VILLAGE OF DOWNERS GROVE Report for the Village 2/13/2024

SUBJECT:	SUBMITTED BY:
Planned Unit Development #31 Amendment for the construction of a new multi-family residential development	Stan Popovich, AICP Director of Community Development

SYNOPSIS

The petitioner is proposing to build a new multi-family residential development and is requesting approval of the following:

- Planned Unit Development amendment to Planned Unit Development #31, Esplanade at Locust Point
- Final Plat of Subdivision

STRATEGIC PLAN ALIGNMENT

The goals for 2023-2025 include Strong and Diverse Local Economy.

FISCAL IMPACT

N/A

RECOMMENDATION

Approval on the February 20, 2024 Active Agenda per the Plan Commission's unanimous (7-0) recommendation. The Plan Commission found that the proposal is an appropriate use in the Planned Unit Development, is compatible with the Comprehensive Plan, meets the standards for a Planned Unit Development amendment and complies with the Subdivision standards, respectively, in Sections 28.12.040.C.5 and 20.301.

BACKGROUND

Property Information & Zoning Request

The petitioner is proposing to construct a new multi-family residential development at the northwest intersection of Lacey Road and Woodcreek Drive. The multi-family residential development will be located on a new 9.23 acre lot within the Esplanade at Locust Point development. The property is zoned O-R-M/P.U.D., Office-Research-Manufacturing/ Planned Unit Development #31. The petitioner is requesting:

- A Planned Unit Development Amendment to permit the construction of a multi-family residential development.
- A Plat of Subdivision to create two lots of record; and

Development History

PUD #31 was approved in 1990 with a master site development plan and has been amended multiple times to allow for different building layouts, developments and uses. Most recently in 2022 the PUD was amended to

add multi-family residential as an approved allowed use within PUD #31. Currently, the PUD includes approximately 2.1 million square feet of office space, a hotel, a restaurant, a university and a day care center.

The multi-family residential development proposal consists of three, four-story buildings. Each building will be composed of 99 units for a total of 297 apartments. The amenities included with the 8,000 square foot club house are: a swimming pool, sundecks, open spaces, dog walking areas, meeting spaces, a full-service fitness center and work spaces. The three residential buildings will include a total of 195 parking spaces and bike storage within the interior parking levels. Additionally, a total of 295 parking spaces will be provided via the exterior surface parking lots. The petitioner is requesting a deviation from the required 594 parking spaces, considering the development only provides a total 490 parking spaces. New access points will be provided to the new development further described below.

Lastly, the petitioner is requesting to subdivide the subject property into two lots of record. The second lot, north of where the multi-family development will be located, is planned for a future office building and parking deck. The petitioner will be required to finalize the proposed development plans for the future office buildings in detail, including all engineering related items such as stormwater management, and to request approval of a PUD Amendment.

Compliance with the Comprehensive Plan

The Future Land Use Plan designates the site as Office Corporate Campus. Moreover, the Comprehensive Plan identifies the future land use of the Esplanade as a continuing commercial development. However, as previously noted, in 2022 the Plan Commission and Village Council found that multi-family residential is an appropriate use in the Planned Unit Development and deemed it compatible with the Comprehensive Plan.

The Butterfield Focus Area Plan calls for:

• Development and redevelopment should be focused on attracting a regional customer base as well as providing services, retail, and entertainment to the substantial daytime population.

The remaining vacant property within PUD #31 has been identified in The Comprehensive Plan as Catalyst Site # C1. The Plan identifies the following key features of Catalyst Site #C1:

• Previously approved as part of a Planned Unit Development, these sites have not yet developed. With excellent visibility and access, these parcels could accommodate additional office development, restaurants or retail. The northern vacant lot is still planned for an office development.

The Comprehensive Plan further states that new multi-family residential areas should:

- Maintain a setback, height, bulk, and orientation similar to that of neighboring developments.
- Provide for a variety of housing and dwelling unit types and densities, generally organized by dwelling types, lot-sizes, etc.
- Be located near significant activity centers and along major roadways as well as a component of mixed-use development within Downtown Downers Grove. The zoning ordinance should be revised to allow for additional multi-family development as identified in the Land Use Plan and subarea plans.

The Comprehensive Plan also notes the following:

• Reinvestment should occur in the Finley Road/Butterfield Road area to improve the aesthetics and function of regional commercial uses.

Compliance with the Zoning Ordinance

The property is zoned O-R-M/PUD, Office-Research-Manufacturing/ Planned Unit Development #31. The proposal includes a request for a Planned Unit Development Amendment to allow for the construction of a

new multi-family residential development, which is a permitted use in the PUD #31. As noted in Table 1 in the Plan Commission staff report, the proposed development will have 490 parking spaces, where the required is 594. All other Zoning Ordinance requirements are met.

Compliance with the Subdivision Ordinance

The petitioner is proposing to subdivide one existing lot of record into two lots of record. The southern lot is the proposed location for the residential development. The northern lot will remain vacant, but is planned for an office building and parking deck in the future. The final plat of subdivision is in compliance with the minimum lot dimension requirements as outlined in Section 20.301 of the Village's Subdivision Ordinance. The petitioner is providing the required five-foot wide public utility and drainage easements along the interior yard lot lines and the ten-foot wide public utility and drainage easements along the rear lot lines for Lot 1 and 2.

Engineering and Public Improvements

The proposed multi-family residential development will be located on the proposed subdivided Lot 1. The overall Esplanade campus drains in a westerly direction and the stormwater detention for the entire development was designed in a series of lakes. The proposed development does require additional stormwater detention. The required detention volume will be provided by modifying three existing ponds to gain additional volume. Modifications will include: raising the high water level elevation, minor re-grading, overflow weir adjustments, and adjustments to the outfall restrictor pipe. Based on the existing impervious area on the site and the proposed impervious area, the proposed development requires Post Construction Best Management Practices (PCBMPs). This additional volume will be provided in three basins: two basins will be located within large parking lot islands in the multi-family residential development and a third basin will be located immediately west of Building #3. Lastly, the proposed development will provide access via a right-in/right-out access drive on Lacey Road and via two full-movement access drives on Woodcreek Drive.

Traffic and Parking

A traffic impact study for the proposed development was completed by the petitioner. The study examined the existing and future traffic conditions based on the proposed development. The proposed development is projected to generate primarily outbound traffic during the weekday morning and inbound traffic during the weekday evening. This direction of traffic is the opposite of other area developments, which are primarily office and industrial. The area roadway system was found to have sufficient reserve capacity to accommodate the traffic.

As noted above, the development will provide 490 residential parking spaces where 594 are required. As such, the proposed development will provide parking at a ratio of 1.65 spaces per residential unit; where the required parking ratio per the Zoning Ordinance is 2 spaces per dwelling unit. The petitioner's rationale for the relief request has found that the provided parking will be adequate based on similar rental communities that they have constructed, which is further reinforced by their traffic impact study. Based on the rates published in the *Institute of Transportation Engineers' (ITE)* 5th Edition of the Parking Generational Manual, the proposed development should provide a total of 389 parking spaces (parking ratio of 1.31 spaces per dwelling unit) to accommodate the peak parking demand (Monday-Friday).

Public Comment

Prior to the Plan Commission meeting staff received the attached correspondence from the DuPage County Forest Preserve. During the Plan Commission meeting, two members of the public provided input. Public comments included concern over the reduced number of parking spaces, the proposed design of the buildings and clarification if additional traffic lights were needed because of the development. The petitioner noted that the traffic and parking study identified that there was sufficient parking provided for the development and that no additional traffic lights would be required. The petitioner further stated that the architecture design incorporated elements of other Esplanade buildings in the PUD.

ATTACHMENTS

Aerial Map Ordinance Staff Report with attachments dated January 22, 2024 Draft Minutes of the Plan Commission Hearing dated January 22, 2024 Public Correspondence ORD 2024-10276

<u>Page 5 of 20</u>3



PUD #31 - Amendment 23-PLC-0009

ORDINANCE NO.

AN ORDINANCE APPROVING AN AMENDMENT TO PLANNED UNIT DEVELOPMENT #31 <u>TO CONSTRUCT A NEW MULTI-FAMILY RESIDENTIAL DEVELOPMENT</u>

WHEREAS, the Village Council has previously adopted Ordinance No. 3302, on April 30, 1990, designating the property described therein as Planned Unit Development #31 and subsequent amendments thereto; and,

WHEREAS, the Village Council has previously adopted Ordinance No. 4314 on July 17, 2001 and Ordinance No. 5729, on November 20, 2018 approving amendments to Planned Unit Development #31 to allow construction of certain restaurants at 1801 Butterfield Road; and,

WHEREAS, the Village Council has previously adopted Ordinance No. 5943 on October 4, 2022 approving amendments to Planned Unit Development #31 to add multi-family residential as an allowed use; and,

WHEREAS, the Owners have filed a written petition with the Village conforming to the requirements of the Zoning Ordinance and requesting an amendment to Planned Unit Development #31 to construct a new multi-family residential development; and,

WHEREAS, such request was referred to the Plan Commission of the Village of Downers Grove, and the Plan Commission has given the required public notice, conducted a public hearing for the petition on January 22, 2024, and has made its findings and recommendations, all in accordance with the statutes of the State of Illinois and the ordinances of the Village of Downers Grove; and,

WHEREAS, the Plan Commission has recommended approval of the requested petition, subject to certain conditions; and,

WHEREAS, the Village Council has considered the record before the Plan Commission, as well as the recommendations of Plan Commission.

NOW, THEREFORE, BE IT ORDAINED by the Council of the Village of Downers Grove, DuPage County, Illinois, as follows:

<u>SECTION 1</u>. That the provisions of the preamble are incorporated into and made a part of this ordinance as if fully set forth herein.

<u>SECTION 2</u>. That a Planned Unit Development Amendment is hereby adopted authorizing the construction of a new multi-family residential development.

<u>SECTION 3.</u> That approval set forth in Section 2 of this ordinance is subject to the findings and recommendations of the Downers Grove Plan Commission regarding File 23-PCE-0009 as set forth in the minutes of their January 22, 2024 meeting.

<u>SECTION 4.</u> That the multi-family residential allowed use is consistent with and complementary to the overall planned unit development site plan and with the requirements of the "*O-R-M/PUD #31*, *Office-Research-Manufacturing/Planned Unit Development #31*" zoning district.

<u>SECTION 5</u>. That all ordinances or parts of ordinances in conflict with the provisions of this ordinance are hereby repealed.

<u>SECTION 6</u>. That this ordinance shall be in full force and effect from and after its passage and publication in pamphlet form as provided by law.

Mayor

Passed: Published: Attest:

Village Clerk

1\mw\ord.24\PUD#31-AMD-3201 Woodcreek-23 PCE-0009



VILLAGE OF DOWNERS GROVE REPORT FOR THE PLAN COMMISSION JANUARY 22, 2024 AGENDA

SUBJECT:	Түре:	SUBMITTED BY:		
23-PCE-0009 3201, 3211, 3221 and 3231 Woodcreek Drive	PUD Amendment and Final Plat of Subdivision	Flora P. León, AICP Senior Planner		

REQUEST

The petitioner is requesting approval of a Final Plat of Subdivision and a Planned Unit Development amendment to Planned Unit Development #31, Esplanade at Locust Point to build a new multi-family residential development.

NOTICE

The application has been filed in conformance with applicable procedural and public notice requirements.

GENERAL INFORMATION

APPLICANT:	M&R Development, L.L.C. 555 W. Pierce Road, Suite 180 Itasca, IL 60143	
Owners:	HP/AG Esplanade at Locust Point Land 1901 Butterfield Road Downers Grove, IL 60515	Limited Partnership
	Coopers Hawk 3500 Lacey Suite 1000 Downers Grove, IL 60515	Hamilton Partners 1901 Butterfield Road, Suite 270 Downers Grove, IL 60515
	Hamilton Partners, Inc. PO Box 3664 Oak Brook, IL 60522	Hamilton Partners 300 Park Boulevard, Suite 201 Itasca, IL 60143
	DG Hotels, LLC 2111 Butterfield Road Downers Grove, IL 60515	Esplanade I Spe, LLC 300 Park Boulevard, Suite 201 Itasca, IL 60143-3106
	AM Society GI Endoscopy 3300 Woodcreek Drive Downers Grove, IL 60515	AG Products Company 1901 Butterfield Road, Suite 330 Downers Grove, IL 60515
	Midwestern University 444 31 st Street Downers Grove, IL 60515	KORE 3500 Lacey Owner, LLC 6500 Quebec Street, Suite 300 Grennwood Village, CO 80111

PROPERTY INFORMATION

EXISTING ZONING:	O-R-M/P.D. #31, Office-Research-Manufacturing	g/ Planned Development #31
EXISTING LAND USE:	Business Park	-
PROPERTY SIZE:	102 Acres of Land	
PINS:	05-25-413-009; 05-25-415-009, -010; 05-36-200-	009, -011; 05-36-202-008, -
	015, -016, -017; 05-36-400-017; 06-30-301-007;	06-30-304-002, -003; 06-30-
	305-003; 06-31-100-019, -020, -021, -022, -023, -	-025, -027, -028, -029; 06-31-
	103-001, -002, -005, -006, -007	
SURROUNDING ZONING	g and Land Uses	
	ZONING	FUTURE LAND USE
East:	Tollway Right-of-Way	N/A
WEST:	O-R-M, Office-Research-Manufacturing/PD #20	Office Corporate Campus
	R-1, Residential Detached House 1	Park and Open Space
North:	B-3, General Services and Highway Business	Regional Commercial
	B-1, Local Business (DuPage County)	DuPage County

ANALYSIS

SUBMITTALS

SOUTH:

This report is based on the following documents, which are on file with the Department of Community Development:

O-R-M, Office-Research-Manufacturing

- 1. Project Narrative
- 2. Approval Criteria
- 3. Plat of Survey
- 4. Site Plan
- 5. Engineering Plans
- 6. Landscape Plans
- 7. Elevations
- 8. Sign Package
- 9. Plat of Subdivision
- 10. Traffic Impact Study

PROJECT DESCRIPTION

The petitioner is proposing to construct a new multi-family residential development at the northwest intersection of Lacey Road and Woodcreek Drive. The multi-family residential development will be located on a new 9.23 acre lot within the Esplanade at Locust Point. The property is zoned O-R-M/P.U.D. #31, Office-Research-Manufacturing/ Planned Unit Development #31. The petitioner is requesting:

- A Plat of Subdivision to create two lots of record; and
- A Planned Unit Development Amendment to permit the construction of a multi-family residential development.

Currently, the PUD includes approximately 2.1 million square feet of office space including office buildings at 1902 and 2001 Butterfield Road, as well as 3250 and 3450 Lacey Road. The PUD also includes the Double Tree Guest Suites Hotel, Cooper's Hawk Restaurant, Midwestern University and a daycare center.

Page 2

Office Corporate Campus

Page 3

PUD #31 was approved in 1990 with a master site development plan that identified a variety of office buildings, open space, transportation and roadway improvements. The PUD was amended multiple times since 1990 to allow for different building layouts, developments and uses.

Most recently in 2022 the PUD was amended to add *multi-family residential* as an approved allowed use within PUD #31. While, the approved Master Plan for this Planned Development did not originally anticipate a housing component, longer term market factors led the owner to consider housing on part of the overall site. During this review, preliminary site plans and renderings for a potential multifamily project were provided. However, the PUD approval at that time noted that the petitioner would be required to finalize the proposed development plans in detail, including all engineering related items such as stormwater management, and to request approval of a PUD Amendment and a Plat of Subdivision.

Currently, the multi-family residential development proposal consists of three, four-story buildings. Each building will be composed of 99-units for a total of 297 apartments. The apartments are a mix of studios, one-, and two-bedroom units. The proposed buildings will be primarily clad with masonry, fiber cement panels, architectural metal cladding, and vinyl hung windows. Depending on location, the units will include one of the following options a: patio, balcony, or Juliet balcony. The first three levels include the use of masonry veneers while the fourth level utilizes a fiber cement panel system found throughout the façade. The lobby and office components of all three residential buildings face the interior of the site. Architectural metal awnings and aluminum storefront doors are used to identify each building's main entrance. A fourth building will be programmed as a clubhouse with a main entrance facing Lacey Road. The amenities included with the 8,000 square foot club house are: a swimming pool, sundecks, open spaces, dog walking areas, meeting spaces, a full-service fitness center and work spaces.

Each apartment building includes a parking level that will be partially below grade based on each buildings site topography. Access to the parking level will be via garage door. The three residential buildings will include a total of 195 parking spaces and bike storage within the interior parking levels. Additionally, a total of 295 parking spaces will be provided via the exterior surface parking lots. The petitioner is requesting a deviation from the required 594 parking spaces, considering the development only provides a total 490 parking spaces. New access points will be provided to the new development further described below.

Lastly, the petitioner is requesting to subdivide the subject property into two lots of record. The second lot, north of where the multi-family development will be located, is planned for a future office building and parking deck. The petitioner will be required to finalize the proposed development plans for the future office buildings in detail, including all engineering related items such as stormwater management, and to request approval of a PUD Amendment.

COMPLIANCE WITH THE COMPREHENSIVE PLAN

The Future Land Use Plan designates the site as Office Corporate Campus. Moreover, the Comprehensive Plan identifies the future land use of the Esplanade as a continuing commercial development. However, as previously noted, in 2022 the Plan Commission and Village Council found that multi-family residential is an appropriate use in the Planned Unit Development and deemed it compatible with the Comprehensive Plan.

The Butterfield Focus Area Plan calls for:

• Development and redevelopment should be focused on attracting a regional customer base as well as providing services, retail, and entertainment to the substantial daytime population.

The remaining vacant property within PUD #31 has been identified in The Comprehensive Plan as Catalyst

Site # C1. The Plan identifies the following key features of Catalyst Site #C1:

• Previously approved as part of a Planned Unit Development, these sites have not yet developed. With excellent visibility and access, these parcels could accommodate additional office development, restaurants or retail. The northern vacant lot is still planned for an office development.

The Comprehensive Plan further states that new multi-family residential areas should:

- Maintain a setback, height, bulk, and orientation similar to that of neighboring developments.
- Provide for a variety of housing and dwelling unit types and densities, generally organized by dwelling types, lot-sizes, etc.
- Be located near significant activity centers and along major roadways as well as a component of mixed-use development within Downtown Downers Grove. The zoning ordinance should be revised to allow for additional multi-family development as identified in the Land Use Plan and subarea plans.

The Comprehensive Plan also notes the following:

• Reinvestment should occur in the Finley Road/Butterfield Road area to improve the aesthetics and function of regional commercial uses.

COMPLIANCE WITH ZONING ORDINANCE

The property is zoned O-R-M/PUD, Office-Research-Manufacturing/ Planned Unit Development #31. The proposal includes a request for a Planned Unit Development Amendment to allow for the construction of a new multi-family residential development, which is a permitted use in the PUD #31. The bulk requirements of the proposed building are summarized in the following table:

Proposed Lot 1	Required	Proposed
Street Setback		
Building 1: 3211 Woodcreek Drive (minimum)	43.13 ft.	46.00 ft.
Building 2: 3221 Woodcreek Drive (minimum)	41.75 ft.	42.49 ft.
Building 3: 3201 Woodcreek Drive (minimum)	43.75 ft.	44.50 ft.
Club Building: 3231 Woodcreek Drive (minimum)	35.00 ft.	35.00 ft.
Parking	35.00 ft.	40.50 ft.
Side Interior Setback		
Buildings	10 ft.	25 ft.
Parking	10 ft.	10 ft.
Rear Setback	N/A	21.13 ft.
Height		
Building 1: 3211 Woodcreek Drive (maximum)	140 ft.	51.25 ft.
Building 2: 3221 Woodcreek Drive (maximum)	140 ft.	48.50 ft.
Building 3: 3201 Woodcreek Drive (maximum)	140 ft.	52.50 ft.
Club Building: 3231 Woodcreek Drive (maximum)	140 ft.	25 ft.
Landscape Open Space (minimum)	15%	50%
Floor Area Ratio (maximum)	1.00	0.83
Parking Spaces (minimum)	594	490 *

Table 1 – Zoning Requirements, Proposed Lot 1

Page 5

As highlighted in the table above, the petitioner is requesting relief from the Zoning Ordinance parking requirements. A summary of the requested deviation will be further discussed under "Traffic and Parking."

Overall PUD	Required	Proposed
Parking Spaces (minimum)	9,470	9,521
Open Space (minimum)	15%	50.84% (2,259,100 SF)
Floor Area Ratio (maximum)	1.00	0.84

Table 2: Zoning Requirements, Overall PUD

SIGNAGE

Signage within the Esplanade PUD is governed by a master sign plan. The petitioner is proposing two wall signs, to be mounted on the north and east facades of Building #2. A monument sign is proposed along Woodcreek Drive and along Lacey Road. One directional sign is located at the Lacey Road entrance while three others are placed within the interior of the development. These signs are compliant with the Esplanade PUD master signage plan.

An amendment to the PUD master signage plan is requested to replace an existing monument sign 1807 Butterfield Road with a new monument sign. The new monument sign will be 13.25 feet tall and contain 60 square feet of signage. A summary of the proposed signage is provided below:

Sign Type	Area	Height	Location	
Wall Sign	48 sq.ft.	N/A	Building #2 (north facade)	
Wall Sign	48 sq.ft.	N/A	Building #2 (east facade)	
Monument Sign	24 sq.ft.	7 feet	Woodcreek Drive	
Monument Sign	24 sq.ft.	7 feet	Lacey Road	
Monument Sign	60 sq.ft.	13.25 feet	1807 Butterfield Road	
Directional Signs (Qty.4)	5 sq.ft.	4.83 feet	Internal	

Table 3: Sign Package

COMPLIANCE WITH SUBDIVISION ORDINANCE

The petitioner is proposing to subdivide one existing lot of record into two lots of record. The southern lot is the proposed location for the residential development. The northern lot will remain vacant, but is planned for an office building and parking deck in the future. The petitioner will be required to finalize the proposed office building development plans in detail and request approval of a PUD Amendment.

The final plat of subdivision is in compliance with the minimum lot dimension requirements as outlined in Section 20.301 of the Village's Subdivision Ordinance. The petitioner is providing the required five-foot wide public utility and drainage easements along the interior yard lot lines and the ten-foot wide public utility and drainage easements along the rear lot lines for Lot 1 and 2.

Esplanade at LocustLot Width (100 ft. minimum)		Lot Depth (140 ft. minimum)	Lot Area (20,000 square foot minimum)		
Lot 1 (Multi-Family)	560.1 ft.	768.57 ft.	401,909 sq. ft.		
Lot 2 (Future Office)	403.39 ft.	548.81 ft.	173,004 sq. ft.		

 Table 4 – Subdivision Requirements

The Subdivision Ordinance requires that developments requesting a final development plan of a planned unit development for multi-family developments to provide park and school donations to offset the impact

Page 6

23-PCE-0009; 3201-3231 Woodcreek Drive January 22, 2024

of new residential units. The proposed development will include 297 units (69 studios, 144 one bedroom units, and 84 two bedroom units). Based upon the number of units and the number of bedrooms, the total donation is \$1,671,277.77 (\$1,508,385.45 to the Park District, \$117,306.24 to Elementary School District 58, and \$45,586.08 to High School District 99). Payment of these donations must be made to the Village prior to the issuance of any site development or building permits.

ENGINEERING/PUBLIC IMPROVEMENTS

The proposed residential development will be located on the proposed subdivided Lot 1. The overall Esplanade campus drains in a westerly direction and the stormwater detention for the entire development was designed in a series of lakes. The proposed development does require additional stormwater detention. The required detention volume will be provided by modifying three existing ponds to gain additional volume. Modifications will include: raising the high water level elevation, minor re-grading, overflow weir adjustments, and adjustments to the outfall restrictor pipe.

Based on the existing impervious area on the site and the proposed impervious area, the proposed development requires Post Construction Best Management Practices (PCBMPs). This additional volume will be provided in three basins: two basins will be located within large parking lot islands in the multi-family residential development and a third basin will be located immediately west of Building #3. The petitioner will be required to meet all Village engineering standards and comply with all applicable codes when formally submitting for a permit.

The proposed development will provide access via a right-in/right-out access drive on Lacey Road and via two full-movement access drives on Woodcreek Drive. Additionally, Woodcreek Drive will be restriped to provide:

- A separate left-turn lane serving both access drives to the proposed development and
- A westbound left-turn lane to serve the existing access drive on the south side of Woodcreek Drive between the development site's access drives.

Internal pedestrian connections are provided among all four buildings. Additionally, pedestrian connections lead out toward established sidewalk networks on Woodcreek Drive, Lacey Road, and heading north towards the adjacent pond and office park. New fire, water service, and sanitary sewer service lines will be provided. The Downers Grove Sanitary District conceptually approved the request for sanitary service to this development. The Village will also require the petitioner to abrogate an existing AT&T easement prior to the issuance of a building permit.

TRAFFIC AND PARKING

A traffic impact study for the proposed development was completed by the petitioner. The study examined the existing and future traffic conditions based on the proposed development. The proposed development is projected to generate primarily outbound traffic during the weekday morning and inbound traffic during the weekday evening. This direction of traffic is the opposite of other area developments, which are primarily office and industrial. The area roadway system was found to have sufficient reserve capacity to accommodate the traffic

Access to the development will be provided via a right-in/right-out access drive on Lacey Road and all movements will be under stop sign control. Left-turn movements will be restricted via the median on Lacey Road. Additional access will be provided via two full-movement access drives on Woodcreek Drive. As part of the development, Woodcreek Drive will be restriped to provide a separate left-turn lane serving both access drives. Moreover, the restriping of Woodcreek Drive will also include a westbound left-turn lane to serve the existing access drive on the south side of Woodcreek Drive between the site's access drives. The

23-PCE-0009; 3201-3231 Woodcreek Drive January 22, 2024 Page 7

traffic impact study found that the proposed access drives would sufficiently accommodate the traffic projected to be generated while ensuring efficient and flexible access is provided.

The development will provide 490 residential parking spaces where 594 are required. As such, the proposed development will provide parking at a ratio of 1.65 spaces per residential unit; where the required parking ratio per the Zoning Ordinance is 2 spaces per dwelling unit.

The petitioner's rationale for the relief request has found that the provided parking will be adequate based on similar rental communities that they have constructed, which is further reinforced by their traffic impact study. Based on the rates published in the *Institute of Transportation Engineers' (ITE)* 5th Edition of the Parking Generational Manual, the proposed development should provide a total of 389 parking spaces (parking ratio of 1.31 spaces per dwelling unit) to accommodate the peak parking demand (Monday-Friday). Under these standards the proposed development supply of 490 parking spaces exceeds the ITE's requirement of 398 parking stalls. The petitioner also states that the reduced parking will translate to more green space within the development.

