), pc/h | | | | | | | \neg | 33 | Г | | | 645 | | \top | | 748 | |
| Entry Volume, veh/h | | | | | | | | 32 | | | | 626 | | | | 726 | |
| Circulating Flow (v _c), pc/h | | | | 769 | | | | 637 | | | | 3 | | | | 21 | |
| Exiting Flow (vex), pc/h | | | | 11 | | | | 0 | | | | 649 | | | | 766 | |
| Capacity (c _{pce}), pc/h | | | | | | | | 721 | | | | 1376 | | | | 1351 | |
| Capacity (c), veh/h | | | | | | | | 700 | | | | 1336 | | \top | | 1311 | |
| v/c Ratio (x) | | | | | | | | 0.05 | | | | 0.47 | | | | 0.55 | |
| Delay and Level of S | ervice | • | | | | | | | | | | | | | | | |
| Approach | | | | EB | | | | WB | | | | NB | | | | SB | |
| Lane | | | Left | Right | Bypas | s L | eft | Right | Ву | ypass | Left | Right | Вура | ss | Left | Right | Bypass |
| Lane Control Delay (d), s/veh | | | | | | | | 5.6 | | | | 7.4 | | | | 8.9 | |
| Lane LOS | | | | | | | | Α | | | | А | | | | А | |
| 95% Queue, veh | | | | | | | | 0.1 | | | | 2.6 | | | | 3.6 | |
| Approach Delay, s/veh | | | | | | | | 5.6 | | | | 7.4 | | | | 8.9 | |
| Approach LOS | | | | | | | | Α | | | | Α | | | | Α | |
| Intersection Delay, s/veh LO | S | | | | | 8.1 F | 101 of | 120 | | | | | | Α | | | |

| | | | | HCS | 57 Ro | undak | oou | its Re | port | | | | | | | |
|--|--------|---------|----------|----------|----------|----------|------|----------------|--------|------------|-----------|-------|-------|----------|-----------|--------|
| General Information | | | | | | S | ite | Infori | matio | n | | | | | | |
| Analyst | LRY | | | П | | * | | | Inter | section | | T | Cond | lit Rd 8 | Snider L | .oop |
| Agency or Co. | CMTr | an | | | | ← | | | E/W | Street Na | me | | Snide | er Loop | /Site Acc | ess 5 |
| Date Performed | | | | | | | | \ \ | N/S S | Street Nar | ne | | New | Albany | -Condit I | Road |
| Analysis Year | 2032 | | | | ↓ | w ∓ E | | 1 | Analy | sis Time | Period (h | ırs) | 0.25 | | | |
| Time Analyzed | HY AI | M Build | | | * | | | | Peak | Hour Fac | tor | | 0.92 | | | |
| Project Description | NMD | Mixed-l | Jse Deve | lopme | | → | * | | Juriso | diction | | | New | Albany | , | |
| Volume Adjustment | s and | Site C | harac | teristic | :s | | | | | | | | | | | |
| Approach | Τ | E | B | | | WB | | | Π | N | В | | | | SB | |
| Movement | U | L | Т | R | U | L | Т | R | U | L | Т | R | U | L | Т | R |
| Number of Lanes (N) | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| Lane Assignment | | | Ľ | ΓR | | | Ľ | TR | | | LT | R | | | | LTR |
| Volume (V), veh/h | 0 | 6 | 0 | 8 | 0 | 19 | 0 | 11 | 0 | 7 | 606 | 7 | 0 | 3 | 727 | 4 |
| Percent Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Flow Rate (VPCE), pc/h | 0 | 7 | 0 | 9 | 0 | 21 | 0 | 12 | 0 | 8 | 678 | 8 | 0 | 3 | 814 | 4 |
| Right-Turn Bypass | | No | one | | | None | 9 | | | No | ne | | | 1 | None | |
| Conflicting Lanes | | | 1 | | | 1 | | | | 1 | | | | | 1 | |
| Pedestrians Crossing, p/h | | | 0 | | | 0 | | | | (|) | | | | 0 | |
| Critical and Follow-I | Jp He | adway | / Adju | stmen | t | | | | | | | | | | | |
| Approach | | | | EB | | T | | WB | | | NB | | Т | | SB | |
| Lane | | | Left | Right | Bypass | Left | F | Right | Bypass | Left | Right | Bypas | s L | .eft | Right | Bypass |
| Critical Headway (s) | | | | 4.9763 | | | 4. | .9763 | | | 4.9763 | В | | | 4.9763 | |
| Follow-Up Headway (s) | | | | 2.6087 | | | 2. | .6087 | | | 2.6087 | , | | | 2.6087 | |
| Flow Computations, | Capa | city ar | nd v/c | Ratios | 5 | | | | | | | | | | | |
| Approach | | | | EB | | | | WB | | | NB | | Т | | SB | |
| Lane | | | Left | Right | Bypass | Left | F | Right | Bypass | Left | Right | Bypas | 5 L | _eft | Right | Bypass |
| Entry Flow (v _e), pc/h | | | | 16 | | | T | 33 | | | 694 | | T | | 821 | |
| Entry Volume, veh/h | | | | 16 | | | | 32 | | | 674 | | | | 797 | |
| Circulating Flow (v _c), pc/h | | | | 838 | • | | • | 693 | | | 10 | | | | 29 | |
| Exiting Flow (vex), pc/h | | | | 11 | | | | 12 | | | 697 | | | | 844 | |
| Capacity (c _{pce}), pc/h | | | | 587 | | | | 681 | | | 1366 | | | | 1340 | |
| Capacity (c), veh/h | | | | 570 | | | | 661 | | | 1326 | | | | 1301 | |
| v/c Ratio (x) | | | | 0.03 | | | (| 0.05 | | | 0.51 | | | | 0.61 | |
| Delay and Level of S | ervice | | | | | | | | | | | | | | | |
| Approach | | | | EB | | | | WB | | | NB | | Τ | | SB | |
| Lane | | | Left | Right | Bypass | Left | F | Right | Bypass | Left | Right | Bypas | s L | _eft | Right | Bypass |
| Lane Control Delay (d), s/veh | 1 | | | 6.6 | | | | 6.0 | | | 8.0 | | | | 10.1 | |
| Lane LOS | | | | А | | | | А | | | А | | | | В | |
| 95% Queue, veh | | | | 0.1 | | | | 0.2 | | | 3.0 | | | | 4.4 | |
| Approach Delay, s/veh | | | | 6.6 | | | | 6.0 | | | 8.0 | | | | 10.1 | |
| Approach LOS | | | | А | | | | Α | | | Α | | | | В | |
| Intersection Delay, s/veh LC |)S | | | | | 9.1 | of 1 | 20 | | | | | A | | | |

| | | | | HCS | 57 Ro | undak | oou | its Re | eport | | | | | | | |
|------------------------------------|--------|---------|-----------|----------|--------|----------|---------|--------|-----------|------------|-----------|-------|-------|----------|------------|--------|
| General Information | | | | | | S | Site | Infor | matio | n | | | | | | |
| Analyst | LRY | | | П | | | | | Inter | section | | Т | Cond | it Rd & | . Snider L | oop |
| Agency or Co. | CMTra | an | | | | ← | | | E/W | Street Na | me | | Snide | r Loop | | |
| Date Performed | | | | | | | | 13 | N/S S | Street Nar | ne | | New | Albany | -Condit I | Road |
| Analysis Year | 2032 | | | | ◀ ↓ │ | w ∓ E | | 1 | Analy | sis Time | Period (h | ırs) | 0.25 | | | |
| Time Analyzed | HY PN | M No Bu | ild | | | | | | Peak | Hour Fac | tor | | 0.92 | | | |
| Project Description | NMD | Mixed- | Use Deve | lopme | | → | + | | Juriso | diction | | | New | Albany | | |
| Volume Adjustment | s and | Site C | harac | teristic | :s | | | | | | | | | | | |
| Approach | Τ | ı | EB | | | WB | | | | N | В | T | | | SB | |
| Movement | U | L | Т | R | U | L | Т | R | U | L | Т | R | U | L | Т | R |
| Number of Lanes (N) | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| Lane Assignment | | | | | | | L | _R | | | TI | R | | | | LT |
| Volume (V), veh/h | | | | | 0 | 12 | | 7 | 0 | | 734 | 20 | 0 | 13 | 560 | T |
| Percent Heavy Vehicles, % | | | | | 3 | 3 | | 3 | 3 | | 3 | 3 | 3 | 3 | 3 | |
| Flow Rate (VPCE), pc/h | | | | | 0 | 13 | | 8 | 0 | | 822 | 22 | 0 | 15 | 627 | |
| Right-Turn Bypass | | N | one | | | None | 9 | | | No | ne | | | ١ | None | |
| Conflicting Lanes | | | | | | 1 | | | | 1 | | | | | 1 | |
| Pedestrians Crossing, p/h | | | | | | 0 | | | | (|) | | | | 0 | |
| Critical and Follow-I | Jp Hea | adwa | y Adju | stmen | t | | | | | | | | | | | |
| Approach | | | | EB | | T | | WB | | | NB | | | | SB | |
| Lane | | | Left | Right | Bypass | Left | F | Right | Bypass | Left | Right | Bypas | L | eft | Right | Bypass |
| Critical Headway (s) | | | | | | | 4. | .9763 | | | 4.9763 | 3 | | | 4.9763 | |
| Follow-Up Headway (s) | | | | | | | 2. | .6087 | | | 2.6087 | , | | | 2.6087 | |
| Flow Computations, | Capac | city a | nd v/c | Ratios | 5 | | | | | | | | | | | |
| Approach | | | | EB | | | | WB | | | NB | | | | SB | |
| Lane | | | Left | Right | Bypass | Left | F | Right | Bypass | Left | Right | Bypas | L | .eft | Right | Bypass |
| Entry Flow (v _e), pc/h | | | | | | | | 21 | | | 844 | | | | 642 | |
| Entry Volume, veh/h | | | | | | | | 20 | | | 819 | | | | 623 | |
| Circulating Flow (vc), pc/h | | | | 655 | | | | 822 | | | 15 | | | | 13 | |
| Exiting Flow (vex), pc/h | | | | 37 | | | | 0 | | | 830 | | | | 640 | |
| Capacity (c _{pce}), pc/h | | | | | | | | 597 | | | 1359 | | | | 1362 | |
| Capacity (c), veh/h | | | | | | | | 579 | | | 1319 | | | | 1322 | |
| v/c Ratio (x) | | | | | | | - | 0.04 | | | 0.62 | | | | 0.47 | |
| Delay and Level of S | ervice | | | | | | | | | | | | | | | |
| Approach | | | | EB | | | | WB | | | NB | | | | SB | |
| Lane | | | Left | Right | Bypass | Left | F | Right | Bypass | Left | Right | Bypas | L | eft | Right | Bypass |
| Lane Control Delay (d), s/veh | 1 | | | | | | | 6.6 | | | 10.2 | | | | 7.5 | |
| Lane LOS | | | | | | | | А | | | В | | | | Α | |
| 95% Queue, veh | | | | | | | | 0.1 | | | 4.6 | | | | 2.6 | |
| Approach Delay, s/veh | | | | | | | | 6.6 | | | 10.2 | | | | 7.5 | |
| Approach LOS | | | | | | | | Α | | | В | | | | Α | |
| Intersection Delay, s/veh LC | | | es Dosony | | | | . of 1' | | rcion 7.0 | | | | Α | stad: 6/ | | |

| | | | | HCS | 57 Ro | undal | oou | ıts Re | port | | | | | | | |
|--|--------|---------|----------|----------|------------|----------|-------|--------|--------|------------|-----------|-------|-------|----------|-----------|--------|
| General Information | | | | | | 9 | ite | Infor | matio | n | | | _ | _ | | |
| Analyst | LRY | | | | | * | | | Inter | section | | Т | Cond | lit Rd & | Snider L | oop |
| Agency or Co. | CMTr | an | | | | ← | | | E/W | Street Na | me | | Snide | er Loop | /Site Acc | ess 5 |
| Date Performed | | | | | | | | 4 | N/S | Street Nar | ne | | New | Albany | -Condit I | Road |
| Analysis Year | 2032 | | | | ↓ ↓ | w ∓ E | | 1 | Analy | ysis Time | Period (h | nrs) | 0.25 | | | |
| Time Analyzed | HY PI | M Build | | | * | | | | Peak | Hour Fac | tor | | 0.92 | | | |
| Project Description | NMD | Mixed-l | Jse Deve | lopme | | → | * | | Juriso | diction | | | New | Albany | | |
| Volume Adjustment | s and | Site C | harac | teristic | :s | | | | | | | | | | | |
| Approach | Π | E | :B | | | WB | | | | N | В | | | | SB | |
| Movement | U | L | Т | R | U | L | Т | R | U | L | Т | R | U | L | Т | R |
| Number of Lanes (N) | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| Lane Assignment | | | Ľ | ΓR | | | Ľ | .TR | | | LT | R | | | | LTR |
| Volume (V), veh/h | 0 | 4 | 0 | 5 | 0 | 12 | 0 | 7 | 0 | 7 | 782 | 20 | 0 | 13 | 599 | 6 |
| Percent Heavy Vehicles, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Flow Rate (VPCE), pc/h | 0 | 4 | 0 | 6 | 0 | 13 | 0 | 8 | 0 | 8 | 876 | 22 | 0 | 15 | 671 | 7 |
| Right-Turn Bypass | | No | one | | | None | 9 | | | No | ne | | | ١ | None | |
| Conflicting Lanes | | | 1 | | | 1 | | | | 1 | | | | | 1 | |
| Pedestrians Crossing, p/h | | | 0 | | | 0 | | | | (|) | | | | 0 | |
| Critical and Follow-I | Jp He | adway | / Adju | stmen | t | | | | | | | | | | | |
| Approach | | | | EB | | T | | WB | | | NB | | Т | | SB | |
| Lane | | | Left | Right | Bypass | Left | F | Right | Bypass | Left | Right | Bypas | s L | _eft | Right | Bypass |
| Critical Headway (s) | | | | 4.9763 | | | 4 | .9763 | | | 4.9763 | 3 | | | 4.9763 | |
| Follow-Up Headway (s) | | | | 2.6087 | | | 2 | 2.6087 | | | 2.6087 | 7 | | | 2.6087 | |
| Flow Computations, | Capa | city ar | nd v/c | Ratios | 5 | | | | | | | | | | | |
| Approach | | | | EB | | | | WB | | | NB | | Т | | SB | |
| Lane | | | Left | Right | Bypass | Left | F | Right | Bypass | Left | Right | Bypas | s L | _eft | Right | Bypass |
| Entry Flow (v _e), pc/h | | | | 10 | | | | 21 | | | 906 | | | | 693 | |
| Entry Volume, veh/h | | | | 10 | | | | 20 | | | 880 | | | | 673 | |
| Circulating Flow (v _c), pc/h | | | | 699 | | | | 888 | | | 19 | | | | 21 | |
| Exiting Flow (vex), pc/h | | | | 37 | | | | 15 | | | 888 | | | | 690 | |
| Capacity (c _{pce}), pc/h | | | | 676 | | | | 558 | | | 1354 | | | | 1351 | |
| Capacity (c), veh/h | | | | 657 | | | | 542 | | | 1314 | | | | 1311 | |
| v/c Ratio (x) | | | | 0.01 | | | | 0.04 | | | 0.67 | | | | 0.51 | |
| Delay and Level of S | ervice | | | | | | | | | | | | | | | |
| Approach | | | | EB | | | | WB | | | NB | | | | SB | |
| Lane | | | Left | Right | Bypass | Left | F | Right | Bypass | Left | Right | Bypas | s L | _eft | Right | Bypass |
| Lane Control Delay (d), s/veh | 1 | | | 5.6 | | | | 7.1 | | | 11.4 | | | | 8.2 | |
| Lane LOS | | | | А | | | | Α | | | В | | | | Α | |
| 95% Queue, veh | | | | 0.0 | | | | 0.1 | | | 5.5 | | | | 3.0 | |
| Approach Delay, s/veh | | | | 5.6 | | | | 7.1 | | | 11.4 | | | | 8.2 | |
| Approach LOS | | | | Α | | | | Α | | | В | | | | Α | |
| Intersection Delay, s/veh LC |)S | | | | | 10.0 | Lof 1 | 20 | | | | | Α | | | |

| | † | • | \$⊳ |
|----------------------------|-------------|----------|-----------|
| Phase Number | 2 | 3 | 6 |
| Movement | NBT | WBL | SBTL |
| Lead/Lag | | | |
| Lead-Lag Optimize | | | |
| Recall Mode | C-Max | None | C-Max |
| Maximum Split (s) | 74 | 16 | 74 |
| Maximum Split (%) | 82.2% | 17.8% | 82.2% |
| Minimum Split (s) | 23 | 15 | 23 |
| Yellow Time (s) | 3 | 3 | 3 |
| All-Red Time (s) | 2 | 2 | 2 |
| Minimum Initial (s) | 10 | 10 | 10 |
| Vehicle Extension (s) | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 |
| Walk Time (s) | 7 | | 7 |
| Flash Dont Walk (s) | 11 | | 11 |
| Dual Entry | Yes | No | Yes |
| Inhibit Max | Yes | Yes | Yes |
| Start Time (s) | 0 | 74 | 0 |
| End Time (s) | 74 | 0 | 74 |
| Yield/Force Off (s) | 69 | 85 | 69 |
| Yield/Force Off 170(s) | 58 | 85 | 58 |
| Local Start Time (s) | 0 | 74 | 0 |
| Local Yield (s) | 69 | 85 | 69 |
| Local Yield 170(s) | 58 | 85 | 58 |
| Intersection Summary | | | |
| Cycle Length | | | 90 |
| Control Type | Actua | ated-Coo | |
| Natural Cycle | | | 45 |
| Offset: 0 (0%), Referenced | to phase 2 | :NBT and | 6:SBTL, |
| 0.111 | | | |
| Splits and Phases: 21: N | lew Albany- | Condit R | oad & Sni |
| 1 Ø2 (R) | | | |
| 74 s | | | |
| <i>\</i> . | | | |
| ▼ Ø6 (R) | | | |