PUBLIC SAFETY REQUIREMENTS

The Fire Prevention Division reviewed the proposed development and determined that sufficient access to and around the site is provided for emergency vehicles. The loop around the buildings provides sufficient access around the property as needed. The buildings will be required to include a fire alarm and sprinkler system that meet the Village's code requirements.

NEIGHBORHOOD COMMENT

Notice was provided to all property owners 250 feet or less from the property in addition to posting public hearing notice signs and publishing the legal notice in the legal notice in the Daily Herald. Staff received one inquiry from the DuPage County Forest Preserve District inquiring about the nature of the proposal.

STANDARDS OF APPROVAL

The petitioner is requesting approval of a final Plat of Subdivision to subdivide the existing single lot of record into two lots of record. The proposed Final Plat of Subdivision meets the standards of Sections 20.301 and 20.305 of the Subdivision Ordinance and Section 28.3.030 of the Zoning Ordinance. Additionally, the petitioner is also requesting a Planned Unit Development Amendment to PUD #31. The review and approval criterion for this request is listed below.

The petitioner has submitted a narrative that attempts to address all the standards of approval. The Plan Commission should consider the petitioner's documentation, the staff report and the discussion at the Plan Commission meeting in determining whether the standards for approval have been met.

Section 28.12.040.C.6 Review and Approval Criteria

The decision to amend the zoning map to approve a PUD development plan and to establish a PUD overlay district are matters of legislative discretion that are not controlled by any single standard. In making recommendations and decisions regarding approval of planned unit developments, review and decision-making bodies must consider at least the following factors:

- a. The zoning map amendment review and approval criteria of Sec. 12.030.I.
- b. Whether the proposed PUD development plan and map amendment would be consistent with the comprehensive plan and any other adopted plans for the subject area.
- c. Whether PUD development plan complies with the PUD overlay district provisions of Sec. 4.030.
- *d.* Whether the proposed development will result in public benefits that are greater than or at least equal to those that would have resulted from development under conventional zoning regulations.

e. Whether appropriate terms and conditions have been imposed on the approval to protect the interests of surrounding property owners and residents, existing and future residents of the PUD and the general public.

DRAFT MOTION

Staff will provide a recommendation at the January 22, 2024 meeting. Should the Plan Commission find that the request meets the standards of approval for a Final Plat of Subdivision and a Planned Unit Development Amendment, staff has prepared a draft motion that the Plan Commission may make for the recommended approval of 23-PCE-0009:

Based on the petitioner's submittal, the staff report and the testimony presented, I find that the petitioner has met the standards of approval for a Final Plat of Subdivision and Planned Unit Development #31 Amendment as required by the Village of Downers Grove Zoning Ordinance and is in the public interest and therefore, I move that the Plan Commission recommend to the Village Council approval of 23-PCE-0009, subject to the following conditions:

- 1. The Planned Unit Development Amendment and Final Plat of Subdivision shall substantially conform to the staff report; and drawings prepared by RWG Engineering submitted on 12/08/23, and by BSB Design on 12/08/23, except as such plans may be modified to conform to the Village codes and ordinances.
- 2. A recorded final plat of subdivision will be required prior to permit issuance.
- 3. Prior to issuing any site development or building permits, the petitioner shall make park and school donations in the amount of \$1,671,277.77 (\$1,508,385.45 to the Park District, \$117,306.24 to Elementary School District 58, and \$45,586.08 to High School District 99).
- 4. Based on the results of the EcoCAT from IDNR: Tree removal should only occur between November 1st and March 31st when the northern long-eared bat is hibernating off site.
- 5. A recorded plat of abrogation to remove the utility easements will be required prior to permit issuance.

Staff Report Approved By:

Aulli

Stanley J. Popovich, AICP Director of Community Development

SP:fl -att ORD 2024-10276

Page 16 of 203



M & R Development, L.L.C.

Esplanade Place

Project Narrative

The Esplanade at Locust Point, otherwise known as PUD #31, was approved in 1990 with a master site development plan and use list that identified a variety of office buildings, open space, transportation and roadway improvements. The PUD was amended multiple times since 1990 to allow for different building layouts, developments and additional uses.

While the Comprehensive Plan identifies the future land use of The Esplanade at Locust Point as a continuing commercial development without a housing component, the Plan Commission, on September 12, 2022, unanimously recommended that PUD #31 be amended to permit the construction of a multi-family residential development on a parcel situated within the PUD at the intersection of Woodcreek Drive and Lacey Road. The Plan Commission found that the proposal for residential use is an appropriate one in the PUD, is compatible with the Comprehensive Plan, and meets the standards for a PUD amendment found in Section 28.12.040.C.6. Subsequently, the Village Council, on October 4, 2022 approved the PUD amendment by the adoption of Ordinance 2022-9606.

M&R Development is now pleased to present this proposal for Esplanade Place, a new luxury rental community on a nine-acre portion of the Esplanade at Locust Point Planned Unit Development. The proposed residential community will contain state-of-the-art, high-end features and amenities which will appeal to the changing lifestyles of those who are currently renting by choice. In total, the community will consist of three 99-unit four story buildings, or a total of 297 apartment homes, 213 of which will be studio and one-bedroom units, and 84 of which will be two-bedroom units. The rental units will average slightly under 800 square feet in size.

Esplanade Place will offer its residents both garage and surface parking. Proposed for the community will be 65 interior garage spaces, housed in each of the three residential buildings (195 garages spaces, total), and 295 exterior parking spaces. These 490 parking spaces will equate to a parking ratio of 1.65 spaces per unit which we have found to be adequate in similar rental communities we have constructed and currently manage through our affiliate RMK Management Company. Similarly, the project's traffic consultant, KOLA, has studied the parking utilization for several recently built suburban rental communities (similar to Esplanade Place) and, based on their experience and findings and, also believes that the allotted parking spaces will adequately meet the parking needs of the proposed community. This traffic and parking report dated March 9, 2023 is included in the submittal.

The reduced demand for parking will translate to more green space and less asphalt within the development. As part of our application request, we are requesting a variance from the Village's parking requirement of 2 spaces per unit. The proposed parking ratio is 1.65 spaces per unit for a total of 490 surface and garage spaces.

Many people are now spending more time at home and away from their office. They are looking for affordable housing options that provide them both the space they need to live and work at home, and indoor and outdoor amenity spaces which facilitate recreation, relaxation and ongoing social interaction with others. To that end, our community will contain a state-of-the-art 6,000-square foot clubhouse, a swimming pool, expansive sundecks, open spaces, dog walking areas, and other areas and amenities for all community residents to enjoy. The clubhouse will contain meeting spaces with refrigerators, microwaves, warming drawers and ice machines, a full-service fitness center, and work areas where residents will be able to work individually or in concert with others, both in person and virtually. The fitness center will contain a yoga room, personal training options, and multi-purpose exercise rooms.

Our proposed unit mix means that our community will generate few children and little impact for Downers Grove Grade School District 58 and Community High School District 99. At the same time, it will generate significant new tax revenues for those districts and for the Downers Grove Park District that will benefit existing Downers Grove residents.

Stormwater management improvements are an integral part of the Esplanade Place development. During the initial engineering design, a detailed analysis was performed to evaluate drainage conditions within this subwatershed and formulate plans for maintenance improvements and detention storage volume additions within the 3 ponds to which this project is tributary. A total of 2.054 acre-feet of additional storage to address the updated 100-year storm event needs has been designed to be accommodated within these ponds, located immediately west and southwest of the subject site. In addition to detention storage, best management practices have been incorporated into the stormwater collection design to reduce runoff and promote runoff absorption. A total of 3 VCBMP facilities have been included in the infrastructure program, capturing rainfall runoff and providing water cleansing and absorption opportunities both within and immediately adjacent to the residential development. These volume control facilities store a total of 26,668 cubic feet of runoff, thereby reducing discharge flow rates exiting the site.

Years ago, land to the south of the Esplanade, like the land we are now seeking to develop, was slated for large office building development. Nevertheless, changes in the way people have come to live brought about by the pandemic and current economic conditions brought changed thoughts about how that land should be developed and used. Amazon opened a distribution hub, which has helped the local economy, and the way people purchase everyday items. Midwestern University opened a new campus. A successful new day care facility was constructed. New restaurants (such as Cooper's Hawk) have opened. These developments help serve the needs of those working in area office buildings, who want to live outside downtown Downers Grove in an upscale rental community and in close proximity to their offices, and the needs of all Village residents.

It should be noted that the construction of our community, if approved, would not foreclose the opportunity for new office development in this area. Almost 8.5 acres of land will remain for new office development at the Esplanade. This means that another 846,000 square feet of new "Class A" office space could be constructed at the Esplanade if and when the demand for the construction of new "Class A" office space returns to the East-West Corridor office market and such development becomes economically feasible.

We invite those interested in seeing a comparable development constructed under conditions similar to those observed at the Esplanade at Locust Point to visit our recently constructed multi-family development in Itasca known as The Residences at Hamilton Lakes. This project accurately reflects our design intentions with respect to the development we are seeking to construct at the Esplanade. The Residences of Hamilton Lakes is a 297-unit community delivered in 2017. The project contains three residential buildings and a luxurious clubhouse offering residents a variety of lavish amenities. It took a little over a year to achieve a 95% rate of occupancy, which reflects the strong demand in the area for projects such as the one we are proposing to construct at the Esplanade.

We look forward to receiving Plan Commission input, to answering all questions, and to working with the Village staff on this exciting new development proposal for the Village.

About M&R Development

Founded in 1996 by Tom Moran and Anthony Rossi, M&R Development is an environmentally conscious developer of luxury, high-end rental apartment buildings ranging in style from suburban garden and mid-rise to urban high-rise. We are an innovative company focused on sustainable and eco-friendly developments. Several of our more recently construction projects have receiving LEED certifications.

The M&R Development team continues to introduce new ideas into the multi-family industry and deliver apartment homes which meet or exceed resident expectations. Mr. Moran and Mr. Rossi were some of the first developers to introduce luxury living into the Midwest market. Their early ideas included expansive fitness centers, business centers, cyber cafes, cinemas and pet spas. At a time when the cost to rent is lower than the cost to own a home, more and more residents are choosing M&R Development projects because of its attention to detail and its genuine concern for the comfort of its residents.

To date, M&R Development has developed 19 properties containing over 4,700 units, spanning from the Chicago area to Wisconsin. This includes the development of The Residences at The Grove (ReNew) in Downers Grove, a 294-unit luxury apartment community. Our most recently delivered projects include 42 Hundred on the Lake in St Francis, Wisconsin, Elevate Apartments in Madison, Wisconsin, and 2929 North Mayfair in Wauwatosa, Wisconsin.



Review and Approval Criteria PLANNED UNIT DEVELOPMENT

Plan Commission Number & Title: _

A DETAILED RESPONSE TO ALL OF THE STANDARDS SHALL BE PROVIDED, SPECIFYING HOW EACH STANDARD IS OR IS NOT MET.

Section 28.12.040.C.6 Review and Approval Criteria (Planned Unit Development)

The decision to amend the zoning map to approve a PUD development plan and to establish a PUD overlay district are matters of legislative discretion that are not controlled by any single standard. In making recommendations and decisions regarding approval of planned unit developments, review and decision-making bodies must consider at least the following factors:

- 1. The zoning map amendment review and approval criteria of Sec. 12.030.I. See the analysis of zoning map amendment review and approval criteria in separate document.
- 2. Whether the proposed PUD development plan and map amendment would be consistent with the Comprehensive Plan and any other adopted plans for the subject area.

3. Whether PUD development plan complies with the PUD overlay district provisions of Sec. 4.030.

- 4. Whether the proposed development will result in public benefits that are greater than or at least equal to those that would have resulted from development under conventional zoning regulations.
- 5. Whether appropriate terms and conditions have been imposed on the approval to protect the interests of surrounding property owners and residents, existing and future residents of the PUD and the general public.

EXHIBIT A

EXHIBIT A

Section 28.12.040.C.6 Review and Approval Criteria (Planned Unit Development)

- 1. The zoning map amendment review and approval criteria of Sec. 12.030.I. See the analysis of zoning map amendment review and approval criteria in separate document.
- 2. Whether the proposed PUD development plan and map amendment would be consistent with the Comprehensive Plan and any other adopted plans for the subject area.

The proposed PUD amendment would conflict with the Comprehensive Plan's recommendation that the subject property be developed with additional office restaurant or retail uses, but it would further these Plan objectives: (1) provide diversity in the Village's housing stock and unit types; (2) encourage development which allows Village residents to stay in Downers Grove through all stages of their lives; and (3) encourage office campuses to offer office spaces that are adaptable to market trends. It should be noted that the Plan encourages the Village to continually address new challenges and it provides that "it is not a definitive course of action or a legally binding obligation of what must be done" or "...a mandate." In fact, it states that "while it is a detailed document that provides specific guidance on land use decisions, it is also intended to be sufficiently flexible to accommodate unique or compelling circumstances and the consideration of creative approaches to development that are consistent with the overall policies and guidelines" in the Plan.

3. Whether PUD development plan complies with the PUD overlay district provisions of Sec. 4.030.

The proposed PUD amendment would result in the construction of a development that creates a new housing option which meets the needs of different age groups and household types, and a multi-use development that creates a mix of residential and nonresidential uses. The proposed amendment would also further overlay district objectives of achieving flexibility and creativity in the use of land which responds to changing social, economic and market conditions, and locating mixed-use residential and commercial developments in close proximity to one another.

4. Whether the proposed development will result in public benefits that are greater than or at least equal to those that would have resulted from development under conventional zoning regulations.

The proposed PUD amendment would result in several public benefits that are equal to those that would have resulted from development of the subject property under the existing PUD ordinance. These include high-quality development that creates limited or no negative impact on area school districts; positive fiscal impact for the Village, those school districts and the Downers Grove Park District; the sustainability of existing office development on the Esplanade corporate campus; and the generation of daytime (and in this case, nighttime) population which will support and patronize Village restaurants and businesses.

5. Whether appropriate terms and conditions have been imposed on the approval to protect the interests of surrounding property owners and residents, existing and future residents of the PUD and the general public.
 The applicant is prepared to work with the Plan Commission, the Village Council and

The applicant is prepared to work with the Plan Commission, the Village Council and Village staff on including terms and conditions in a PUD amendment which will protect the interests of existing and future Esplanade office occupants and the general public.

Residential Site Area	9.22 Ac.	Tot. Bedrooms
Studio/ Conv. Units 1 BR Units 2 BR Units 3 BR Units	$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	69 144 168 0
Total Rental Units	297 (28.0 Du/Ac.)	381 BR
Setbacks Refer to Sheet LP1.02		
RESIDENTIAL PARKING		
Garages Surface	195 295	
Res. Parking Subtotal	490 (Provided-1.65 (Required-2.00 Parking Var	Spaces/Unit) Spaces/Unit) iance Requested
Bike Parking Garage (30 / Bldg.) Surface (6 / Pad)	90 18	52

Description GSF (sf) NSF (sf) Level 1 Level 2 Level 3 Level 4 Total GSF | Total NSF | Notes

Studio Units									-				2010 Contraction (1997)
S1	Studio	524	481	1	1	1	1	4	12	4.0%	2,096	1,924	Efficiency
S2	Studio	605	560	2	2	2	2	8	24	8.1%	4,840	4,480	Studio Unit
S3	Convertible / 1 Bath	711	661	2	3	3	3	11	33	11.1%	7,821	7,271	Convertible with Sleeping Room
35	4			1					1				
Total Studio Unit	15	5		5	6	6	6	23	69	23.2%	14,757	13,675	
											642	595	
One Bedroom U	nits												
A1	1 Bed / 1 Bath	749	698	4	4	4	4	16	48	16.2%	11,984	11,168	Standard 1 Bedroom
A2	1 Bed / 1 Bath	819	764	4	4	4	4	16	48	16.2%	13,104	12,224	Standard 1 Bedroom
A3	1 Bed / 1 Bath	871	816	4	4	4	4	16	48	16.2%	13,936	13,056	Standard 1 Bedroom
64													
					J								
Total 1 Br Unit	ts			12	12	12	12	48	144	48.5%	39,024	36,448	
											813	759	
Two Bedroom U	Inits	1							1	1			
B1	2 Bed / 2 Bath	1,122	1,055	2	2	2	2	8	24	8.1%	8,976	8,440	"In-Line" 2 Bedroom
B2	2 Bed / 2 Bath	1,290	1,216	5	5	5	5	20	60	20.2%	25,800	24,320	Corner 2 Bedroom
83													
84													
B5	4			2			s - 1						
Total 2 Br Unit	ts			7	7	7	7	28	84	28.3%	34,776	32,760	
											1,242	1,170	
Three Bedroom	Units					-		_					
Total 3 Br Unit	ts		i i i i i i i i i i i i i i i i i i i	0	0	0	0	ö	0	0.0%	0	0	
Tota	ls		-	24	25	25	25	99	297	100.0%	88,557	82,883	

895 837 Mean Unit Areas NSE: Measured to interior face of gyp board at perimeter of unit CSE: Measured to exterior face of stud at exterior and corridor walls and to centerline of demising wall



The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2023 BSB Design, Inc.



LP 1.01 Conceptual Site Plan ESPLANADE PLACE Downers Grove, Illinois



Date: December 28, 2023







Date: December 28, 2023





Trash Pad Enclosure





Monument Sign

Location Sign







Current Butterfield Road Sign

Butterfield Road Sign (Proposed)



Building Mounted Signage Located on East and North Sides of Building #Two Facing Tollway

BUTTERFIELD ROAD O PROPOSED TRASH PAD ENCLOSURE LOCATIONS North 60 120 240



Date: December 26, 2023

BSB

DESIGN

BSBDESIGN.COM

ZONING COMPARISON TABLE- ESPLANADE PLACE APARTMENTS

Project Name Address: PIN(s): Zoning District: Existing Use: Proposed Use: Petition Type: Deviations:

ESPLANADE PLACE APARTMENTS 3201, 3211, 3221, 3231 Woodcreek Drive 06-31-100-021 O-R-M Office/Mixed Use Multi-Family Development Revision to Esplanade PUD Reduction In the Amount of Required Parking Spaces

Requirement	Required	Proposed/		900000 - 10	±960	
		Existing	Meets	Plus/	Difference	
2	O-R-M	(SF)	Req'ment?	Minus		
Minimum District Area (acres)	NA[1]	NA	NA	NA	NA	
Minimum Lot Area (square feet)	20,000	401,909	YES	+	381,909	
Minimum Lot Area Per Dwelling Unit (sf)	NA	NA	NA	NA	NA	
Total Buildng Floor Area		335,500				
Maximum Floor Area Ratio (FAR)	1.00	0.83	YES	+	0.17	
Maximum Building Coverage (% of lot)	NA	NA	NA	NA	NA	
Building Setbacks (feet)						
Street Yard	35[7]					
Front	Feet					
MF Building -3211 Wood Creek Drive	43.125	45.67	YES	+	2.545	
MF Building -3221 Wood Creek Drive	41.75	42.42	YES	+	0.67	
MF Building -3201 Wood Creek Drive	43.75	44.5	YES	+	0.75	
One Story Club -3231 Wood Creek Drive	35	35	YES	No Ch.	0	
Side (interior)	10	20'	YES	+	10'	
Rear (residential floors)	NA	NA	NA	NA	NA	
Rear (nonresidential floors)	NA	NA	NA	NA	NA	
Landscaped Open Space		167,087				
Min. Landscaped Open Space (% of lot)[10]	15	0.50	YES	+	35%	
Maximum Building Height (feet)	140'	45'	YES	+	95'	
Parking	2.0 sp/du	1.65 sp/du				
©	594	490	NO		-104	
Donations	\$1,671,277.77	\$1,671,277.77	YES	No Ch.	0	

Notes to Zoning Comparison Table:

No minimum district area required north of Ronald Reagan Memorial Tollway or to property zoned M-1 or M-2 on 10-25-1982.
 Plus one foot (1') of additional setback for each two feet (2') of building height above thirty-five feet (35').

[10] At least fifty percent (50%) of required landscaped open space must be located in the street yard



HAMILTON PARTNERS





128

LP 1.04 Zoning Comparison Table/ Concept Club Amenity Plan ESPLANADE PLACE Downers Grove, Illinois



Date: December 28, 2023

ORD 2024-10276



*ESPLANADE PUD DATA SUMMARY

PARCEL "A-1", "A-2" & "A-3"	
SITE AREA	2,217,216 SF
EXISTING BLDG FLOOR AREA	
BUILDING FLOOR AREAS (GROSS F.A.R.)	
2001 BUTTERFIELD	639,906 SF
3131 WOODCREEK DRIVE	80,181
1901 BUTTERFI ELD	296,312
3250 LACEY ROAD	188,802
CARLUCCI RESTAURANT	11,400
SUBTOTAL EXISTING BUILDING FLOOR AREA :	1,216,601

	EQUIRED PROVIDED /PROPOSED	FARUE
SUE AREA 1918 464 SE SITE AREA 202 011 SE REC		M ABRIMETAL
ESPLANADE PLACE APARTMENTS/ CLUB 348,000 SF BUILDING FLOOR AREA SUBTOTAL BUILDING FLOOR AREA 204,976 66,55% (.67 FAR) 2001 BUTTERFIELD ROAD "1,6"	,600 CARS @ 2.5/1,000 1,600 CARS	FUTURE MV
(2) FUTURE OFFICE BUILDINGS 846.000 FUTURE MWU BUILDING 185,000 BUILT-UP FOOTPRINT 39,648 12,87% 3131 WOODCREEK DRIVE 160	60 CARS @ 2/1,000 113 CARS	3300 WOOD
(2) FUTURE RESTAURANTS 10.000 3300 WOODCREEK DRIVE (ASGE) 41,822 PAVED AREA 174,383 56.62% 1901 BUTTERFIELD 741	41 CARS @ 2.5/1,000 741 CARS	3450 LACEY
(1) BANK 7,400 3450 LACEY ROAD (MWU) 190,087 OPEN SPACE	72 CARS @ 2.5/1,000 4/2 CARS	3500 LACEY
SUBTOTAL FUTURE BUILDING FLOOR AREA 1,204,000 SF 3500 LACEY ROAD 658,370 LANDSCAPED "GREEN" OPEN AREAS" 93,980 30.51%	121 CARS @ 10/1,000 148 CARS	3400 LACEY
SUBTOTAL EXISTING AND FUTURE FL. AREA : 2,420,601 SF 109% (1.09 FAR) 3400 LACEY ROAD (DAY CARE CENTER) 10,800 WATER ELEMENTS 0 0.00%	3,074 0,010	SUBIDIAL
EXISTING AND FUTURE FLOOR AREA PER SUBTOTAL BUILDING FLOOR AREA 1,086,079 56.61% (.57 FAR) SUBTOTAL OPEN SPACE 93,980 30.51%		SUBTOTAL
06/03/2011 MASTER PLAN UPDATE 2,670,196 SF		0.00101112
UNUTILIZED FLOOR AREA (SF) 249,595 BUILT-UP FOOTPRINT 461,215 SF 24.04% ESPLANADE PUD TOTALS	EQUIRED PROVIDED /PROPOSED	GRAND
BUILT-UP FOOTPRINT 612,303 SF 27.62% PAVED AREA 313,856 16.36% ESPLANADE PLACE APARTMENTS 594	94 CARS 2.0 CARS/UNIT 490	
PAVED AREA 591,394 26.67% OPEN SPACE 5,256,700 SI OFFICE BUILDING ONE 1,75	755 CARS @ 2.5/1,000 1795	
OPEN SPACE 21,935 37.63% ASSOCIATED WITH BUTTEBEIELD LACEY & OFFICE BUILDING TWO 360	60 CARS @ 2.5/1,000 410	
LANDSCAPED "GREEN" OPEN AREA 910,106 41.05% WATER ELEMENTS 421,458 21.97% WOOD CREEK BOADS 443.691 SE	00 CARS @ 10/1,000 100	
WATER ELEMENTS 104,201 4.70% SUBTOTALOPEN SPACE-PARCEL'B' 1,143,393 59.60%	9 CARS @ 10/1,000 31	-
SUBTOTAL OPEN SPACE 1,014,307 45.75% SUBTOTAL OPEN SPACE 3,734,885 SE 84,05% (84 EAB)	858 CARS 2,826	
BUILT-LIP FOOTPRINT 1 104 958 SF 24 87%		
PAVED ABEA 1 079 633 SE 24 30%		
OPEN SPACE	Indated Earls	nod
	pualed Espla	anau
WATER ELEMENTS 525.659 SF 11.83%		
TOTAL OPEN SPACE 2.259,100 SF 50.84%	EC	
DEVELOPMENT	LO	
		Dave
0 60 120 240 480		DOM







The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2023 BSB Design, Inc.

Page 28 of 203

PARKING SUMMARY

PARCE

	REQUIRED	PROVIDED /PROPOSED
FUTURE MWU BUILDING	388 CARS @ 2.5/1,000	471 CARS
3300 WOODCREEK DRIVE (ASGE)	98 CARS @ 2.5/1,000	142 CARS
3450 LACEY ROAD (MWU)	901 CARS @ 2.fi71,000	889 CARS
3500 LACEY ROAD	1,646 CARS @ 2.5/1,000	1,646 CARS
3400 LACEY ROAD (DAY CARE C'TER)	36 CARS @ 3.3/1,000	51 CARS
SUBTOTAL 'B'	3,069 CARS	3199 CARS
SUBTOTAL - DOUBLETREE HOTEL	422 CARS @ 1/ROOM	422 CARS
GRAND TOTAL	9.470 CARS	9,521 CARS

LP 1.05 Anade Master Plan PLANADE PLACE Downers Grove, Illinois



Date: December 28, 2023







The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2023 BSB Design, Inc.

Exterior Rendering











HAMILTON PARTNERS



The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2023 BSB Design, Inc.

Exterior Rendering





Page 30 of 203







Exterior Rendering





ORD 2024-10276







The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2023 BSB Design, Inc.

Exterior Rendering



A1.3 ESPLANADE PLACE Downer's Grove, IL









The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2023 BSB Design, Inc.

Exterior Rendering











The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2023 BSB Design, Inc.

Contextual Height Exhibit

A1.5 ESPLANADE PLACE Downer's Grove, IL



Aerial View from Southeast

All and a second second second

RD 2024-10276





The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2023 BSB Design, Inc.



Contextual Height Exhibit









02: East Elevation - Building 1 3/32" = 1'-0"



DEVELOPMENT

The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2023 BSB Design, Inc.

Exterior Elevations



Parking 00 (-) 11'-2"








01: West Elevation - Building 1



02: South Elevation - Building 1



The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2023 BSB Design, Inc.

Exterior Elevations









02: South Elevation - Building 2 3/32" = 1'-0"



The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2023 BSB Design, Inc.

Exterior Elevations

Parking **00** (-) 11'-2"









01: North Elevation - Building 2 3/32" = 1'-0"



02: East Elevation - Building 2 3/32" = 1'-0"



The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2023 BSB Design, Inc.

Exterior Elevations

Parking **00** (-) 11'-2"



Parking 00 (-) 11'-2"







02: East Elevation - Building 3 3/32" = 1'-0"

DEVELOPMENT

The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2023 BSB Design, Inc.

Exterior Elevations

Parking 00 (-) 11'-2"

01: West Elevation - Building 3

02: South Elevation - Building 3

The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2023 BSB Design, Inc.

Exterior Elevations

Parking **00** (-) 11'-2"

The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2023 BSB Design, Inc.

Building Section

Building Section

01: North Elevation - Club Building

04: West Elevation - Club Building

Exterior Elevations

Ħ BSB DESIGN **BSBDESIGN.COM**

December 8, 2023 | MR230012.00

Downer's Grove, IL

Building Floorplan Diagrams

ANSI TYPE B UNIT 524 GSF / 481 NSF

The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2023 BSB Design, Inc.

ANSI TYPE B UNIT 605 GSF / 560 NSF **Unit - S2 Studio**

SCALE: 1/4"=1'-0"

Unit Plans

ANSI TYPE B UNIT 711 GSF / 661 NSF Unit - S3 Studio

SCALE: 1/4"=1'-0"

ANSI TYPE B UNIT 749 GSF / 698 NSF Unit - A1 1-Bedroom SCALE: 1/4"=1'-0"

The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2023 BSB Design, Inc.

ANSI TYPE B UNIT 819 GSF / 763 NSF Unit - A2 1-Bedroom SCALE: 1/4"=1'-0"

Unit Plans

March 24, 2023 | MR230012.00

A5.1

ANSI TYPE B UNIT

Balcony

Page 48 of 203

ANSI TYPE B UNIT 1122 GSF / 1055 NSF Unit - B1 2-Bedroom SCALE: 1/4"=1'-0"

The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2023 BSB Design, Inc.

Unit Plans

Floor Plan

Scale: 1/8" = 1'-0" 8,097 sf

The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2023 BSB Design, Inc.

Club Building

RWG ENGINEERING, LLC CIVIL ENGINEERING - REAL ESTATE CONSULTING - PROJECT MANAGEMENT ILLINOIS PROFESSIONAL DESIGN FIRM #184-006370 LIMITATION OF WARRANTY OF ENGINEER'S INSTRUMENTS OF SERVICE

HE ENGINEER AND HIS CONSULTANTS DO NOT WARRANT OR GUARANTEE THE ACCURACY AI COMPLETENESS OF THE DELIVERABLES HEREIN BEYOND A REASONABLE DILIGENCE. IF AN AISTAKES, OMISSIONS, OR DISCREPANCIES ARE FOUND TO EXIST WITHIN THE DELIVERABLES. T NGINEER SHALL BE PROMPTLY NOTIFIED SO THAT HE MAY HAVE THE OPPORTUNITY WHATEVER STEPS NECESSARY TO RESOLVE THEM. FAILURE TO PROMPTLY NOTIFY THE ENGINEE SUCH CONDITIONS SHALL ABSOLVE THE ENGINEER FROM ANY RESPONSIBILITY ONSEQUENCES OF SUCH FAILURE. ACTIONS TAKEN WITHOUT THE KNOWLEDGE AND CONSENT E ENGINEER. OR IN CONTRADICTION TO THE ENGINEER'S DELIVERABLES OR RECOMMENDATIONS HALL BECOME THE RESPONSIBILITY NOT OF THE ENGINEER BUT OF THE PARTIES RESPONSIBL OR TAKING SUCH ACTION.

EVICTINIC

DDADAGEL

	EXISTING	TROF USED
SANITARY MANHOLE	\bigcirc	۲
STORM MANHOLE	Ø	۲
CATCH BASIN	0	•
INLET		
PRECAST FLARED END SECTION	\triangleright	
CONCRETE HEADWALL	>	>
VALVE VAULT	\otimes	$\mathbf{\Theta}$
VALVE BOX	Ħ	
FIRE HYDRANT	Q	>
BUFFALO BOX	Φ	•
CLEANOUT	0	
SANITARY SEWER		
FORCE MAIN		
STORM SEWER	((
WATER MAIN	···	
CONSTRUCT WATER MAIN UNDER SEWER		
GRANULAR TRENCH BACKFILL		
STREET LIGHT	⊶X	•
ELECTRICAL CABLE	—— E——	IEI
2" CONDUIT ENCASEMENT		
ELECTRICAL TRANSFORMER OR PEDESTAL	E	
POWER POLE	-0-	
STREET SIGN	Þ	Þ
GAS MAIN	G	IGI
TELEPHONE LINE	T	ITI
CONTOUR	749	749
SPOT ELEVATION	×(750.00)	×750.00
WETLANDS	<u> </u>	••_
FLOODWAY		
FLOODPLAIN		
HIGH WATER LEVEL (HWL)		
NORMAL WATER LEVEL (NWL)	···_	
DIRECTION OF SURFACE FLOW		
DITCH OR SWALE		
OVERFLOW RELIEF ROUTING		
SLOPE BANK	N	
TREE WITH TRUNK SIZE	★ ⁶ " (6"	
SOIL BORING		- — B-1
TOPSOIL PROBE	- -	- e ^{T-1}
FENCE LINE, WIRE OR SILT	X	×
FENCE LINE, CHAIN LINK OR IRON	O	o
FENCE LINE, WOOD OR PLASTIC		
CONCRETE SIDEWALK		
CURB AND GUTTER	<u></u>	
DEPRESSED CURB		
REVERSE PITCH CURB & GUTTER		+++++++++++++++++++++++++++++++++++++++
EASEMENT LINE		

ABBREVIATIONS

3L	BASE LINE	NWL	NORMAL WATER LEVEL
)	LONG CHORD OF CURVE	PC	POINT OF CURVATURE
2 & G	CURB AND GUTTER	PT	POINT OF TANGENCY
В	CATCH BASIN	PVI	POINT OF VERTICAL INTERSECTION
L	CENTERLINE	R	RADIUS
)	DEGREE OF CURVE	ROW	RIGHT-OF-WAY
P	EDGE OF PAVEMENT	SAN	SANITARY SEWER
F	FINISHED FLOOR	ST	STORM SEWER
G	FINISHED GRADE	Т	TANGENCY OF CURVE
Ľ	FLOW LINE	TB	TOP OF BANK
P	FLOODPLAIN	TC	TOP OF CURB
R	FRAME	TF	TOP OF FOUNDATION
W	FLOODWAY	TP	TOP OF PIPE
IWL	HIGH WATER LEVEL	TS	TOP OF SIDEWALK
٧V	INVERT	TW	TOP OF WALK
-	LENGTH OF CURVE	WM	WATER MAIN
ΙH	MANHOLE	Δ	INTERSECTION ANGLE

DOWNERS GROVE SANITARY DISTRICT NOTES

- 1. The Downers Grove Sanitary District Standards and Ordinances shall govern all sanitary sewer consturction.
- 2. The Sewer contractor shall schedule with the District inspections of the sanitary sewer construction 48 hours in advance of the start of the construction. (630-969-0664)
- 3. The constructed sewers shall pass all District requirements for air testing, televising and manhole vacuum tests (contractor to refer to DGSD specifications handout).
- 4. All sanitary sewers shall be PVC pipe with a SDR of 26, complying with ASTM gasket ASTM D3139.
- 5. "Flex Seal" non-shear couplings (with stainless steel shear ring) shall be used to connect pipes of dissimilar material or size.
- 6. Service connections to existing sewers shall be made by: A) Machine tap with the connection made with a Geneco Sealtite Sewer Saddle Tee, or Cascade Sewer Saddle Tee, or approved equal. B) A new tee fitting shall be cut into the main with connection made to the main

with non-shear couplings.

SURFACE WAT STATE OF ILLI COUNTY OF D	ER DRAINAGE STATEN NOIS) UPAGE) SS	IENT		
I, ROBERT W. THE OWNER O THAT TO THE COLLECTION A HAS A RIGHT GENERALLY AC ADJOINING PRO THE PROPERTY WITHIN A 100 MANAGEMENT 01, 2019.	GUDMUNDSON, A REG F THE LAND DEPICTEL BEST OF OUR KNOWL ND DIVERSION OF SU TO USE, AND THAT S CCEPTED ENGINEERING OPERTY RESULTING FI Y WHICH IS THE SUB YEAR SPECIAL FLOOD AGENCY. FLOODPLAIN	ISTERED PROFES D HEREON OR HI EDGE AND BELIE RFACE WATERS I SUCH SURFACE V PRACTICES SO ROM THE COSTRU IECT OF THIS SU D HAZARD AREA MAP PANEL NO	SION, S DU F, RI NTO VATEF AS I JCTIO BDIVI AS I . 17C	AL ENGINEER IN I ILY AUTHORIZED EASONABLE PROV PUBLIC AREAS O RS WILL BE PLAN TO REDUCE THE L N OF THIS SUBD SION OR ANY PA DENTIFIED BY TH 143C0158J AND N
DATED THIS	15TH	DA`	Y OF	MARCH,
				OWNER OR ATTO
				ENGINEER

Call before you dig.

now what's below.

PRELIMINARY ENGINEERING ESPLANADE PLACE

DOWNERS GROVE, ILLINOIS 60515

1. The contractor shall notify the following governmental agencies at least two 7. Except where modified by the contract documents, all work proposed hereon working days prior to commencement of construction: • Village of Downers Grove Engineering and Public Works Department

- (630 434 5500)• Downers Grove Sanitary District (630-969-0664)
- 2. The contractor shall notify all utility companies and arrange for their facilities to be located prior to work in any easement, right-of-way, or suspected utility location. Repair of any damage to existing facilities shall be the responsibility of the contractor. Utility locations shown herein are for graphic illustration only and are not to be relied upon.
- D2241, 160 psi pressure pipe push-on bell and spigot type with rubber ring seal 3. Prior to commencement of any offsite construction, the contractor shall secure written authorization that all offsite easements have been secured, and that permission has been granted to enter onto private property.
 - 4. Elevations shown herein reflect NAVD 1988 datum.
 - 5. The boundary and topographic survey data for this project is based on a field survey prepared by Edward J. Molloy and Associates, Inc. dated December 8, 2022. The contractor shall verify existing conditions prior to commencing construction and shall immediately notify the engineer in writing of any differing conditions.
 - 6. RWG Engineering, LLC, it's employees and agents are not responsible for the safety of any party at or on the construction site. Safety is the sole responsibility of the contractor, and any other entity performing work at the site. Neither the owner nor the engineer assumes any responsibility for job site safety or for the means, methods or sequences of construction.

made a part hereof:

GENERAL NOTES

- as prepared by I.D.O.T. latest edition.
- Illinois," latest edition.
- the I.E.P.A., latest edition.

- F. The National Electric Code.
- if a conflict in project specifications occurs.

latest edition.

ILLINOIS AND HAMILTON PARTNERS, ATTORNEY, DO HEREBY STATE, VISION HAS BEEN MADE FOR DR DRAINS WHICH THE SUBDIVIDER INED FOR IN ACCORDANCE WITH LIKELIHOOD OF DAMAGE TO IVISION. I HEREBY CERTIFY THAT RT THEREOF IS NOT LOCATED FEDERAL EMERGENCY No. 17043C0159J, DATED AUGUST

NOTE:

2023

ORNEY 0

THERE SHALL BE NO STAGING OF ANY TYPE ON PUBLIC PROPERTY OF ANY TYPE, THIS INCLUDES TRUCKS WAITING IN FRONT ON THE STREETS OR IN THE PARKING LOTS ACROSS THE STREET. COORDINATION OF DELIVERIES WILL NEED TO BE OUTLINED IN GREAT DETAILS SO THAT THERE WILL NEVER BE A TRAFFIC PROBLEM ON LACEY ROAD OR WOOD CREEK DRIVE.

NOTE: ONE FULL SIZE HARD COPY OF THE AS-BUILT FINAL GRADING SURVEY (PRINTED TO SCALE) MUST BE SUBMITTED PRIOR TO SCHEDULING THE FINAL STORMWATER/RIGHT-OF-WAY INSPECTION FOR THE PROJECT. AS APPLICABLE, IT SHALL INCLUDE, BUT IS NOT LIMITED TO, THE ITEMS LISTED IN SECTION 26.700.C OF THE DOWNERS GROVE MUNICIPAL CODE. AS APPLICABLE, IT SHALL ALSO INCLUDE THE AS-BUILT STORAGE VOLUME OF ANY RESIDENTIAL STORMWATER STORAGE (RSS) OR POST CONSTRUCTION BEST MANAGEMENT PRACTICES (PCBMPs). BEFORE THE PERMIT CAN BE CLOSED, AN ELECTRONIC COPY OF THE APPROVED AS-BUILT GRADING SURVEY IS REQUIRED.

Page 52 of 203

Page 54 of 203 SURFACE IMPROVEMENT LEGEND: PROPOSED CONCRETE PAVEMENT 6" PORTLAND CEMENT CONCRETE PAVEMENT (4,000 PSI W/ 6"x6" No. 6 WELDED WIRE MESH 6" AGGREGATE BASE COURSE CA-6, TYPE B EXISTING ASPHALT PAVEMENT EXISTING CONCRETE PAVEMENT
 PROPOSED CONCRETE SIDEWALK

 5" PORTLAND CEMENT CONCRETE (4,000 PSI)

 (8" AT DRIVEWAY CROSSING)

 4" AGGREGATE BASE COURSE CA-6, TYPE B
 EXISTING CONCRETE WALK PROPOSED ONSITE PARKING LOT ASPHALT PAVEMENT 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 BITUMINOUS TACK COAT (0.05 gal/sy) 2 1/2" HOT MIX ASPHALT BINDER COURSE, IL-19, N50 DIVERSE OF THE ACT OF TH EX. CURB AND GUTTER BITUMINOUS PRIME COAT MC-30 (0.35 gal/sy) 8" AGGREGATE BASE COURSE CA-6, TYPE B _____ CURB AND GUTTER (B6.12) SEE DETAIL SHEETS PROPOSED PUBLIC STREET ACCESS APRON IN R.O.W. 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 BITUMINOUS TACK COAT (0.05 gal/sy) 6" HOT MIX ASPHALT BINDER COURSE, IL-19, N50 BITUMINOUS PRIME COAT MC-30 (0.35 gal/sy) 6" AGGREGATE BASE COURSE CA-6, TYPE B THE REVERSED PITCH CURB AND GUTTER DEPRESSED CURB SECTION (SHADED) ADA CURB RAMP WITH DETECTABLE WARNING (REPLACABLE RED POLYMER COMPOSITE PLATES) (22) NUMBER OF PARKING STALLS PER AISLE <u>SIDEWALK_NOTE:</u> ADA DETECTABLE WARNINGS SHALL BE ABBREVIATIONS LEGEND (IN ADDITION TO TITLE SHEET LEGEND) INSTALLED AT ALL SIDEWALK CROSSINGS, BOTH PUBLIC AND PRIVATE. REFER TO DETAILS ON SHEET 15. FXISTIN PROPOSED BACK OF CURB FACE OF CURB EDGE OF PAVEMENT = = PROPERTY LINE FACE OF BUILDING FACE OF WALK (SIDEWALK) RIGHT OF WAY FW = ROW = BACK OF CURB TO BACK OF CURB SIDEWALK RADIUS BC/BC = SW = = RW = RETAINING WALL (TYP) = TYPICAL AN PLACE , ILLINOIS Δ PAVING ESPLANADE F DOWNERS GROVE, AND - 7 GEOMETRIC Õ ш S

NEW LOT 2

<u>_____</u>_____

December 01, 2023 11:41:01 a.m. AcadVer:24.2s (LMS Tech) Drawing: S:\70600522 - ESPLANADE MULTI-FAMILY\300_ENGINEERING\310_CADD\PRELIM\706_BASE.DWG

CONC

Ľ,

ngir

PROJECT NO. <u>706005</u>

SHEET

4 °F 15

DATE _____

SCALE ____

PROJ. MGR._____ PROJ. ASSOC.____

DRAWN BY ____

03/24/2

1'' = 4

е	Schedules							
	QTY	Manufacturer	Catalog	Description	Lamp Output	LLF	Input Power	
	9	Lithonia Lighting	DSX1 LED P4 40K 70CRI T5W	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 70 CRI Type 5 Wide	17013	0.9	123.94	
	1	Lithonia Lighting	DSX1 LED P4 40K 70CRI T2M	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 70 CRI Type 2 Medium	15849	0.9	123.94	
	9	Lithonia Lighting	DSX1 LED P4 40K 70CRI T4M	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 70 CRI Type 4 Medium	16272	0.9	123.94	
	2	Lithonia Lighting	DSX1 LED P2 40K 70CRI TFTM HS	D-Series Size 1 Area Luminaire P2 Performance Package 4000K CCT 70 CRI Forward Throw Houseside Shield	8367	0.9	67.7927	
	1	Lithonia Lighting	DSX1 LED P4 40K 70CRI T5W	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 70 CRI Type 5 Wide	17013	0.9	247.88	

	Symbol	Avg	Max	Min	Max/Min	Avg/Min	
	+	1.7 fc	4.2 fc	0.1 fc	42.0:1	17.0.1	
	+	0.0 fc	0.3 fc	0.0 fc	N/A	N/A	
line	+	0.0 fc	0.1 fc	0.0 fc	N/A	N/A	

1 ELECTRICAL PHOTOMETRIC SITE PLAN SCALE: 1" = 40'-0"

spanade MEP Pa

Ш

g

Page 58 of 203

Scale -Drawing No. E0.1 Electrical Photometric Site Plan

Designer

02/10/2023

Date

1 of 1

		A BORNEL A B	144.31 N82'09'36'W	-33'
DRAFTED BY: BJE PAGE: 1 OF 2 ORDER NO.: 230015 FILE: 30-39-11 PROJECT NO.: 111 NOV. 30, FEB. 16, REVISION	Image:	<u>AREA SUMMARY:</u> LOT 1: 401,909 SQ. FT. OR 9.2266 ACRES LOT 2: 173,004 SQ. FT. OR 3.9716 ACRES TOTAL: 574,913 SQ. FT. OR 13.1982 ACRES	FOR	REPARED BY: EDVARD J. MOLLOY & ASSOCIATES A DVISION OF THOMAS A. MOLLOY, LTD PROFESSIONAL LAND SURVEYING 1266 MARK STREET, BENSENVILE, ILLINOIS 6010 (630) 595-200 FAX:(630) 595-4700

FINAL PLAT OF SUBDIVISION

ESPLANADE PARCEL F2 SUBDIVISION

BEING A RESUBDIVISION IN THE SOUTHWEST 1/4 OF SECTION 30 AND THE NORTHWEST 1/4 OF SECTION 31, TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, DUPAGE COUNTY, ILLINOIS

OWNER'S CERTIFICATE AND SCHOOL DISTRICT STATEMENT

STATE OF ILLINOIS) SS COUNTY OF DUPAGE

HP/AG ESPLANADE AT LOCUST POINT-IV LIMITED PARTNERSHIP, DOES HEREBY CERTIFY THAT IT IS THE OWNER OF THE PROPERTY DESCRIBED HEREON AND THAT IT HAS CAUSED SAID PROPERTY TO BE SURVEYED AND PLATTED FOR THE PURPOSE OF RESUBDIVIDING SAME INTO TWO LOTS AS SHOWN HEREON FOR THE USES AND PURPOSES THEREIN SET FORTH AND DOES HEREBY ACKNOWLEDGE AND ADOPT THE SAME UNDER THE STYLE AND TITLE HEREON SHOWN. IT FURTHER CERTIFIES TO THE BEST OF ITS KNOWLEDGE, THAT THE LAND INCLUDED HEREIN FALLS WITHIN THE FOLLOWING SCHOOL DISTRICTS: GRADE SCHOOL DISTRICT #58, HIGH SCHOOL DISTRICT #99 AND COLLEGE OF DUPAGE DISCTRICT NO. 502.

SIGNED AT _____, THIS ____ DAY OF _____, A.D. 202__

HP/AG ESPLANADE AT LOCUST POINT-IV LIMITED PARTNERSHIP

_____ TITLE: ______ BY: __

NOTARY PUBLIC CERTIFICATE

STATE OF ILLINOIS) SS

COUNTY OF DUPOAGE)

I, _____, A NOTARY PUBLIC IN AND FOR SAID COUNTY, IN THE STATE AFORESAID, DO HEREBY CERTIFY THAT ______, A NOTARY PUBLIC IN AND FOR SAID COUNTY, IN THE LOCUST POINT-IV LIMITED PARTNERSHIP, PERSONALLY KNOWN TO ME TO BE THE SAME PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT, APPEARED BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGED THAT HE/SHE SIGNED AND DELIVERED THE SAID INSTRUMENT AS HIS/HER OWN FREE AND VOLUNTARY ACT AND AS THE FREE AND VOLUNTARY ACT OF SAID LIMITED PARTNERSHIP FOR THE USES AND PURPOSES THEREIN SET FORTH.

GIVEN UNDER MY HAND AND OFFICIAL SEAL THIS ____ DAY OF _____, A.D. 202__

MY COMMISSION EXPIRES: _____

NOTARY PUBLIC

PLAN COMMISSION OF THE VILLAGE OF DOWNERS GROVE

STATE OF ILLINOIS)

DUPAGE COUNTY CLERK CERTIFICATE

SS

STATE	OF	ILLINOIS)	
)	

COUNTY OF DUPAGE)

I, JEAN KACZMAREK, COUNTY CLERK OF DUPAGE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THERE ARE NO DELINQUENT GENERAL TAXES, NO UNPAID FORFEITED TAXES AND NO REDEEMABLE TAX SALES AGAINST ANY OF THE LAND INCLUDED IN THIS PLAT. I FURTHER CERTIFY THAT I HAVE RECEIVED ALL STATUTORY FEES IN CONNECTION WITH THE PLAT DEPICTED HEREON.

GIVEN UNDER MY HAND AND SEAL OF THE COUNTY CLERK OF DUPAGE COUNTY, ILLINOIS, THIS _____ DAY OF _____, A.D. 202__.

COUNTY CLERK

DUPAGE COUNTY RECORDER'S CERTIFICATE

STATE OF ILLINOIS) SS COUNTY OF DUPAGE)

THIS PLAT WAS FILED FOR RECORD IN THE RECORDER'S OFFICE OF DUPAGE COUNTY, ILLINOIS, ON THE ____ DAY OF _____, A.D. 202__ AT ____ O'CLOCK __M AS DOCUMENT NUMBER NUMBER

RECORDER OF DEEDS

DECLARATION OF RESTRICTIVE COVENANTS

THE UNDERSIGNED OWNER HEREBY DECLARES THAT THE REAL PROPERTY DESCRIBED IN AND DEPICTED ON THIS PLAT OF SUBDIVISION SHALL BE HELD, TRANSFERRED, SOLD, CONVEYED AND OCCUPIED SUBJECT TO THE FOLLOWING COVENANTS AND RESTRICTIONS:

(a) ALL PUBLIC UTILITY STRUCTURES AND FACILITIES, WHETHER LOCATED ON PUBLIC OR PRIVATE PROPERTY, SHALL BE CONSTRUCTED WHOLLY UNDERGROUND, EXCEPT FOR TRANSFORMERS, TRANSFORMER PADS, LIGHT POLES, REGULATORS, VALVES, MARKERS AND SIMILAR STRUCTURES APPROVED BY THE VILLAGE ENGINEER OF THE VILLAGE OF DOWNERS GROVE PRIOR TO RECORDING OF THIS PLAT OF SUBDIVISION.

(b) AN EASEMENT FOR SERVING THE SUBDIVISION, AND OTHER PROPERTY WITH STORM DRAINAGE, SANITARY SEWER, STREET LIGHTING, POTABLE WATER SERVICE, AND OTHER PUBLIC UTILITY SERVICES, IS HEREBY RESERVED FOR AND CRANTED TO THE VILLAGE OF DOWNERS CROVE AND DOWNERS CROVE

EASEMENT PROVISIONS

AN EASEMENT FOR SERVING THE SUBDIVISION AND OTHER PROPERTY WITH ELECTRIC AND COMMUNICATION SERVICE IS HEREBY RESERVED FOR AND GRANTED TO

COMMONWEALTH EDISON COMPANY AND AT&T TELEHOLDINGS INCORPORATED, ILLINOIS a.k.a. ILLINOIS BELL TELEPHONE COMPANY, GRANTEES,

THEIR RESPECTIVE LICENSEES, SUCCESSORS AND ASSIGNS JOINTLY AND SEVERALLY, TO CONSTRUCT, OPERATE, REPAIR, MAINTAIN, MODIFY, RECONSTRUCT, REPLACE, SUPPLEMENT, RELOCATE AND REMOVE, FROM TIME TO TIME, POLES, GUYS, ANCHORS, WIRES, CABLES, CONDUITS, MANHOLES, TRANSFORMERS, PEDESTALS, EQUIPMENT CABINETS OR OTHER FACILITIES USED IN CONNECTION WITH OVERHEAD AND UNDERGROUND TRANSMISSION AND DISTRIBUTION OF ELECTRICITY, COMMUNICATIONS, SOUNDS AND SIGNALS IN, OVER, UNDER, ACROSS, ALONG AND UPON THE SURFACE OF THE PROPERTY SHOWN WITHIN THE DASHED OR DOTTED LINES (OR SIMILAR DESIGNATION) ON THE PLAT AND MARKED "EASEMENT", "UTILITY EASEMENT", "PUBLIC UTILITY EASEMENT", "P.U.E." (OR SIMILAR DESIGNATION), THE PROPERTY DESIGNATED IN THE DECLARATION OF CONDOMINIUM AND/OR ON THIS PLAT AS "COMMON ELEMENTS", AND THE PROPERTY DESIGNATED ON THE PLAT AS "COMMON AREA OR AREAS", AND THE PROPERTY DESIGNATED ON THE PLAT FOR STREETS OR ALLEYS, WHETHER PUBLIC OR PRIVATE, TOGETHER WITH THE RIGHTS TO INSTALL REQUIRED SERVICE CONNECTIONS OVER OR UNDER THE SURFACE OF EACH LOT AND COMMON AREA OR AREAS TO SERVE IMPROVEMENTS THEREON, OR ON ADJACENT LOTS, AND COMMON AREA OR AREAS, THE RIGHT TO CUT, TRIM OR REMOVE TREES, BUSHES, ROOTS AND SAPLINGS AND TO CLEAR OBSTRUCTIONS FROM THE SURFACE AND SUBSURFACE AS MAY BE REASONABLY REQUIRED INCIDENT TO THE RIGHTS HEREIN GIVEN, AND THE RIGHT TO ENTER UPON THE SUBDIVIDED PROPERTY FOR ALL SUCH PURPOSES. OBSTRUCTIONS SHALL NOT BE PLACED OVER GRANTEES' FACILITIES OR IN, UPON OR OVER THE PROPERTY WITHIN THE DASHED OR DOTTED LINES (OR SIMILAR DESIGNATION) MARKED "EASEMENT", "UTILITY EASEMENT", "PUBLIC UTILITY EASEMENT", "P.U.E." (OR SIMILAR DESIGNATION) WITHOUT THE PRIOR WRITTEN CONSENT OF GRANTEES. AFTER INSTALLATION OF ANY SUCH FACILITIES, THE GRAD OF THE SUBDIVIDED PROPERTY SHALL NOT BE ALTERED IN A MANNER SO AS TO INTERFERE WITH THE PROPERTY OPERATION AND MAINTENANCE THEREOF.