| | • | • | † | <i>></i> | \ | ↓ | |
|-----------------------------|------|------|----------|-------------|----------|----------|------|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT | |
| Lane Configurations | W | | 1 | | | 4 | |
| raffic Volume (veh/h) | 19 | 11 | 569 | 7 | 3 | 665 | |
| uture Volume (veh/h) | 19 | 11 | 569 | 7 | 3 | 665 | |
| tial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | |
| ed-Bike Adj(A_pbT) | 1.00 | 1.00 | | 1.00 | 1.00 | | |
| arking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| /ork Zone On Approach | No | | No | | | No | |
| dj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | |
| dj Flow Rate, veh/h | 21 | 12 | 618 | 8 | 3 | 723 | |
| eak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | |
| ercent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | |
| ap, veh/h | 67 | 38 | 1520 | 20 | 41 | 1541 | |
| rrive On Green | 0.06 | 0.06 | 1.00 | 1.00 | 0.83 | 0.83 | |
| at Flow, veh/h | 1056 | 603 | 1842 | 24 | 1 | 1867 | |
| rp Volume(v), veh/h | 34 | 0 | 0 | 626 | 726 | 0 | |
| p Sat Flow(s), veh/h/ln | 1709 | 0 | 0 | 1866 | 1868 | 0 | |
| Serve(g_s), s | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| ycle Q Clear(g_c), s | 1.7 | 0.0 | 0.0 | 0.0 | 10.0 | 0.0 | |
| rop In Lane | 0.62 | 0.35 | | 0.01 | 0.00 | | |
| ine Grp Cap(c), veh/h | 109 | 0 | 0 | 1540 | 1582 | 0 | |
| C Ratio(X) | 0.31 | 0.00 | 0.00 | 0.41 | 0.46 | 0.00 | |
| /ail Cap(c_a), veh/h | 209 | 0 | 0 | 1540 | 1582 | 0 | |
| CM Platoon Ratio | 1.00 | 1.00 | 2.00 | 2.00 | 1.00 | 1.00 | |
| ostream Filter(I) | 1.00 | 0.00 | 0.00 | 0.94 | 0.90 | 0.00 | |
| niform Delay (d), s/veh | 40.3 | 0.0 | 0.0 | 0.0 | 2.2 | 0.0 | |
| cr Delay (d2), s/veh | 1.6 | 0.0 | 0.0 | 0.8 | 0.9 | 0.0 | |
| nitial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| sile BackOfQ(50%),veh/ln | 0.8 | 0.0 | 0.0 | 0.3 | 1.3 | 0.0 | |
| nsig. Movement Delay, s/veh | | | | | | | |
| nGrp Delay(d),s/veh | 41.9 | 0.0 | 0.0 | 0.8 | 3.1 | 0.0 | |
| nGrp LOS | D | А | А | А | А | А | |
| pproach Vol, veh/h | 34 | | 626 | | | 726 | |
| proach Delay, s/veh | 41.9 | | 0.8 | | | 3.1 | |
| proach LOS | D | | А | | | Α | |
| mer - Assigned Phs | | 2 | | | | 6 | 8 |
| hs Duration (G+Y+Rc), s | | 79.3 | | | | 79.3 | 10.7 |
| Change Period (Y+Rc), s | | 5.0 | | | | 5.0 | 5.0 |
| lax Green Setting (Gmax), s | | 69.0 | | | | 69.0 | 11.0 |
| ax Q Clear Time (q_c+I1), s | | 2.0 | | | | 12.0 | 3.7 |
| reen Ext Time (p_c), s | | 4.3 | | | | 5.4 | 0.0 |
| tersection Summary | | | | | | | |
| CM 6th Ctrl Delay | | | 3.0 | | | | |
| ICM 6th LOS | | | А | | | | |
| Votes | | | | | | | |

User approved volume balancing among the lanes for turning movement.

| | -4† | 4 | ↓ ⊳ | * |
|---------------------------|------------|-----------|------------|----------|
| Phase Number | 2 | 4 | 6 | 8 |
| Movement | NBTL | EBTL | SBTL | WBTL |
| Lead/Lag | | | | |
| Lead-Lag Optimize | | | | |
| Recall Mode | Max | None | Max | None |
| Maximum Split (s) | 66 | 24 | 66 | 24 |
| Maximum Split (%) | 73.3% | 26.7% | 73.3% | 26.7% |
| Minimum Split (s) | 23 | 23 | 23 | 23.5 |
| Yellow Time (s) | 3 | 3 | 3 | 3 |
| All-Red Time (s) | 2 | 2 | 2 | 2 |
| Minimum Initial (s) | 10 | 10 | 10 | 10 |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 | 0 |
| Walk Time (s) | 7 | 7 | 7 | 7 |
| Flash Dont Walk (s) | 11 | 11 | 11 | 11 |
| Dual Entry | Yes | Yes | Yes | Yes |
| Inhibit Max | Yes | Yes | Yes | Yes |
| Start Time (s) | 0 | 66 | 0 | 66 |
| End Time (s) | 66 | 0 | 66 | 0 |
| Yield/Force Off (s) | 61 | 85 | 61 | 85 |
| Yield/Force Off 170(s) | 50 | 74 | 50 | 74 |
| Local Start Time (s) | 0 | 66 | 0 | 66 |
| Local Yield (s) | 61 | 85 | 61 | 85 |
| Local Yield 170(s) | 50 | 74 | 50 | 74 |
| Intersection Summary | | | | |
| Cycle Length | | | 90 | |
| Control Type | Actuate | ed-Uncoor | | |
| Natural Cycle | 7.00.000 | 0110001 | 60 | |
| . iaiai ai o joio | | | 00 | |
| Splits and Phases: 21: No | ew Albany- | Condit Ro | oad & Site | e Access |
| | | | | |
| Ø2 | | | | |
| 66 s | | | | |
| ₽ Ø6 | | | | |
| 66.0 | | | | |

HY AM Build w/ Improvements Synchro 11 Report

| | ۶ | → | • | • | ← | 4 | 1 | † | ~ | / | † | ✓ |
|---|------|-------------|------------|-------------|------------|-------------|-------------|--------------|------------|-------------|--------------|-----------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 4 | | | 4 | | ř | 4î | | 7 | f) | |
| Traffic Volume (veh/h) | 6 | 0 | 8 | 19 | 0 | 11 | 7 | 606 | 7 | 3 | 727 | 4 |
| Future Volume (veh/h) | 6 | 0 | 8 | 19 | 0 | 11 | 7 | 606 | 7 | 3 | 727 | 4 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 7 | 0 | 9 | 21 | 0 | 12 | 8 | 659 | 8 | 3 | 790 | 4 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 103 | 21 | 74 0.08 | 141 | 16 0.00 | 46 | 523 | 1451 0.79 | 18 | 607 | 1463 0.79 | 7 0.79 |
| Arrive On Green | 0.08 | 0.00 248 | 881 | 0.08 776 | 189 | 0.08 551 | 0.79 684 | 1844 | 0.79 22 | 0.79 769 | 1859 | 9 |
| Sat Flow, veh/h | 16 | 240 | 001 | 33 | 109 | 0 | 8 | 0 | 667 | 3 | 1009 | 794 |
| Grp Volume(v), veh/h Grp Sat Flow(s),veh/h/ln | 1566 | 0 | 0 | 1515 | 0 | 0 | 684 | 0 | 1866 | 769 | 0 | 1869 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.3 | 0.0 | 9.2 | 0.1 | 0.0 | 12.2 |
| Cycle Q Clear(g_c), s | 0.7 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 12.5 | 0.0 | 9.2 | 9.3 | 0.0 | 12.2 |
| Prop In Lane | 0.44 | 0.0 | 0.56 | 0.64 | 0.0 | 0.36 | 1.00 | 0.0 | 0.01 | 1.00 | 0.0 | 0.01 |
| Lane Grp Cap(c), veh/h | 198 | 0 | 0.50 | 203 | 0 | 0.50 | 523 | 0 | 1469 | 607 | 0 | 1470 |
| V/C Ratio(X) | 0.08 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.02 | 0.00 | 0.45 | 0.00 | 0.00 | 0.54 |
| Avail Cap(c_a), veh/h | 440 | 0 | 0 | 439 | 0 | 0 | 523 | 0 | 1469 | 607 | 0 | 1470 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 32.8 | 0.0 | 0.0 | 33.1 | 0.0 | 0.0 | 5.4 | 0.0 | 2.7 | 4.3 | 0.0 | 3.1 |
| Incr Delay (d2), s/veh | 0.2 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.1 | 0.0 | 1.0 | 0.0 | 0.0 | 1.4 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 0.0 | 0.0 | 2.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 33.0 | 0.0 | 0.0 | 33.5 | 0.0 | 0.0 | 5.4 | 0.0 | 3.8 | 4.3 | 0.0 | 4.5 |
| LnGrp LOS | С | А | А | С | А | А | А | А | А | А | А | A |
| Approach Vol, veh/h | | 16 | | | 33 | | | 675 | | | 797 | |
| Approach Delay, s/veh | | 33.0 | | | 33.5 | | | 3.8 | | | 4.5 | |
| Approach LOS | | С | | | С | | | А | | | А | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 66.0 | | 11.5 | | 66.0 | | 11.5 | | | | |
| Change Period (Y+Rc), s | | 5.0 | | 5.0 | | 5.0 | | 5.0 | | | | |
| Max Green Setting (Gmax), s | | 61.0 | | 19.0 | | 61.0 | | 19.0 | | | | |
| Max Q Clear Time (g_c+l1), s | | 14.5 | | 2.7 | | 14.2 | | 3.4 | | | | |
| Green Ext Time (p_c), s | | 4.8 | | 0.0 | | 6.2 | | 0.1 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 5.1 | | | | | | | | | |
| HCM 6th LOS | | | А | | | | | | | | | |

HY AM Build w/ Improvements Synchro 11 Report

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|--------------------------|------------|----------|-----------|
| Phase Number | 2 | 3 | 6 |
| Movement | NBT | WBL | SBTL |
| Lead/Lag | | | |
| Lead-Lag Optimize | | | |
| Recall Mode | Max | None | Max |
| Maximum Split (s) | 79 | 11 | 79 |
| Maximum Split (%) | 87.8% | 12.2% | 87.8% |
| Minimum Split (s) | 23 | 10 | 23 |
| Yellow Time (s) | 3 | 3 | 3 |
| All-Red Time (s) | 2 | 2 | 2 |
| Minimum Initial (s) | 10 | 5 | 10 |
| Vehicle Extension (s) | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 |
| Walk Time (s) | 7 | | 7 |
| Flash Dont Walk (s) | 11 | | 11 |
| Dual Entry | Yes | No | Yes |
| Inhibit Max | Yes | Yes | Yes |
| Start Time (s) | 0 | 79 | 0 |
| End Time (s) | 79 | 0 | 79 |
| Yield/Force Off (s) | 74 | 85 | 74 |
| Yield/Force Off 170(s) | 63 | 85 | 63 |
| Local Start Time (s) | 0 | 79 | 0 |
| Local Yield (s) | 74 | 85 | 74 |
| Local Yield 170(s) | 63 | 85 | 63 |
| Intersection Summary | | | |
| Cycle Length | | | 90 |
| Control Type | Actuate | d-Uncoo | |
| Natural Cycle | | | 40 |
| Splits and Dhasas 21, M | ow Albany | Condit D | and O Cal |
| Splits and Phases: 21: N | ew Albany- | Condit R | Jau & SNI |
| T _{Ø2} | | | |
| 79 s | | | |
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|---|-----------|--------|----------|----------|-------------|----------|-----|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT | |
| Lane Configurations | W | ,,,,,, | 1 | 11511 | 002 | 4 | |
| Traffic Volume (veh/h) | 12 | 7 | 734 | 20 | 13 | 560 | |
| -uture Volume (veh/h) | 12 | 7 | 734 | 20 | 13 | 560 | |
| nitial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | <u> </u> | 1.00 | 1.00 | | |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Work Zone On Approach | No | 1.00 | No | 1.00 | 1.00 | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | |
| Adj Flow Rate, veh/h | 13 | 8 | 798 | 22 | 14 | 609 | |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | |
| Cap, veh/h | 24 | 15 | 1558 | 43 | 56 | 1572 | |
| Arrive On Green | 0.02 | 0.02 | 0.86 | 0.86 | 0.86 | 0.86 | |
| Sat Flow, veh/h | 1009 | 621 | 1811 | 50 | 15 | 1828 | |
| Grp Volume(v), veh/h | 22 | 0 | 0 | 820 | 623 | 0 | |
| Grp Sat Flow(s), veh/h/ln | 1708 | 0 | 0 | 1861 | 1843 | 0 | |
| 2 Serve(g_s), s | 1.1 | 0.0 | 0.0 | 9.5 | 0.0 | 0.0 | |
| Cycle Q Clear(g_c), s | 1.1 | 0.0 | 0.0 | 9.5 | 6.0 | 0.0 | |
| Prop In Lane | 0.59 | 0.36 | 0.0 | 0.03 | 0.02 | 0.0 | |
| ane Grp Cap(c), veh/h | 41 | 0.30 | 0 | 1601 | 1628 | 0 | |
| //C Ratio(X) | 0.54 | 0.00 | 0.00 | 0.51 | 0.38 | 0.00 | |
| Avail Cap(c_a), veh/h | 119 | 0.00 | 0.00 | 1601 | 1628 | 0.00 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Jpstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 | |
| Jniform Delay (d), s/veh | 41.5 | 0.00 | 0.0 | 1.5 | 1.3 | 0.00 | |
| ncr Delay (d2), s/veh | 10.8 | 0.0 | 0.0 | 1.2 | 0.7 | 0.0 | |
| nitial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| %ile BackOfQ(50%),veh/ln | 0.6 | 0.0 | 0.0 | 0.5 | 0.3 | 0.0 | |
| Insig. Movement Delay, s/veh | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| nGrp Delay(d),s/veh | 52.3 | 0.0 | 0.0 | 2.7 | 1.9 | 0.0 | |
| nGrp LOS | J2.J | Α | Α | Α. | A | Α | |
| pproach Vol, veh/h | 22 | / \ | 820 | / \ | / \ | 623 | |
| approach Vol, Ven/II Approach Delay, s/veh | 52.3 | | 2.7 | | | 1.9 | |
| pproach LOS | 52.5 D | | Z.7 | | | 1.9 A | |
| | D | | A | | | | |
| imer - Assigned Phs | | 2 | | | | 6 | 8 |
| Phs Duration (G+Y+Rc), s | | 79.0 | | | | 79.0 | 7.0 |
| Change Period (Y+Rc), s | | 5.0 | | | | 5.0 | 5.0 |
| Max Green Setting (Gmax), s | | 74.0 | | | | 74.0 | 6.0 |
| Max Q Clear Time (g_c+I1), s | | 11.5 | | | | 8.0 | 3.1 |
| Green Ext Time (p_c), s | | 6.7 | | | | 4.4 | 0.0 |
| tersection Summary | | | | | | | |
| CM 6th Ctrl Delay | | | 3.1 | | | | |
| HCM 6th LOS | | | Α | | | | |
| | | | / \ | | | | |
| Notes | | | | | | | |

User approved volume balancing among the lanes for turning movement.

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|------------------------------------|------------|-----------|-------------|----------------|
| Phase Number | 2 | 4 | 6 | 8 |
| Movement | NBTL | EBTL | SBTL | WBTL |
| Lead/Lag | TID I | LDIL | OBIL | ,,,,,,, |
| Lead-Lag Optimize | | | | |
| Recall Mode | Max | None | Max | None |
| Maximum Split (s) | 67 | 23 | 67 | 23 |
| Maximum Split (%) | 74.4% | 25.6% | 74.4% | 25.6% |
| Minimum Split (s) | 23 | 23.070 | 23 | 23.070 |
| Yellow Time (s) | 3 | 3 | 3 | 3 |
| All-Red Time (s) | 2 | 2 | 2 | 2 |
| Minimum Initial (s) | 10 | 10 | 10 | 10 |
| Vehicle Extension (s) | 3 | 3 | 3 | 3 |
| Minimum Gap (s) | 3 | 3 | 3 | 3 |
| Time Before Reduce (s) | 0 | 0 | 0 | 0 |
| Time To Reduce (s) | 0 | 0 | 0 | 0 |
| Walk Time (s) | 7 | 7 | 7 | 7 |
| Flash Dont Walk (s) | 11 | 11 | 11 | 11 |
| Dual Entry | Yes | Yes | Yes | Yes |
| Inhibit Max | Yes | Yes | Yes | Yes |
| Start Time (s) | 0 | 67 | 0 | 67 |
| End Time (s) | 67 | 0 | 67 | 0 |
| Yield/Force Off (s) | 62 | 85 | 62 | 85 |
| Yield/Force Off 170(s) | 51 | 74 | 51 | 74 |
| Local Start Time (s) | 0 | 67 | 0 | 67 |
| Local Yield (s) | 62 | 85 | 62 | 85 |
| Local Yield (S) Local Yield 170(s) | 51 | 74 | 51 | 74 |
| | ا ت | / 4 | υı | / 4 |
| Intersection Summary | | | | |
| Cycle Length | | | 90 | |
| Control Type | Actuate | ed-Uncoor | rdinated | |
| Natural Cycle | | | 60 | |
| • | | | | |
| Splits and Phases: 21: Ne | ew Albany- | Condit Ro | oad & Site | <u>Acc</u> ess |
| ≪ ∱ | | | | |
| Ø2 | | | | |
| 67 s | | | | |
| ₽ Ø6 | | | | |
| 67s | | | | |