THE TERM "COMMON ELEMENTS" SHALL HAVE THE MEANING SET FORTH FOR SUCH TERM IN THE "CONDOMINIUM PROPERTY ACT", CHAPTER 765 ILCS 605/2, AS AMENDED FROM TIME TO TIME.

THE TERM "COMMON AREA OR AREAS" IS DEFINED AS A LOT, PARCEL OR AREA OF REAL PROPERTY, THE BENEFICIAL USE AND ENJOYMENT OF WHICH IS RESERVED IN WHOLE OR AS AN APPURTENANCE TO THE SEPARATELY OWNED LOTS, PARCELS OR AREAS WITHIN THE PLANNED DEVELOPMENT, EVEN THOUGH SUCH BE OTHERWISE DESIGNATED ON THE PLAT BY TERMS SUCH AS "OUTLOTS", "COMMON ELEMENTS", "OPEN SPACE", "OPEN AREAS", "COMMON GROUND", "PARKING" AND "COMMON AREA". THE TERM "COMMON AREA OR AREAS", AND "COMMON ELEMENTS" INCLUDE REAL PROPERTY SURFACED WITH INTERIOR DRIVEWAYS AND WALKWAYS, BUT EXCLUDES REAL PROPERTY PHYSICALLY OCCUPIED BY A BUILDING, SERVICE BUSINESS DISTRICT OR STRUCTURE SUCH AS A POOL, RETENTION POND OR MECHANICAL EQUIPMENT.

RELOCATION OF FACILITIES WILL BE DONE BY GRANTEES AT COST OF THE GRANTOR/LOT OWNER, UPON WRITTEN REQUEST.