HY PM Build w/ Improvements Synchro 11 Report

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|---------------------------------------|------|----------|-----------|------------|----------|-----------|------|-------------|------------|------------|-------------|-----------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 4 | | | 4 | | 7 | ₽ | | ሻ | ĵ∍ | |
| Traffic Volume (veh/h) | 4 | 0 | 5 | 12 | 0 | 7 | 7 | 782 | 20 | 13 | 599 | 6 |
| Future Volume (veh/h) | 4 | 0 | 5 | 12 | 0 | 7 | 7 | 782 | 20 | 13 | 599 | 6 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | 1070 | No | 1070 | 1070 | No | 1070 | 1070 | No | 1070 | 1070 | No | 1070 |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h Peak Hour Factor | 0.92 | 0.92 | 5 0.92 | 13 0.92 | 0.92 | 8 0.92 | 0.92 | 850 0.92 | 22 0.92 | 14 0.92 | 651 0.92 | 7 0.92 |
| Percent Heavy Veh, % | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Cap, veh/h | 93 | 18 | 54 | 119 | 16 | 36 | 640 | 1467 | 38 | 500 | 1492 | 16 |
| Arrive On Green | 0.06 | 0.00 | 0.06 | 0.06 | 0.00 | 0.06 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 |
| Sat Flow, veh/h | 402 | 300 | 878 | 698 | 253 | 586 | 776 | 1815 | 47 | 635 | 1847 | 20 |
| Grp Volume(v), veh/h | 9 | 0 | 0 | 21 | 0 | 0 | 8 | 0 | 872 | 14 | 0 | 658 |
| Grp Sat Flow(s), veh/h/ln | 1580 | 0 | 0 | 1538 | 0 | 0 | 776 | 0 | 1862 | 635 | 0 | 1867 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 13.0 | 0.6 | 0.0 | 8.0 |
| Cycle Q Clear(g_c), s | 0.4 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 8.3 | 0.0 | 13.0 | 13.6 | 0.0 | 8.0 |
| Prop In Lane | 0.44 | | 0.56 | 0.62 | | 0.38 | 1.00 | | 0.03 | 1.00 | | 0.01 |
| Lane Grp Cap(c), veh/h | 165 | 0 | 0 | 171 | 0 | 0 | 640 | 0 | 1505 | 500 | 0 | 1509 |
| V/C Ratio(X) | 0.05 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | 0.01 | 0.00 | 0.58 | 0.03 | 0.00 | 0.44 |
| Avail Cap(c_a), veh/h | 425 | 0 | 0 | 425 | 0 | 0 | 640 | 0 | 1505 | 500 | 0 | 1509 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 34.0 | 0.0 | 0.0 | 34.2 | 0.0 | 0.0 | 3.4 | 0.0 | 2.7 | 5.1 | 0.0 | 2.2 |
| Incr Delay (d2), s/veh | 0.1 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.1 | 0.0 | 0.9 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.2 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.1 | 0.0 | 0.9 |
| Unsig. Movement Delay, s/veh | | | | 0.1.5 | | | | | | = 0 | | 0.4 |
| LnGrp Delay(d),s/veh | 34.1 | 0.0 | 0.0 | 34.5 | 0.0 | 0.0 | 3.4 | 0.0 | 4.3 | 5.2 | 0.0 | 3.1 |
| LnGrp LOS | С | A | А | С | Α | А | А | A | А | А | A (70 | А |
| Approach Vol, veh/h | | 9 | | | 21 | | | 880 | | | 672 | |
| Approach Delay, s/veh | | 34.1 | | | 34.5 | | | 4.3 | | | 3.1 | |
| Approach LOS | | С | | | С | | | А | | | А | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 67.0 | | 9.7 | | 67.0 | | 9.7 | | | | |
| Change Period (Y+Rc), s | | 5.0 | | 5.0 | | 5.0 | | 5.0 | | | | |
| Max Green Setting (Gmax), s | | 62.0 | | 18.0 | | 62.0 | | 18.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 15.0 | | 2.4 | | 15.6 | | 2.9 | | | | |
| Green Ext Time (p_c), s | | 7.4 | | 0.0 | | 4.8 | | 0.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 4.4 | | | | | | | | | |
| HCM 6th LOS | | | А | | | | | | | | | |

HY PM Build w/ Improvements Synchro 11 Report

Signal Warrant Analysis

| STUDY AND ANALYSIS INFORMATION | TRAFFIC SI | IGNAL | WARRA | ANT ANALYSIS FINDINGS | | |
|--|---|-----------------------------|--------------------------------|--|--|--|
| Municipality: Traffic Volumes Obtained By: |] | Applicable? | Warrant Satisfied? | Notes and Comments: | | |
| City of New Albany County: Franklin Analysis Date: | Warrant 1, Eight-Hour Vehicular Volume | Yes | No | | | |
| ODOT Engineering District: Agency/ Company Name Performing Warrant Analysis: CMTran | Warrant 2, Four-Hour Vehicular Volume | Yes | No | | | |
| Analysis Information | Warrant 3, Peak Hour | Yes | No | Signals installed under Warrant 3 should be traffic actuated. Peak Hour 4:30 PM 5:30 PM | | |
| Data Collection Date: | For Warrants 1-3, new | ODOT signa | als must be bas | sed off of 100% volume thresholds (TEM 402-3.2) | | |
| Day of the Week: | Warrant 4, Pedestrian Volume | No | | If this warrant is met, and a traffic control signal is justified by an engineering study, the traffic control signal shall be equipped with pedestrian signal heads complying with the provisions set forth in Chapter 4E of the OMUTCD. Peak Hour 4:30 PM 5:30 PM | | |
| Is the intersection in a built-up area of an isolated community of <10,000 No | Warrant 5, School Crossing | No | | N/A | | |
| Existing Traffic Signal at intersection: No | Warrant 6, Coordinated Signal System | No | | (Shall not be used as the sole warrant in the analysis) | | |
| Total Number of Approaches at Intersection: 4 | Warrant 7, Crash Experience | No | | If this is the sole warrant, signal must be semi-actuated with control devices which provide proper coordination if installed at an intersection within a coordinated system and normally should be fully traffic actuated if installed at an isolated intersection. | | |
| Major Street Information | Warrant 8, Roadway Network | No | | (Shall not be used as the sole warrant in the analysis) | | |
| Major Street Name and Route Number: New Albany-Condit Road | Warrant 9, Intersection Near a Grade Crossing | No | | Figure 4C-9 | | |
| Major Street Approach Direction: N-Bound S-Bound | Multi-Way Stop Warrant No May be used as an interim measure if traffic signal warrants are satisfied. | | | | | |
| Number of Thru Lanes on Each Major Street Approach: 1 LANE(S) | The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffi control signal. | | | | | |
| Speed Limit or 85th Percentile Speed on the Major Street*: 45 MPH | If no warrants are satisfied, additi | onal options | s may be cor | nsidered: | | |
| *Unknown assumes below 45 mph | | • | | by ODOT for signal design, if approved by the ODOT | | |
| Minor Street Information | - | • | | retention of an existing signal that otherwise does not ance is a traffic signal in proximity to a railroad crossing | | |
| minor otroct information | that serves to reduce queuing acr | | | | | |
| Minor Street Name and Route Number: Snider Loop | - | | • | nt counts fail to satisfy a signal warrant, it may be | | |
| Minor Street Approach Configuration: 1 E-Bound W-Bound | acceptable to use traffic volumes Forecasting Section should prov | | | year after project completion. The Modeling and | | |
| ↑ W-Bould | | | | allation to facilitate pedestrian crossings at a location | | |
| 4 4 4 4 | that does not meet traffic signal w | varrants (se nd/or 4C.06 | e Chapter 40 but a decision | C of TEM) or at a location that meets traffic signal on is made to not install a traffic control signal. Please fill | | |
| 1 2 3 4 5 Number of Thru Lanes on Each Minor Street Approach: Apply Right Turn Lane Reduction*: *Right Turn Lane Reduction Shall be used for Warrants 1, 2, & 3 for New | | consideration | ons may allo | ance generally have not been accepted in lieu of w an otherwise unwarranted traffic signal to be retained letails. | | |
| ODOT Signals. Please refer to TEM 402-3.2 for clarification and criteria | | | | all New Traffic Signal | | |
| under which Right Turn Reduction is not required. | Notes: 2032 Build - Right Tur | n Reduction | ns Applied | | | |

| Southbound Approach | Westbound Approach | Northbound Approach | Eastbound Approach | |
|--|--|---|---|---|
| Start Time Southbound Right Thru Left U-Turn Peds | Westbound App Right Thru Left U-Turn Peds Total | Nouthbound Right Thru Left U-Turn Peds Total | Eastbound Right Thru Left U-Turn Peds Total | NOTES: |
| Tright Third Edit 5 Fam Feds T | otal Right Find Left 0-Turn Peds Total | Total | Right Infu Left 0-Turn Peds Total 0 0 0 0 | It should be noted that if data is |
| 12:15 AM 0 1 0 12:30 AM 0 1 0 | 1 0 0 0 0 1 0 0 0 0 | 0 2 0 2 0 1 0 1 | $egin{pmatrix} 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 &$ | It should be noted that if data is copied overtop of the Hourly |
| 12:45 AM 0 1 0 | 1 0 0 0 0 14 0 0 0 0 0 0 | 0 2 0 2 1 14 0 0 0 15 | 0 0 0 0 0 | Totals or Approach Totals, that the 'AutoSum' Formula will be |
| 1:00 AM 0 1 0 1:15 AM 0 1 0 | 1 0 0 0 1 0 0 0 1 0 0 0 | 0 2 0 2 | 0 0 0 0 0 0 0 | lost. This should not affect the actual totals if the data was |
| 1:30 AM 0 1 0 | 1 0 0 0 0 | 0 0 0 | 0 0 0 | copied from a program that performs the calculations for the |
| 1:45 AM 0 0 0 Hourly Total 0 3 0 0 | 0 0 0 0 3 0 0 0 0 0 | 0 1 0 1 1 0 1 1 0 4 | 0 0 0 0 0 0 | user. |
| 2:00 AM 0 3 0 2:15 AM 0 0 0 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 0 0 0 0 0 0 0 | |
| 2:30 AM 0 0 0 2:45 AM 0 0 0 | $egin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 0 0 0 0 0 | |
| Hourly Total 0 3 0 0 0 0 3:00 AM 0 2 0 | 3 0 0 0 0 0 0 2 0 0 0 0 | 0 3 0 0 0 3 0 2 0 2 | 0 0 0 0 0 0 | |
| 3:15 AM 0 3 0 3:30 AM 0 1 0 | 3 0 0 0 0 0 1 0 0 | 0 1 0 1 0 0 0 0 | 0 0 0 0 0 | |
| 3:45 AM 0 0 0 | 0 0 0 0 | 0 1 0 1 | 0 0 0 | |
| Hourly Total 0 6 0 0 0 4:00 AM 0 9 0 | 6 0 0 0 0 0 0 9 1 0 1 2 | 1 4 0 5 | 0 0 0 0 0 0 | |
| 4:15 AM 0 4 0 4:30 AM 0 5 0 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 0 0 0 0 0 0 0 | |
| 4:45 AM 0 7 0 Hourly Total 0 25 0 0 0 | 7 0 0 0 0 25 1 0 1 0 0 2 | 0 2 0 2 1 7 0 0 0 8 | 0 0 0 0 0 | |
| 5:00 AM 0 30 0 5:15 AM 0 10 0 | 30 2 0 4 6 10 0 0 0 0 | 1 7 0 0 4 0 4 | 1 0 1 2 0 0 0 0 | |
| 5:30 AM 0 14 0 5:45 AM 0 21 0 | 14 0 0 0 0 21 0 0 0 0 | 0 4 0 0 13 0 13 | $egin{pmatrix} 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 &$ | |
| Hourly Total 0 75 0 0 0 | 75 2 0 4 0 0 6 66 6 0 10 16 | 1 28 0 0 0 29 3 33 1 37 | 1 0 1 0 0 2 3 0 2 5 | |
| 6:15 AM 0 26 0 | 26 0 0 0 0 | 0 16 0 16 | 0 0 0 | |
| | 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 24 0 24 0 44 0 44 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| 7:00 AM 1 179 3 | 171 6 0 10 0 0 16 183 10 0 18 28 | 3 117 1 0 0 121 6 107 1 114 | 3 0 2 0 0 5 7 0 6 13 | |
| 7:30 AM 0 101 0 | 73 0 0 0 0 101 0 0 0 | 0 53 0 53 0 85 0 85 | 0 0 0 0 0 0 | |
| Hourly Total 1 475 3 0 0 | 122 0 0 0 0 479 10 0 18 0 0 28 | 0 92 0 92 6 337 1 0 0 344 | 0 0 0 7 0 6 0 0 13 | |
| | 208 9 0 15 24 69 0 0 0 | 7 147 3 157 0 58 0 58 | 6 0 4 10 0 0 0 0 | |
| 8:30 AM 0 86 0 8:45 AM 0 66 0 | 86 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 43 0 43 0 53 0 53 | $egin{array}{cccccccccccccccccccccccccccccccccccc$ | |
| , | 429 9 0 15 0 0 24 140 5 0 10 15 | 7 301 3 0 0 311 6 125 4 135 | 6 0 4 0 0 10 6 0 4 10 | |
| 9:15 AM 0 34 0 | 34 0 0 0 0 24 0 0 0 0 | 0 33 0 33 0 33 0 33 | 0 0 0 0 0 0 0 0 | |
| 9:45 AM 0 28 0 | 28 0 0 0 0 0 226 5 0 10 0 0 15 | 0 33 0 33 6 224 4 0 0 234 | 0 0 0 0 0 0 0 10 | |
| 10:00 AM 3 98 4 | 105 5 0 10 15 | 7 88 5 100 | 4 0 4 8 | |
| 10:15 AM 0 18 0 10:30 AM 0 30 0 | 18 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 28 0 28 0 27 0 27 | $egin{pmatrix} 0 & 0 & 0 & 0 & 0 \\ \hline 0 & 0 & 0 & 0 & 0 \\ \hline \end{array}$ | |
| Hourly Total 3 173 4 0 0 | 27 0 0 0 0 180 5 0 10 0 0 15 | 0 32 0 32 7 175 5 0 0 187 | 0 0 0 0 4 0 4 0 0 8 | |
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| | 209 5 0 9 0 0 14 126 6 0 10 16 | 10 215 6 0 0 231 10 135 7 152 | 6 0 4 0 0 10 7 0 5 12 | |
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| 2:45 PM 0 45 0 | 45 0 0 0 0 | 0 52 0 52 | 0 0 0 | |
| 3:00 PM 7 131 8 | 234 6 0 11 0 0 17 146 6 0 11 17 | 12 247 8 0 0 267 15 170 9 194 | 8 0 4 0 0 12 7 0 4 11 | |
| 3:30 PM 0 53 0 | 42 0 0 0 0 0 0 0 53 0 0 0 0 0 0 0 0 0 0 0 | 0 63 0 63 0 58 0 58 | $egin{pmatrix} 0 & 0 & 0 & 0 & 0 \\ \hline 0 & 0 & 0 & 0 & 0 \\ \hline \end{array}$ | |
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| 5:00 PM 8 224 10 | 402 7 0 13 0 0 20 242 7 0 13 20 | 18 441 10 0 0 469 18 267 11 296 | 8 0 4 0 0 12 8 0 4 12 | |
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| 5:45 PM 0 50 0 | 50 0 0 0 0 430 7 0 13 0 0 20 | 0 84 0 84 18 542 11 0 0 571 | 0 0 0 8 0 4 0 0 12 | |
| | 187 6 0 10 16 54 0 0 0 0 | 15 189 9 213 0 64 0 64 | 6 0 4 10 0 0 0 0 | |
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| 7:45 PM 0 15 0 | 15 0 0 0 | 0 40 0 40 | 0 0 0 | |
| 8:00 PM 3 77 6 | 173 4 0 8 0 0 12 86 3 0 5 8 14 0 0 0 0 | 11 220 7 0 0 238 11 109 5 125 0 30 0 30 | 4 0 4 0 0 8 4 0 2 6 | |
| 8:15 PM 0 14 0 8:30 PM 0 13 0 | 14 0 0 0 0 13 0 0 0 0 | 0 30 0 30 0 21 0 21 | 0 0 0 0 0 0 | |
| | 19 0 0 0 0 132 3 0 5 0 0 8 | 0 20 0 20 11 180 5 0 0 196 | 0 0 0 0 4 0 2 0 0 6 | |
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| | 1 0 0 0 23 1 0 1 0 0 | 2 29 1 0 0 32 | 0 0 0 0 0 0 | |
| | | | | |

OMUTCD WARRANT 1, EIGHT-HOUR VEHICULAR VOLUME

Number of Lanes for Moving Traffic on Each Approach

Major Street: 1 Lane

Minor Street: 1 Lane

Built up Isolated Community with Less Than 10,000 Population or Above 40 MPH on Major Street? Yes

*Only applicable after an adequate trial of other alternatives (See section 4C.02.06 of the 2012 OMUTCD)

| Lanes | Lanes Adjusted | | | | | | Condition B Combination A/B* | | | | | | VB* | | | | | |
|----------------------|----------------|----------|-----------------|-------------|-----------------|----------|------------------------------|---------|-----------------|---------|-------------|-------------|-------------|------|-----------------|----------------|-------------|---------|
| Major/ | Volu | | | Condi | ition A | | | Condi | tion B | | Con | d. A | | d. B | | nd. A | Con | d. B |
| Minor | Major | Minor | | 00% | 70 | | | 0% | |)% | | % | |)% | | 6% | | % |
| 1/1 | ·] | / | Maj. 500 | Min. 150 | Maj. 350 | Min. 105 | Maj. 750 | Min. 75 | Maj. 525 | Min. 53 | Maj. | Min. 120 | Maj. | Min. | Maj. 280 | Min. 84 | Maj. | Min. 42 |
| 2+/1 | | | 600 | 150 | 420 | 105 | 900 | 75 | 630 | 53 | 480 | 120 | 720 | 60 | 336 | 84 | 504 | 42 |
| 2+ / 2+ | | | 600 | 200 | 420 | 140 | 900 | 100 | 630 | 70 | 480 | 160 | 720 | 80 | 336 | 112 | 504 | 56 |
| 1 / 2+ | | | 500 | 200 | 350 | 140 | 750 | 100 | 525 | 70 | 400 | 160 | 600 | 80 | 280 | 112 | 420 | 56 |
| 12:00 AM | 29 | 0 | | | | | | | | | | | | | | | | |
| 12:15 AM 12:30 AM | 11 10 | 0 | | | | | | | | | | | | | | | | |
| 12:30 AM 12:45 AM | 9 | 0 | | | | | | | | | | | | | | | | |
| 1:00 AM | 7 | 0 | | | | | | | | | | | | | | | | |
| 1:15 AM | 9 | 0 | | | | | | | | | | | | | | | | |
| 1:30 AM | 7 | 0 | | | | | | | | | | | | | | | | |
| 1:45 AM 2:00 AM | 6 6 | 0 | | | | | | | | | | | | | | | | |
| 2:15 AM | 5 | 0 | | | | | | | | | | | | | | | | |
| 2:30 AM | 9 | 0 | | | | | | | | | | | | | | | | |
| 2:45 AM | 10 | 0 | | | | | | | | | | | | | | | | |
| 3:00 AM | 10 | 0 | | | | | | | | | | | | | | | | |
| 3:15 AM 3:30 AM | 20 20 | 2 | | | | | | | | | | | | | | | | |
| 3:45 AM | 25 | 2 | | | | | | | | | | | | | | | | |
| 4:00 AM | 33 | 2 | | | | | | | | | | | | | | | | |
| 4:15 AM | 57 | 6 | | | | | | | | | | | | | | | | |
| 4:30 AM | 67 | 6 | | | | | | | | | | | | | | | | |
| 4:45 AM 5:00 AM | 79 104 | 6 6 | | | | | | | | | | | | | | | | |
| 5:15 AM | 169 | 14 | | | | | | | | | | | | | | | | |
| 5:30 AM | 197 | 14 | | | | | | | | | | | | | | | | |
| 5:45 AM 6:00 AM | 233 292 | 14 14 | | | | | | | | | | | | | 1 | | | |
| 6:15 AM | 486 | 24 | | | 1 | | | | | | 1 | | | | Ė | | 1 | |
| 6:30 AM | 570 | 24 | 1 | | | | | | 1 | | | | | | | | | |
| 6:45 AM 7:00 AM | 702 823 | 24 24 | | | | | 1 | | | | | | 1 | | 1 | | | |
| 7:15 AM | 891 | 21 | | | 1 | | | | | | 1 | | | | <u> </u> | | 1 | |
| 7:30 AM | 892 | 21 | 1 | | | | | | 1 | | | | | | | | | |
| 7:45 AM 8:00 AM | 835 740 | 21 21 | | | | | | | | | | | 1 | | 1 | | | |
| 8:15 AM | 650 | 14 | | | 1 | | | | | | 1 | | | | <u>'</u> | | 1 | |
| 8:30 AM | 590 | 14 | | | | | | | 1 | | | | | | | | | |
| 8:45 AM 9:00 AM | 518 460 | 14 14 | | | | | | | | | | | | | 1 | | | |
| 9:15 AM | 390 | 14 | | | 1 | | | | | | | | | | <u>'</u> | | | |
| 9:30 AM | 369 | 14 | | | | | | | | | | | | | | | | |
| 9:45 AM 10:00 AM | 369 367 | 14 14 | | | | | | | | | | | | | 1 | | | |
| 10:15 AM | 395 | 12 | | | 1 | | | | | | | | | | <u> </u> | | | |
| 10:30 AM | 417 | 12 | | | | | | | | | 1 | | | | | | | |
| 10:45 AM 11:00 AM | 426 440 | 12 12 | | | | | | | | | | | | | 1 | | 1 | |
| 11:15 AM | 485 | 14 | | | 1 | | | | | | | | | | <u> </u> | | | |
| 11:30 AM | 490 | 14 | | | | | | | | | 1 | | | | | | | |
| 11:45 AM 12:00 PM | 494 493 | 14 14 | | | | | | | | | | | | | 1 | | 1 | |
| 12:15 PM | 495 | 14 | | | 1 | | | | | | | | | | <u>'</u> | | | |
| 12:30 PM | 512 | 14 | 1 | | | | | | | | 1 | | | | | | | |
| 12:45 PM 1:00 PM | 512 502 | 14 14 | | | | | | | | | | | | | 1 | | 1 | |
| 1:15 PM | 479 | 15 | | | 1 | | | | | | | | | | <u> </u> | | | |
| 1:30 PM | 466 | 15 | | | | | | | | | 1 | | | | | | | |
| 1:45 PM 2:00 PM | 466 501 | 15 15 | | | | | | | | | | | | | 1 | | 1 | |
| 2:15 PM | 584 | 15 | | | 1 | | | | 1 | | | | | | | | | |
| 2:30 PM | 612 | 15 | | | | | | | | | 1 | | 1 | | | | | |
| 2:45 PM 3:00 PM | 653 670 | 15 15 | | | | | | | | | | | | | 1 | | 1 | |
| 3:15 PM | 753 | 19 | | | 1 | | 1 | | 1 | | | | | | | | | |
| 3:30 PM 3:45 PM | 771 834 | 19 19 | | | | | | | | | 1 | | 1 | | \vdash | | 1 | |
| 4:00 PM | 871 | 19 | | | | | | | | | | | | | 1 | | 1 | |
| 4:15 PM | 986 | 20 | | | 1 | | 1 | | 1 | | | | | | | | | |
| 4:30 PM 4:45 PM | 1024 1018 | 20 20 | | | | | | | | | 1 | | 1 | | | | 1 | |
| 5:00 PM | 1018 | 20 | | | | | | | | | | | | | 1 | | | |
| 5:15 PM | 863 | 14 | | | 1 | | 1 | | 1 | | | | | | | | | |
| 5:30 PM 5:45 PM | 820 742 | 14 14 | | | | | | | | | 1 | | 1 | | | | 1 | |
| 6:00 PM | 673 | 14 | 1 | | | | | | | | | | | | 1 | | | |
| 6:15 PM | 518 | 12 | | | 1 | | | | | | | | | | | | | |
| 6:30 PM 6:45 PM | 453 421 | 12 12 | | | | | | | | | 1 | | | | | | 1 | |
| 7:00 PM | 411 | 12 | | | | | | | | | | | | | 1 | | | |
| 7:15 PM | 377 | 7 | | | 1 | | | | | | | | | | | | | |
| 7:30 PM 7:45 PM | 368 344 | 7 | | | | | | | | | | | | | | | | |
| 8:00 PM | 328 | 7 | | | | | | | | | | | | | 1 | | | |
| 8:15 PM | 264 | 6 | | | | | | | | | | | | | | | | |
| 8:30 PM 8:45 PM | 251 236 | 6 6 | | | | | | | | | | | | | | | | |
| 9:00 PM | 214 | 6 | | | | | | | | | | | | | | | | |
| 9:15 PM | 143 | 3 | | | | | | | | | | | | | | | | |
| 9:30 PM 9:45 PM | 126 117 | 3 | | | | | | | | | | | | | | | | |
| HOURS MET | | | 9 | 0 | 14 | 0 | 4 | 0 | 7 | 0 | 12 | 0 | 6 | 0 | 15 | 0 | 12 | 0 |
| WARRANT S | ATISFIE | D? | N | 0 | N | 0 | N | 0 | N | 0 | | N | 0 | | | N | 0 | |

Warrant Met: No Notes:

OMUTCD WARRANT 2, FOUR-HOUR VEHICULAR VOLUME Warrant 2, Four-Hour Vehicular Volume ·1 lane & 1 lane **Number of Lanes for Moving Traffic on Total Number of Unique Hours Met on Figure 4C-1** 2+ lanes Major & 1 lane minor **Each Approach** 2+ lanes & 2+ lanes 2+ lanes minor & 1 lane major Major street: 1 Lane Total Number of Unique Hours Met on Figure 4C-2 (70% r Street 9 Approach -Top 4 Hours Minor Street: 1 Lane Yes Built up Isolated Community with Less Than 10,000 Population or Above 40 MPH on Major Street? lighest Actua Raw Traffic Counts Total Major Hour Minor Volume Hour Interval Minor Street Hour Major - New Albany-Condit Road Minor - Snider Loop Met? Approach Beginning At Approach (70% Factor) Volumes N-Bound S-Bound W-Bound E-Bound Volumes 6:00 AM Higher 6:15 AM 6:30 AM 6:45 AM 7:00 AM 7:15 AM 100 200 300 400 500 600 500 800 900 100 120 1300 1300 140 150 160 150 1800 1800 100 20 150 250 300 7:30 AM 311 7:45 AM 8:00 AM **Major Street** 8:15 AM Total of Both Approaches - vph 8:30 AM 8:45 AM 9:00 AM 8:30 AM 7:30 AM 9:15 AM 2nd Highest Hour 6:30 PM 9:30 AM 3rd Highest Hour 5:30 PM 4th Highest Hour 9:45 AM 10:00 AM 10:15 AM 10:30 AM 2nd Highest Hour 8:00 AM 9:00 AM 10:45 AM 3rd Highest Hour 4:30 PM 5:30 PM 11:00 AM 270 4th Highest Hour 3:30 PM 4:30 PM 11:15 AM 11:30 AM 11:45 AM Warrant 2 Four Hour Vehicular Volume (70% Factor) 237 12:00 PM (COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET) 12:15 PM -1 lane & 1 lane -2 or more lanes major & 1 lane minor -2 or more lanes minor & 1 lane major 12:30 PM 12:45 PM 1:00 PM 2 or more and 2 or more 1:15 PM Top 4 Hours 1:30 PM - vph 1:45 PM Minor Street · Volume Approach -2:00 PM 2:15 PM 2:30 PM 390 280 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM Higher 4:15 PM 20 4:30 PM 4:45 PM 5:00 PM 5:15 PM ₹00 ×00 5:30 PM 6:00 PM **Major Street** 6:15 PM Total of Both Approaches - vph 6:30 PM 6:45 PM 226 151 7:00 PM 7 7 7:15 PM Are the requirements for Warrant 2 met?: No 7:30 PM 7:45 PM

| | OMUTCD WARR | Hour Vehicular Volume | | | | | | |
|---|---|--|--------------------|----------------------|----------------------------|-------------------------------------|----------------------------|----------------------------|
| | mber of Lanes for Moving Traffic on Each Approach | Peak Hour Start time | 4:30 PM | Hour Interval | Major Street Combined | Highest Minor Street Approach | Sum of Major Street and | Sum of Major Street and |
| | r Street: 1 Lane r Street: 1 Lane | Peak Hour End Time | 5:30 PM | Beginning At | Vehicles Per Hour (VPH) | Vehicles Per Hour (VPH) | Highest Minor Street | Combined Minor Street |
| | | • | | 6:00 AM | 292 | 14 | 306 | 310 |
| | Built up Isola | ted Community with Less Than 10,000 | Yes | 6:15 AM | 486 | 24 | 510 | 521 |
| | Populat | ion or Above 40 MPH on Major Street? | 103 | 6:30 AM | 570 | 24 | 594 | 605 |
| | | | | 6:45 AM | 702 | 24 | 726 | 737 |
| | signal warrant being applied for an unusual case, suc | | | 7:00 AM | 823 | 24 | 847 | 858 |
| in | dustrial complexes, or high-occupancy vehicle facilities | | | 7:15 AM | 891 | 21 | 912 | 921 |
| | | vehicles over a short time? | | 7:30 AM 7:45 AM | 892 835 | 21 21 | 913 856 | 921 864 |
| 1. | adicate whather all three of the fallowi | na conditions for the come 4 has | ur lanu faun | 8:00 AM | 740 | 21 | 761 | 769 |
| II. | ndicate whether all three of the followi | • | • | 8:15 AM | 650 | 14 | 664 | 672 |
| | | ls) of an average day are presen | t° | 8:30 AM | 590 | 14 | 604 | 612 |
| | e total stopped time delay experienced by the traffic | | | 8:45 AM | 518 | 14 | 532 | 540 |
| only) | controlled by a STOP sign equal or exceed 4 vehicle-h hours for a two-lane app | | | 9:00 AM 9:15 AM | 460 390 | 14 14 | 474 404 | 482 411 |
| | • | | | 9:30 AM | 390 | 14 | 383 | 390 |
| oes the | e volume on the same minor-street approach (one dire | • | No | 9:45 AM | 369 | 14 | 383 | 390 |
| | hour for one moving lane of traffic or 150 vehicles | • | | 10:00 AM | 367 | 14 | 381 | 388 |
| | s the total entering volume serviced during the hour e | | Vaa | 10:15 AM | 395 | 12 | 407 | 415 |
| int | ersection with three approaches or 800 vehicles per h approaches? | iour for intersections with four or more | Yes | 10:30 AM 10:45 AM | 417 426 | 12 12 | 429 438 | 437 446 |
| | | ting calculations and documentation. | | 11:00 AM | 440 | 12 | 452 | 460 |
| | | | | 11:15 AM | 485 | 14 | 499 | 509 |
| | Are | the requirements for Warrant 3 met?: | No | 11:30 AM | 490 | 14 | 504 | 514 |
| | Figure 4C- | 3. Warrant 3 Peak Hour | | 11:45 AM 12:00 PM | 494 | 14 | 508 | 518 |
| | 1200 | 1 lane & 1 lane | | 12:00 PM | 493 495 | 14 14 | 507 509 | 517 518 |
| шe | 1000 | —— 1 larie & 1 larie —— 2+ lanes minor | & 1 lane major | 12:30 PM | 512 | 14 | 526 | 535 |
| Street- Higher Volume Approach - vph | 1000 | 2+ lanes & 2+ la | | 12:45 PM | 512 | 14 | 526 | 535 |
| , d | 800 | 2+ lanes major | & 1 lane minor _ | 1:00 PM | 502 | 14 | 516 | 525 |
| ghe - v | | | | 1:15 PM 1:30 PM | 479 466 | 15 15 | 494 481 | 503 |
| ä Fi | 600 | | | 1:45 PM | 466 | 15 | 481 | 490 490 |
| et- oro | 400 | | | 2:00 PM | 501 | 15 | 516 | 525 |
| Stre | | | | 2:15 PM | 584 | 15 | 599 | 608 |
| | 200 | | | 2:30 PM 2:45 PM | 612 | 15 | 627 | 636 |
| Minor | | | | 3:00 PM | 653 670 | 15 15 | 668 685 | 677 694 |
| | 0 500 400 | 0 1500 2000 | 2500 | 3:15 PM | 753 | 19 | 772 | 781 |
| | 0 500 100 | | 2500 | 3:30 PM | 771 | 19 | 790 | 799 |
| | Major Street - To | tal of Both Approaches - vph | | 3:45 PM 4:00 PM | 834 871 | 19 19 | 853 890 | 862 899 |
| | | Peak Hour (70% Factor) | | 4:15 PM | 986 | 20 | 1006 | 1016 |
| 4 | (COMMUNITY LESS THAN 10,000 PO | PULATION OR ABOVE 40 MPH ON MAJOR S | TREET) | 4:30 PM | 1024 | 20 | 1044 | 1054 |
| | 600 | 1 lane & 1 lane | | 4:45 PM | 1018 | 20 | 1038 | 1048 |
| 3 | 600 | 2+ lanes & 1 lane 2+ lanes & 2+ lane | es | 5:00 PM 5:15 PM | 1001 863 | 20 14 | 1021 877 | 1031 885 |
| Street | 500 | 2+ lanes minor & 1 | | 5:30 PM | 820 | 14 | 834 | 842 |
| Str | 400 | Peak Hour | | 5:45 PM | 742 | 14 | 756 | 764 |
| Minor | 300 | | 6:00 PM 6:15 PM | 673 | 14 | 687 | 695 | |
| ₹ 3 | 300 | | 6:30 PM | 518 453 | 12 12 | 530 465 | 537 472 | |
| ; | 200 | | 6:45 PM | 421 | 12 | 433 | 440 | |
| | 100 | | | 7:00 PM | 411 | 12 | 423 | 430 |
| ä | 0 | • | | 7:15 PM 7:30 PM | 377 368 | 7 7 | 384 | 389 |
| | | 100-110-120-120-140-150-160-17 | 180-100-200 | 7:45 PM | 368 | 7 | 375 351 | 380 356 |
| | 300 700 300 300 700 300 300 | $^{1000}^{1100}^{1200}^{1200}^{1300}^{1400}^{1500}^{1500}^{1600}^{170}$ Major Street | 00.000.900 | 8:00 PM | 328 | 7 | 335 | 340 |
| | Total | of Both Approaches - vph | | | | | | |

| _ | | | | |
|---|---|---------------------------------------|--|-----------|
| | Actual Peak Hour Major Traffic Volume | Actual Peak Hour Minor Traffic Volume | Required Peak Hour Minor Traffic Volume for Fig. 4C-3 | Fig. 4C-4 |
| | 1024 | 20 | 159.22382 | 84.881018 |
| 1 | | - | - | |