APPROVED BY THE PLAN COMMISSION OF THE VILLAGE OF DOWNERS GROVE, THIS DAY OF IN CONNECTION WITH THE DRAMAGES, ETHER CONTROL LASS ON THE PLAN. CHARMAN CHARMAN CHARMAN CHARMAN CHARMAN CHARMAN CHARMAN CHARMAN VILLAGE COUNCIL OF THE VILLAGE OF DOWNERS GROVE CHARMAN CHARMAN VILLAGE COUNCIL OF THE VILLAGE OF DOWNERS GROVE STATE OF ILLINOIS SS COUNTY OF DUPAGE SS COUNTY OF THE VILLAGE OF DOWNERS GROVE CHARMAN CONNECTOR WITH REST MAYOR SS COUNTY OF THE VILLAGE OF DOWNERS GROVE COUNTERS COUNCIL OF THE VILLAGE OF DOWNERS WHERAS, ALL OF THE VILLAGE OF DOWNERS SS COUNTY OF DUPAGE WHERAS, ALL OF THE PROFERINGEN ON THE UNITS OF THE PROFERINGEN ON THE UNITS OF THE PROFERINGEN ON THE UNITS OF OWNERS WHERAS, ALL OF THE PROFENSION OF THE VILLAGE OF DOWNERS WHERAS, ALL OF THE PROFERINGEN ON THE UNITS OF THE PROFENSION OF THE PROFENSION ON THE UNITS OF THE PROFENSION OF THE PROFENSION ON THE UNITS OF THE PROFENSION OF THE PR	PUBLIC WATER SUPPLY, TRANSMISSION LUES, SWITARY SEWICE, AND THER LICHTING SYSTEM, OR OTHER PUBLIC UTLITY SEWICE, AND THER TAMERGE "PUBLIC UTLITY AND/OF DOWINE COREGENT, OR SWILLAN THE TAMERGE "PUBLIC UTLITY AND/OF DOWINE COREGENT, OR SWILLAN THE ASSONAUT, REQUERE NOTE THE RIGHT TO CUIT, TIMM OR REMOVE TREES, BUSIES SASONAUT, REQUERE NOTE THE RIGHT TO CUIT, TIMM OR REMOVE TREES, BUSIES SASONAUT, REQUERE NOTE THE RIGHT TO CUIT, TIMM OR REMOVE TREES, BUSIES SASONAUT, REQUERE NOTE THE RIGHT OF CUIT, TIMM OR REMOVE TREES, BUSIES SASONAUT, REQUERE NOTE TO THE RIGHT REPORT WITHIN THE E SUBDINCED PROPERTY FOR ALL SUCH PURPOSES. OBSTRUCTIONS SHALL NOT STREET FACILIES, THE GRADE OF THE SUBDINGED PROPERTY SHALL NOT BE AS TO INTERFERE WITH THE PROPERT OF AND MAINTENANCE BE CONVECTO TO PURCHAGES SUBLICT TO THIS BECLAMATION TO THE END PROSED TO FURCHAGES SUBLICT TO THIS DECLAMATION TO THE AND STREET FACILIES, THE GRADE OF THE SUBDINGED PROPERTY SHALL NOT BE CONVECTO TO PURCHAGES SUBLICT TO THIS DECLAMATION TO THE END PROSED SHALL NUME TO THE BENEFT OF FACH AND ALL OF THE THE VILLAGE OF DOWNERS GROVE, LLINNOS, AND DROMENTY SHALL HAVE BECOME SUCH BEFORE OR AFTER THE DATE COTIVE HERS AND ASSIGNS, AND PROPERTY DISCREDED ON THE ATTACHED PLAT IS LOCATED ENTRELY WITHIN THE VILLAGE OF DOWNERS GROVE, LLINNOS, AND DISSING, RESTRICTIONS, COVENANTS, ARREMENTS, AND DISSING, RESTRICTIONS, CONDENS, COVENANTS, ARREMENTS, AND DISSING, ADMINISTRATORS, SUCCESSORS, GROWE THE ADALESSING. SONS, REMOVER, SUCCESSORS, GROWE THE ATORESSING HERE ADSINGLE OF DOWNERS GROVE, AND SHALL OF THE RECOVER WITH THE PROPERTY DO NOS RUNNING WITH AND BING AND OWING THE AFORESSING. SONS, RUNNING WITH AND PROPERTY TO WHONGSEVER OWNERS AND SUNNING WITH SAD PROPERTY T
CHAIRMAN APPROVED THE VILLAGE OF DOWNERS GROVE VILLAGE COUNCIL OF THE VILLAGE OF DOWNERS GROVE SS STATE OF ILLINOIS) APPROVED THIS DAY OF MAYOR HEREAS, ALL OF THE VILLAGE OF DOWNERS GROVE VILLAGE COLLECTOR CERTIFICATE SS VILLAGE COLLECTOR CERTIFICATE SS VILLAGE COLLECTOR CERTIFICATE COLLECTOR FOR THE VILLAGE OF DOWNERS GROVE. VILLAGE COLLECTOR CERTIFICATE SS VILLAGE COLLECTOR CERTIFICATE COLLECTOR FOR THE VILLAGE OF DOWNERS GROVE. VILLAGE COLLECTOR CERTIFICATE SS STATE OF ILLINOIS) SS COUNTY OF DUPAGE) SS COUNTY OF DU	M, Uder, Andross, Bellow, GM, Indologi III, E, Grobelli SHOW M MILITE STORWARTER GRO SEVERE ASSMULT, AND THE PROPERTY DESIGNATION ON THE LOSS, TOCCTHER WITH THE RIGHT TO CUIT, TINN OR REROVE TREES, BUSHES SECONARY TE CONTROL NO. NO. CUET, THE PROPERTY METHIN THE E SUBJURCE INCIDENT TO THE RIGHTS HEREIN SCHW, AND THE E SUBJURCED INCIDENT TO THE RIGHTS HEREIN SCHW, AND THE E SUBJURCED INCIDENT TO THE RIGHTS HEREIN SCHW, AND THE E SUBJURCED INCIDENT TO THE SUBJURCE PROPERTY SHALL NOT BE STORWARTER OF ROMERTY FOR ALL SUCH PROPERTY SHALL NOT DE BE CONVEYED TO PURCHASERS SUBJECT TO THIS DECLARATION TO THE END PROSED SHALL INVIRE TO THE BENEFTI OF FACH AND ALL OF THE THE VILLAGE OF DOWNERS ROUGH EFRORE OR AFTER THE DATE EDITION THE SHALL HAVE SHALL HAVE DECOME SUCH BEFORE OR AFTER THE DATE EDITION THE SHALL HAVE SHALL HAVE DECOME SUCH BEFORE OR AFTER THE DATE EDITION THE SHALL HAVE SHALL HAVE DECOME SUCH BEFORE OR AFTER THE DATE EDITION THE VILLAGE OF DOWNERS GROVE, ILLINOIS, AND DYSIONS, RESTRICTIONS, CONDITIONS, COVENNITS, AGREEMENTS, AND DIS SHALL RIVIT AND RIDE ALL OF SAD LOND AND SHALL AND EE ENFORCED ON THE ATTACHED PLAT IS LOCATED ENTIRELY WITHIN THE VILLAGE OF DOWNERS GROVE, ILLINOIS, AND ASSMUL AND EE ENFORCED ALL OF SAD LOND AND ASSMUL AND EE ENFORCED, RESTRICTIONS, CONDITIONS, COVENNITS, AGREEMENTS, AND DIS SHALL RIVIT AND RIDE ALL OF SAD DAND AND ASSMUL AND EE ENFORCED, RESTRICTIONS, CONSENS, GRAWTEES AND ASSIGNS SONS, FIRMS OR CORPORATIONS NOW OWNING THE AFORESADD PROPERTY DO DISS RUNNING WITH AND RIDE ROPORTION THE AFORESADD PROPERTY DO NIS RUNNING WITH SAD PROPERTY TO WHOMSDEER OWNED, TO WIT TO FIT HE VILLAGE, OVER THE STORMARTER FACILITES WITHIN THE PROPERTY TO OF THE VILLAGE, OVER THE STORMARTER FACILITES WITHIN THE PROPERTY TO FIT HE VILLAGE, OVER THE STORMARTER FACILITES WITHIN THE PROPERTY TO FIT HE VILLAGE, OVER THE STORMARTER FACILITES WITHIN THE PROPERTY TO FIT HE VILLAGE, OVER THE STORMARTER FACILITES WITHIN THE PROPERTY TO FIT HE VILLAGE, OVER THE STORMARTER FAC
PLAT FOR STREETS AND A AND ROOTS AS MAY BE R VILLAGE COUNCIL OF THE VILLAGE OF DOWNERS GROVE STATE OF ILLINOIS STATE OF ILLINOIS SCOUNTY OF DUPAGE APROVED THIS ADD ROOTS ADD ROOTS ADD ROOTS ADD ROOTS COUNTY OF DUPAGE SCOUNTY OF DUPAGE ADD ROOTS ADD ROOTS MATOR MATOR VILLAGE COLLECTOR CERTIFICATE STATE OF ILLINOIS VILLAGE COLLECTOR CERTIFICATE STATE OF ILLINOIS VILLAGE COLLECTOR CERTIFICATE STATE OF ILLINOIS STATE OF ILLINOIS STATE OF ILLINOIS VILLAGE COLLECTOR CERTIFICATE STATE OF ILLINOIS STATE OF ILLINOIS <td>Let's TodETHER WITH THE RIGHT TO CUT, TRIM OR RELAVE TREES, BUSHES REAVABLY REQUIRED INCERT TO THE RIGHT HEREIN GRVN, AND THE E SUBDIVIED IROPERTY FOR ALL SUCH PURPOSES. DESTRUCTIONS SHALL NITES' FACULTES OR IN, UPON OR OVER, THE PROPERTY WITHIN THE SEMENT WITHOUT THE PRORE WITTEN CONSENT OF GRAVIESS. AFTER I HOULTS THE SUBDIVIED OF PORPATION AND MAINTENANCE E CONVEYED TO PURCHASERS SUBJECT TO THIS DECLARATION TO THE END POSOS SHALL NUMEE TO THE ENERTI OF EACH AND ALL OF THE E CONVEYED TO PURCHASERS SUBJECT TO THIS DECLARATION TO THE END POSOS SHALL HAVE TO THE BEENT OF EACH AND ALL OF THE I'S WIEHTER THEY SHALL HAVE BECOME SUCH BEFORE OR AFTER THE DATE ECTIVE HER AND ASSIONS, AND PROPERTY DESCRIBED ON THE ATTACHED PLAT IS LOCATED ENTIRELY WITHIN THE VILLAGE OF DOWNERS GROVE, LILLINGS, MD DVISIONS, RESTRICTIONS, CONDITIONS, COVENANTS, AGREEMENTS, AND DVISIONS, RESTRICTIONS, CONDITIONS, COVENANTS, AGREEMENTS, AND DVISIONS, RESTRICTIONS, CONDITIONS, COVENANTS, AGREEMENTS, AND DVISIONS, RESTRICTIONS, COMPANIES, MAID LAND AND SHALL DS SHALL RUN WITH AND BND ALL OF SHID LOTS AND LONG AND SHALL DS SHALL RUN WITH AND BND ALL OF SHID LOTS AND LONG AND SHALL DS SHALL RUN WITH AND BND ALL OF SHID DOWNERS GROVE A SUBJECTED TO NER ADMINISTRATORS, SUCCESSORS, GRAVITES AND ASSIGNS. DNS, RINKS OR CORPORATIONS NOW OWNING THE AFORESAND PROPERTY DO TI THEY OF ANY OF THE DERSON, FIRM OR COMPORESAND HEREST ENDUCINED TO NER NUNNING WITH SADD PROPERTY TO WINNOGENER OWNED. D THE ULLAGE OF DOWNERS GROVE A STORWARTER MANAGEMENT EASEMENT TO PRIVATELY-OWNED LAND FOR THE REASONABLE EXERCISE OF THE RICHTS ER SHALL BE RESPONDENT TO INFORMATER MANAGEMENT EASEMENT TO PRIVATELY-OWNED LAND FOR THE REASONABLE EXERCISE OF THE RICHTS ER REALL BE RESPONDENTE TO INSPECT AND MAINTEMATER ER REALL ER RESPONDENTE ON THE REASONABLE EXERCISE OF THE RICHTS TO THE VILLAGE OF ON WINN GO AND AND THE STORWARTER REASONABLE EXERCISE OF THE RICHTS TO THE VILLAGE OF ON THE REASONABLE EXERCISE OF THE RICHTS TO THE REALDED IN APPROYED FLANS. DISTRUCTIONS OF ANY THE</td>	Let's TodETHER WITH THE RIGHT TO CUT, TRIM OR RELAVE TREES, BUSHES REAVABLY REQUIRED INCERT TO THE RIGHT HEREIN GRVN, AND THE E SUBDIVIED IROPERTY FOR ALL SUCH PURPOSES. DESTRUCTIONS SHALL NITES' FACULTES OR IN, UPON OR OVER, THE PROPERTY WITHIN THE SEMENT WITHOUT THE PRORE WITTEN CONSENT OF GRAVIESS. AFTER I HOULTS THE SUBDIVIED OF PORPATION AND MAINTENANCE E CONVEYED TO PURCHASERS SUBJECT TO THIS DECLARATION TO THE END POSOS SHALL NUMEE TO THE ENERTI OF EACH AND ALL OF THE E CONVEYED TO PURCHASERS SUBJECT TO THIS DECLARATION TO THE END POSOS SHALL HAVE TO THE BEENT OF EACH AND ALL OF THE I'S WIEHTER THEY SHALL HAVE BECOME SUCH BEFORE OR AFTER THE DATE ECTIVE HER AND ASSIONS, AND PROPERTY DESCRIBED ON THE ATTACHED PLAT IS LOCATED ENTIRELY WITHIN THE VILLAGE OF DOWNERS GROVE, LILLINGS, MD DVISIONS, RESTRICTIONS, CONDITIONS, COVENANTS, AGREEMENTS, AND DVISIONS, RESTRICTIONS, CONDITIONS, COVENANTS, AGREEMENTS, AND DVISIONS, RESTRICTIONS, CONDITIONS, COVENANTS, AGREEMENTS, AND DVISIONS, RESTRICTIONS, COMPANIES, MAID LAND AND SHALL DS SHALL RUN WITH AND BND ALL OF SHID LOTS AND LONG AND SHALL DS SHALL RUN WITH AND BND ALL OF SHID LOTS AND LONG AND SHALL DS SHALL RUN WITH AND BND ALL OF SHID DOWNERS GROVE A SUBJECTED TO NER ADMINISTRATORS, SUCCESSORS, GRAVITES AND ASSIGNS. DNS, RINKS OR CORPORATIONS NOW OWNING THE AFORESAND PROPERTY DO TI THEY OF ANY OF THE DERSON, FIRM OR COMPORESAND HEREST ENDUCINED TO NER NUNNING WITH SADD PROPERTY TO WINNOGENER OWNED. D THE ULLAGE OF DOWNERS GROVE A STORWARTER MANAGEMENT EASEMENT TO PRIVATELY-OWNED LAND FOR THE REASONABLE EXERCISE OF THE RICHTS ER SHALL BE RESPONDENT TO INFORMATER MANAGEMENT EASEMENT TO PRIVATELY-OWNED LAND FOR THE REASONABLE EXERCISE OF THE RICHTS ER REALL BE RESPONDENTE TO INSPECT AND MAINTEMATER ER REALL ER RESPONDENTE ON THE REASONABLE EXERCISE OF THE RICHTS TO THE VILLAGE OF ON WINN GO AND AND THE STORWARTER REASONABLE EXERCISE OF THE RICHTS TO THE VILLAGE OF ON THE REASONABLE EXERCISE OF THE RICHTS TO THE REALDED IN APPROYED FLANS. DISTRUCTIONS OF ANY THE
VILLAGE COUNCIL OF THE VILLAGE OF DOWNERS GROVE NOT BE PLACE OF MANNERS STATE OF ILLINOIS STATE OF ILLINOIS SS COUNTY OF DUPAGE SS COUNTY OF DUPAGE AD. 202 BY THE COUNCIL OF THE VILLAGE OF DOWNERS MAYOR	E SUBJUILDE PROPERTY FUN ALL SUB-PROPERTY WITHIN THE REES FACILITIES. THE GRADE OF THE SUBJUED PROPERTY WITHIN THE AS TO INTERFERE WITH THE PROPER OPERATION AND MAINTENANCE BE CONVEYED TO PURCHASERS SUBJECT TO THIS DECLARATION TO THE END PROPERTY DESCRIBED ON THE DEVERTION EACH AND ALL OF THE EVENTHERE THE PROPER OPERATION AND MAINTENANCE BE CONVEYED TO PURCHASERS SUBJECT TO THIS DECLARATION TO THE END PROPERTY DESCRIBED ON THE ATLACHCE PLAT IS LOCATED ENTRELY WITHIN THE VILAGE TO THE SUBJECT TO THIS DECLARATION TO THE END PROPERTY DESCRIBED ON THE ATLACHCE PLAT IS LOCATED ENTRELY WITHIN THE VILAGE OF DOWNERS GROVE, LLINOS, AND ONSIDUE, RESTRUTIONS, CONTITIONS, COVEMANTS, ADREEMENTS, AND DISSING, RESTRUTIONS, CONTITIONS, COVEMANTS, MOREEMENTS, AND DISSING, RESTRUTIONS, CONTITIONS, COVEMANTS, MOREEMENTS, AND DISSING, RESTRUTIONS, CONTITIONS, COVEMANTS, MOREEMENTS, AND DISSING, RESTRUTIONS, CONTROLOGY, COVEMANTS, MOREEMENTS, AND DISSING, RESTRUTIONS, GONDOWING THE AFORESAID PROPERTY DO TI THEY OR ANY PERSON, FINA OR CORPORATION HERAFTER ACQUIRING, ANY DISSING, RUNNING AND EDROPERTY TO MOMOREVER OWNED. TO WIT: DISSING, RUNNING AND CONVING THE AFORESAID PROPERTY DO DISSING, RUNNING AND CONVING THE AFORESAID PROPERTY TO PRIVILAGE OF DOWNERS GROVE A STORMWATER MANAGEMENT ESSEMINT TO PRIVILLAGE OF DOWNERS GROVE A STORMWATER MANAGEMENT ESSEMINT TO PRIVILLAGE OF DIVERSING AND SHALL BE FLACED ON SADD OTHER CHANGE OF AND FROMENCE OF ANY TORMWATER RER CHANGE OF AND FROMENCE OF ANY TORMWATER RER CHANGE ON ON THE PROPERTY THAT THE PROPERTY TO PRIVILLAGE OF DIVERS GOVEN THE AFORESAID TO REAL STORMED IN APPROVED PLANS. EVERTIONED AND APPROVED PLANS. EVERTIONED AND APPROVED PLANS. EVERTIONED AND APPROVED PLANS. EVERTIONES OF ANY CHANGE OF ANY THAT THE P
YILLAGE COUNCIL OF THE VILLAGE OF DOWNERS GROVE INSTALLATION OF ANY SUC ALTERED IN A MANNER SC THERED IN A MANNER SC THERED, MAN THER RESI WHEREAS, ALL OF THE PR COMPARE LIMITS OF THE OWNERS OF SUCH LO THE CORPORATE LIMITS OF THE OWNERS OF OWNER VILLAGE CLERK WHEREAS, THE AFORESAND THE CORPORATE LIMITS OF THE OWNERS OF OWNER CONSENS THE AFORESAND THE CORPORATE LIMITS OF THE OWNERS OF OWNER CONSENS THE AFORESAND THE COMPARE SC CONSENS THE AFORESAND THE COMPARE SC CONSENS THE AFORESAND THE COMPARE SC THE FOR THE THE SC THE OWNER OF THE VILLAGE OF DOWNERS GROVE, DO HEREBY A DA RIGHT OF ANY SUC STATE OF THE VILLAGE OF DOWNERS GROVE. OWNER THE REST WHEREAS, ALL OF THE PR CONSENS THE AFORESAND THE FORD MANNER SC THE OWNER OF THE VILLAGE STATE OF ILLINOIS SC COUNTY OF DUPAGE SC COLLECTOR OF THE VILLAGE OF DOWNERS GROVE. NOW, THEREFOR NAMNER SC THE EXEMPTION STALLENTS THE THE SC THE AFORE MANNER SC SC CONSENS THE AFORE THE VILLAGE OF DOWNERS GROVE. SC COLLECTOR OF THE VILLAGE OF DOWNERS GROVE SC CONSENS THE AFORE SC CONSENS THE FACILITE SC SC CONSENS THE FACILITE SC SC CONSENS THE FACILITIES SC	H FACILITES, THE GRADE OF THE SUBDIVICED PROPERTY SHALL NOT BE AS TO INTERFERE WITH THE PROPER OPERATION AND MAINTENNACE BE CONVEYED TO PURCHASERS SUBJECT TO THIS DECLARATION TO THE END POPOETRY DESCRIBED ON THE BENEFTI OF EACH AND ALL OF THE TS WHETHER THEY SHALL HAVE BEENEFTI OF EACH AND ALL OF THE DETTHE HERS MUD ASSIGNS, AND PROPERTY DESCRIBED ON THE ATTACHED PLAT IS LOCATED ENTIRELY WITHIN "THE VILLAGE OF DOWNERS GROVE, ILLINOIS, AND OVISIONS, RESTRICTIONS, CONDITIONS, COVENNITS, AGREEMENTS, AND DS SHALL RUN WITH AND BIND ALL OF SAD LOTS AND LAND AND SHALL N, AND BE ENFORCEMELE BY THE VILLAGE OF DOWNERS GROVE, ILLINOIS, AND OF ANY OF THE LOTS OF LAND COMPRISED WITHIN SAD PLAT, AND THER TORS, ADMINISTRATORS, SUCCESSORS, GRANETES AND ASSIGNS. SONS, FIRMS OR CORPORATIONS NOW OWNING THE AFORESAD PROPERTY DO THEY LLAGE OF DOWNERS GROVE, ILLINOIS, AND THER TORS, ADMINISTRATORS, SUCCESSORS, GRANETS AND HERE SONS, THEY OR ANY DERESSON, FOR ANY THE HEREBY SUBJECTED TO THEY OR ANY DERESSON, FOR ANY THERE AND ASSIGNS. USING WITH SAID PROPERTY TO WHOMSOEVER OWNED, TO WIT: O THE VILLAGE OF DOWNERS GROVE A STORMWATER MANAGEMENT EASURENT TO FIRME AND ROVER STORWATER MANAGEMENT EASURENT TO PRIVELY-OWNED LAND FOR THE REASONABLE EXERCISE OF THE RIGHTS EER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER NO BUILDINGS OR STRUCTURES OF ANY KIND SHALL BE PLACED ON SAD OTHER CHANCE BE AND EON THE FROOPERTY THE RIGHTS EER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER NO BUILLINGS OR STRUCTURES OF ANY KIND SHALL BE PLACED ON SAD OTHER CHANCE BE ANDE ON THE RADOPERTY THAT MIGHT MATERIALLY GREATENT, OFERENTIA RADE ON THE RADOPERTY THAT MIGHT MATERIALLY OTHER CHANCE BE ANDE ON THE ROOPERTY THAT THE STORMWATER NO BUILLINGS OR STRUCTURES OF ANY KIND SHALL BE PLACED ON SAD OTHER CHANCE BE ANDE ON THE ROOPERTY THAT THE STORMWATER DETERMINE, IN ITS SOLE AND ASSOLUTED ISSUETION OR DISTRICTURES OF MARERALLY PRODUCE THE STORMWATER DETENTION OR DIST AD THERE AND FOR CONTINUE DEASTRUCTURES OF ANY CONTAIL THE STORMWATER
STATE OF ILLINOIS) SS COUNTY OF DUPAGE) SS COUNTY OF DUPAGE) SS APPROVED THIS DAY OF, A.D. 202 BY THE COUNCIL OF THE VILLAGE OF DOWNERS WHEREAS, THE AFORESAID THEREOF, AND THEIR RESS MAYOR WHEREAS, THE AFORESAID THE CORPORT WHEREAS, THE AFORESAID THE CORPORT WHEREAS, THE AFORESAID THE CORPORT WHEREAS, THE AFORESAID THE CORPORT WHEREAS, THE AFORESAID THE CORPORT WILLAGE CLERK WHEREAS, THE AFORESAID THE CORPORT WHEREAS, THE AFORESAID THE CORPORT WHEREAS, THE AFORESAID THE CORPORT VILLAGE CLERK SS WHEREAS, THE AFORESAID THE CORPORT WHEREAS, THE AFORESAID THE CORPORT VILLAGE CLERK SS SS WHEREAS, THE AFORESAID THE CORPORT OR UTS SHOW THE FOLLOWING RESTRICTIC VILLAGE CLERK SS SS SS COUNTY OF DUPAGE SS COUNTY OF DUPAGE SS SS SS COULECTOR CERTIFICATE SS STATE OF ILLINOIS SS SS COLLECTOR CERTIFICATE SS COLLECTOR OF THAT HAVE NOT BEEN APPORTIONED AGAINST THE TRACT OF LAND INCLUDED CONTRACTORE OF ANY MERE FACILITIES COLLECTOR OF THAT HAVE NOT BEEN APPORTIONED AGAINST THE TRACT OF LAND INCLUDED COLLECTOR OF THE VILLAGE OF DOWNERS GROVE NOW THE FORE HAVE COLLECTO	BE CONVEYED TO PURCHASERS SUBJECT TO THIS DECLARATION TO THE END (POSED SHALL INVER TO THE DEVIENT OF CACH AND ALL OF THE THE VIENTER TO THE DEVIENT OF CACH AND ALL OF THE DEVIENT PESSIONES AND ASSIGNS, AND PROPERTY DESCRIBED ON THE ATTACHED PLAT IS LOCATED ENTIRELY WITHIN THE VILLAGE OF DOWNERS (ROVE, ILLINOIS, AND DISIONS, RESTRICTIONS, CONDITIONS, COVENANTS, AGREEMENTS, AND DISIONS, RESTRICTIONS, CONDITIONS, COVENANTS, AGREEMENTS, AND DISIONS, RESTRICTIONS, CONDITIONS, COVENANTS, AGREEMENTS, AND DISIONS, PRESTRICTIONS, CONDITIONS, COVENANTS, AGREEMENTS, AND DISIONS, PRESTRICTIONS, CONDITIONS, COVENANTS, AGREEMENTS, AND DISIONS, PRESTRICTIONS, CONDITIONS, COVENANTS, AGREEMENTS, AND DISIONS, CONSTRUCTIONS, CONDITIONS, COVENANTS, AGREEMENTS, AND DISIONS, CONSTRUCTIONS, CONDITIONS, COVENANTS, AGREEMENTS, AND DISIS, ADMINISTRATORS, SUCCESSORS, GRANHEES AND ASSIGNS. DISIS, FIRNS OR CORPORATIONS NOW OWING THE AFORESAID PROPERTY DO THE VILLAGE OF DOWNERS GROVE A STORMWATER FAIL AFORESAID PROPERTY DO TO HEV VILLAGE OF DOWNERS GROVE A STORMWATER MANAGEMENT EASEMENT TO FIT HEV CRANHE DISING ARE HEREBY SUBJECTED TO DISIS RUNNING WITH SAID PROPERTY TO WHOMSOEVER OWNED, TO WIT: D HE VILLAGE OF DOWNERS GROVE A STORMWATER FAILURES WITHIN THE PROPERTY TO FIT HEV CRANHE DISING THE REASONABLE EXERCISE OF THE RESONMATER NO BUILDINGS OR STRUCTURES OF ANY KIND SHALL BE PLACED ON SAID OTHER, CHANGE BE ANDE CON THE PROPERTY THAN MART THE WANTER RES SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER NO BUILDINGS OR STRUCTURES OF ANY KIND SHALL BE PLACED ON SAID OTHER CHANGE BE ANDE ON THE PROPERTY THAN MART THE WANTER REP SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER NO BUILDINGS OR STRUCTURES OF ANY KIND SHALL BE PLACED ON SAID OTHER CHANGE BE ANDE ON THE PROPERTY THAN AND THE MART REP PROVIDED IN APPROVED PLANS. DISTRIBUTIONS ON STRUCTURES OF ANY KIND SHALL BE PLACED ON SAID OTHER FACILITIES, ON MATERNALLY REDUCE THE STORMWATER DETENTION OR DISTRUBUTIONS ON STRUCTURES OF AND
COUNTY OF DUPAGE SS APPROVED THIS DAY OF, AD. 202 BY THE COUNCIL OF THE VILLAGE OF DOWNERS THAT THÉ RESTRICTIONS IN PURCHASERS OF SUCH LO THEREOF, AND THEIR RESS MAYOR MAYOR WHEREAS, THE AFORESAD UNIT HE CONFORTE LIMITS OF THE COMPORTE LIMITS OF THE OWNERS OF SUCH LO THE RESPECTIVE HERE, SECON VILLAGE COLLECTOR CERTIFICATE NOW, THEREFOR, ALL PER COVERANT AND ARGEE THA PROPERTY OR LOTS SHOW THE FOLLOWING RESTRICTION SS COUNTY OF DUPAGE SS COLLECTOR FOR THE VILLAGE OF DOWNERS GROVE, DO HEREBY IN THIS PLAT. COLLECTOR FOR THE VILLAGE OF DOWNERS GROVE, DO HEREBY IN THIS PLAT. DATED THIS DAY OF, AD. 202 IN THE EVENT THE VILLAGE OF DOWNERS GROVE IN THE EVENT THE VILLAGE STORMWATER FACILITIES ON THE VILLAGE OCOLLECTOR OF THE VILLAGE OF DOWNERS GROVE IN THE EVENT THE VILLAGE STORMWATER FACILITIES	IPOSED SHALL INURE TO THE BENEFIT OF EACH AND ALL OF THE TS WHETHER THEY SHALL HAVE BECOME SUCH BEFORE OR AFTER THE DATE ECTIVE HEIRS AND ASSIGNS, AND PROPERTY DESCRIBED ON THE ATTACHED PLAT IS LOCATED ENTIRELY WITHIN THE VILLAGE OF DOWNERS GROVE, ILLINOIS, AND OVISIONS, RESTRICTIONS, CONDITIONS, COVENANTS, AGREEMENTS, AND ED SHALL RUN WITH AND BIND ALL OF SAID LOTS AND LAND AND SHALL S, AND BE ENRORCEABLE BY THE VILLAGE OF DOWNERS GROVE, ILLINOIS, AND DY ANY OF THE LOTS OF LAND COMPRISED WITHIN SAID PLAT, AND THEIR ROSS, DUMINISTRATORS, SUCCESSORS, GRANTEES AND ASSIGNS. SIONS, FIRMS OR CORPORATIONS NOW OWNING THE AFORESAID PROPERTY DO AT THEY OR ANY PERSON, FIRM OR CORPORATION HEREATER ACQUIRING ANY N UPON THE ATTACHED PLAT OF SUBDISION ARE HEREFY SUBJECTED TO DNS RUNNING WITH SAID PROPERTY TO WHOMSOEVER OWNED, TO WIT: D THE VILLAGE OF DOWNERS GROVE A STORMWATER MANAGEMENT EASEMENT TO FTHE VILLAGE, OVER THE STORMWATER FACILITIES WITHIN THE PROPERTY TO PRIVATELY-OWNED LAND FOR THE RESCONDED TO THE RESONABLE EXERCISE OF THE RIGHTS SEER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER NO BULDINGS OR STRUCTURES OF ANY KIND SHALL BE PLACED ON SAID OTHER CHANGE BE MADE ON THE PROPERTY THA MIDDISTRATER FER FACILIES (OR MATERIALLY REDUCE THE STORMWATER MADAGE OF ANY STORMWATER TER DRAINGE BE MADE ON THE PROPERTY THAT MIDDISTRATER SEER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER FER FACILITIES; OR MATERIALLY REDUCE THE STORMWATER DETENTION OR CONTINUED MAINTENNACE OF ANY STORMWATER FER FACILITIES; OR MATERIALLY REDUCE THE STORMWATER DETENTION OR CONTINUED MAINTENNACE OF ANY STORMWATER FER FACILITIES; OR MATERIALLY REDUCE THE STORMWATER DETENTION OR SO AS PROVIDED IN APPROVED PLANS. IS DOT ENDED IN APPROVED PLANS.
APPROVED THIS DAY OF, A.D. 202 BY THE COUNCIL OF THE VILLAGE OF DOWNERS THENEOF, AND THEIR RESS GROVE. WHEREAS, THE AFORESAID THE COPORATE LIMITS OF MAYOR WHEREAS, ALL OF THE PROVENTION OF THE VILLAGE OF DOWNERS WHEREAS, ALL OF THE PROVENTION OF THE VILLAGE OF THE VILLAGE OF THE VILLAGE OF THE PROVENTION OF THE REPENT OF THE OWNERS OR OWNERT VILLAGE CLERK VILLAGE COLLECTOR CERTIFICATE NOW, THEREFOR, ALL PERSON STATE OF ILLINOIS SS OWNERT OF THE VILLAGE OF DOWNERS GROVE, DO HEREBY I,	PROPERTY DESCRIBED ON THE ATTACHED PLAT IS LOCATED ENTIRELY WITHIN THE VILLAGE OF DOWNERS GROVE, ILLINOIS, AND DVISIONS, RESTRICTIONS, CONDITIONS, COVENANTS, AGREEMENTS, AND ED SHALL RUN WITH AND BIND ALL OF SAD LOTS AND LAND SHALL DS SHALL RUN WITH AND BIND ALL OF SAD LOTS AND LAND SHALL DS SHALL RUN WITH AND BIND ALL OF SAD LOTS AND DATA AND SHALL OFFS, ADMINISTRATORS, SUCCESSORS, GRANEES AND ASSIGNS. SONS, FIRMS OR CORPORATIONS NOW OWNING THE AFORESAID PROPERTY DO TI THEY OR ANY PERSON, FIRM OR CORPORATION HEREATER ACQUIRING ANY N UPON THE ATTACHED PLAT OF SUBDIVISION ARE HEREBY SUBJECTED TO DNS RUNNING WITH SAD PROPERTY TO WHOMSOEVER OWNED, TO WIT: D THE VILLAGE OF DOWNERS GROVE A STORWMATER MANAGEMENT EASEMENT TO FTHEVILLAGE, OVER THE STORWMATER FACILIES WITHIN THE PROPERTY TO PRIVATELY-OWNED LAND FOR THE REASONABLE EXERCISE OF THE RIGHTS SEER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER NO BUILDINGS OR STRUCTURES OF ANY KIND SHALL BE PLACED ON SAD SEER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER NO BUILDINGS OR STRUCTURES OF ANY KIND SHALL BE PLACED ON SAD SEER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER NO BUILDINGS OR STRUCTURES OF THE REASONABLE EXERCISE OF THE RIGHTS SEER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER NO BUILDINGS OR STRUCTURES OF THE PROPERTY THE WATER FER FACULTIES; OR MAITENANCE OF ANY STORWMATER SEER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER SEER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER SEER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER SEER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER SEER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER SEER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER SEER SHALL BE RESPONSIBLE TO RINK THE REALLY REQUCE THE STORWMATER SEER SHALL BE RESPONSIBLE TO RINK ARC PROPERY OFTAND OF THE PROPERY THATER SEER SHALL BE RESPONSIBLE TO RINK PROPERY OFTAND OF THE STORMWATER SEER SH
MAYOR THE CORPORATE LIMITS OF MAYOR WHEREAS, ALL OF THE PR VILLAGE CLERK CONTANT IN URRE TO THE BENEFIT OF VILLAGE CLERK NOW, THEREFOR, ALL PER VILLAGE COLLECTOR CERTIFICATE NOW, THEREFOR, ALL PER STATE OF ILLINOIS) STATE OF ILLINOIS) I,	THE VILLAGE OF DOWNERS GROVE, ILLINOIS, AND OWISIONS, RESTRICTIONS, COVENANTS, AGREEMENTS, AND DE SHALL RUN WITH AND BIND ALL OF SAID LOTS AND LAND AND SHALL , AND BE ENFORCEABLE BY THE VILLAGE OF DOWNERS GROVE, ILLINOIS, AND DF ANY OF THE LOTS OF LAND COMPRISED WITHIN SAID FLAT, AND THEIR TORS, ADMINISTRATORS, SUCCESSORS, GRANTEES AND ASSIGNS. SONS, FIRMS OR CORPORATIONS NOW OWNING THE AFORESAID PROPERTY DO T THEY OR ANY PERSON, FIRM OR CORPORATION HEREAFTER ACQUIRING ANY N UPON THE ATTACHED PLAT OF SUBDIVISION ARE HEREBY TE BUJECTED TO NS RUNNING WITH SAID PROPERTY TO WHOMSOEVER OWNED, TO WIT: D THE VILLAGE OF DOWNERS GROVE A STORWATER MANAGEMENT EASEMENT TO FIT VILLAGE, OVER THE STORWATER FACILITES WITHIN THE PROPERTY TO PRIVATELY-OWNED LAND FOR THE REASONABLE EXERCISE OF THE RIGHTS WER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORWATER NO BUILDINGS OR STRUCTURES OF ANY KIND SHALL BE PLACED ON SAID OTHER CHANCE BE MADE ON THE PROPERTY THIGHT MARTERALLY GEMENT, OPERATION OR CONTINUED MAINTAIN THE STORWATER RE SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORWATER TER DRAINAGE IN OR ON THE PROPERTY THE WITH MICH THE WATER TER DRAINAGE IN OR ON THE PROPERTY THE WITH THE WATER TER REALLY REDUCE THE STORWATER FACILITIES WITHIN THE WATER TER DRAINAGE IN OR ON THE PROPERTY THE WATER TER DRAINAGE IN OR ON THE PROPERTY THE WATER TER DRAINAGE IN OR ON THE PROPERTY. THAT THE WATER TER DRAINAGE IN OR ON THE PROPERTY. THAT THE WATER TER DRAINAGE IN OR ON THE PROPERTY THE WATER TER DRAINAGE IN OR ON THE PROPERTY. SUBJECTED ON OR SOF AS PROVUED IN ANS.
MAYOR WHEREAS, ALL OF THE PRE WAYOR CHARGES HEREIN CONTAIN WILLAGE CLERK CONTAIN VILLAGE CLERK COVENANT AND AGREE THA VILLAGE COLLECTOR CERTIFICATE NOW, THEREFOR, ALL PER STATE OF ILLINOIS) STATE OF ILLINOIS) SS COUNTY OF DUPAGE I, COLLECTOR FOR THE VILLAGE OF DOWNERS GROVE, DO HEREBY FOR THE USE AND BENEFI CERTIFY THAT THERE ARE NO DELINQUENT OR UNPAID CURRENT OR FORFEITED SPECIAL ASSESSMENTS OR ANY AFECT THE PROPER MANA DEFERRED INSTALLMENTS THEREOF THAT HAVE NOT BEEN APPORTIONED AGAINST THE TRACT OF LAND INCLUDED CONTRACTOR'S OR AGAINST THE TRACT OF LAND INCLUDED DATED THIS DAY OF, A.D. 202 AD. 202 ZOLLECTOR OF THE VILLAGE OF DOWNERS GROVE CONTRACTOR'S OR AGENES COLLECTOR OF THE VILLAGE OF DOWNERS GROVE CONTRACTOR'S OR AGENES COLLECTOR OF THE VILLAGE OF DOWNERS GROVE CONTRACTOR'S OR AGENES COLLECTOR OF THE VILLAGE OF DOWNERS GROVE CONTRACTOR'S OR AGENES COLLECTOR OF THE VILLAGE OF DOWNERS GROVE CONTRACTOR'S OR AGENES COLLECTOR OF THE VILLAGE OF DOWNERS GROVE CONTRACTOR'S OR AGENES COLLECTOR OF THE VILLAGE OF DOWNERS GROVE CONTRACTOR'S OR AGENES	OVISIONS, RESTRICTIONS, CONDITIONS, COVENANTS, AGREEMENTS, AND DE SHALL RUN WITH AND BIND ALL OF SAID LOTS AND LAND AND SHALL , AND BE ENFORCEABLE BY THE VILLAGE OF DOWNERS GROVE, ILLINOIS, AND FANY OF THE LOTS OF LAND COMPRISED WITHIN SAID PLAT, AND THEIR TORS, ADMINISTRATORS, SUCCESSORS, GRANTEES AND ASSIGNS. 30NS, FIRMS OR CORPORATIONS NOW OWNING THE AFORESAID PROPERTY DO T THEY OR ANY PERSON, FIRM OR CORPORATION HEREAFTER ACQUIRING ANY N UPON THE ATTACHED PLAT OF SUBDIVISION ARE HEREBY SUBJECTED TO DNS RUNNING WITH SAID PROPERTY TO WHOMSOEVER OWNED, TO WIT: D THE VILLAGE, OVER THE STORMWATER MANAGEMENT EASEMENT TO FITHE VILLAGE, OVER CONTINUE MAINTAIN THE STORMWATER NO BUILDINGS OR STRUCTURES OF ANY KIND SHALL BE PLACED ON SAID 'OTHER CHANCE BE MADE ON THE RROPERTY THAT MIGHT MATERIALLY GEMENT, OPERATION OR ON THE PROPERTY THAT MIGHT MATERR THE RAINAGE IN OR ON THE PROPERTY. THAT MIGHT MATERR THE RAINAGE IN OR ON THE PROPERTY THAT MIGHT MATERR THER FACILITIES; OF MATERALLY REDUCE THE STORMWATER TER FACILITIES; OF MATERALLY REDUCE THE STORMWATER DETENTION OR EOF AS PROVIDED IN APPROVED PLANS. : DETERMINES, IN ITS SOLE AND ABSOLUTE DISCRETION, THAT THE CEDING PARAGRAPH HAVE BEEN VIOLATED OR THAT PROPER MAINTENANCE OF S IS NOT BEING PERFORMED OR THAT PROPER MAINTENANCE OF S IS NOT BEING PERFORMED OR THAT PROPER OPERATION OR THE
village clerk THE OWNERS OR OWNER , village clerk Now, THEEFOR, ALL PER village collector certificate Now, THEEFOR, ALL PER state of illinois) SS country of Dupage) SS country of Dupage) Collector for the village of downers grove, do hereby deferition of the state State of the village of downers grove, do hereby deferition of the state State of the village of downers grove, do hereby deferition of the state State of the village of downers grove, do hereby deferition of the village of downers grove, do hereby State of the village of the village of downers grove, do hereby deferition of the village of downers the react of land included State of the village state deferition of the village of downers grove State of the village state deferition of the village of downers grove State of the village state collector of the village of downers grove A.D. 202	ANY OF THE LOTS OF LAND COMPRISED WITHIN SAID PLAT, AND THER TORS, ADMINISTRATORS, SUCCESSORS, GRANTEES AND ASSIGNS. SONS, FIRMS OR CORPORATIONS NOW OWNING THE AFORESAID PROPERTY DO IT THEY OR ANY PERSON, FIRM OR CORPORATION HEREAFTER ACQUIRING ANY N UPON THE ATTACHED PLAT OF SUBDIVISION ARE HEREBY SUBJECTED TO DNS RUNNING WITH SAID PROPERTY TO WHOMSOEVER OWNED, TO WIT: D' THE VILLAGE, OVER THE STORMWATER FACILITIES WITHIN THE PROPERTY TO FITHE VILLAGE, OVER THE STORMWATER FACILITIES WITHIN THE PROPERTY TO PRIVATELY-OWNED LAND FOR THE REASONABLE EXERCISE OF THE RIGHTS SEER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER NO BUILDINGS OR STRUCTURES OF ANY KIND SHALL BE PLACED ON SAID 'OTHER CHANGE BE MADE ON THE PROPERTY THAT MIGHT MATERIALLY GEMENT, OPERATION OR ON THE PROPERTY INFORMATER ADDUCE THE WATER TER DRAINAGE IN OR ON THE PROPERTY; NEGATIVELY IMPACT THE WATER TER DRAINAGE IN OR ON THE PROPERTY; NEGATIVELY IMPACT THE WATER TER FACILITIES; OR MATERIALLY REDUCE THE STORMWATER TER FACILITIES; OR MATERIALLY EDUCE THE STORMWATER DETENTION OR EOF AS PROVIDED IN APPROVED PLANS.
VILLAGE CLERK NOW. THEREFOR, ALL PER: COVENANT AND AGREE TH/ PROPERTY OR LOTS SHOW THE FOLLOWING RESERTCH OWNER HEREBY GRANTS TI FOR THE USE AND BENEFI AND A RIGHT OF ACCESS GRANTED TO THE VILLAGE. VILLAGE COLLECTOR CERTIFICATE SS STATE OF ILLINOIS) (SONS, FIRMS OR CORPORATIONS NOW OWNING THE AFORESAID PROPERTY DO IT THEY OR ANY PERSON, FIRM OR CORPORATION HEREAFTER ACQUIRING ANY N UPON THE ATTACHED PLAT OF SUBDIVISION ARE HEREBY SUBJECTED TO DNS RUNNING WITH SAID PROPERTY TO WHOMSOEVER OWNED, TO WIT: D THE VILLAGE OF DOWNERS GROVE A STORMWATER MANAGEMENT EASEMENT T OF THE VILLAGE, OVER THE STORMWATER FACILITIES WITHIN THE PROPERTY TO FITHE VILLAGE, OVER THE STORMWATER FACILITIES WITHIN THE PROPERTY TO PRIVATELY-OWNED LAND FOR THE REASONABLE EXERCISE OF THE RIGHTS SER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER NO BUILDINGS OR STRUCTURES OF ANY KIND SHALL BE PLACED ON SAID 'OTHER CHANGE BE MADE ON THE PROPERTY THAT MIGHT MATERALLY KGEMENT, OPERATION OR CONTINUED MAINTENANCE OF ANY STORMWATER TER DRAINAGE IN OR ON THE PROPERTY; NEGATIVELY IMPACT THE WATER TER FACILITIES; OR MATERALLY REDUCE THE STORMWATER DETENTION OR SOF AS PROVIDED IN APPROVED PLANS. E DETERMINES, IN ITS SOLE AND ABSOLUTE DISCRETION, THAT THE CEDING PARAGRAPH HAVE BEEN VIOLATED OR THAT PROPER MAINTENANCE OF S IS NOT BEING PERFORMED OR THAT PROPER OPERATION OF THE
VILLAGE COLLECTOR CERTIFICATE PROPERTY OR LOTS SHOW STATE OF ILLINOIS) SS) SS COUNTY OF DUPAGE) I	N UPON THE ATTACHED PLAT OF SUBDIVISION ARE HEREBY SUBJECTED O NNS RUNNING WITH SAID PROPERTY TO WHOMSOEVER OWNED, TO WIT: D THE VILLAGE, OVER THE STORMWATER FACILITIES WITHIN THE PROPERTY TO F THE VILLAGE, OVER THE STORMWATER FACILITIES WITHIN THE PROPERTY TO PRIVATELY-OWNED LAND FOR THE REASONABLE EXERCISE OF THE RIGHTS SEER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER NO BUILDINGS OR STRUCTURES OF ANY KIND SHALL BE PLACED ON SAID ' OTHER CHANGE BE MADE ON THE PROPERTY THAT MIGHT MATERIALLY NGEMENT, OPERATION OR CONTINUED MAINTENANCE OF ANY STORMWATER TER DRAINAGE IN OR ON THE PROPERTY; NEGATIVELY IMPACT THE WATER TER DRAINAGE IN OR ON THE PROPERTY; NEGATIVELY IMPACT THE WATER TER FACILITIES; OR MATERIALLY REDUCE THE STORMWATER DETENTION OR EOF AS PROVIDED IN APPROVED PLANS. E DETERMINES, IN ITS SOLE AND ABSOLUTE DISCRETION, THAT THE CEDING PARAGRAPH HAVE BEEN VIOLATED OR THAT PROPER MAINTENANCE OF S IS NOT BEING PERFORMED OR THAT PROPER OFERATION OF THE
VILLAGE COLLECTOR CERTIFICATE OWNER HEREBY GRANTS TO FOR THE USE AND BENEFI AND A RIGHT OF ACCESS GRANTED TO THE VILLAGE. STATE OF ILLINOIS) SS COUNTY OF DUPAGE)	D THE VILLAGE OF DOWNERS GROVE A STORMWATER MANAGEMENT EASEMENT T OF THE VILLAGE, OVER THE STORMWATER FACILITIES WITHIN THE PROPERTY TO PRIVATELY-OWNED LAND FOR THE REASONABLE EXERCISE OF THE RIGHTS SEER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER NO BUILDINGS OR STRUCTURES OF ANY KIND SHALL BE PLACED ON SAID 'OTHER CHANGE BE MADE ON THE PROPERTY THAT MIGHT MATERIALLY GEMENT, OPERATION OR CONTINUED MAINTENANCE OF ANY STORMWATER TER DRAINAGE IN OR ON THE PROPERTY; NEGATIVELY IMPACT THE WATER TER DRAINAGE IN OR ON THE PROPERTY; NEGATIVELY IMPACT THE WATER TER FACILITIES; OR MATERIALLY REDUCE THE STORMWATER DETENTION OR EOF AS PROVIDED IN APPROVED PLANS. E DETERMINES, IN ITS SOLE AND ABSOLUTE DISCRETION, THAT THE CEDING PARAGRAPH HAVE BEEN VIOLATED OR THAT PROPER MAINTENANCE OF S IS NOT BEING PERFORMED OR THAT PROPER OPERATION OF THE
VILLAGE_COLLECTOR_CERTIFICATE FOR THE OSE AND BERNET STATE OF ILLINOIS) SS COUNTY OF DUPAGE),	TO PRIVATELY-OWNED LAND FOR THE REASONABLE EXERCISE OF THE RIGHTS SER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER NO BUILDINGS OR STRUCTURES OF ANY KIND SHALL BE PLACED ON SAID ' OTHER CHANGE BE MADE ON THE PROPERTY THAT MIGHT MATERIALLY GGEMENT, OPERATION OR CONTINUED MAINTENANCE OF ANY STORMWATER TER DRAINAGE IN OR ON THE PROPERTY; NEGATIVELY IMPACT THE WATER TER FACILITIES; OR MATERIALLY REDUCE THE STORMWATER DETENTION OR EOF AS PROVIDED IN APPROVED PLANS. E DETERMINES, IN ITS SOLE AND ABSOLUTE DISCRETION, THAT THE CEDING PARAGRAPH HAVE BEEN VIOLATED OR THAT PROPER MAINTENANCE OF IS IS NOT BEING PERFORMED OR THAT PROPER OPERATION OF THE
) SS COUNTY OF DUPAGE) ,, COLLECTOR FOR THE VILLAGE OF DOWNERS GROVE, DO HEREBY ,, COLLECTOR FOR THE VILLAGE OF DOWNERS GROVE, DO HEREBY SERTIFY THAT THERE ARE NO DELINQUENT OR UNPAID CURRENT OR FORFEITED SPECIAL ASSESSMENTS OR ANY SEFERRED INSTALLMENTS THEREOF THAT HAVE NOT BEEN APPORTIONED AGAINST THE TRACT OF LAND INCLUDED N THIS PLAT. DATED THIS DAY OF, A.D. 202 SOLLECTOR OF THE VILLAGE OF DOWNERS GROVE SOLLECTOR OF THE VILLAGE OF DOWNERS GROVE	SER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER NO BUILDINGS OR STRUCTURES OF ANY KIND SHALL BE PLACED ON SAID ' OTHER CHANGE BE MADE ON THE PROPERTY THAT MIGHT MATERIALLY GEMENT, OPERATION OR CONTINUED MAINTENANCE OF ANY STORMWATER TER DRAINAGE IN OR ON THE PROPERTY; NEGATIVELY IMPACT THE WATER TER FACILITIES; OR MATERIALLY REDUCE THE STORMWATER DETENTION OR EOF AS PROVIDED IN APPROVED PLANS. E DETERMINES, IN ITS SOLE AND ABSOLUTE DISCRETION, THAT THE CEDING PARAGRAPH HAVE BEEN VIOLATED OR THAT PROPER MAINTENANCE OF IS IS NOT BEING PERFORMED OR THAT PROPER OPERATION OF THE
COLLECTOR OF THE VILLAGE OF DOWNERS GROVE, DO HEREBY COLLECTOR OF THE VILLAGE OF DOWNERS GROVE, DO HEREBY COLLECTOR OF THE VILLAGE OF DOWNERS GROVE COLLECTO	Y OTHER CHANGE BE MADE ON THE PROPERTY THAT MIGHT MATERIALLY AGEMENT, OPERATION OR CONTINUED MAINTENANCE OF ANY STORMWATER TER DRAINAGE IN OR ON THE PROPERTY; NEGATIVELY IMPACT THE WATER TER FACILITIES; OR MATERIALLY REDUCE THE STORMWATER DETENTION OR EOF AS PROVIDED IN APPROVED PLANS. E DETERMINES, IN ITS SOLE AND ABSOLUTE DISCRETION, THAT THE CEDING PARAGRAPH HAVE BEEN VIOLATED OR THAT PROPER MAINTENANCE OF IS IS NOT BEING PERFORMED OR THAT PROPER OPERATION OF THE
Deferred installments thereof that have not been apportioned against the tract of land included Facility; impede stormwa quality of the stormwa Retention CAPACITY there is the stormwa Retention CAPACITY there is the stormwater facilities is contractors or agents, stormwater facilities. Contractors of the village of downers grove Facility; impede stormwater facilities.	TER DRAINAGE IN OR ON THE PROPERTY; NEGATIVELY IMPACT THE WATER TER FACILITIES; OR MATERIALLY REDUCE THE STORMWATER DETENTION OR EOF AS PROVIDED IN APPROVED PLANS. E DETERMINES, IN ITS SOLE AND ABSOLUTE DISCRETION, THAT THE CEDING PARAGRAPH HAVE BEEN VIOLATED OR THAT PROPER MAINTENANCE OF IS IS NOT BEING PERFORMED OR THAT PROPER OPERATION OF THE
DATED THIS DAY OF, A.D. 202 IN THE EVENT THE VILLAGE PROHIBITIONS OF THE PRE THE STORMWATER FACILITIE STORMWATER FACILITIES IS CONTRACTORS OR AGENTS, SHALL NOT BE OBLIGATED (A) CORRECTING ANY VIOLA STORMWATER FACILITIES.	E DETERMINES, IN ITS SOLE AND ABSOLUTE DISCRETION, THAT THE CEDING PARAGRAPH HAVE BEEN VIOLATED OR THAT PROPER MAINTENANCE OF IS IS NOT BEING PERFORMED OR THAT PROPER OPERATION OF THE
COLLECTOR OF THE VILLAGE OF DOWNERS GROVE CONTRACTORS OR AGENTS, SHALL NOT BE OBLIGATED (A) CORRECTING ANY VIOLA STORMWATER FACILITIES.	CEDING PARAGRAPH HAVE BEEN VIOLATED OR THAT PROPER MAINTENANCE OF IS IS NOT BEING PERFORMED OR THAT PROPER OPERATION OF THE
COLLECTOR OF THE VILLAGE OF DOWNERS GROVE SHALL NOT BE OBLIGATED (A) CORRECTING ANY VIOLA STORMWATER FACILITIES.	
(A) CORRECTING ANY VIOLA STORMWATER FACILITIES.	AFTER TEN (10) DAYS PRIOR WRITTEN NOTICE TO THE OWNER, MAY, BUT TO, ENTER UPON ANY OR ALL OF THE PROPERTY FOR THE PURPOSES OF
	ATION AND (B) PERFORMING MAINTENANCE WORK ON AND TO THE
DRAINAGE CERTIFICATE	ILLAGE SHALL PERFORM, OR CAUSE TO BE PERFORMED, ANY WORK VATER MANAGEMENT FASEMENT. THE VILLAGE SHALL HAVE THE RIGHT TO
STATE OF ILLINOIS)	AMOUNT SUFFICIENT TO DEFRAY THE ENTIRE COST OF SUCH WORK, INCLUDING HER BEFORE OR AFTER SUCH COST IS INCURRED. IF THE AMOUNT SO
) SS CHARGED IS NOT PAID BY COUNTY OF DUPAGE) THE VILLAGE FOR SUCH P	THE OWNER WITHIN THIRTY (30) DAYS FOLLOWING A DEMAND IN WRITING BY AYMENT, SUCH CHARGE, TOGETHER WITH INTEREST AND COSTS OF IS A LIEN LIENN THE PROPERTY AND THE WILLAGE SHALL LIAVE THE DIGUT TO
TO THE BEST OF OUR KNOWLEDGE AND BELIEF, REASONABLE PROVISIONS HAVE BEEN MADE FOR COLLECTION COLLECT SUCH CHARGE, W AND DIVERSION OF SUCH SURFACE WATERS AND PUBLIC AREAS, OR DRAINS WHICH THE SUBDIVIDOR HAS A PROCEEDINGS AS PERMITTE	IE A LIEN UPON THE PROPERTY AND THE VILLAGE SHALL HAVE THE RIGHT TO (ITH INTEREST AND COSTS, AND TO ENFORCE SUCH LIEN AS IN FORECLOSURE ID BY LAW.
RIGHT TO USE, AND THAT SUCH SURFACE WATERS WILL BE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGE TO THE ADJOINING IN WITNESS WHEREOF, THE	OWNERS HAVE SET THEIR HANDS UPON THE ATTACHED PLAT THE DAY AND
DATED THIS DAY OF, A.D. 202 DATED THIS DATED THIS	LON. . A.D. 202
DWNER OR ATTORNEY	
PRINTED NAME PRINTED NAME, LICENSE NO. & EXPIRATION DATE NOTARY PUBLIC	
DUWNERS GROVE SANITARY DISTRICT CERTIFICATE	
) SS COUNTY OF DUPAGE)	
I,, COLLECTOR OF THE DOWNERS GROVE SANITARY DISTRICT, DO	
DEREDT CERTIFIT THAT THERE ARE NO DELINQUENT OR UNPAID CURRENT OR FORFEITED SPECIAL ASSESSMENTS OR ANY DEFERRED INSTALLMENTS THEREOF THAT HAVE NOT BEEN APPORTIONED AGAINST THE TRACT OF LAND INCLUDED IN THIS PLAT.	PROFESSIONAL AUTHORIZATION
DATED THIS DAY OF, A.D. 202	STATE OF ILLINOIS) COUNTY OF DUPAGE) SS
	I, THOMAS A. MOLLOY, A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, LICENSE NUMBER
COLLECTOR OF DOWNERS GROVE SANITARY DISTRICT	35–3409, DO HEREBY AUTHORIZE THE VILLAGE OF DOWNERS GROVE, DUPAGE COUNTY, ILLINOIS, ITS STAFF OR AUTHORIZED AGENT, TO PLACE THIS DOCUMENT OF RECORD IN THE COUNTY RECORDERS OFFICE IN MY NAME AND IN COMPLIANCE WITH ILLINOIS STATUTES CHAPTER 109 PARAGRAPH 2 AS AMENDED
	SIGNED AT BENSENVILLE, ILLINOIS, THIS <u>30TH</u> DAY OF <u>NOVEMBER</u> , A.D. 2023
	EDWARD J. MOLLOY AND ASSOCIATES, LTD.
<u>DRAINAGE CERTIFICATE</u>	AN ILLINUIS PROFESSIONAL DESIGN FIRM - LICENSE NO. 184-004840
STATE OF ILLINOIS)) SS	FOK KEVIEW
COUNTY OF DUPAGE)	THOMAS A. MOLLOY
ATTORNEY, DO HEREBY STATE, THAT TO THE BEST OF OUR KNOWLEDGE AND BELIEF, REASONABLE PROVISION	PARCEL PERMANENT INDEX NUMBERS: ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35–3409 31–100–024 (EXPIRES NOVEMBER 30, 2024 AND IS RENEWABLE)
HAS BEEN MADE FOR COLLECTION AND DIVERSION OF SUCH SURFACE WATERS AND PUBLIC AREAS, OR DRAINS WHICH THE SUBDIVIDER HAS A RIGHT TO USE, AND THAT SUCH SURFACE WATERS WILL BE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELINGOD OF	SUBMITTED BY:
DAMAGE TO THE ADJOINING PROPERTY BECAUSE OF THE CONSTRUCTION OF THE SUBDIVISION. FURTHER, AS ENGINEER, I HEREBY CERTIFY THAT THE PROPERTY WHICH IS THE SUBJECT OF THIS SUBDIVISION OR ANY PART	LTON PARTNERS, INC. PARK BOULEVARD, SUITE 201
THEREOF IS (IS NOT) LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA AS IDENTIFIED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.	LAND SURVEYOR'S CERTIFICATE
AFTE THIS DAY OF, A.D. 202 VILLA	IR RECORDING RETURN TO: GE CLERK'S OFFICE STATE OF ILLINOIS) GE CLERK'S OFFICE SS
VILLA VILLA 50 F	I, THOMAS A. MOLLOY, AN ILLINOIS PROFESSIONAL LAND SURVEYOR HEREBY CERTIFY THAT I HAVE
BUFF/	SURVEYED AND PLATTED THE FOLLOWING DESCRIBED PROPERTY FOR THE PURPOSE OF SUBDIVIDING SAME INTO A TWO LOT SUBDIVISION:
SENI HP/#	D FUTURE TAX BILLS TO: AG ESPLANADE AT LOCUST POINT-IV LIMITED PARTNERSHIP AG ESPLANADE AT LOCUST POINT-IV LIMITED PARTNERSHIP AG ESPLANADE AT LOCUST POINT-IV LIMITED PARTNERSHIP AND THE NORTHWEST 1/4 OF SECTION 31, TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN ACCORDING TO THE PLAT THEPEOE PEODDED SEPTEMPER 1, 2000 AS DOCUMENT
OWNER OR THEIR DULY AUTHORIZED ATTORNEY	HAMILTON PARTNERS, INC. PARK BOULEVARD, SUITE 201 AND THAT THE DIAT HEREON DRAWN IS A CORRECT REPRESENTATION OF SAID SUDVEY AND SUDDWICION
	A, ILLINUIS OUTAS A CURRECT REPRESENTATION OF SAID SURVEY AND SUBDIVISION. DIMENSIONS ARE SHOWN IN FEET AND DECIMAL PARTS THEREOF.
	I FURTHER CERTIFY THAT AN EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FLOOD INSURANCE RATE MAPS COMMUNITY-PANEL NO'S. 17043C0158J AND 17043C0159J WITH A MAP
REVIEW	I FURTHER CERTIFY THAT AN EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FLOOD INSURANCE RATE MAPS COMMUNITY-PANEL NO'S. 17043C0158J AND 17043C0159J WITH A MAP REVISED DATES OF AUGUST 1, 2019, SHOWS THAT THE PROPERTY LEGALLY DESCRIBED HEREON FALLS WITHIN ZONE "X" DEFINED AS AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE
-OR REVIEW	I FURTHER CERTIFY THAT AN EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FLOOD INSURANCE RATE MAPS COMMUNITY-PANEL NO'S. 17043C0158J AND 17043C0159J WITH A MAP REVISED DATES OF AUGUST 1, 2019, SHOWS THAT THE PROPERTY LEGALLY DESCRIBED HEREON FALLS WITHIN ZONE "X" DEFINED AS AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN. I FURTHER CERTIFY THAT SAID SURVEY IS WITHIN THE CORPORATE LIMITS OF THE VILLAGE OF DOWNERS
FOR REVIEW	I FURTHER CERTIFY THAT AN EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FLOOD INSURANCE RATE MAPS COMMUNITY-PANEL NO'S. 17043C0158J AND 17043C0159J WITH A MAP REVISED DATES OF AUGUST 1, 2019, SHOWS THAT THE PROPERTY LEGALLY DESCRIBED HEREON FALLS WITHIN ZONE "X" DEFINED AS AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN. I FURTHER CERTIFY THAT SAID SURVEY IS WITHIN THE CORPORATE LIMITS OF THE VILLAGE OF DOWNERS GROVE, DUPAGE COUNTY, ILLINOIS WHICH HAS ADOPTED AN OFFICIAL COMPREHENSIVE PLAN.
FOR REVIEW	I FURTHER CERTIFY THAT AN EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FLOOD INSURANCE RATE MAPS COMMUNITY-PANEL NO'S. 17043C0158J AND 17043C0159J WITH A MAP REVISED DATES OF AUGUST 1, 2019, SHOWS THAT THE PROPERTY LEGALLY DESCRIBED HEREON FALLS WITHIN ZONE "X" DEFINED AS AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN. I FURTHER CERTIFY THAT SAID SURVEY IS WITHIN THE CORPORATE LIMITS OF THE VILLAGE OF DOWNERS GROVE, DUPAGE COUNTY, ILLINOIS WHICH HAS ADOPTED AN OFFICIAL COMPREHENSIVE PLAN. I FURTHER CERTIFY THAT THE IRON PIPE/ROD SURVEY STAKES NOTED ON THE ANNEXED PLAT HAVE BEEN ESTABLISHED ON THE SITE OR, WILL BE SET UPON COMPLETION OF CONSTRUCTION OR WITHIN 12 MONTHS AFTER THE RECORDING DATE OF THIS SUBDIVISION.
FOR REVIEW	I FURTHER CERTIFY THAT AN EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FLOOD INSURANCE RATE MAPS COMMUNITY-PANEL NO'S. 17043C0158J AND 17043C0159J WITH A MAP REVISED DATES OF AUGUST 1, 2019, SHOWS THAT THE PROPERTY LEGALLY DESCRIBED HEREON FALLS WITHIN ZONE "X" DEFINED AS AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN. I FURTHER CERTIFY THAT SAID SURVEY IS WITHIN THE CORPORATE LIMITS OF THE VILLAGE OF DOWNERS GROVE, DUPAGE COUNTY, ILLINOIS WHICH HAS ADOPTED AN OFFICIAL COMPREHENSIVE PLAN. I FURTHER CERTIFY THAT THE IRON PIPE/ROD SURVEY STAKES NOTED ON THE ANNEXED PLAT HAVE BEEN ESTABLISHED ON THE SITE OR, WILL BE SET UPON COMPLETION OF CONSTRUCTION OR WITHIN 12 MONTH: AFTER THE RECORDING DATE OF THIS SUBDIVISION. SIGNED AT BENSENVILLE, ILLINOIS, THIS <u>JOTH</u> DAY OF <u>NOVEMBER</u> , A.D. 2023
FOR REVIEW	 i FURTHER CERTIFY THAT AN EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) i FURTHER CERTIFY THAT AN EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FLOOD INSURANCE RATE MAPS COMMUNTY-PANEL NO'S. 17043C0158J AND 17043C0159J WITH A MAP REVISED DATES OF AUGUST 1, 2019, SHOWS THAT THE PROPERTY LEGALLY DESCRIBED HEREON FALLS WITHIN ZONE "X" DEFINED AS AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN. i FURTHER CERTIFY THAT SAID SURVEY IS WITHIN THE CORPORATE LIMITS OF THE VILLAGE OF DOWNERS GROVE, DUPAGE COUNTY, ILLINOIS WHICH HAS ADOPTED AN OFFICIAL COMPREHENSIVE PLAN. i FURTHER CERTIFY THAT THE IRON PIPE/ROD SURVEY STAKES NOTED ON THE ANNEXED PLAT HAVE BEEN ESTABLISHED ON THE SITE OR, WILL BE SET UPON COMPLETION OF CONSTRUCTION OR WITHIN 12 MONTHS AFTER THE RECORDING DATE OF THIS SUBDIVISION. SIGNED AT BENSENVILLE, ILLINOIS, THIS _30TH_ DAY OF _NOVEMBER_, A.D. 2023 EDWARD J. MOLLOY AND ASSOCIATES, LTD. AN ILLINOIS PROFESSIONAL DESIGN FIRM - LICENSE NO. 184-004840
FTED BY: BJE GE: 2 OF 2 DEFENSE	 FURTHER CERTIFY THAT AN EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FURTHER CERTIFY THAT AN EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FURTHER CERTIFY THAT AN EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FURTHER CERTIFY THAT AN EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FURTHER CERTIFY THAT AN EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FURTHER CERTIFY THAT AN EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FURTHER CERTIFY THAT AN EXAMINATION OF THE PROPERTY LEGALLY DESCRIBED HEREON FALLS WITHIN ZONE "X" DEFINED AS AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN. I FURTHER CERTIFY THAT SAID SURVEY IS WITHIN THE CORPORATE LIMITS OF THE VILLAGE OF DOWNERS GROVE, DUPAGE COUNTY, ILLINOIS WHICH HAS ADOPTED AN OFFICIAL COMPREHENSIVE PLAN. I FURTHER CERTIFY THAT THE IRON PIPE/ROD SURVEY STAKES NOTED ON THE ANNEXED PLAT HAVE BEEN ESTABLISHED ON THE SITE OR, WILL BE SET UPON COMPLETION OF CONSTRUCTION OR WITHIN 12 MONTHS AFTER THE RECORDING DATE OF THIS SUBDIVISION. SIGNED AT BENSENVILLE, ILLINOIS, THIS <u>JOTH</u> DAY OF <u>NOVEMBER</u>, A.D. 2023 EDWARD J. MOLLOY AND ASSOCIATES, LTD. AN ILLINOIS PROFESSIONAL DESIGN FIRM - LICENSE NO. 184-004840
FTED BY: BJE VGE: 2 OF 2 VDER NO.: 230015 E: 30-39-11 MV. 30, 2023 230015 VILLAGE COMMENT LETTER DATED 4/7/2023 MV. 30, 2023 230015 VILLAGE COMMENT LETTER DATED 4/7/2023	 I FURTHER CERTIFY THAT AN EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FLOOD INSURANCE RATE MAPS COMMUNITY-PANEL NO'S. 17043C0158J AND 17043C0159J WITH A MAP REVISED DATES OF AUGUST 1, 2019, SHOWS THAT THE PROPERTY LEGALLY DESCRIBED HEREON FALLS WITHIN ZONE "X" DEFINED AS AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN. I FURTHER CERTIFY THAT SAID SURVEY IS WITHIN THE CORPORATE LIMITS OF THE VILLAGE OF DOWNERS GROVE, DUPAGE COUNTY, ILLINOIS WHICH HAS ADOPTED AN OFFICIAL COMPREHENSIVE PLAN. I FURTHER CERTIFY THAT SAID SURVEY IS WITHIN THE CORPORATE LIMITS OF THE VILLAGE OF DOWNERS GROVE, DUPAGE COUNTY, ILLINOIS WHICH HAS ADOPTED AN OFFICIAL COMPREHENSIVE PLAN. I FURTHER CERTIFY THAT THE IRON PIPE/ROD SURVEY STAKES NOTED ON THE ANNEXED PLAT HAVE BEEN GROVE, DUPAGE COUNTY, ILLINOIS WHICH HAS ADOPTED AN OFFICIAL COMPREHENSIVE PLAN. I FURTHER CERTIFY THAT THE IRON PIPE/ROD SURVEY STAKES NOTED ON THE ANNEXED PLAT HAVE BEEN GROVE, DUPAGE COUNTY, ILLINOIS WHICH HAS ADOPTED AN OFFICIAL COMPREHENSIVE PLAN. I FURTHER CERTIFY THAT THE IRON PIPE/ROD SURVEY STAKES NOTED ON THE ANNEXED PLAT HAVE BEEN STABLISHED ON THE SITE OF, WILL BE SET UPON COMPLETION OF CONSTRUCTION OR WITHIN 12 MONTHS AFTER THE RECORDING DATE OF THIS SUBDIVISION. I SURVEYOR SURVEY STAKES NOTED ON THE ANNEXED PLAT HAVE BEEN USED AT BENSENVILLE, ILLINOIS, THIS SUBDIVISION. I GIRED AT BENSENVILLE, ILLINOIS, THIS SOFT DAY OF NOVEMBER, A.D. 2023 EDWARD J. MOLLOY AND ASSOCIATES, LTD. AN ILLINOIS PROFESSIONAL DESIGN FIRM - LICENSE NO. 184-004840 I MORT J. MOLLOY AND ASSOCIATES, LTD. I MILLINOIS PROFESSIONAL DESIGN FIRM - LICENSE NO. 184-004840 I FORM REVIEW
FTED BY: BJE KGE: 2 OF 2 KDER NO.: 230015 E: 30-39-11 KOV. 30, 2023 230015 VILLAGE COMMENT LETTER DATED 4/7/2023 FEB. 16, 2023 230015 PRELIMINARY SUBDIVISION PLAT - INITIAL REVISION DATE ORDER NO. REVISION REVISION DATE ORDER NO. REVISION	 I FURTHER CERTIFY THAT AN EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FLOOD INSURANCE RATE MAPS COMMUNITY-PANEL NO'S. 17043C0158J AND 17043C0159J WITH A MAP REVISED DATES OF AUGUST 1, 2019, SHOWS THAT THE PROPERTY LECALLY DESCRIBED HEREON FALLS WITHIN ZONE "X" DEFINED AS AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN. I FURTHER CERTIFY THAT SAID SURVEY IS WITHIN THE CORPORATE LIMITS OF THE VILLAGE OF DOWNERS GROVE, DUPAGE COUNTY, ILLINOIS WHICH HAS ADDOPTED AN OPTED AND ASSOCIATES, LTD. AN ILLINOIS PROFESSIONAL DASSOCIATES, LTD. AN ILLINOIS PROFESSIONAL DASSOCIATES, LTD. AN ILLINOIS PROFESSIONAL DESIGN FIRM – LICENSE NO. 184–004840 ILLINOIS PROFESSIONAL LAND SURVEYING FAX:(630) 595–4700 MORD J. MOLLOY AND ASSOCIATES, LTD. AN ILLINOIS PROFESSIONAL DESIGN FIRM – LICENSE NO. 184–004840 I FURTHER CERTIFY THAT AN OPTED AN OPTED AN OPTED AN OPTED AND ASSOCIATES, LTD. AN ILLINOIS PROFESSIONAL DESIGN FIRM – LICENSE NO. 184–004840 I FURTHER CERTIFY THAT AN OPTED AND ASSOCIAT