| Rig 0:00 | | Southbound Thru 3 | Left 0 | | | Right 1 | Westbound Thru | Left | | | Right 1 | Northboun Thru | Left | 1 | | Right 7 | Eastbound Thru | Left |
|----------------|----------|-------------------------|--------|---|--|----------|-------------------|------|---|------|----------|-------------------|------|--------|--|----------|-------------------|------|
| 12:15 12:30 | 0 | 2 | | 1 | | 1 0 | 0 | 0 |) | | 0 | 2 | • | 0 | | 1 1 | 5 2 | , , |
| 12:45 | 0 | 3 | 0 | | | 0 | 2 | 0 | | | 0 | 1 | | 0 | | 0 | 2 | 0 |
| 1:00 1:15 | 0 | 1 2 | 0 | | | 0 | 1 | 0 | | | 0 | 1 | + | 0 | | 0 | 0 | |
| 1:30 1:45 | 1 | 1 2 | 0 | | | 0 | 0 | ' |) | | 0 | 1 | | 1 | | 1 | 2 | |
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| 2:15 2:30 | 0 | 0 | | | | 0 | | 0 | | | 0 | (|) | 0 | | 1 | 0 | 0 |
| 2:45 | 0 | | V | | | 0 | 0 | · | | | 0 | 1 | 4 | 0 | | 0 | 0 | |
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| 3:15 3:30 | 0 | 4 | 0 | | | 0 | 0 2 | 0 | | | 0 | 1 | | 1 | | 3 | 0 | 0 |
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| 4:00 4:15 | 0 | 5 4 | 1 0 | | | 0 | 0 | 0 | | | 0 | 3 | | 0 | | 1 2 | 0 | |
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| 5:00 | 0 | 9 | 0 | | | 0 |) 6 | 7 | , | | 0 | 2 | 2 | 1 | | 4 | 2 | 1 |
| 5:15 5:30 | 0 | 15 24 | | | | 0 | 7 | 10 | | | 0 | 14 | | 3 5 | | 2 5 | 5 6 | |
| 5:45 | 1 | 26 | | | | 4 | 10 | + | | | 3 | 9 | | 7 | | 3 | 4 | 3 |
| 6:00 6:15 | 1 | 27 37 | | | | 3 | 13 | | | | 1 | 21 21 | | 3 | | 0 | 4 | 1 |
| 6:30 | 1 | 51 62 | 5 | | | 8 | 23 | 8 | 3 | | 3 | 29 |) | 9 | | 10 15 | 10 | 3 |
| 6:45 | 4 | | | | | 11 | | | | | 2 | | | 3 | | | | |
| 7:00 7:15 | 3 | 77 | 6 | | | 11 23 | 65 | 17 | , | | 0 | 61 | 3 | | | 21 22 | 22 | 4 |
| 7:30 7:45 | 8 8 | | | | | 38 31 | | | | | 9 | 103 87 | | 1 | | 24 35 | | |
| 8:00 | 8 | | | | | 21 | | | 3 | | 8 | 78 | | 4 | | 28 | | |
| 8:15 8:30 | 8 7 | 81 | 9 | | | 17 11 | 42 | 21 | | | 8 | 74 48 | 3 | | | 32 24 | 33 | 8 |
| 8:45 | 1 | 52 | | | | 7 | 37 | | | | 10 | | | 0 | | 25 | | |
| 9:00 9:15 | 4 | 45 29 | 7 | | | 10 7 | 27 | 7 | , | | 12 13 | 39 | 2 | | | 29 10 | 25 | 9 |
| 9:30 9:45 | 7 5 | 27 | 1 | | | 5 | 16 | 5 | | | 5 | 25 36 | 5 1 | 6 | | 13 7 | 17 | 6 |
| 10:00 | 4 | 33 | | | | 1 | 21 | | | | 5 | 27 | | 1 | | 12 | | |
| 10:15 10:30 | 7 | 38 | 5 | | | 5 | | 7 | | | 7 | 30 |) 1 | 6 | | 13 16 | 24 | . 5 |
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| 1:00 | 12 | 33 | 4 | | | 52 | 2 30 | 12 | ? | | 9 | 47 | , 2 | 3 | | 20 | 44 | . 8 |
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| 3:15 | 9 | 39 | 3 | | | 4 | 15 | 14 | | | 10 | 63 | 3 1 | 3 | | 26 | 40 | 6 |
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| 4:00 | 10 | | | | | 9 | | | | | 17 | | | 0 | | 31 | 50 | |
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| 8:15 | 3 | 30 | 3 | | | 0 | 19 | 6 | | | 5 | 27 | 7 | 5 | | 9 | 47 | 3 |
| 8:30 8:45 | 5 4 | | | | | 2 | 1 .0 | | 3 | | 13 13 | | | 9 | | 11 11 | 32 26 | |
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| | Southbound Thru | l Left | | | | Westbound Thru | Left | | | | Northbound Thru | Left | | | Right | Eastbound Thru | Left |
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| 0:00 12:15 | 4 | | | | Right | Tillu | 0 | | | 1 | 8 | | | | 8 | | Leit |
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| 4:00 4:15 | 6 | | | | | | 0 | | | 0 | 4 | 0 | | | 1 | | |
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| 6:00 6:15 | 33 | | | | | | 5 | | | 1 | 25 | 4 | | | 0 | | |
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| 7:00 7:15 | 72 | | | | | | 14 | | | 2 | 63 | 22 | | | 24 | | |
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| 8:00 8:15 | 74 | | | | | | 27 | | | 9 | 91 | 40 | | | 32 | ! | |
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| 9:00 9:15 | 55 | | | | | | 15 | | | 14 | 54 | 22 | | | 33 | | |
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| 11:00 | 37 | | | | | | 14 | | | 13 | 39 | 25 | | | 21 | | |
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| | 34 | | | | | | 9 | | | 11 | 46 | 12 | | | 15 | | |
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| Growth Rates New Albany-Condit Road SB Central College Road WB New Albany-Condit Road NB Central College Road EB | 1.7% 1.3% 1.3% 1.1% |
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| Collection Year Design Year | 2019 2032 |
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| | Southbou Right Thru | Left | | Right | Westbound Thru | Left | | | Right | Northbound Thru | Left | | Right | Eastbound Thru | Left |
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| 9:00 9:15 | 10 | 18 15 17 11 | | 8 | | | 1 1 | | 28 | 3 73 4 41 | 35 17 | | 10 | | |
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| 12:15 12:30 12:45 | 10 | 35 13 52 9 12 12 | | 9 5 10 | 14 | . 3 | 3 | | - | 4 56 7 41 5 44 | 16 | | 23 13 14 | 25 | 2 |
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New Albany-Condit Road & Walton Parkway Intersection Count Data Grown

| | Southbound | t l | Ī | Westbound | l | | | | Northbound | <u> </u> | l | | l | Eastbound | |
|--------------------|------------|----------------|----------|------------|----------|--|---|----------|------------|----------|----------|------|--|------------|----------|
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| 12:30 0 12:45 0 | | 0 0 | | 0 | | | | | 2 | - | | | | | 0 |
| 1:00 0 | 0 | 0 | | 0 | | | | | 0 | | | | | | 0 |
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| | | uthbound | | | | | Westbound | | | | Northbound | | | | Eastbound | |
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| Trip Distri | bution (Snider Loop |) - Distribut | ion matches | the distribu | ition used in th | e TIS volumes. |
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| | Southbound Right Thru | Entry Left | | | Westbound | Exit Left | | | | Northbound Thru | Left | | Right | Eastbound Thru | Left | 210 - Single-Far Detached Hous Entry % Exit % | sing 210 Weekda |
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| | 3% Entry | 30% Exit | | | Trip Distribution (Site Traffic) |) - Distributio | on matches | the distribut | ion used in t | the TIS volu 26% Entry | mes. 4% Entry | 4% Exit | | 3% Exit | 210 - Single-Family | |
|----------------|-------------|-------------|-----------|---|----------------------------------|-----------------|------------|---------------|---------------|------------------------------|---------------------------------------|------------|-------------------|------------|-----------------------------|-------------------|
| | (| Southbound | d Left | | Westbound Right Thru Left | | | | | Northbound | | | Eastbound Thru | Left | Detached Housing | 210 Weekday |
| 0:00 | Right 0 | | | | Right Thru Left | | | | Right | 0 | | Right 0 | Thru | 0 | Entry % Exit % 0.5% 0.2% | Entry/Exit 208 |
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| | 3% 30% Entry Exit | | Trip | Distribution | (Site Traffic) |) - Distribution matches | the distribu | tion used in | the TIS volumes. 26% 4% Entry Entry | | 4% Exit | | 3% Exit | 220 - Multi | amily | |
|----------------|----------------------------|----------|-------|-------------------|----------------|--------------------------|--------------|--------------|-------------------------------------|--------------|------------|-------------------|------------|---------------------------|---------|--------------------|
| | Southbound Right Thru Left | | Right | Westbound Thru | Left | | | | Northbound Thru Left | | | Eastbound Thru | Left | Housing (Lo Entry % Ex | w-Rise) | 220 Weekday |
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| | 3% Entry | 30% Exit | | | | | e) - Distribution matches | the distribu | tion used in | tne 115 volumes. 26% 4% Entry Entry | | 4% Exit | | 3% Exit | 252 - Senio | | |
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| | 3% 30% Entry Exit | Т | rip Distributior | (Site Traffic) | - Distribution matches | the distribu | tion used in | the TIS volumes. 26% 4% Entry Entry | | 4% Exit | | 3% Exit | | |
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| | 3% | 30% | | | Trip I | Distribution | (Site Traffic | e) - Distribution | on matches | the distribut | tion used in | the TIS volumes. | | | 4% | | 3% | | | |
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| | | Exit Southbound | | | | Westbound | | | | | | Entry Entry Northbound | У | | | Eastbound | | 820 - Shop Center | | 820 Weekday |
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| | | | | | | | | | | | | | | | - | | _ | ~ | 4.501 | |
| 8:00 8:15 | | 4 | | | | | | | | | | 5 | 1 | | 0 | | 0 | 2.6% | 1.5% | |
| 8:30 | | | | | | | | | | | | | | | | | | | | |
| 8:45 | | <u></u> | <u> </u> | | | | | | | | | | | | | | | | | |
| 9:00 | 1 | 6 | | | | | | | | | | 10 | 2 | | 1 | | 1 | 4.7% | 2.5% | |
| 9:15 9:30 | | | | | | | | | | | | | | | | | | | | |
| 9:45 | | | | | | | | | | | | | | | | | | | | |
| 10:00 | 2 | 10 | | | | | | | | | | 15 | 2 | | 1 | | 1 | 7.1% | 4.1% | |
| 10:15 | | | | | | | | | | | | | | | | | | | | |
| 10:30 10:45 | | | | | | | | | | | | | | | | | | | | |
| | | 40 | | | | | | | | | | 20 | 0 | | | | | 0.70/ | 0.00/ | |
| 11:00 11:15 | | 16 | | | | | | | | | | 20 | 3 | | 2 | | 2 | 9.7% | 6.8% | |
| 11:30 | | | | | | | | | | | | | | | | | | | | |
| 11:45 | | | | | | | | | | | | | | | | | | | | |
| 12:00 12:15 | | 23 | | | | | | | | | | 22 | 3 | | 3 | | 2 | 10.6% | 9.4% | |
| 12:30 | | | | | | | | | | | | | | | | | | | | |
| 12:45 | | | | | | | | | | | | | | | | | | | | |
| 1:00 | 2 | 23 | | | | | | | | | | 19 | 3 | | 3 | | 2 | 9.2% | 9.5% | |
| 1:15 1:30 | | | | | | | | | | | | | | | | | | | | |
| 1:45 | | | | | | | | | | | | | | | | | | | | |
| 2:00 | 2 | 22 | | | | | | | | | | 19 | 3 | | 3 | | 2 | 8.9% | 9.2% | |
| 2:15 | | | | | | | | | | | | | | | | | | 0.070 | 0.270 | |
| 2:30 2:45 | | | | | | | | | | | | | | | | | | | | |
| | | _ | | | | | | | | | | | | | | | | | 0.001 | |
| 3:00 3:15 | | 22 | | | | | | | | | | 18 | 3 | | 3 | | 2 | 8.5% | 9.0% | |
| 3:30 | | | | | | | | | | | | | | | | | | | | |
| 3:45 | | | | | | | | | | | | | | | | | | | | |
| 4:00 | | 23 | | | | | | | | | | 19 | 3 | | 3 | | 2 | 8.9% | 9.4% | |
| 4:15 4:30 | | | | | | | | | | | | | | | | | | | | |
| 4:45 | | | | | | | | | | | | | | | | | | | | |
| 5:00 | | 23 | | | | | | | | | | 19 | 3 | | 3 | | 2 | 9.2% | 9.4% | |
| 5:15 5:30 | | | | | | | | | | | | | | | | | | | | |
| 5:45 | | | | | | | | | | | | | | | | | | | | |
| 6:00 | 2 | 21 | | | | | | | | | | 16 | 2 | | 3 | | 2 | 7.6% | 8.5% | |
| 6:15 | | 21 | | | | | | | | | | 10 | _ | | 3 | | ۷ | 7.070 | 5.570 | |
| 6:30 6:45 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 0.000 | |
| 7:00 7:15 | | 17 | | | | | | | | | | 11 | 2 | | 2 | | 2 | 5.3% | 6.9% | |
| 7:30 | | | | | | | | | | | | | | | | | | | | |
| 7:45 | | | | | | | | | | | | | | | | | | | | |
| 8:00 8:15 | 1 | 14 | | | | | | | | | | 7 | 1 | | 2 | | 1 | 3.2% | 5.6% | |
| 8:15 | | <u>L</u> | | | | | | | | | | | | | | | | | | |
| 8:30 8:45 | | | | | | | | | | | | | | | | | | | | |
| 9:00 | 0 | 10 | | | | | | | | | | 3 | 1 | | 1 | | 1 | 1.6% | 4.3% | |
| 9:15 9:30 | | | | | | | | | | | | | | | | | | | | |
| 9:30 | | | | | | | | | | | | | | | | | | | | |
| 10:00 | | Λ | | | | | | | | | | 1 | 0 | | 0 | | | 0.7% | 1.5% | |
| 10:15 | | 4 | | | | | | | | | | 1 | | | 0 | | <u> </u> | U.1 7 ₀ | 1.0/0 | |
| 10:30 10:45 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 11:00 11:15 | | 2 | | | | | | | | | | 1 | 0 | | 0 | | 0 | 0.3% | 0.7% | |
| 11:30 | | | | | _ | | | | | | | | | | | | _ | | | |

Appendix GQueuing Analysis



Intersection: 3: New Albany-Condit Road & Central College Road

| Movement | EB | EB | EB | WB | WB | WB | NB | NB | SB | SB | SB | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|--|
| Directions Served | L | Т | R | L | Т | TR | L | TR | L | Т | R | |
| Maximum Queue (ft) | 66 | 157 | 87 | 119 | 169 | 157 | 109 | 261 | 85 | 244 | 55 | |
| Average Queue (ft) | 23 | 72 | 35 | 46 | 88 | 64 | 50 | 120 | 36 | 120 | 13 | |
| 95th Queue (ft) | 54 | 134 | 72 | 92 | 143 | 118 | 94 | 212 | 73 | 202 | 39 | |
| Link Distance (ft) | | 584 | 584 | | 788 | | | 1056 | | 338 | | |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 355 | | | 310 | | 390 | 310 | | 330 | | 390 | |
| Storage Blk Time (%) | | | | | | | | 0 | | | | |
| Queuing Penalty (veh) | | | | | | | | 0 | | | | |

Intersection: 6: New Albany Road E & Central College Road

| Movement | EB | EB | EB | WB | WB | WB | WB | NB | NB | NB | NB | SB |
|-----------------------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | T | TR | L | L | Т | TR | L | Т | T | R | L |
| Maximum Queue (ft) | 120 | 154 | 121 | 111 | 141 | 106 | 133 | 42 | 217 | 243 | 86 | 69 |
| Average Queue (ft) | 58 | 67 | 50 | 47 | 71 | 44 | 58 | 16 | 123 | 144 | 34 | 28 |
| 95th Queue (ft) | 107 | 117 | 98 | 94 | 114 | 84 | 103 | 42 | 194 | 212 | 68 | 62 |
| Link Distance (ft) | | 1314 | 1314 | | | 690 | 690 | 934 | 934 | 934 | 934 | |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 290 | | | 325 | 325 | | | | | | | 305 |
| Storage Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |

Intersection: 6: New Albany Road E & Central College Road

| Movement | SB | SB | SB |
|-----------------------|-----|-----|-----|
| Directions Served | T | Т | R |
| Maximum Queue (ft) | 187 | 151 | 46 |
| Average Queue (ft) | 99 | 49 | 12 |
| 95th Queue (ft) | 164 | 114 | 37 |
| Link Distance (ft) | 715 | 715 | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | | | 645 |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

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Intersection: 8: Walton Parkway/EMH&T Driveway & New Albany Road E

| Movement | EB | EB | EB | WB | WB | WB | NB | NB | SB | SB | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|--|
| Directions Served | L | Т | TR | L | Т | TR | L | TR | L | TR | |
| Maximum Queue (ft) | 95 | 365 | 456 | 108 | 124 | 133 | 113 | 60 | 16 | 22 | |
| Average Queue (ft) | 19 | 104 | 230 | 48 | 50 | 51 | 52 | 18 | 1 | 1 | |
| 95th Queue (ft) | 57 | 282 | 398 | 120 | 118 | 123 | 98 | 50 | 6 | 11 | |
| Link Distance (ft) | | 519 | 519 | | 500 | 500 | | 418 | | 193 | |
| Upstream Blk Time (%) | | 0 | 1 | | | | | | | | |
| Queuing Penalty (veh) | | 0 | 0 | | | | | | | | |
| Storage Bay Dist (ft) | 105 | | | 140 | | | 265 | | 40 | | |
| Storage Blk Time (%) | | 2 | | 7 | | | | | 0 | 0 | |
| Queuing Penalty (veh) | | 1 | | 18 | | | | | 0 | 0 | |

Intersection: 12: New Albany-Condit Road & Walton Parkway

| Movement | EB | EB | WB | WB | NB | NB | SB | SB |
|-----------------------|----|------|-----|-----|-----|-----|-----|-----|
| Directions Served | L | TR | L | TR | L | TR | L | TR |
| Maximum Queue (ft) | 63 | 145 | 106 | 220 | 143 | 277 | 116 | 267 |
| Average Queue (ft) | 10 | 80 | 18 | 87 | 70 | 85 | 43 | 118 |
| 95th Queue (ft) | 45 | 133 | 55 | 166 | 125 | 193 | 87 | 224 |
| Link Distance (ft) | | 1751 | | 696 | | 446 | | 635 |
| Upstream Blk Time (%) | | | | | | 0 | | |
| Queuing Penalty (veh) | | | | | | 0 | | |
| Storage Bay Dist (ft) | 95 | | 95 | | 120 | | 330 | |
| Storage Blk Time (%) | | 10 | | 10 | 2 | 2 | | |
| Queuing Penalty (veh) | | 1 | | 2 | 6 | 3 | | |

Intersection: 16: Central College Road & Discover Complex Access

| Movement | EB | EB | WB | SB | SB | SB |
|-----------------------|-----|-----|-----|-----|-----|-----|
| Directions Served | L | L | TR | L | R | R |
| Maximum Queue (ft) | 29 | 52 | 13 | 31 | 31 | 24 |
| Average Queue (ft) | 2 | 13 | 1 | 6 | 6 | 1 |
| 95th Queue (ft) | 12 | 41 | 6 | 26 | 25 | 9 |
| Link Distance (ft) | | | 584 | | 159 | 159 |
| Upstream Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |
| Storage Bay Dist (ft) | 355 | 355 | | 135 | | |
| Storage Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |

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Intersection: 21: New Albany-Condit Road & Snider Loop

| Movement | WB | SB |
|-----------------------|-----|------|
| Directions Served | LR | LT |
| Maximum Queue (ft) | 50 | 30 |
| Average Queue (ft) | 21 | 2 |
| 95th Queue (ft) | 45 | 19 |
| Link Distance (ft) | 474 | 1056 |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Network Summary

Network wide Queuing Penalty: 31

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Intersection: 3: New Albany-Condit Road & Central College Road

| Movement | EB | EB | EB | WB | WB | WB | NB | NB | SB | SB | SB | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Directions Served | L | Т | R | L | T | TR | L | TR | L | Т | R | |
| Maximum Queue (ft) | 76 | 180 | 78 | 107 | 178 | 152 | 112 | 287 | 88 | 293 | 51 | |
| Average Queue (ft) | 26 | 81 | 29 | 46 | 95 | 70 | 50 | 140 | 39 | 131 | 15 | |
| 95th Queue (ft) | 56 | 151 | 62 | 86 | 155 | 129 | 91 | 236 | 74 | 231 | 40 | |
| Link Distance (ft) | | 584 | 584 | | 788 | | | 526 | | 338 | | |
| Upstream Blk Time (%) | | | | | | | | | | 0 | | |
| Queuing Penalty (veh) | | | | | | | | | | 0 | | |
| Storage Bay Dist (ft) | 355 | | | 310 | | 390 | 310 | | 330 | | 390 | |
| Storage Blk Time (%) | | | | | | | | 0 | | 0 | | |
| Queuing Penalty (veh) | | | | | | | | 0 | | 0 | | |

Intersection: 6: New Albany Road E & Central College Road

| Movement | EB | EB | EB | WB | WB | WB | WB | NB | NB | NB | NB | SB |
|-----------------------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | T | TR | L | L | T | TR | L | T | T | R | L |
| Maximum Queue (ft) | 119 | 138 | 116 | 124 | 134 | 109 | 153 | 55 | 212 | 204 | 95 | 70 |
| Average Queue (ft) | 51 | 70 | 50 | 50 | 73 | 47 | 68 | 20 | 124 | 143 | 39 | 27 |
| 95th Queue (ft) | 95 | 124 | 95 | 101 | 116 | 87 | 120 | 48 | 188 | 203 | 71 | 60 |
| Link Distance (ft) | | 1314 | 1314 | | | 685 | 685 | 194 | 194 | 194 | 194 | |
| Upstream Blk Time (%) | | | | | | | | | 1 | 1 | | |
| Queuing Penalty (veh) | | | | | | | | | 1 | 3 | | |
| Storage Bay Dist (ft) | 290 | | | 325 | 325 | | | | | | | 305 |
| Storage Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |

Intersection: 6: New Albany Road E & Central College Road

| Movement | SB | SB | SB |
|-----------------------|-----|-----|-----|
| Directions Served | Ţ | Т | R |
| Maximum Queue (ft) | 200 | 150 | 38 |
| Average Queue (ft) | 107 | 56 | 10 |
| 95th Queue (ft) | 178 | 127 | 34 |
| Link Distance (ft) | 715 | 715 | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | | | 645 |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

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Intersection: 8: Walton Parkway/EMH&T Driveway & New Albany Road E

| Movement | EB | EB | EB | WB | WB | WB | NB | NB | SB | SB | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|--|
| Directions Served | L | Т | TR | L | T | TR | L | TR | L | TR | |
| Maximum Queue (ft) | 70 | 451 | 502 | 136 | 132 | 138 | 124 | 60 | 20 | 22 | |
| Average Queue (ft) | 12 | 108 | 245 | 47 | 51 | 57 | 53 | 22 | 1 | 1 | |
| 95th Queue (ft) | 40 | 298 | 406 | 118 | 119 | 117 | 99 | 53 | 11 | 10 | |
| Link Distance (ft) | | 519 | 519 | | 501 | 501 | | 418 | | 193 | |
| Upstream Blk Time (%) | | 0 | 1 | | | | | | | | |
| Queuing Penalty (veh) | | 0 | 0 | | | | | | | | |
| Storage Bay Dist (ft) | 105 | | | 140 | | | 265 | | 40 | | |
| Storage Blk Time (%) | | 1 | | 7 | | | | | 0 | 0 | |
| Queuing Penalty (veh) | | 1 | | 20 | | | | | 0 | 0 | |

Intersection: 12: New Albany-Condit Road & Walton Parkway

| Movement | EB | EB | WB | WB | NB | NB | SB | SB |
|-----------------------|----|------|----|-----|-----|-----|-----|-----|
| Directions Served | L | TR | L | TR | L | TR | L | TR |
| Maximum Queue (ft) | 59 | 179 | 87 | 232 | 141 | 225 | 134 | 253 |
| Average Queue (ft) | 8 | 85 | 16 | 92 | 68 | 89 | 52 | 114 |
| 95th Queue (ft) | 33 | 150 | 54 | 175 | 126 | 183 | 104 | 212 |
| Link Distance (ft) | | 1751 | | 696 | | 446 | | 635 |
| Upstream Blk Time (%) | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | |
| Storage Bay Dist (ft) | 95 | | 95 | | 120 | | 330 | |
| Storage Blk Time (%) | | 12 | 0 | 11 | 3 | 2 | | |
| Queuing Penalty (veh) | | 1 | 0 | 2 | 14 | 4 | | |

Intersection: 14: New Albany Road E & Site Access 1

| Movement | WB | NB | NB |
|-----------------------|-----|-----|-----|
| Directions Served | R | T | T |
| Maximum Queue (ft) | 35 | 11 | 38 |
| Average Queue (ft) | 8 | 1 | 2 |
| 95th Queue (ft) | 30 | 9 | 17 |
| Link Distance (ft) | 550 | 693 | 693 |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | | | |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

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Intersection: 16: Site Access 2/Discover Complex Access & Central College Road

| Movement | EB | EB | EB | WB | WB | NB | SB | SB | SB |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | L | TR | L | TR | LTR | L | TR | R |
| Maximum Queue (ft) | 38 | 38 | 2 | 33 | 8 | 91 | 31 | 31 | 18 |
| Average Queue (ft) | 2 | 10 | 0 | 6 | 0 | 41 | 7 | 9 | 2 |
| 95th Queue (ft) | 16 | 31 | 2 | 24 | 4 | 75 | 27 | 32 | 14 |
| Link Distance (ft) | | | 685 | | 584 | 246 | | 159 | |
| Upstream Blk Time (%) | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | |
| Storage Bay Dist (ft) | 355 | 355 | | 125 | | | 135 | | 135 |
| Storage Blk Time (%) | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | |

Intersection: 19: New Albany-Condit Road & Site Access 3/Site Access 4

| Movement | EB | WB | NB | SB | |
|-----------------------|-----|-----|-----|-----|--|
| Directions Served | LTR | LTR | L | L | |
| Maximum Queue (ft) | 80 | 39 | 43 | 29 | |
| Average Queue (ft) | 37 | 15 | 10 | 4 | |
| 95th Queue (ft) | 65 | 40 | 34 | 19 | |
| Link Distance (ft) | 549 | 363 | | | |
| Upstream Blk Time (%) | | | | | |
| Queuing Penalty (veh) | | | | | |
| Storage Bay Dist (ft) | | | 200 | 225 | |
| Storage Blk Time (%) | | | | | |
| Queuing Penalty (veh) | | | | | |

Intersection: 21: New Albany-Condit Road & Site Access 5/Snider Loop

| Movement | EB | WB | WB | NB | SB | |
|-----------------------|-----|-----|-----|-----|-----|--|
| Directions Served | LTR | L | TR | L | L | |
| Maximum Queue (ft) | 49 | 43 | 38 | 28 | 22 | |
| Average Queue (ft) | 13 | 15 | 8 | 4 | 2 | |
| 95th Queue (ft) | 40 | 41 | 30 | 20 | 13 | |
| Link Distance (ft) | 566 | 474 | 474 | | | |
| Upstream Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |
| Storage Bay Dist (ft) | | | | 225 | 200 | |
| Storage Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |

Network Summary

Network wide Queuing Penalty: 46

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Intersection: 3: New Albany-Condit Road & Central College Road

| Movement | EB | EB | EB | WB | WB | WB | NB | NB | SB | SB | SB | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|--|
| Directions Served | L | Т | R | L | T | TR | L | TR | L | T | R | |
| Maximum Queue (ft) | 74 | 262 | 60 | 72 | 147 | 93 | 288 | 524 | 63 | 212 | 45 | |
| Average Queue (ft) | 25 | 129 | 27 | 30 | 71 | 43 | 78 | 233 | 32 | 106 | 16 | |
| 95th Queue (ft) | 57 | 219 | 54 | 64 | 122 | 84 | 215 | 458 | 60 | 183 | 42 | |
| Link Distance (ft) | | 584 | 584 | | 788 | | | 1056 | | 338 | | |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 355 | | | 310 | | 390 | 310 | | 330 | | 390 | |
| Storage Blk Time (%) | | | | | | | 0 | 5 | | | | |
| Queuing Penalty (veh) | | | | | | | 0 | 7 | | | | |

Intersection: 6: New Albany Road E & Central College Road

| Movement | EB | EB | EB | WB | WB | WB | WB | NB | NB | NB | NB | SB |
|-----------------------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | Т | TR | L | L | T | TR | L | T | Т | R | L |
| Maximum Queue (ft) | 100 | 130 | 111 | 135 | 138 | 108 | 124 | 95 | 153 | 198 | 94 | 108 |
| Average Queue (ft) | 40 | 58 | 41 | 63 | 85 | 56 | 62 | 26 | 76 | 89 | 30 | 42 |
| 95th Queue (ft) | 79 | 107 | 85 | 115 | 128 | 95 | 106 | 66 | 130 | 159 | 66 | 81 |
| Link Distance (ft) | | 1314 | 1314 | | | 690 | 690 | 934 | 934 | 934 | 934 | |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 290 | | | 325 | 325 | | | | | | | 305 |
| Storage Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |

Intersection: 6: New Albany Road E & Central College Road

| Movement | SB | SB | SB |
|-----------------------|-----|-----|-----|
| Directions Served | Ţ | Т | R |
| Maximum Queue (ft) | 225 | 181 | 72 |
| Average Queue (ft) | 126 | 85 | 28 |
| 95th Queue (ft) | 200 | 166 | 55 |
| Link Distance (ft) | 715 | 715 | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | | | 645 |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

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Intersection: 8: Walton Parkway/EMH&T Driveway & New Albany Road E

| Movement | EB | EB | EB | WB | WB | WB | NB | NB | SB | SB | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|--|
| Directions Served | L | Т | TR | L | Т | TR | L | TR | L | TR | |
| Maximum Queue (ft) | 16 | 200 | 262 | 145 | 295 | 301 | 246 | 78 | 30 | 79 | |
| Average Queue (ft) | 1 | 51 | 145 | 22 | 165 | 179 | 145 | 25 | 5 | 27 | |
| 95th Queue (ft) | 8 | 129 | 244 | 81 | 260 | 274 | 231 | 62 | 21 | 63 | |
| Link Distance (ft) | | 519 | 519 | | 500 | 500 | | 418 | | 193 | |
| Upstream Blk Time (%) | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | |
| Storage Bay Dist (ft) | 105 | | | 140 | | | 265 | | 40 | | |
| Storage Blk Time (%) | | 1 | | 0 | 11 | | 0 | | 0 | 4 | |
| Queuing Penalty (veh) | | 0 | | 0 | 2 | | 0 | | 0 | 0 | |

Intersection: 12: New Albany-Condit Road & Walton Parkway

| Movement | EB | EB | WB | WB | NB | NB | SB | SB |
|-----------------------|-----|------|-----|-----|-----|-----|-----|-----|
| Directions Served | L | TR | L | TR | L | TR | L | TR |
| Maximum Queue (ft) | 113 | 209 | 119 | 193 | 92 | 234 | 142 | 203 |
| Average Queue (ft) | 36 | 97 | 30 | 90 | 29 | 98 | 61 | 91 |
| 95th Queue (ft) | 85 | 174 | 75 | 161 | 66 | 191 | 113 | 171 |
| Link Distance (ft) | | 1751 | | 696 | | 446 | | 635 |
| Upstream Blk Time (%) | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | |
| Storage Bay Dist (ft) | 95 | | 95 | | 120 | | 330 | |
| Storage Blk Time (%) | 1 | 13 | 0 | 9 | 0 | 4 | | |
| Queuing Penalty (veh) | 2 | 6 | 1 | 3 | 0 | 2 | | |

Intersection: 16: Central College Road & Discover Complex Access

| Movement | EB | EB | SB | SB | SB | |
|-----------------------|-----|-----|-----|-----|-----|--|
| Directions Served | L | L | L | R | R | |
| Maximum Queue (ft) | 6 | 36 | 76 | 59 | 28 | |
| Average Queue (ft) | 0 | 4 | 25 | 23 | 3 | |
| 95th Queue (ft) | 4 | 21 | 59 | 51 | 19 | |
| Link Distance (ft) | | | | 159 | 159 | |
| Upstream Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |
| Storage Bay Dist (ft) | 355 | 355 | 135 | | | |
| Storage Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |

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Intersection: 21: New Albany-Condit Road & Snider Loop

| Movement | WB | SB |
|-----------------------|-----|------|
| Directions Served | LR | LT |
| Maximum Queue (ft) | 43 | 75 |
| Average Queue (ft) | 13 | 8 |
| 95th Queue (ft) | 40 | 41 |
| Link Distance (ft) | 474 | 1056 |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Network Summary

Network wide Queuing Penalty: 24

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Intersection: 3: New Albany-Condit Road & Central College Road

| Movement | EB | EB | EB | WB | WB | WB | NB | NB | SB | SB | SB | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Directions Served | L | Т | R | L | T | TR | L | TR | L | T | R | |
| Maximum Queue (ft) | 67 | 288 | 81 | 104 | 154 | 134 | 335 | 515 | 65 | 243 | 62 | |
| Average Queue (ft) | 27 | 135 | 30 | 36 | 79 | 48 | 101 | 262 | 33 | 120 | 19 | |
| 95th Queue (ft) | 61 | 231 | 64 | 79 | 134 | 97 | 281 | 483 | 64 | 204 | 48 | |
| Link Distance (ft) | | 584 | 584 | | 788 | | | 526 | | 338 | | |
| Upstream Blk Time (%) | | | | | | | | 2 | | 0 | | |
| Queuing Penalty (veh) | | | | | | | | 11 | | 0 | | |
| Storage Bay Dist (ft) | 355 | | | 310 | | 390 | 310 | | 330 | | 390 | |
| Storage Blk Time (%) | | 0 | | | | | 0 | 11 | | 0 | | |
| Queuing Penalty (veh) | | 0 | | | | | 0 | 16 | | 0 | | |

Intersection: 6: New Albany Road E & Central College Road

| Movement | EB | EB | EB | WB | WB | WB | WB | NB | NB | NB | NB | SB |
|-----------------------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | Т | TR | L | L | T | TR | L | Т | T | R | L |
| Maximum Queue (ft) | 86 | 133 | 119 | 150 | 173 | 152 | 147 | 71 | 116 | 148 | 104 | 95 |
| Average Queue (ft) | 35 | 62 | 46 | 68 | 92 | 53 | 60 | 25 | 72 | 84 | 39 | 44 |
| 95th Queue (ft) | 70 | 115 | 98 | 127 | 140 | 107 | 116 | 59 | 111 | 135 | 79 | 83 |
| Link Distance (ft) | | 1314 | 1314 | | | 685 | 685 | 194 | 194 | 194 | 194 | |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 290 | | | 325 | 325 | | | | | | | 305 |
| Storage Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |

Intersection: 6: New Albany Road E & Central College Road

| Movement | SB | SB | SB |
|-----------------------|-----|-----|-----|
| Directions Served | T | T | R |
| Maximum Queue (ft) | 238 | 195 | 65 |
| Average Queue (ft) | 131 | 91 | 25 |
| 95th Queue (ft) | 205 | 170 | 55 |
| Link Distance (ft) | 715 | 715 | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | | | 645 |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

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Intersection: 8: Walton Parkway/EMH&T Driveway & New Albany Road E

| Movement | EB | EB | EB | WB | WB | WB | NB | NB | SB | SB | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|--|
| Directions Served | L | Т | TR | L | T | TR | L | TR | L | TR | |
| Maximum Queue (ft) | 12 | 244 | 334 | 141 | 328 | 331 | 245 | 72 | 38 | 81 | |
| Average Queue (ft) | 1 | 59 | 168 | 23 | 184 | 198 | 143 | 24 | 4 | 28 | |
| 95th Queue (ft) | 6 | 159 | 276 | 85 | 297 | 309 | 234 | 58 | 21 | 62 | |
| Link Distance (ft) | | 519 | 519 | | 501 | 501 | | 418 | | 193 | |
| Upstream Blk Time (%) | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | |
| Storage Bay Dist (ft) | 105 | | | 140 | | | 265 | | 40 | | |
| Storage Blk Time (%) | | 0 | | 0 | 13 | | 0 | | 0 | 4 | |
| Queuing Penalty (veh) | | 0 | | 0 | 2 | | 0 | | 0 | 0 | |