Traffic Impact Study Esplanade Place Residential Development Downers Grove, Illinois

Prepared For:

1. Introduction

This report summarizes the methodologies, results, and findings of a traffic impact study conducted by Kenig, Lindgren, O'Hara, Aboona, Inc. (KLOA, Inc.) for the proposed Esplanade Place residential development to be located in Downers Grove, Illinois. The site, which is currently vacant, is located in the northwest corner of the intersection of Lacey Road with Woodcreek Drive with the Esplanade within Locust Creek business park. As proposed, the site will be developed with three, four-story apartment buildings with 99 units each for a total of 297 units. Parking will be accommodated via a 65-space parking garage within each building and 295 exterior parking spaces for a total of 490 parking spaces. Access to the development will be provided via a right-in/right-out access drive on Lacey Road and via two full-movement access drives on Woodcreek Drive.

The purpose of this study was to examine background traffic conditions, assess the impact that the proposed development will have on traffic conditions in the area, and determine if any additional roadway or access improvements are necessary to accommodate traffic generated by the proposed development. Figure 1 shows the location of the site in relation to the area roadway system. Figure 2 shows an aerial view of the site.

The sections of this report present the following:

- Existing roadway conditions
- A description of the proposed development
- Directional distribution of the development traffic
- Vehicle trip generation for the development
- Future traffic conditions including access to the development
- Traffic analyses for the weekday morning and weekday evening peak hours
- Recommendations with respect to adequacy of the site access and adjacent roadway system
- Evaluation of the adequacy of the proposed parking supply

Traffic capacity analyses were conducted for the weekday morning and weekday evening peak hours for the following conditions:

- 1. Existing Traffic Conditions Analyzes the capacity of the existing roadway system using peak hour traffic volumes conducted in 2023.
- 2. Year 2029 No-Build Conditions Analyzes the capacity of the existing roadway system using existing traffic volumes increased by an ambient area growth factor not attributable to any particular development.
- 3. Year 2029 Total Projected Conditions Analyzes the capacity of the future roadway system using the projected traffic volumes that include the Year 2029 no-build volumes and the traffic estimated to be generated by the proposed development.

-Aerial View of Site

Esplanade Place Residential Development Downers Grove, Illinois

2. Existing Conditions

Existing transportation conditions in the vicinity of the site were documented based on field visits conducted by KLOA, Inc. in order to obtain a database for projecting future conditions. The following provides a description of the geographical location of the site, physical characteristics of the area roadway system including lane usage and traffic control devices, and existing peak hour traffic volumes.

Site Location

The site, which is currently vacant, is bounded by vacant space to the north, Lacey Road to the east, and Woodcreek Drive to the south and west. The site is located within the Esplanade at Locust Creek business park. Land uses within the vicinity are primarily office to the north and medical or industrial to the south.

Existing Roadway System Characteristics

The characteristics of the existing roadways near the development are described below and illustrated in **Figure 3**.

Butterfield Road (Illinois Route 56) is an east-west other principal arterial roadway that provides three lanes in each direction narrowing to two lanes in each direction west of Woodcreek Drive. At its signalized intersection with Woodcreek Drive and Lloyd Avenue, Butterfield Road provides an exclusive left-turn lane, three through lanes, and dual right-turn lanes on the eastbound approach and dual left-turn lanes, two through lanes, and a shared through/right-turn lane on the westbound approach. At its signalized intersection with Esplanade Road, Butterfield Road provides an exclusive left-turn lane and three through lanes on the eastbound approach. This intersection is located within the storage length of the westbound dual left-turn lanes from the intersection of Butterfield Road with Lacey Road and as such the westbound approach provides two lanes that are the remainder of the dual left-turn lanes, three through lanes and an exclusive right-turn lane. A full diamond interchange with I-355 is provided approximately 1,200 feet east of Esplanade Road. Butterfield Road is under the jurisdiction of the Illinois Department of Transportation (IDOT), is designated as a Strategic Regional Arterial (SRA), carries an annual average daily traffic (AADT) volume of 30,700 vehicles (IDOT 2021), and has a posted speed limit of 45 miles per hour.

Finley Road is a north-south minor arterial roadway that provides two through lanes in each direction generally separated by a raised landscaped median. At its signalized intersection with Lacey Road, Finley Road provides dual left-turn lanes and two through lanes on the northbound approach and two through lanes and an exclusive right-turn lane on the southbound approach. Finley Road is under the jurisdiction of the DuPage County Division of Transportation (DuDOT) and has a posted speed limit of 45 miles per hour. Finley Road carried an AADT volume of 20,800 vehicles in 2016 and 10,900 vehicles in 2020 (IDOT).

Woodcreek Drive is a circulatory local roadway that serves the majority of the buildings within the Esplanade at Locust Creek business park. At its signalized intersection with Butterfield Road, Woodcreek Drive provides dual left-turn lanes, a shared through/right-turn lane, and an exclusive right-turn lane on the northbound approach and is aligned opposite Llyod Avenue. At its signalized intersection with Lacey Road, Woodcreek Drive provides two through lanes and dual right-turn lanes on the southbound approach and dual left-turn lanes and an exclusive right-turn lane on the eastbound approach. At its unsignalized intersection with Lacey Road, Woodcreek Drive provides an exclusive left-turn lane and an exclusive right-turn lane on the eastbound approach and is under stop sign control. Woodcreek Drive is under the jurisdiction of the Village of Downers Grove.

Lacey Road is a north-south minor collector road that extends from Woodcreek Drive east and then south to Finley Road serving the Esplanade at Locust Point business park. The road generally provides two lanes in each direction separated by a landscaped median. At its signalized intersection with Woodcreek Drive, Lacey Road provides an exclusive left-turn lane and two through lanes on the northbound approach. At its unsignalized all-way stop controlled intersection with Esplanade Road, Lacey Road provides a combined left/through lane and a combined through/right-turn lane on both approaches. At its unsignalized intersection with the access road north of the site, Lacey Road provides an exclusive left-turn and two through lanes on the northbound approach and a through lane and a shared through/right-turn lane on the southbound approach. The access road provides an exclusive left-turn lane and an exclusive right-turn lane. At its unsignalized intersection with Woodcreek Drive, Lacey Road provides an exclusive left-turn and two through lanes on the northbound approach and a through lane and a shared through/rightturn lane on the southbound approach. At its signalized intersection with Finley Road, Lacey Road provides an exclusive left-turn lane and dual right-turn lanes on the eastbound approach. Lacey Road is under the jurisdiction of the Village of Downers Grove and has a posted speed limit of 35 miles per hour. Lacey Road carried an AADT volume of 3,750 vehicles in 2016 and 1,650 vehicles in 2020 (IDOT).

Esplanade Road is a northbound only local road that extends north from Lacey Road to Butterfield Road. At its signalized intersection with Butterfield Road, Esplanade Road provides dual right turn lanes on the northbound approach and is aligned opposite a Home Depot access drive. The access drive provides dual left-turn lanes and an exclusive right-turn lane on the southbound approach. At its all-way stop sign controlled intersection with Lacey Road, Esplanade Road is aligned opposite an access drive which provides an exclusive left-turn lane and a shared through/right-turn lane on the northbound approach. Esplanade Road is under the jurisdiction of the Village of Downers Grove.

Lloyd Avenue is a north-south local road that extends north from Butterfield Road and provides one lane in each direction. At its signalized intersection with Butterfield Road, Lloyd Avenue is aligned opposite Woodcreek Drive and provides an exclusive left-turn lane and a shared through-right-turn lane on the southbound approach. Llyod Avenue is under the jurisdiction of Milton Township and has a posted speed limit of 25 miles per hour.

Existing Traffic Volumes

In order to determine current traffic conditions within the study area, KLOA, Inc. conducted peak period traffic counts utilizing Miovision Scout Collection Units at the following intersections:

- Butterfield Road with Woodcreek Drive and Lloyd Avenue
- Lacey Road with Woodcreek Drive (North)
- Lacey Road with Esplanade Road
- Lacey Road with the access road north of the site
- Lacey Road with Woodcreek Drive (South)
- Lacey Road with Finley Road

The traffic counts were conducted in February 2023, during the weekday morning (7:00 A.M. to 9:00 A.M.) and weekday evening (4:00 P.M. to 6:00 P.M.) peak periods. The results of the traffic counts show that the peak hours of traffic generally occur between 7:30 A.M. and 8:30 A.M. during the weekday morning peak period and between 4:30 P.M. and 5:30 P.M. during the weekday evening peak period. Copies of the traffic count summary sheets are included in the Appendix. Turning movements to and from the north leg at the intersection of Butterfield Road with Esplanade Road were based on traffic counts conducted in 2017.

The existing traffic volumes are illustrated in Figure 4.

Crash Analysis

KLOA, Inc. obtained accident data for the most recent available past six years (2017 to 2021) for the study area intersections. A review of the data revealed the following:

- Two crashes were reported at the intersection of Lacey Road with Woodcreek Drive (north)
- No crashes were reported at the intersections of Lacey Road with Woodcreek Drive (south) or Lacey Road with the access road north of the site.
- Three crashes were reported at the intersection of Lacey Road with Esplanade Road
- No fatalities were reported at any intersection during the reviewed period.

Summaries of the crash data at the intersections of Butterfield Road with Woodcreek Drive and Llyod Avenue and Lacey Road with Finley Road are shown in **Tables 1 and 2**.

LEGEND 00 - AM PEAK HOUR (7:30-8:30 AM) (00) - PM PEAK HOUR (4:30-5:30 PM)	100 ¹⁰ (555) (310) (31)	
ESPLANADE PLACE APARTMENTS DOWNERS GROVE, ILLINOIS	EXISTING TRAFFIC VOLUMES	Kenig,Lindgren,O'Hara,Aboona,Inc. Job No: 23-003 Figure: 4

Table 1

BUTTERFIELD ROAD WITH WOODCREEK DRIVE AND LLYOD AVENUE CRASH SUMMARY

	Type of Crash Frequency								
Year	Angle	Pedestrian	Object	Rear End	Sideswipe	Turning	Other	Total	
2017	0	0	0	1	0	2	0	3	
2018	1	0	0	2	0	1	0	4	
2019	0	0	2	2	1	2	0	7	
2020	0	0	0	1	0	2	0	3	
2021	0	0	0	0	0	1	0	1	
Total	1	0	2	6	1	8	0	18	
Average	<1.0		<1.0	1.2	<1.0	1.6		3.6	

Table 2

LACEY ROAD WITH FINLEY ROAD - CRASH SUMMARY

	Type of Crash Frequency									
Year	Angle	Pedestrian	Object	Rear End	Sideswipe	Turning	Other	Total		
2017	0	0	0	0	0	0	0	0		
2018	0	0	0	2	0	0	0	2		
2019	0	0	0	2	0	0	0	2		
2020	0	0	0	0	0	1	0	1		
2021	0	0	0	0	0	0	0	0		
Total	0	0	0	4	0	1	0	5		
Average				<1.0		<1.0		1.0		

3. Traffic Characteristics of the Proposed Development

In order to properly evaluate future traffic conditions in the surrounding area, it was necessary to determine the traffic characteristics of the proposed development, including the directional distribution and volumes of traffic that it will generate.

Proposed Site and Development Plan

As proposed, the site will be developed with three, four-story apartment buildings with 99 units each for a total of 297 units. Parking will be accommodated via a 65-space parking garage within each building and 295 exterior parking spaces for a total of 490 parking spaces. Access to the development will be provided as follows:

- A proposed right-in/right-out access drive on Lacey Road located approximately 300 feet north of Woodcreek Drive. The access drive will provide one inbound lane and one outbound lane with left-turn movements restricted via the median on Lacey Road. Outbound movements will be under stop sign control.
- A proposed full-movement access drive on Woodcreek Drive located approximately 840 feet west of Lacey Road. The access drive will provide one inbound lane and one outbound lane with outbound movements under stop sign control. As part of the development, Woodcreek Drive will be restriped to provide a separate left-turn lane serving this access drive.
- A proposed full-movement access drive on Woodcreek Drive located approximately 390 feet west of Lacey Road. The access drive will provide one inbound lane and one outbound lane with outbound movements under stop sign control. As part of the development, Woodcreek Drive will be restriped to provide a separate left-turn lane serving this access drive.

In addition, as part of the restriping of Woodcreek Drive, a westbound left-turn lane will be provided that will serve the existing access drive on the south side of Woodcreek drive between the site access drives. A copy of the preliminary site plan is included in the Appendix.

Directional Distribution

The directions from which residents will approach and depart the site were estimated based on existing travel patterns, as determined from the traffic counts. **Figure 5** illustrates the directional distribution of the development-generated traffic. Figure 5 also shows the distance, in feet, between the existing and proposed access intersections.

LEGEND 00% - PERCENT DISTRIBUTION 00% - DISTANCE IN FEET		
ESPLANADE PLACE APARTMENTS DOWNERS GROVE, ILLINOIS	DIRECTIONAL DISTRIBUTION	Kenig,Lindgren,O'Hara,Aboona,Inc. Job No: 23-003 Figure: 5
Peak Hour Traffic Volumes

The number of peak hour trips estimated to be generated by the proposed senior residential development was based on vehicle trip generation rates contained in *Trip Generation Manual*, 11th Edition, published by the Institute of Transportation Engineers (ITE). The "Multifamily Housing, Mid-Rise" (Land-Use Code 221) rates were used to determine the traffic to be generated by the development. **Table 3** shows the weekday morning and weekday evening peak hour traffic to be generated by the proposed senior residential development as well as the daily total traffic volumes.

As can be seen in Table 3, the proposed development is projected to generate more outbound trips during the morning peak hour and more inbound trips during the peak hour. This is typical of residential developments with residents leaving in the morning and returning in the evening. As shown in Figure 4, the other developments located withing the vicinity of the site generate primarily inbound trips during the weekday morning peak hour and primarily outbound trips during the weekday evening peak hour. This is typical of industrial and office developments. As such, traffic generated by the proposed development will primarily travel in the opposite direction of a majority of traffic in the area and will therefore have a reduced impact on area intersections.

ITE Land	Type/Size	Weel P	kday M Peak Ho	orning our	Weel P	kday E Peak Ho	vening our	Daily Traffic			
-Use Code		In	Out	Total	In	Out	Total	In	Out	Total	
221	Multifamily Housing, Mid-Rise (297 Units)	27	92	119	71	45	116	685	685	1,370	

 Table 3

 PROJECTED DEVELOPMENT-GENERATED TRAFFIC VOLUMES



4. Projected Traffic Conditions

The total projected traffic volumes include the existing traffic volumes, increase in background traffic due to growth, and the traffic estimated to be generated by the proposed subject development.

Development Traffic Assignment

The estimated weekday morning and evening peak hour traffic volumes that will be generated by the proposed development were assigned to the roadway system in accordance with the previously described directional distribution (Figure 5). The traffic assignment for the development is illustrated in **Figure 6**.

Background (No-Build) Traffic Conditions

The existing traffic volumes (Figure 4) were increased by a regional growth factor to account for the increase in existing traffic related to regional growth in the area (i.e., not attributable to any particular planned development). Based on Average Daily Traffic (ADT) projections provided by the Chicago Metropolitan Agency for Planning (CMAP), the existing traffic volumes were increased by an annually compounded growth rate of 0.7 percent per year for six years (buildout year plus five years) for a total of approximately 4.3 percent to project Year 2028 background conditions. **Figure 7** illustrates the Year 2029 no-build conditions. A copy of the CMAP 2050 projections letter is included in the Appendix.

Total Projected Traffic Volumes

The development-generated traffic (Figure 6) was added to the Year 2029 no-build traffic volumes (Figure 7) to determine the Year 2029 total projected traffic volumes, shown in **Figure 8**.





LEGEND 00 - AM PEAK HOUR (7:30-8:30 AM) (00) - PM PEAK HOUR (4:30-5:30 PM)		
ESPLANADE PLACE APARTMENTS DOWNERS GROVE, ILLINOIS	SITE-GENERATED TRAFFIC VOLUMES	Kenig,Lindgren,O'Hara,Aboona,Inc. Job No: 23-003 Figure: 6



LEGEND 00 - AM PEAK HOUR (7:30-8:30 AM) (00) - PM PEAK HOUR (4:30-5:30 PM)	104 ¹⁰ 557 104 ¹⁰ 557 1057 1057 1057 1057 1057 1057 1057 1	
ESPLANADE PLACE APARTMENTS DOWNERS GROVE, ILLINOIS	YEAR 2029 NO-BUILD TRAFFIC VOLUMES	Kenig,Lindgren,O'Hara,Aboona,Inc. Job No: 23-003 Figure: 7



LEGEND 00 - AM PEAK HOUR (7:30-8:30 AM) (00) - PM PEAK HOUR (4:30-5:30 PM)	123 ¹⁵ 1509 13517 7 1 99 99 99	88
ESPLANADE PLACE APARTMENTS DOWNERS GROVE, ILLINOIS	YEAR 2029 TOTAL TRAFFIC VOLUMES	Kenig,Lindgren,O'Hara,Aboona,Inc. Job No: 23-003 Figure: 8

5. Traffic Analysis and Recommendations

The following provides an evaluation conducted for the weekday morning and weekday evening peak hours. The analysis includes conducting capacity analyses to determine how well the roadway system and access drives are projected to operate and whether any roadway improvements or modifications are required.

Traffic Analyses

Roadway and adjacent or nearby intersection analyses were performed for the weekday morning and weekday evening peak hours for the existing, Year 2029 no-build, and Year 2029 total projected traffic volumes.

The traffic analyses were performed using the methodologies outlined in the Transportation Research Board's *Highway Capacity Manual (HCM)*, 6th Edition and analyzed using Synchro/SimTraffic 11 software. The analysis for the traffic-signal controlled intersections were accomplished using actual and field-measured cycle lengths and phasings to determine the average overall vehicle delay and levels of service.

The analyses for the unsignalized intersections determine the average control delay to vehicles at an intersection. Control delay is the elapsed time from a vehicle joining the queue at a stop sign (includes the time required to decelerate to a stop) until its departure from the stop sign and resumption of free flow speed. The methodology analyzes each intersection approach controlled by a stop sign and considers traffic volumes on all approaches and lane characteristics.

The ability of an intersection to accommodate traffic flow is expressed in terms of level of service, which is assigned a letter from A to F based on the average control delay experienced by vehicles passing through the intersection. The *Highway Capacity Manual* definitions for levels of service and the corresponding control delay for signalized intersections and unsignalized intersections are included in the Appendix of this report.

Summaries of the traffic analysis results showing the level of service and overall intersection delay (measured in seconds) for the existing, Year 2029 no-build, and Year 2029 total projected conditions are presented in **Tables 4** through **10**. A discussion of each intersection follows. Summary sheets for the capacity analyses are included in the Appendix.



Table 4

	D - II	E	astboun	d	W	estbound	N	orthbou	nd	So	Overall	
	Peak Hour	L	Т	R	L	T/R	L	Т	R	L	T/R	Overall
imes	Weekday Morning	Е 64.3	C 25.3	A 2.7	E B 71.8 10.2		D 40.2	C 20.7	A 2.8	Е 58.2	D 50.5	C 22.5
ting Volu	Peak Hour		C – 22.0	1	-	D-43.8		C – 28.5]	D – 53.6	32.5
Exis affic ^v	Weekday Evening	ay E B A F A g 67.5 14.1 0.0 100.3 3.		A 3.4	D C B 46.3 25.6 18.7			Е 75.1	В			
Tr	Peak Hour		B – 14.8			B – 11.2		D – 35.7]	D - 43.4	17.5
)29 No- l raffic mes	Weekday Morning	Е 64.3	C 26.6	A 2.7	Е 71.3	B 10.4	D B 42.2 19.1		A 3.0	E D 58.2 50.5		С
	Peak Hour		C – 22.8			D-43.6		C – 29.3]	D – 53.6	32.9
ear 2(Suild 7 Volu	Weekday Evening	Е 67.5	B 14.5	B A F A 14.5 0.0 99.8 3.6				D C B E C 46.6 25.5 19.2 75.1 26.3			C 26.3	В
Y B	Peak Hour		B – 15.1			B – 11.4	D-36.0]	17.6	
otal affic	Weekday Morning	Е 64.3	C 28.3	A 2.7	Е 71.3	В 10.7	Е 55.4	E B 55.4 13.8		Е 65.4	D 50.5	C
29 T d Tr imes	Peak Hour		C – 24.0	1	-	D – 44.1		D – 37.6]	34.2	
Year 202 Projected Volur	Weekday Evening	E 67.9	B 15.9	A 0.1	F 98.7	A 3.6	D 46.4	С 25.4	В 19.4	E C 75.1 26.3		B
	Peak Hour		B – 16.1			B – 13.4		D – 36.0	1]	18.9	
Letter denote Delay is mea	es Level of Servic sured in seconds.	L - I T - 7	Left Turns Through	R – R	ight Turns	3						



Table 5

CAPACITY ANALYSIS RESULTS – BUTTERFIELD ROAD WITH ESPLANADE ROAD– SIGNALIZED

	D I- II	Eastb	ound	Westl	oound	No	orthbour	nd	South	bound	Overall	
	Peak Hour	\mathbf{L}	R	Т	R	L	Т	R	L	R	Overall	
s imes	Weekday Morning	F 98.5	A 1.2	B 10.0	A 0.5		A 0.7		Е 58.0	A 7.2	A	
ting Volu	Peak Hour	A-4.0		A –	9.3		0.7		D –	40.6	T .0	
Exis raffic	Weekday Evening	F 85.4	A 6.1	B 13.8	A 0.5	В			E 63.3	A 9.0	В	
Tr	Peak Hour	B –	12.4	B –	12.2		16.2		D –	38.5	14.6	
29 No- raffic mes	Weekday	F 97.6	A 1 1	B 10.1	A 0.5	А			E 58.0	A 7 2	А	
	Morning Peak Hour	97.0 A –	3.8	A –		0.8			8.2			
ear 2(suild 7 Volu	Weekday	F 85.8	A 6.3	B 14.1	A 0.5		С		Е 63.3	A 8.9	В	
Y B	Peak Hour	B –	12.4	B –	20.6			D –	15.2			
otal affic	Weekday Morning	F 96.9	A 1.1	В 10.1	A 0.5	А			Е 58.0	A 7.2	А	
29 T I Tr mes	Peak Hour	A –	3.8	A –	9.5		1.7		D –	40.6	8.2	
ar 20) ojectec Volu	Weekday Evening	F 84.9	A 6.4	B 14.3	A 0.5		С		E 63.3	A 8.9	В	
Yea Proj	Peak Hour	B –	12.4	B –	12.7		24.2		D-38.5		15.6	
Letter denote Delay is mea	es Level of Servic sured in seconds.	e L – Left T T – Throu	'urns R – R gh	ight Turns								



CAPACITY ANALYSIS RESULTS - LACEY ROAD WITH WOODCREEK DRIVE (NORTH)- SIGNALIZED Eastbound Northbound Southbound (Woodcreek Drive) (Lacey Road) (Woodcreek Drive) **Peak Hour Overall** Т L R L Т R Е С А А А А Weekday **Traffic Volumes** 55.7 30.6 1.8 2.1 1.7 0.1 А Morning Existing D 3.6 А **Peak Hour** A - 2.153.2 1.0 В E А А А А Weekday С 61.6 20.0 3.5 3.7 2.0 0.0 Evening 27.0 **Peak Hour** E-59.2 A - 3.7A – 1.1 Е С А А А А Weekday 55.7 1.8 2.1 1.7 30.6 0.1 Year 2029 No-А **Build Traffic** Morning D 3.6 Volumes А Peak Hour A - 2.153.3 1.0 В E А А А А Weekday С 61.4 19.8 3.5 3.8 2.0 0.0 Evening 27.2 **Peak Hour** E-59.1 A - 3.8A – 1.1 Е С А А А А **Projected Traffic** Weekday Year 2029 Total 55.6 2.1 251 1.9 29.4 0.1 А Morning Volumes D А 4.8 **Peak Hour** A - 2.453.9 1.2 Е В А А А А Weekday С 61.2 19.6 3.5 4.0 2.0 0.0 Evening 25.6 **Peak Hour** E - 58.8A - 4.0A - 1.2Letter denotes Level of Service R – Right Turns L – Left Turns Delay is measured in seconds. T – Through





Table 7

CAPACITY ANALYSIS RESULTS – LACEY ROAD WITH FINLEY ROAD– SIGNALIZED

		Easth	ound	North	bound	South	Ovorall		
	Peak Hour	L	R	L	Т	Т	R	Overall	
s imes	Weekday Morning	Е 56.4	В 13.7	E 55.1	A 2.4	В 13.4	A 1.6	B	
ting Volu	Peak Hour	B –	17.4	C –	22.9	B –	10.8	19.0	
Exis affic	Weekday Evening	E 60.1	B 10.4	E 59.9	A 2.7	A 7.6	A 0.7	В	
T	Peak Hour	B –	17.8	B –	11.5	A –	7.3	10.8	
40- fic	Weekday Morning	Е 56.3	B 13.6	D 54.6	D A 54.6 2.4		A 1.6	B	
)29 N Fraff	Peak Hour	B –	17.1	C –	22.8	B –	11.3	19.1	
ear 2(Suild 7 Volu	Weekday	Е 59.6	B 10.2	E 59.8	A 2.9	A 7.9	A 0.6	В	
Y H	Peak Hour	B –	17.5	B –	11.5	A –	10.9		
otal affic	Weekday Morning	Е 57.3	B 13.1	D 54.4	A 2.5	B 14.2	В		
29 T I Tr I mes	Peak Hour	B –	17.9	C –	22.9	B –	11.5	19.2	
ear 20) ojectec Volu	Weekday Evening	E 59.8	B 10.2	E 59.9	A 2.9	A 8.2	A 0.7	В	
Yei Pro	Peak Hour	B –	17.5	B –	12.6	A –	11.5		
Letter denote Delay is mea	es Level of Servio sured in seconds	ce L – Left Turns . T – Through	R – Right Turns	5					



Table 8

CAPACITY ANALYSIS RESULTS - EXISTING CONDITIONS - UNSIGNALIZED

	Intersection	Weekday Peak	y Morning Hour	Weekday Evening Peak Hour						
		LOS	Delay	LOS	Delay					
Lace	y Road with Esplanade Road ¹									
•	Overall	В	10.1	А	9.9					
•	Eastbound Approach	В	10.5	А	9.1					
•	Westbound Approach	А	8.0	В	10.1					
•	Northbound Approach	А	8.6	В	10.2					
Lace	y Road with Access Road ²									
•	Eastbound Left Turn	В	11.4	В	10.1					
•	Eastbound Right Turn	В	10.2	А	8.7					
•	Northbound Left Turn	А	8.0	А	7.4					
Lace	y Road with Woodcreek Drive (South) ²									
•	Eastbound Left Turn	С	16.8	В	11.5					
•	Eastbound Right Turn	А	9.3	А	9.4					
•	Northbound Left Turn	А	8.6	А	7.6					
LOS = Level of Service1 – All-way stop controlDelay is Measured in Seconds2 – Two-way stop control										



Table 9

CAPACITY ANALYSIS RESULTS – YEAR 2029 NO-BUILD CONDITIONS UNSIGNALIZED

	Intersection	Weekday Peak	Morning Hour	Weekday Evening Peak Hour				
		LOS	Delay	LOS	Delay			
Lace	y Road with Esplanade Road ¹							
•	Overall	В	10.2	В	10.1			
•	Eastbound Approach	В	10.7	А	9.1			
•	Westbound Approach	А	8.1	В	10.3			
•	Northbound Approach	А	8.7	В	10.3			
Lace	y Road with Access Road ²							
•	Eastbound Left Turn	В	11.5	В	10.2			
•	Eastbound Right Turn	В	10.3	А	8.8			
•	Northbound Left Turn	А	8.1	А	7.4			
Lace	y Road with Woodcreek Drive (South) ²							
•	Eastbound Left Turn	С	17.4	В	11.7			
•	Eastbound Right Turn	А	9.4	А	9.5			
•	Northbound Left Turn	А	8.7	А	7.6			
LOS = Delay	Level of Service1 – All-way stop cis Measured in Seconds2 – Two-way stop	ontrol control						



Table 10

CAPACITY ANALYSIS RESULTS – YEAR 2029 TOTAL PROJECTED CONDITIONS UNSIGNALIZED

	Intersection	Weekday Peak	y Morning KHour	Weekday Evening Peak Hour				
		LOS	Delay	LOS	Delay			
Lace	y Road with Esplanade Road ¹							
•	Overall	В	10.4	В	10.5			
•	Eastbound Approach	В	11.0	А	9.5			
•	Westbound Approach	А	8.2	В	10.9			
•	Northbound Approach	А	8.8	В	10.7			
Lace	y Road with Access Road ²							
•	Eastbound Left Turn	В	11.7	В	10.4			
•	Eastbound Right Turn	В	10.4	А	8.9			
•	Northbound Left Turn	А	8.1	А	7.5			
Lace	y Road with the Site Access Drive							
•	Eastbound Approach	А	9.1	А	8.8			
Lace	y Road with Woodcreek Drive (South) ²							
•	Eastbound Left Turn	С	20.8	В	12.6			
•	Eastbound Right Turn	А	9.5	А	9.6			
•	Northbound Left Turn	А	8.9	А	7.7			
Woo	dcreek Drive with the West Site Access	Drive						
•	Eastbound Left Turn	А	8.0	А	7.3			
•	Southbound Approach	В	11.3	А	9.7			
Woo	dcreek Drive with the East Site Access I	Drive						
•	Eastbound Left Turn	А	8.0	А	7.3			
•	Southbound Approach	В	11.6	В	10.0			
LOS = Delay	= Level of Service 1 – All-way stop co is Measured in Seconds 2 – Two-way stop	ontrol control						





Discussion and Recommendations

The following summarizes how the intersections are projected to operate and identifies any roadway and traffic control improvements necessary to accommodate the development-generated traffic.