Intersection: 12: New Albany-Condit Road & Walton Parkway

| Movement | EB | EB | WB | WB | NB | NB | SB | SB |
|-----------------------|-----|------|-----|-----|-----|-----|-----|-----|
| Directions Served | L | TR | L | TR | L | TR | L | TR |
| Maximum Queue (ft) | 110 | 224 | 119 | 239 | 113 | 267 | 169 | 216 |
| Average Queue (ft) | 32 | 98 | 34 | 97 | 31 | 110 | 69 | 100 |
| 95th Queue (ft) | 79 | 180 | 85 | 192 | 73 | 216 | 132 | 187 |
| Link Distance (ft) | | 1751 | | 696 | | 446 | | 635 |
| Upstream Blk Time (%) | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | |
| Storage Bay Dist (ft) | 95 | | 95 | | 120 | | 330 | |
| Storage Blk Time (%) | 0 | 14 | 1 | 11 | | 5 | | |
| Queuing Penalty (veh) | 0 | 6 | 1 | 4 | | 3 | | |

Intersection: 14: New Albany Road E & Site Access 1

| Movement | WB |
|-----------------------|-----|
| Directions Served | R |
| Maximum Queue (ft) | 35 |
| Average Queue (ft) | 6 |
| 95th Queue (ft) | 27 |
| Link Distance (ft) | 550 |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | |
| Storage Blk Time (%) | |
| Queuing Penalty (veh) | |

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Intersection: 16: Site Access 2/Discover Complex Access & Central College Road

| Movement | EB | EB | EB | WB | NB | SB | SB | SB |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | L | TR | L | LTR | L | TR | R |
| Maximum Queue (ft) | 5 | 24 | 8 | 47 | 87 | 58 | 62 | 34 |
| Average Queue (ft) | 0 | 3 | 0 | 10 | 37 | 24 | 28 | 3 |
| 95th Queue (ft) | 3 | 14 | 5 | 34 | 72 | 51 | 57 | 17 |
| Link Distance (ft) | | | 685 | | 246 | | 159 | |
| Upstream Blk Time (%) | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | |
| Storage Bay Dist (ft) | 355 | 355 | | 125 | | 135 | | 135 |
| Storage Blk Time (%) | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | |

Intersection: 19: New Albany-Condit Road & Site Access 3/Site Access 4

| Movement | EB | WB | NB | NB | SB |
|-----------------------|-----|-----|-----|-----|-----|
| Directions Served | LTR | LTR | L | TR | L |
| Maximum Queue (ft) | 81 | 39 | 60 | 129 | 34 |
| Average Queue (ft) | 33 | 12 | 16 | 11 | 5 |
| 95th Queue (ft) | 64 | 37 | 43 | 88 | 22 |
| Link Distance (ft) | 549 | 363 | | 457 | |
| Upstream Blk Time (%) | | | | | |
| Queuing Penalty (veh) | | | | | |
| Storage Bay Dist (ft) | | | 200 | | 225 |
| Storage Blk Time (%) | | | | 0 | |
| Queuing Penalty (veh) | | | | 0 | |

Intersection: 21: New Albany-Condit Road & Site Access 5/Snider Loop

| Movement | EB | WB | WB | NB | SB | |
|-----------------------|-----|-----|-----|-----|-----|--|
| Directions Served | LTR | L | TR | L | L | |
| Maximum Queue (ft) | 39 | 38 | 34 | 27 | 29 | |
| Average Queue (ft) | 8 | 12 | 7 | 2 | 4 | |
| 95th Queue (ft) | 31 | 36 | 28 | 14 | 19 | |
| Link Distance (ft) | 566 | 474 | 474 | | | |
| Upstream Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |
| Storage Bay Dist (ft) | | | | 225 | 200 | |
| Storage Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |

Network Summary

Network wide Queuing Penalty: 47

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| Movement | EB | EB | EB | WB | WB | WB | NB | NB | SB | SB | SB | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|--|
| Directions Served | L | Т | R | L | Τ | TR | L | TR | L | Т | R | |
| Maximum Queue (ft) | 74 | 170 | 93 | 119 | 181 | 171 | 195 | 296 | 89 | 282 | 48 | |
| Average Queue (ft) | 21 | 77 | 34 | 52 | 92 | 75 | 60 | 135 | 41 | 139 | 15 | |
| 95th Queue (ft) | 53 | 136 | 73 | 94 | 153 | 140 | 131 | 250 | 76 | 237 | 40 | |
| Link Distance (ft) | | 584 | 584 | | 788 | | | 1056 | | 338 | | |
| Upstream Blk Time (%) | | | | | | | | | | 0 | | |
| Queuing Penalty (veh) | | | | | | | | | | 0 | | |
| Storage Bay Dist (ft) | 355 | | | 310 | | 390 | 310 | | 330 | | 390 | |
| Storage Blk Time (%) | | | | | | | | 0 | | 0 | | |
| Queuing Penalty (veh) | | | | | | | | 0 | | 0 | | |

Intersection: 6: New Albany Road E & Central College Road

| Movement | EB | EB | EB | WB | WB | WB | WB | NB | NB | NB | NB | SB |
|-----------------------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | Т | TR | L | L | T | TR | L | T | T | R | L |
| Maximum Queue (ft) | 159 | 144 | 108 | 121 | 130 | 114 | 135 | 58 | 215 | 238 | 93 | 72 |
| Average Queue (ft) | 64 | 72 | 54 | 52 | 71 | 53 | 67 | 19 | 133 | 157 | 35 | 26 |
| 95th Queue (ft) | 121 | 120 | 96 | 100 | 118 | 97 | 119 | 47 | 206 | 227 | 70 | 60 |
| Link Distance (ft) | | 1314 | 1314 | | | 690 | 690 | 934 | 934 | 934 | 934 | |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 290 | | | 325 | 325 | | | | | | | 305 |
| Storage Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |

Intersection: 6: New Albany Road E & Central College Road

| Movement | SB | SB | SB |
|-----------------------|-----|-----|-----|
| Directions Served | T | T | R |
| Maximum Queue (ft) | 196 | 167 | 56 |
| Average Queue (ft) | 117 | 63 | 15 |
| 95th Queue (ft) | 183 | 138 | 43 |
| Link Distance (ft) | 715 | 715 | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | | | 645 |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

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| Movement | EB | EB | EB | WB | WB | WB | B25 | B25 | NB | NB | SB | SB |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|
| Directions Served | L | T | TR | L | T | TR | T | T | L | TR | L | TR |
| Maximum Queue (ft) | 125 | 434 | 519 | 164 | 443 | 422 | 26 | 10 | 126 | 82 | 8 | 27 |
| Average Queue (ft) | 21 | 128 | 267 | 109 | 153 | 140 | 1 | 1 | 59 | 25 | 0 | 2 |
| 95th Queue (ft) | 71 | 306 | 436 | 198 | 414 | 378 | 12 | 9 | 108 | 57 | 5 | 13 |
| Link Distance (ft) | | 519 | 519 | | 500 | 500 | 934 | 934 | | 418 | | 193 |
| Upstream Blk Time (%) | | 0 | 0 | | 2 | 0 | | | | | | |
| Queuing Penalty (veh) | | 0 | 0 | | 8 | 1 | | | | | | |
| Storage Bay Dist (ft) | 105 | | | 140 | | | | | 265 | | 40 | |
| Storage Blk Time (%) | 0 | 3 | | 45 | 0 | | | | | | | 0 |
| Queuing Penalty (veh) | 0 | 2 | | 130 | 0 | | | | | | | 0 |

Intersection: 12: New Albany-Condit Road & Walton Parkway

| Movement | EB | EB | WB | WB | NB | NB | SB | SB | |
|-----------------------|-----|------|----|-----|-----|-----|-----|-----|--|
| Directions Served | L | TR | L | TR | L | TR | L | TR | |
| Maximum Queue (ft) | 101 | 233 | 81 | 229 | 144 | 391 | 110 | 246 | |
| Average Queue (ft) | 10 | 111 | 22 | 97 | 86 | 109 | 55 | 129 | |
| 95th Queue (ft) | 53 | 190 | 63 | 181 | 150 | 261 | 97 | 227 | |
| Link Distance (ft) | | 1751 | | 696 | | 446 | | 635 | |
| Upstream Blk Time (%) | | | | | | 1 | | | |
| Queuing Penalty (veh) | | | | | | 0 | | | |
| Storage Bay Dist (ft) | 95 | | 95 | | 120 | | 330 | | |
| Storage Blk Time (%) | | 21 | | 11 | 7 | 3 | | | |
| Queuing Penalty (veh) | | 2 | | 3 | 33 | 5 | | | |

Intersection: 16: Central College Road & Discover Complex Access

| Movement | EB | EB | WB | SB | SB | SB |
|-----------------------|-----|-----|-----|-----|-----|-----|
| Directions Served | L | L | TR | L | R | R |
| Maximum Queue (ft) | 18 | 46 | 4 | 31 | 31 | 18 |
| Average Queue (ft) | 1 | 12 | 0 | 7 | 7 | 1 |
| 95th Queue (ft) | 11 | 39 | 3 | 27 | 27 | 9 |
| Link Distance (ft) | | | 584 | | 159 | 159 |
| Upstream Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |
| Storage Bay Dist (ft) | 355 | 355 | | 135 | | |
| Storage Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |

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Intersection: 21: New Albany-Condit Road & Snider Loop

| Movement | WB | SB |
|-----------------------|-----|------|
| Directions Served | LR | LT |
| Maximum Queue (ft) | 52 | 32 |
| Average Queue (ft) | 21 | 2 |
| 95th Queue (ft) | 48 | 17 |
| Link Distance (ft) | 474 | 1056 |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Network Summary

Network wide Queuing Penalty: 184

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| Movement | EB | EB | EB | WB | WB | WB | NB | NB | SB | SB | SB | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Directions Served | L | Т | R | L | Т | TR | L | TR | L | Т | R | |
| Maximum Queue (ft) | 94 | 188 | 99 | 136 | 194 | 164 | 197 | 325 | 110 | 286 | 52 | |
| Average Queue (ft) | 31 | 91 | 36 | 57 | 107 | 78 | 66 | 171 | 42 | 149 | 17 | |
| 95th Queue (ft) | 68 | 164 | 80 | 104 | 176 | 143 | 148 | 291 | 77 | 251 | 42 | |
| Link Distance (ft) | | 584 | 584 | | 788 | | | 526 | | 338 | | |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 355 | | | 310 | | 390 | 310 | | 330 | | 390 | |
| Storage Blk Time (%) | | | | | | | | 1 | | | | |
| Queuing Penalty (veh) | | | | | | | | 1 | | | | |

Intersection: 6: New Albany Road E & Central College Road

| Movement | EB | EB | EB | WB | WB | WB | WB | NB | NB | NB | NB | SB |
|-----------------------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | T | TR | L | L | T | TR | L | Т | T | R | L |
| Maximum Queue (ft) | 120 | 156 | 142 | 133 | 140 | 127 | 152 | 51 | 218 | 229 | 97 | 73 |
| Average Queue (ft) | 56 | 80 | 56 | 54 | 77 | 50 | 71 | 19 | 147 | 167 | 41 | 30 |
| 95th Queue (ft) | 104 | 131 | 113 | 104 | 123 | 97 | 119 | 46 | 215 | 228 | 80 | 63 |
| Link Distance (ft) | | 1314 | 1314 | | | 685 | 685 | 194 | 194 | 194 | 194 | |
| Upstream Blk Time (%) | | | | | | | | | 1 | 3 | | |
| Queuing Penalty (veh) | | | | | | | | | 4 | 8 | | |
| Storage Bay Dist (ft) | 290 | | | 325 | 325 | | | | | | | 305 |
| Storage Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |

Intersection: 6: New Albany Road E & Central College Road

| Movement | SB | SB | SB |
|-----------------------|-----|-----|-----|
| Directions Served | T | Τ | R |
| Maximum Queue (ft) | 208 | 178 | 46 |
| Average Queue (ft) | 119 | 67 | 12 |
| 95th Queue (ft) | 192 | 143 | 37 |
| Link Distance (ft) | 715 | 715 | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | | | 645 |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

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| Movement | EB | EB | EB | WB | WB | WB | B25 | NB | NB | SB | SB | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|--|
| Directions Served | L | Т | TR | L | Т | TR | T | L | TR | L | TR | |
| Maximum Queue (ft) | 106 | 464 | 540 | 157 | 358 | 337 | 13 | 144 | 90 | 12 | 22 | |
| Average Queue (ft) | 21 | 150 | 299 | 99 | 130 | 117 | 0 | 66 | 29 | 1 | 2 | |
| 95th Queue (ft) | 60 | 395 | 509 | 189 | 358 | 324 | 10 | 121 | 63 | 6 | 13 | |
| Link Distance (ft) | | 519 | 519 | | 501 | 501 | 693 | | 418 | | 193 | |
| Upstream Blk Time (%) | | 0 | 2 | | 1 | 0 | | | | | | |
| Queuing Penalty (veh) | | 0 | 0 | | 4 | 0 | | | | | | |
| Storage Bay Dist (ft) | 105 | | | 140 | | | | 265 | | 40 | | |
| Storage Blk Time (%) | 0 | 2 | | 39 | 0 | | | | | 0 | 0 | |
| Queuing Penalty (veh) | 0 | 1 | | 118 | 0 | | | | | 0 | 0 | |

Intersection: 12: New Albany-Condit Road & Walton Parkway

| Movement | EB | EB | WB | WB | NB | NB | SB | SB |
|-----------------------|----|------|----|-----|-----|-----|-----|-----|
| Directions Served | L | TR | L | TR | L | TR | L | TR |
| Maximum Queue (ft) | 65 | 198 | 92 | 233 | 145 | 450 | 179 | 343 |
| Average Queue (ft) | 9 | 108 | 23 | 122 | 108 | 182 | 62 | 154 |
| 95th Queue (ft) | 40 | 177 | 66 | 212 | 170 | 406 | 127 | 279 |
| Link Distance (ft) | | 1751 | | 696 | | 446 | | 635 |
| Upstream Blk Time (%) | | | | | | 4 | | |
| Queuing Penalty (veh) | | | | | | 0 | | |
| Storage Bay Dist (ft) | 95 | | 95 | | 120 | | 330 | |
| Storage Blk Time (%) | | 19 | 0 | 18 | 20 | 5 | | 0 |
| Queuing Penalty (veh) | | 2 | 0 | 4 | 96 | 9 | | 0 |

Intersection: 14: New Albany Road E & Site Access 1

| Movement | WB | NB | NB | B25 |
|-----------------------|-----|-----|-----|-----|
| Directions Served | R | T | T | T |
| Maximum Queue (ft) | 35 | 67 | 95 | 6 |
| Average Queue (ft) | 9 | 3 | 9 | 0 |
| 95th Queue (ft) | 32 | 27 | 48 | 5 |
| Link Distance (ft) | 550 | 693 | 693 | 501 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | | | | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

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Intersection: 16: Site Access 2/Discover Complex Access & Central College Road

| Movement | EB | EB | WB | WB | WB | NB | SB | SB | SB | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Directions Served | L | L | L | T | TR | LTR | L | TR | R | |
| Maximum Queue (ft) | 10 | 49 | 29 | 11 | 4 | 92 | 31 | 35 | 6 | |
| Average Queue (ft) | 1 | 12 | 6 | 0 | 0 | 45 | 7 | 10 | 1 | |
| 95th Queue (ft) | 8 | 35 | 23 | 6 | 3 | 81 | 27 | 34 | 7 | |
| Link Distance (ft) | | | | 584 | 584 | 246 | | 159 | | |
| Upstream Blk Time (%) | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | |
| Storage Bay Dist (ft) | 355 | 355 | 125 | | | | 135 | | 135 | |
| Storage Blk Time (%) | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | |

Intersection: 19: New Albany-Condit Road & Site Access 3/Site Access 4

| Movement | EB | WB | NB | SB |
|-----------------------|-----|-----|-----|-----|
| Directions Served | LTR | LTR | L | L |
| Maximum Queue (ft) | 92 | 35 | 44 | 30 |
| Average Queue (ft) | 39 | 13 | 14 | 4 |
| 95th Queue (ft) | 72 | 37 | 38 | 19 |
| Link Distance (ft) | 549 | 363 | | |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | | | 200 | 225 |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

Intersection: 21: New Albany-Condit Road & Site Access 5/Snider Loop

| Movement | EB | WB | WB | NB | SB | |
|-----------------------|-----|-----|-----|-----|-----|--|
| Directions Served | LTR | L | TR | L | L | |
| Maximum Queue (ft) | 45 | 42 | 29 | 27 | 11 | |
| Average Queue (ft) | 16 | 16 | 9 | 3 | 0 | |
| 95th Queue (ft) | 44 | 42 | 30 | 17 | 6 | |
| Link Distance (ft) | 566 | 474 | 474 | | | |
| Upstream Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |
| Storage Bay Dist (ft) | | | | 225 | 200 | |
| Storage Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |

Network Summary

Network wide Queuing Penalty: 249

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| Movement | EB | EB | EB | WB | WB | WB | NB | NB | SB | SB | SB | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|--|
| Directions Served | L | Т | R | L | Т | TR | L | TR | L | Т | R | |
| Maximum Queue (ft) | 66 | 285 | 102 | 82 | 184 | 151 | 334 | 744 | 91 | 258 | 55 | |
| Average Queue (ft) | 28 | 148 | 33 | 33 | 81 | 54 | 129 | 362 | 37 | 127 | 20 | |
| 95th Queue (ft) | 58 | 251 | 75 | 66 | 148 | 114 | 332 | 697 | 71 | 210 | 48 | |
| Link Distance (ft) | | 584 | 584 | | 788 | | | 1056 | | 338 | | |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 355 | | | 310 | | 390 | 310 | | 330 | | 390 | |
| Storage Blk Time (%) | | 0 | | | | | 0 | 16 | | | | |
| Queuing Penalty (veh) | | 0 | | | | | 0 | 25 | | | | |

Intersection: 6: New Albany Road E & Central College Road

| Movement | EB | EB | EB | WB | WB | WB | WB | NB | NB | NB | NB | SB |
|-----------------------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | T | TR | L | L | Т | TR | L | T | Т | R | L |
| Maximum Queue (ft) | 110 | 121 | 98 | 162 | 177 | 135 | 152 | 80 | 160 | 169 | 87 | 111 |
| Average Queue (ft) | 47 | 58 | 42 | 76 | 98 | 62 | 69 | 28 | 85 | 93 | 39 | 49 |
| 95th Queue (ft) | 91 | 105 | 82 | 135 | 147 | 108 | 128 | 64 | 143 | 148 | 73 | 90 |
| Link Distance (ft) | | 1314 | 1314 | | | 690 | 690 | 934 | 934 | 934 | 934 | |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 290 | | | 325 | 325 | | | | | | | 305 |
| Storage Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |

Intersection: 6: New Albany Road E & Central College Road

| Movement | SB | SB | SB |
|-----------------------|-----|-----|-----|
| Directions Served | Ţ | T | R |
| Maximum Queue (ft) | 258 | 204 | 74 |
| Average Queue (ft) | 148 | 104 | 25 |
| 95th Queue (ft) | 226 | 185 | 53 |
| Link Distance (ft) | 715 | 715 | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | | | 645 |
| Storage Blk Time (%) | 0 | | |
| Queuing Penalty (veh) | 0 | | |

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| Movement | EB | EB | EB | WB | WB | WB | NB | NB | SB | SB | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|--|
| Directions Served | L | Т | TR | L | Т | TR | L | TR | L | TR | |
| Maximum Queue (ft) | 13 | 238 | 301 | 164 | 359 | 383 | 274 | 69 | 50 | 78 | |
| Average Queue (ft) | 2 | 76 | 178 | 29 | 195 | 211 | 187 | 26 | 5 | 27 | |
| 95th Queue (ft) | 8 | 175 | 275 | 104 | 311 | 331 | 270 | 59 | 24 | 60 | |
| Link Distance (ft) | | 519 | 519 | | 500 | 500 | | 418 | | 193 | |
| Upstream Blk Time (%) | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | |
| Storage Bay Dist (ft) | 105 | | | 140 | | | 265 | | 40 | | |
| Storage Blk Time (%) | | 1 | | 0 | 18 | | 0 | | 0 | 3 | |
| Queuing Penalty (veh) | | 0 | | 0 | 4 | | 0 | | 0 | 0 | |

Intersection: 12: New Albany-Condit Road & Walton Parkway

| Movement | EB | EB | WB | WB | NB | NB | SB | SB |
|-----------------------|-----|------|-----|-----|-----|-----|-----|-----|
| Directions Served | L | TR | L | TR | L | TR | L | TR |
| Maximum Queue (ft) | 119 | 272 | 120 | 271 | 144 | 277 | 193 | 241 |
| Average Queue (ft) | 46 | 113 | 42 | 112 | 48 | 134 | 82 | 112 |
| 95th Queue (ft) | 100 | 214 | 96 | 196 | 106 | 241 | 157 | 211 |
| Link Distance (ft) | | 1751 | | 696 | | 446 | | 635 |
| Upstream Blk Time (%) | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | |
| Storage Bay Dist (ft) | 95 | | 95 | | 120 | | 330 | |
| Storage Blk Time (%) | 1 | 16 | 1 | 14 | 0 | 8 | | |
| Queuing Penalty (veh) | 4 | 9 | 1 | 7 | 0 | 6 | | |

Intersection: 16: Central College Road & Discover Complex Access

| Movement | EB | EB | SB | SB | SB | |
|-----------------------|-----|-----|-----|-----|-----|--|
| Directions Served | L | L | L | R | R | |
| Maximum Queue (ft) | 6 | 31 | 56 | 55 | 35 | |
| Average Queue (ft) | 0 | 5 | 25 | 23 | 3 | |
| 95th Queue (ft) | 4 | 22 | 54 | 52 | 20 | |
| Link Distance (ft) | | | | 159 | 159 | |
| Upstream Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |
| Storage Bay Dist (ft) | 355 | 355 | 135 | | | |
| Storage Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |

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Intersection: 21: New Albany-Condit Road & Snider Loop

| Movement | WB | SB |
|-----------------------|-----|------|
| Directions Served | LR | LT |
| Maximum Queue (ft) | 51 | 134 |
| Average Queue (ft) | 16 | 18 |
| 95th Queue (ft) | 41 | 78 |
| Link Distance (ft) | 474 | 1056 |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Network Summary

Network wide Queuing Penalty: 56

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| Movement | EB | EB | EB | WB | WB | WB | NB | NB | SB | SB | SB |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | Т | R | L | T | TR | L | TR | L | T | R |
| Maximum Queue (ft) | 146 | 323 | 94 | 86 | 166 | 134 | 335 | 543 | 129 | 258 | 61 |
| Average Queue (ft) | 32 | 151 | 33 | 42 | 86 | 50 | 179 | 399 | 40 | 142 | 20 |
| 95th Queue (ft) | 92 | 257 | 72 | 79 | 143 | 101 | 404 | 633 | 90 | 241 | 46 |
| Link Distance (ft) | | 584 | 584 | | 788 | | | 526 | | 338 | |
| Upstream Blk Time (%) | | | | | | | | 10 | | 0 | |
| Queuing Penalty (veh) | | | | | | | | 77 | | 0 | |
| Storage Bay Dist (ft) | 355 | | | 310 | | 390 | 310 | | 330 | | 390 |
| Storage Blk Time (%) | | 0 | | | | | 0 | 29 | | 0 | |
| Queuing Penalty (veh) | | 0 | | | | | 2 | 45 | | 0 | |

Intersection: 6: New Albany Road E & Central College Road

| Movement | EB | EB | EB | WB | WB | WB | WB | NB | NB | NB | NB | SB |
|-----------------------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | T | TR | L | L | T | TR | L | T | T | R | L |
| Maximum Queue (ft) | 94 | 137 | 113 | 155 | 168 | 126 | 138 | 84 | 148 | 167 | 104 | 104 |
| Average Queue (ft) | 41 | 65 | 41 | 73 | 95 | 58 | 65 | 30 | 81 | 94 | 43 | 50 |
| 95th Queue (ft) | 77 | 113 | 88 | 131 | 150 | 102 | 114 | 64 | 128 | 149 | 86 | 87 |
| Link Distance (ft) | | 1314 | 1314 | | | 685 | 685 | 194 | 194 | 194 | 194 | |
| Upstream Blk Time (%) | | | | | | | | | | 0 | | |
| Queuing Penalty (veh) | | | | | | | | | | 0 | | |
| Storage Bay Dist (ft) | 290 | | | 325 | 325 | | | | | | | 305 |
| Storage Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |

Intersection: 6: New Albany Road E & Central College Road

| Movement | SB | SB | SB |
|-----------------------|-----|-----|-----|
| Directions Served | T | Т | R |
| Maximum Queue (ft) | 236 | 200 | 74 |
| Average Queue (ft) | 148 | 107 | 28 |
| 95th Queue (ft) | 228 | 187 | 57 |
| Link Distance (ft) | 715 | 715 | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | | | 645 |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

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| Movement | EB | EB | EB | WB | WB | WB | NB | NB | SB | SB | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|--|
| Directions Served | L | T | TR | L | Т | TR | L | TR | L | TR | |
| Maximum Queue (ft) | 13 | 276 | 363 | 164 | 305 | 319 | 269 | 122 | 29 | 73 | |
| Average Queue (ft) | 1 | 89 | 189 | 29 | 197 | 214 | 187 | 23 | 3 | 24 | |
| 95th Queue (ft) | 8 | 202 | 311 | 102 | 292 | 308 | 274 | 78 | 16 | 59 | |
| Link Distance (ft) | | 519 | 519 | | 501 | 501 | | 418 | | 193 | |
| Upstream Blk Time (%) | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | |
| Storage Bay Dist (ft) | 105 | | | 140 | | | 265 | | 40 | | |
| Storage Blk Time (%) | | 1 | | | 18 | | 1 | | 0 | 3 | |
| Queuing Penalty (veh) | | 0 | | | 4 | | 0 | | 0 | 0 | |

Intersection: 12: New Albany-Condit Road & Walton Parkway

| Movement | EB | EB | WB | WB | NB | NB | SB | SB |
|-----------------------|-----|------|-----|-----|-----|-----|-----|-----|
| Directions Served | L | TR | L | TR | L | TR | L | TR |
| Maximum Queue (ft) | 120 | 327 | 119 | 247 | 129 | 306 | 195 | 239 |
| Average Queue (ft) | 48 | 126 | 45 | 116 | 45 | 149 | 86 | 118 |
| 95th Queue (ft) | 106 | 249 | 99 | 211 | 107 | 262 | 158 | 211 |
| Link Distance (ft) | | 1751 | | 696 | | 446 | | 635 |
| Upstream Blk Time (%) | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | |
| Storage Bay Dist (ft) | 95 | | 95 | | 120 | | 330 | |
| Storage Blk Time (%) | 3 | 18 | 2 | 17 | 0 | 10 | | |
| Queuing Penalty (veh) | 10 | 11 | 6 | 8 | 1 | 8 | | |

Intersection: 14: New Albany Road E & Site Access 1

| Movement | WB |
|-----------------------|-----|
| Directions Served | R |
| Maximum Queue (ft) | 35 |
| Average Queue (ft) | 6 |
| 95th Queue (ft) | 26 |
| Link Distance (ft) | 550 |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | |
| Storage Blk Time (%) | |
| Queuing Penalty (veh) | |

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Intersection: 16: Site Access 2/Discover Complex Access & Central College Road

| Movement | EB | EB | WB | NB | SB | SB | SB |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | TR | L | LTR | L | TR | R |
| Maximum Queue (ft) | 19 | 7 | 43 | 96 | 65 | 62 | 33 |
| Average Queue (ft) | 1 | 0 | 11 | 36 | 25 | 28 | 2 |
| 95th Queue (ft) | 10 | 3 | 35 | 75 | 57 | 57 | 16 |
| Link Distance (ft) | | 685 | | 246 | | 159 | |
| Upstream Blk Time (%) | | | | | | | |
| Queuing Penalty (veh) | | | | | | | |
| Storage Bay Dist (ft) | 355 | | 125 | | 135 | | 135 |
| Storage Blk Time (%) | | | | | | | |
| Queuing Penalty (veh) | | | | | | | |

Intersection: 19: New Albany-Condit Road & Site Access 3/Site Access 4

| Movement | EB | WB | NB | NB | SB | SB |
|-----------------------|-----|-----|-----|-----|-----|-----|
| Directions Served | LTR | LTR | L | TR | L | TR |
| Maximum Queue (ft) | 255 | 43 | 155 | 305 | 39 | 4 |
| Average Queue (ft) | 102 | 13 | 28 | 101 | 8 | 0 |
| 95th Queue (ft) | 315 | 39 | 117 | 362 | 30 | 3 |
| Link Distance (ft) | 549 | 363 | | 457 | | 526 |
| Upstream Blk Time (%) | 0 | | | 2 | | |
| Queuing Penalty (veh) | 0 | | | 17 | | |
| Storage Bay Dist (ft) | | | 200 | | 225 | |
| Storage Blk Time (%) | | | 0 | 10 | | |
| Queuing Penalty (veh) | | | 0 | 4 | | |

Intersection: 21: New Albany-Condit Road & Site Access 5/Snider Loop

| Movement | EB | WB | WB | NB | NB | SB |
|-----------------------|-----|-----|-----|-----|-----|-----|
| Directions Served | LTR | L | TR | L | TR | L |
| Maximum Queue (ft) | 35 | 60 | 38 | 22 | 178 | 34 |
| Average Queue (ft) | 8 | 12 | 6 | 3 | 49 | 9 |
| 95th Queue (ft) | 30 | 41 | 26 | 18 | 308 | 31 |
| Link Distance (ft) | 566 | 474 | 474 | | 635 | |
| Upstream Blk Time (%) | | | | | 1 | |
| Queuing Penalty (veh) | | | | | 4 | |
| Storage Bay Dist (ft) | | | | 225 | | 200 |
| Storage Blk Time (%) | | | | | 5 | |
| Queuing Penalty (veh) | | | | | 0 | |

Network Summary

Network wide Queuing Penalty: 198

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With Improvements

| Movement | EB | EB | EB | WB | WB | WB | NB | NB | NB | SB | SB | SB |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|
| Directions Served | L | Т | R | L | Т | TR | L | T | R | L | T | R |
| Maximum Queue (ft) | 65 | 144 | 102 | 103 | 201 | 167 | 183 | 317 | 106 | 134 | 266 | 48 |
| Average Queue (ft) | 23 | 74 | 39 | 42 | 87 | 64 | 61 | 133 | 11 | 42 | 131 | 15 |
| 95th Queue (ft) | 54 | 137 | 83 | 81 | 160 | 131 | 135 | 255 | 62 | 109 | 226 | 40 |
| Link Distance (ft) | | 584 | 584 | | 775 | | | 1057 | | | 338 | |
| Upstream Blk Time (%) | | | | | | | | | | 0 | 0 | |
| Queuing Penalty (veh) | | | | | | | | | | 0 | 0 | |
| Storage Bay Dist (ft) | 355 | | | 310 | | 390 | 310 | | 320 | 330 | | 390 |
| Storage Blk Time (%) | | | | | | | | 1 | | 0 | 0 | |
| Queuing Penalty (veh) | | | | | | | | 1 | | 0 | 0 | |

| Movement | EB | EB | EB | WB | WB | WB | NB | NB | NB | SB | SB | SB |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | T | R | L | Ţ | TR | L | Ţ | R | L | T | R |
| Maximum Queue (ft) | 92 | 191 | 103 | 119 | 207 | 165 | 170 | 295 | 112 | 90 | 276 | 53 |
| Average Queue (ft) | 32 | 90 | 37 | 51 | 105 | 74 | 60 | 142 | 15 | 40 | 135 | 17 |
| 95th Queue (ft) | 70 | 159 | 80 | 95 | 172 | 145 | 123 | 253 | 66 | 78 | 228 | 44 |
| Link Distance (ft) | | 584 | 584 | | 775 | | | 526 | | | 338 | |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 355 | | | 310 | | 390 | 310 | | 320 | 330 | | 390 |
| Storage Blk Time (%) | | | | | | | | 0 | | | | |
| Queuing Penalty (veh) | | | | | | | | 1 | | | | |

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| Movement | EB | EB | EB | WB | WB | WB | NB | NB | NB | SB | SB | SB |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|
| Directions Served | L | T | R | L | Т | TR | L | T | R | L | Т | R |
| Maximum Queue (ft) | 70 | 271 | 91 | 68 | 160 | 130 | 298 | 443 | 287 | 76 | 269 | 54 |
| Average Queue (ft) | 26 | 141 | 31 | 29 | 72 | 39 | 83 | 220 | 36 | 35 | 129 | 18 |
| 95th Queue (ft) | 58 | 245 | 69 | 64 | 133 | 88 | 207 | 376 | 146 | 63 | 216 | 44 |
| Link Distance (ft) | | 584 | 584 | | 775 | | | 1057 | | | 338 | |
| Upstream Blk Time (%) | | | | | | | | | | | 0 | |
| Queuing Penalty (veh) | | | | | | | | | | | 0 | |
| Storage Bay Dist (ft) | 355 | | | 310 | | 390 | 310 | | 320 | 330 | | 390 |
| Storage Blk Time (%) | | | | | | | 0 | 2 | 0 | | 0 | |
| Queuing Penalty (veh) | | | | | | | 0 | 5 | 0 | | 0 | |

| Movement | EB | EB | EB | WB | WB | WB | NB | NB | NB | SB | SB | SB |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | T | R | L | T | TR | L | T | R | L | T | R |
| Maximum Queue (ft) | 88 | 288 | 95 | 104 | 168 | 133 | 254 | 402 | 190 | 77 | 236 | 60 |
| Average Queue (ft) | 33 | 157 | 32 | 37 | 82 | 41 | 77 | 211 | 44 | 35 | 130 | 23 |
| 95th Queue (ft) | 67 | 258 | 69 | 75 | 143 | 94 | 195 | 370 | 162 | 67 | 214 | 50 |
| Link Distance (ft) | | 584 | 584 | | 775 | | | 526 | | | 338 | |
| Upstream Blk Time (%) | | | | | | | | 0 | | | | |
| Queuing Penalty (veh) | | | | | | | | 2 | | | | |
| Storage Bay Dist (ft) | 355 | | | 310 | | 390 | 310 | | 320 | 330 | | 390 |
| Storage Blk Time (%) | | 0 | | | | | | 3 | 0 | | | |
| Queuing Penalty (veh) | | 0 | | | | | | 8 | 0 | | | |

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Appendix HField Observation Notes



| 7:20-8:00 AM Observation | Snider Loop Olos | 5/27(20 |
|--|--|---------------------------------|
| 12ainy + Wet | | Lieva yates |
| Pedestrions: I kid on bite, I hid on k | aike on Street, bike kid on road then sidewalk | |
| Dage of Velectors: Along Hot back Dage | Similarly to a fleet doffi | |
| (beca of Vehicles: None that backed up | The state of the s | |
| Wait time @ Snider: 12 sec, 2 sec, 30 sec, 2 sec, 27 sec | 10 sec, 6 sec, 13 sec (right), 15 sec, 4 sec, 2 | Sec 1, 3 sec 1, 2 (sec, 9 sec |
| Signit distance band, seepictures | | |
| Between 7:30 -8:00, plant of time definitely t | efor left turns, no quewing back to Snider, My Hilliting Snider as 2-tane | platours Seem to occur fogether |
| 2:00-3:00 PM Observation | n -, kid bih sidwolk, I mon on bik onsideri | |
| Tedestrions: Kidon bute on Sidewalk | -, kid bih Sidwolk, I Mon on bik onsiden | Dalk |
| Quene: longot grun hal 5 vel | | |
| Wait time @ Snider: 3 sec | , Socilinto), Dosc, Wee, Sec, Sec, Per | ٤, |
| CUG: I which the immediately let | + (20 Sec) looks like it had to two tudeienzy north | of CUG |
| 2:30 fleetof boxes arrive 2:40 garbage touch goes t | hrage courty some 8102 down | |
| Of note: 2 uses of U turns int | a enthropy of Snider. | |
| | | |
| | | |
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