Butterfield Road with Woodcreek Drive and Llyod Avenue

The results of the capacity analyses indicate that the intersection currently operates at an overall Level of Service (LOS) C during the weekday morning peak hour and LOS B during the weekday evening peak hour. It should be noted that multiple left-turn movements operate at LOS E or F during the peak hours. This is the result of the long cycle length (125 to 135 seconds during the peak hours) and the protected only operation of these movements. However, all left-turn movements operate with a volume to capacity (v/c) ratio of less than one and 95th percentile queues that can be accommodated within the existing turn lanes. Under Year 2029 no-build conditions, this intersection is projected to continue to operate at an overall LOS C during the weekday morning peak hour and LOS B during the weekday evening peak hour.

Under Year 2029 total projected conditions, this intersection is projected to continue to operate at an overall LOS C during the weekday morning peak hour and LOS B during the weekday evening peak hour with increases in delay of approximately one second over no-build conditions. Multiple left-turn movements are projected to continue to operate at LOS E or F. However, as is the case under existing conditions, these movements are projected to operate with a v/c ratio of less than one and 95th percentile queues that can be accommodate. Overall, the proposed development is projected to increase the volume of traffic traversing this intersection by approximately two percent or less. As such, the intersection has sufficient reserve capacity to accommodate the traffic to be generated by the development and no roadway improvements or traffic control modifications are required.

Butterfield Road with Esplanade Road

The results of the capacity analyses indicate that the intersection currently operates at an overall LOS A during the weekday morning peak hour and LOS B during the weekday evening peak hour. It should be noted that multiple left-turn movements operate at LOS E or F during the peak hours. As with the intersection of Butterfield Road with Woodcreek Drive and Llyod Avenue, this is the result of the long cycle length (125 to 135 seconds during the peak hours) and the protected only operation of these movements. However, all left-turn movements operate with a v/c ratio of less than one and 95th percentile queues that can be accommodated within the existing turn lanes. Under Year 2029 no-build conditions, this intersection is projected to continue to operate at an overall LOS A during the weekday morning peak hour and LOS B during the weekday evening peak hour.

Under Year 2029 total projected conditions, this intersection is projected to continue to operate at an overall LOS A during the weekday morning peak hour and LOS B during the weekday evening peak hour with increases in delay of less than one second over no-build conditions. Multiple left-turn movements are projected to continue to operate at LOS E or F. However, as is the case under existing conditions, these movements are projected to operate with a v/c ratio of less than one and 95th percentile queues that can be accommodated. Further, the proposed development is not projected to increase the volume of left-turn movements at this intersection. Overall, the proposed



development is projected to increase the volume of traffic traversing this intersection by approximately two percent or less. As such, the intersection has sufficient reserve capacity to accommodate the traffic to be generated by the development and no roadway improvements or traffic control modifications are required.

Lacey Road with Woodcreek Drive (North)

The results of the capacity analyses indicate that the intersection currently operates at an overall LOS A during the weekday morning peak hour and LOS C during the weekday evening peak hour. It should be noted that the eastbound left-turn movement operates at LOS E during the peak hours. As with the intersection of Butterfield Road with Woodcreek Drive and Llyod Avenue, this is the result of the long cycle length (125 to 135 seconds during the peak hours) and the protected only operation of this movement. However, all left-turn movements operate with a volume to capacity (v/c) ratio of less than one and 95th percentile queues that can be accommodated within the existing turn lanes. Under Year 2029 no-build conditions, this intersection is projected to continue to operate at an overall LOS A during the weekday morning peak hour and LOS C during the weekday evening peak hour.

Under Year 2029 total projected conditions, this intersection is projected to continue to operate at an overall LOS A during the weekday morning peak hour and LOS C during the weekday evening peak hour with increases in delay of approximately one second or less over no-build conditions. The eastbound left-turn movements is projected to continue to operate at LOS E during both peak hours. However, as is the case under existing conditions, these movements are projected to operate with a v/c ratio of less than one and 95th percentile queues that can be accommodated. As such, the intersection has sufficient reserve capacity to accommodate the traffic to be generated by the development and no roadway improvements or traffic control modifications are required.

Lacey Road with Finley Road

The results of the capacity analyses indicate that the intersection currently operates at an overall LOS B during the weekday morning and weekday evening peak hours. It should be noted that multiple left-turn movements operate at LOS D or E during the peak hours. As with the other area signalized intersections, this is the result of the long cycle length (125 to 135 seconds during the peak hours) and the protected only operation of these movements. However, all left-turn movements operate with a v/c ratio of less than one and 95th percentile queues that can be accommodated within the existing turn lanes. Under Year 2029 no-build conditions, this intersection is projected to continue to operate at an overall LOS B during the weekday morning and weekday evening peak hours.

Under Year 2029 total projected conditions, this intersection is projected to continue to operate at an overall LOS B during the weekday morning and weekday evening peak hours with increases in delay of less than one second over no-build conditions. Multiple left-turn movements are projected to continue to operate at LOS D or E. However, as is the case under existing conditions, these movements are projected to operate with a v/c ratio of less than one and 95th percentile queues that can be accommodated. Overall, the proposed development is projected to increase the volume of traffic traversing this intersection by less than two percent. As such, the intersection has sufficient reserve capacity to accommodate the traffic to be generated by the development and no roadway improvements or traffic control modifications are required.



Lacey Road with Esplanade Road

The results of the capacity analyses indicate that overall, this intersection currently operates at LOS B during the weekday morning peak hour and LOS A during the weekday evening peak hour. Further, all movements operate at LOS A or better. Under Year 2029 no-build conditions, this intersection is projected to operate at LOS B during both peak hours.

Under Year 2029 total projected conditions, this intersection is projected to operate at LOS B during both peak hours. Further, all movements are projected to continue to operate at LOS B or better. As such, the intersection has sufficient reserve capacity to accommodate the traffic to be generated by the development and no roadway improvements or traffic control modifications are required.

Lacey Road with the Access Road

The results of the capacity analyses indicate that all critical movements at this intersection operate at LOS B or better during the weekday morning and weekday evening peak hours. Under Year 2028 no-build and total projected conditions, all critical movements at this intersection are projected to continue to operate at the same levels of service during both peak hours with increases in delay of less than one second. As such, the intersection has sufficient reserve capacity to accommodate the traffic to be generated by the development and no roadway improvements or traffic control modifications are required.

Lacey Road with the Site Access Drive

As proposed, right-in/right-out access drive will be provided on Lacey Road located approximately 300 feet north of Woodcreek Drive. The access drive will provide one inbound lane and one outbound lane with left-turn movements restricted via the median on Lacey Road. Outbound movements will be under stop sign control.

Under Year 2029 total projected conditions, outbound movements from the access drive are projected to operate at LOS A during the weekday morning and weekday evening peak hours. When the projected traffic volumes at this access drive are compared to the right-turn lane guidelines in Chapter 36 of IDOT's BDE Manual, a southbound right-turn lane is not warranted on Lacey Road serving the access drive. As such, the proposed access drive will be sufficient to accommodate the traffic projected to be generated by the proposed development and will ensure efficient and flexible access is provided.

Lacey Road with Woodcreek Drive (South)

The results of the capacity analyses indicate that all critical movements at this intersection operate at LOS B or better during the weekday morning and weekday evening peak hours. Under Year 2028 no-build conditions, all critical movements at this intersection are projected to continue to operate at the same levels of service.

Under Year 2029 total projected conditions, all critical movements at this intersection are projected to operate at LOS C or better during both peak hours. Further, 95th percentile queues for the eastbound and northbound left-turn movements will continue to be accommodated within the



existing turn lanes. When the projected traffic volumes at this intersection are compared to the right-turn lane guidelines in Chapter 36 of IDOT's BDE Manual, a southbound right-turn lane is not warranted on Lacey Road. As such, the intersection has sufficient reserve capacity to accommodate the traffic to be generated by the development and no roadway improvements or traffic control modifications are required.

Woodcreek Drive with the Site Access Drives

As proposed, two full-movement access drives will be provided on Woodcreek Drive located approximately 390 and 840 feet west of Lacey Road. The access drives will provide one inbound lane and one outbound lane with outbound movements under stop sign control. As part of the development, Woodcreek Drive will be restriped to provide separate left-turn lanes serving both site access drives and the existing access drive on the south side of Woodcreek Drive between the site access drives.

Under Year 2029 total projected conditions, outbound movements from the access drives are projected to operate at LOS B during the weekday morning and weekday evening peak hours. Further, inbound left-turn movements are projected to operate at LOS A during both peak hours. When the projected traffic volumes at these access drives are compared to the right-turn lane guidelines in Chapter 36 of IDOT's BDE Manual, no right-turn lanes will be warranted on Woodcreek Drive serving the access drives. As such, the proposed access drives will be sufficient to accommodate the traffic projected to be generated by the proposed development and will ensure efficient and flexible access is provided.

Parking Evaluation

As proposed, the development is to contain 297 apartment units in three buildings. Parking will be accommodated via a 65-space parking garage within each building and 295 exterior parking spaces for a total of 490 parking spaces. The peak parking demand of the proposed development was estimated based on the rates published in the Institute of Transportation Engineers' (ITE) *Parking Generation Manual*, 5th Edition and based on surveys conducted by KLOA, Inc. at similar area developments. Further, the parking supply was compared to the Village of Downers Grove Municipal Code.

ITE Parking Generation Manual

In reviewing the survey data published in the Institute of Transportation Engineers' (ITE) 5th Edition of the *Parking Generation Manual*, the following average peak parking demands were determined:

- Multifamily Housing Mid-Rise (Land-Use Code 221)
 - Monday-Friday: 389 spaces (ratio of 1.31 spaces per unit)
 - Saturday: 362 spaces (ratio of 1.22 spaces per unit)

As such, based on ITE *Parking Generation Manual* rates, the proposed development should provide a total of 389 parking spaces to accommodate the peak parking demand. This results in a surplus of 101 parking spaces.



KLOA, Inc. Surveys

KLOA, Inc conducted parking occupancy surveys at two similar area developments to determine their peak parking demand. The counts were conducted at Apex 41 in Lombard and at Regency Place in Oakbrook Terrace on Friday January 27, 2023 and Saturday 28, 2023. The surveys were conducted between 6:00 A.M. and 10:00 P.M. The following summarizes the results of the surveys.

- Apex 41 (760 S Highland Ave, Lombard, IL)
 - Five-Story apartment building located one mile northeast of the site.
 - o 181 total units, 174 occupied at the time of the surveys.
 - Parking Supply of 286 parking spaces (242 garage, 44 exterior)
 - Peak parking occupancy on Friday was 187 spaces.
 - Peak parking occupancy on Saturday was 201 spaces.
 - The peak parking ratio was 1.16 spaces per occupied unit (Saturday).
- Regency Place (2003 S Meyers Rd, Oakbrook Terrace, IL)
 - Four-story apartment building located 2.5 miles northeast of the site.
 - 112 total units, 112 occupied at the time of the surveys.
 - Parking Supply of 248 parking spaces (182 garage, 66 exterior).
 - Peak parking occupancy on Friday was 162 spaces.
 - Peak parking occupancy on Saturday was 167 spaces.
 - The peak parking ratio was 1.49 spaces per occupied unit (Saturday).

As such, based on the parking occupancy surveys rates, the proposed development should provide parking at a rate of 1.49 spaces per unit for a total of 443 parking spaces to accommodate the peak parking demand. This results in a surplus of 47 parking spaces.

Village of Downers Grove Requirements

The Downers Grove Municipal Code requires a parking ratio of two parking spaces per unit. The proposed development should provide a total of 594 parking spaces, which results in a deficit of 104 spaces.

Evaluation

The proposed parking supply is greater than the projected peak parking demand of the development based on ITE and the parking occupancy surveys. As such, the proposed 490-space parking capacity will adequately accommodate the parking demand of the proposed development.



6. Conclusion

Based on the preceding analyses and recommendations, the following conclusions have been made:

- As proposed, the site will be developed with three, four-story apartment buildings with 99 units each for a total of 297 units.
- The proposed development is projected to generate primarily outbound traffic during the weekday morning and inbound traffic during the weekday evening. This direction of traffic is the opposite of other area developments area which are primarily office and industrial.
- The area roadway system generally has sufficient reserve capacity to accommodate the traffic to be generated by the proposed development and no additional roadway improvements or traffic control modifications are required.
- Access to the development will be provided via a right-in/right-out access drive on Lacey Road and via two full-movement access drives on Woodcreek Drive.
- Woodcreek Drive will be restriped to provide separate left-turn lanes serving both site access drives and the existing access drive on the south side of Woodcreek Drive between the site access drives.
- The proposed access will adequately accommodate site-generated traffic and ensure that efficient and flexible access to and from the site is provided.
- Parking will be accommodated via a 65-space parking garage within each building and 295 exterior parking spaces for a total of 490 parking spaces. The proposed parking supply will be adequate in accommodating the peak parking demand of the proposed development.



Appendix

Traffic Count Summary Sheets Preliminary Site Plan ITE Trip Generation Worksheets CMAP Projections Letter Level of Service Criteria Capacity Analysis Summary Sheets

Traffic Count Summary Sheets



Rosemont, Illinois, United States 60018 (847)518-9990 abowen@kloainc.com Count Name: Butterfield Rd with Lacey Rd Site Code: Start Date: 01/04/2023 Page No: 1

										1 011	mig r	10101		Julu											
			Butter	field Rd					Butter	field Rd					Lace	ey Rd			-		Lace	ey Rd			
Ctort Times			East	bound					West	bound					North	bound					South	bound			
Start Time	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
7:00 AM	0	7	180	47	0	234	0	47	104	3	0	154	0	6	1	10	0	17	0	13	5	11	0	29	434
7:15 AM	0	11	217	55	0	283	1	110	140	10	0	261	0	4	1	4	0	9	0	14	8	24	0	46	599
7:30 AM	0	11	263	70	0	344	0	156	95	4	0	255	1	13	2	8	0	24	0	19	15	7	0	41	664
7:45 AM	0	18	293	102	0	413	0	170	136	10	0	316	0	14	0	8	0	22	0	16	16	11	0	43	794
Hourly Total	0	47	953	274	0	1274	1	483	475	27	0	986	1	37	4	30	0	72	0	62	44	53	0	159	2491
8:00 AM	0	10	258	70	0	338	0	115	109	2	0	226	0	18	3	7	0	28	0	16	10	15	0	41	633
8:15 AM	0	14	248	62	0	324	0	125	111	4	0	240	0	9	1	10	0	20	0	19	12	16	0	47	631
8:30 AM	0	10	246	49	0	305	0	70	130	6	0	206	0	11	3	11	0	25	0	14	6	20	0	40	576
8:45 AM	0	6	241	49	0	296	0	91	130	0	0	221	0	11	2	4	0	17	0	19	7	13	0	39	573
Hourly Total	0	40	993	230	0	1263	0	401	480	12	0	893	0	49	9	32	0	90	0	68	35	64	0	167	2413
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4:00 PM	0	8	226	15	0	249	1	19	298	19	0	337	0	49	9	36	0	94	0	11	4	21	0	36	716
4:15 PM	0	4	230	15	0	249	1	30	250	17	0	298	0	53	4	15	0	72	0	14	3	17	0	34	653
4:30 PM	0	7	194	14	0	215	0	27	268	16	0	311	0	62	5	52	0	119	0	8	3	15	0	26	671
4:45 PM	0	10	194	17	0	221	0	25	347	13	0	385	0	36	7	32	0	75	0	15	4	22	0	41	722
Hourly Total	0	29	844	61	0	934	2	101	1163	65	0	1331	0	200	25	135	0	360	0	48	14	75	0	137	2762
5:00 PM	0	0	1	0	0	1	0	0	4	0	0	4	0	0	0	1	0	1	0	0	0	0	0	0	6
Grand Total	0	116	2791	565	0	3472	3	985	2122	104	0	3214	1	286	38	198	0	523	0	178	93	192	0	463	7672
Approach %	0.0	3.3	80.4	16.3	-	-	0.1	30.6	66.0	3.2	-	-	0.2	54.7	7.3	37.9	-	-	0.0	38.4	20.1	41.5	-	-	-
Total %	0.0	1.5	36.4	7.4	-	45.3	0.0	12.8	27.7	1.4	-	41.9	0.0	3.7	0.5	2.6	-	6.8	0.0	2.3	1.2	2.5	-	6.0	-
Lights	0	115	2754	558	-	3427	3	971	2061	102	-	3137	1	284	38	191	-	514	0	176	93	189	-	458	7536
% Lights	-	99.1	98.7	98.8	-	98.7	100.0	98.6	97.1	98.1	-	97.6	100.0	99.3	100.0	96.5	-	98.3	-	98.9	100.0	98.4	-	98.9	98.2
Buses	0	1	2	2	-	5	0	0	3	0	-	3	0	0	0	0	-	0	0	0	0	2	-	2	10
% Buses	-	0.9	0.1	0.4	-	0.1	0.0	0.0	0.1	0.0	-	0.1	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	1.0	-	0.4	0.1
Single-Unit Trucks	0	0	20	5	-	25	0	13	31	1	-	45	0	2	0	7	-	9	0	2	0	0	-	2	81
% Single-Unit Trucks	-	0.0	0.7	0.9	-	0.7	0.0	1.3	1.5	1.0	-	1.4	0.0	0.7	0.0	3.5	-	1.7	-	1.1	0.0	0.0	-	0.4	1.1
Articulated Trucks	0	0	15	0	-	15	0	1	27	1	-	29	0	0	0	0	-	0	0	0	0	1	-	1	45
% Articulated Trucks	-	0.0	0.5	0.0	-	0.4	0.0	0.1	1.3	1.0	-	0.9	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.5	-	0.2	0.6
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Bicycles on Road	-	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
Pedestrians	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Rosemont, Illinois, United States 60018 (847)518-9990 abowen@kloainc.com Count Name: Butterfield Rd with Lacey Rd Site Code: Start Date: 01/04/2023 Page No: 2

Turning Movement Peak Hour Data (7:30 AM)

			Butterf	ield Rd					Butter	ield Rd					Lace	ey Rd					Lace	y Rd			
Start Time	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
7:30 AM	0	11	263	70	0	344	0	156	95	4	0	255	1	13	2	8	0	24	0	19	15	7	0	41	664
7:45 AM	0	18	293	102	0	413	0	170	136	10	0	316	0	14	0	8	0	22	0	16	16	11	0	43	794
8:00 AM	0	10	258	70	0	338	0	115	109	2	0	226	0	18	3	7	0	28	0	16	10	15	0	41	633
8:15 AM	0	14	248	62	0	324	0	125	111	4	0	240	0	9	1	10	0	20	0	19	12	16	0	47	631
Total	0	53	1062	304	0	1419	0	566	451	20	0	1037	1	54	6	33	0	94	0	70	53	49	0	172	2722
Approach %	0.0	3.7	74.8	21.4	-	-	0.0	54.6	43.5	1.9	-	-	1.1	57.4	6.4	35.1	-	-	0.0	40.7	30.8	28.5	-	-	-
Total %	0.0	1.9	39.0	11.2	-	52.1	0.0	20.8	16.6	0.7	-	38.1	0.0	2.0	0.2	1.2	-	3.5	0.0	2.6	1.9	1.8	-	6.3	-
PHF	0.000	0.736	0.906	0.745	-	0.859	0.000	0.832	0.829	0.500	-	0.820	0.250	0.750	0.500	0.825	-	0.839	0.000	0.921	0.828	0.766	-	0.915	0.857
Lights	0	53	1042	301	-	1396	0	559	425	18	-	1002	1	53	6	29	-	89	0	69	53	47	-	169	2656
% Lights	-	100.0	98.1	99.0	-	98.4	-	98.8	94.2	90.0	-	96.6	100.0	98.1	100.0	87.9	-	94.7	-	98.6	100.0	95.9	-	98.3	97.6
Buses	0	0	1	0	-	1	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	1	-	1	2
% Buses	-	0.0	0.1	0.0	-	0.1	-	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	2.0	-	0.6	0.1
Single-Unit Trucks	0	0	11	3	-	14	0	6	15	1	-	22	0	1	0	4	-	5	0	1	0	0	-	1	42
% Single-Unit Trucks	-	0.0	1.0	1.0	-	1.0	-	1.1	3.3	5.0	-	2.1	0.0	1.9	0.0	12.1	-	5.3	-	1.4	0.0	0.0	-	0.6	1.5
Articulated Trucks	0	0	8	0	-	8	0	1	11	1	-	13	0	0	0	0	-	0	0	0	0	1	-	1	22
% Articulated Trucks	-	0.0	0.8	0.0	-	0.6	-	0.2	2.4	5.0	-	1.3	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	2.0	-	0.6	0.8
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Bicycles on Road	-	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
Pedestrians	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Rosemont, Illinois, United States 60018 (847)518-9990 abowen@kloainc.com Count Name: Butterfield Rd with Lacey Rd Site Code: Start Date: 01/04/2023 Page No: 3

Turning Movement Peak Hour Data (4:00 PM)

			Butterf	ield Rd					Butter	field Rd					Lace	y Rd					Lace	y Rd			
			East	bound					West	bound					North	bound					South	bound			
Start Time	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
4:00 PM	0	8	226	15	0	249	1	19	298	19	0	337	0	49	9	36	0	94	0	11	4	21	0	36	716
4:15 PM	0	4	230	15	0	249	1	30	250	17	0	298	0	53	4	15	0	72	0	14	3	17	0	34	653
4:30 PM	0	7	194	14	0	215	0	27	268	16	0	311	0	62	5	52	0	119	0	8	3	15	0	26	671
4:45 PM	0	10	194	17	0	221	0	25	347	13	0	385	0	36	7	32	0	75	0	15	4	22	0	41	722
Total	0	29	844	61	0	934	2	101	1163	65	0	1331	0	200	25	135	0	360	0	48	14	75	0	137	2762
Approach %	0.0	3.1	90.4	6.5	-	-	0.2	7.6	87.4	4.9	-	-	0.0	55.6	6.9	37.5	-	-	0.0	35.0	10.2	54.7	-	-	-
Total %	0.0	1.0	30.6	2.2	-	33.8	0.1	3.7	42.1	2.4	-	48.2	0.0	7.2	0.9	4.9	-	13.0	0.0	1.7	0.5	2.7	-	5.0	-
PHF	0.000	0.725	0.917	0.897	-	0.938	0.500	0.842	0.838	0.855	-	0.864	0.000	0.806	0.694	0.649	-	0.756	0.000	0.800	0.875	0.852	-	0.835	0.956
Lights	0	29	841	59	-	929	2	100	1159	65	-	1326	0	200	25	134	-	359	0	48	14	74	-	136	2750
% Lights	-	100.0	99.6	96.7	-	99.5	100.0	99.0	99.7	100.0	-	99.6	-	100.0	100.0	99.3	-	99.7	-	100.0	100.0	98.7	-	99.3	99.6
Buses	0	0	1	2	-	3	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	1	-	1	4
% Buses	-	0.0	0.1	3.3	-	0.3	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	1.3	-	0.7	0.1
Single-Unit Trucks	0	0	2	0	-	2	0	1	2	0	-	3	0	0	0	1	-	1	0	0	0	0	-	0	6
% Single-Unit Trucks	-	0.0	0.2	0.0	-	0.2	0.0	1.0	0.2	0.0	-	0.2	-	0.0	0.0	0.7	-	0.3	-	0.0	0.0	0.0	-	0.0	0.2
Articulated Trucks	0	0	0	0	-	0	0	0	2	0	-	2	0	0	0	0	-	0	0	0	0	0	-	0	2
% Articulated Trucks	-	0.0	0.0	0.0	-	0.0	0.0	0.0	0.2	0.0	-	0.2	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	0.1
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Bicycles on Road	-	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
Pedestrians	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-



Rosemont, Illinois, United States 60018 (847)518-9990 abowen@kloainc.com Count Name: Lacey Rd with Access Rd Site Code: Start Date: 01/04/2023 Page No: 1

	I.					1 MIT	inig me									
			Access Rd					Lacey Rd					Lacey Rd			
Stort Time			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
7:00 AM	0	0	0	0	0	0	11	6	0	17	0	26	0	0	26	43
7:15 AM	0	0	2	0	2	0	7	11	0	18	0	34	2	0	36	56
7:30 AM	0	1	0	0	1	0	8	22	0	30	0	46	3	0	49	80
7:45 AM	0	0	0	0	0	1	13	26	0	40	0	78	4	0	82	122
Hourly Total	0	1	2	0	3	1	39	65	0	105	0	184	9	0	193	301
8:00 AM	0	1	0	0	1	0	10	20	0	30	0	61	3	0	64	95
8:15 AM	0	1	3	0	4	1	17	25	0	43	1	48	6	0	55	102
8:30 AM	0	0	2	0	2	0	13	23	0	36	1	33	0	0	34	72
8:45 AM	0	1	2	1	3	1	7	21	0	29	0	51	2	0	53	85
Hourly Total	0	3	7	1	10	2	47	89	0	138	2	193	11	0	206	354
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4:00 PM	0	5	7	0	12	0	1	73	0	74	0	14	0	0	14	100
4:15 PM	0	2	14	0	16	0	0	70	0	70	0	22	0	0	22	108
4:30 PM	0	8	13	0	21	0	1	61	0	62	0	14	0	0	14	97
4:45 PM	0	0	8	0	8	0	0	45	0	45	0	17	1	0	18	71
Hourly Total	0	15	42	0	57	0	2	249	0	251	0	67	1	0	68	376
5:00 PM	0	4	18	0	22	0	0	65	0	65	0	21	0	0	21	108
5:15 PM	0	2	7	0	9	0	1	67	0	68	0	25	0	0	25	102
5:30 PM	0	5	7	0	12	0	0	51	0	51	0	18	1	0	19	82
5:45 PM	0	1	4	0	5	0	2	31	0	33	0	12	0	0	12	50
Hourly Total	0	12	36	0	48	0	3	214	0	217	0	76	1	0	77	342
Grand Total	0	31	87	1	118	3	91	617	0	711	2	520	22	0	544	1373
Approach %	0.0	26.3	73.7	-	-	0.4	12.8	86.8	-	-	0.4	95.6	4.0	-	-	-
Total %	0.0	2.3	6.3	-	8.6	0.2	6.6	44.9	-	51.8	0.1	37.9	1.6	-	39.6	-
Lights	0	31	84	-	115	3	90	612	-	705	2	508	21	-	531	1351
% Lights	-	100.0	96.6	-	97.5	100.0	98.9	99.2	-	99.2	100.0	97.7	95.5	-	97.6	98.4
Buses	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Buses	-	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	0.0
Single-Unit Trucks	0	0	3	-	3	0	1	5	-	6	0	12	1	-	13	22
% Single-Unit Trucks	-	0.0	3.4	-	2.5	0.0	1.1	0.8	-	0.8	0.0	2.3	4.5	-	2.4	1.6
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	0.0
Bicycles on Road	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Bicycles on Road	-	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	0.0
Pedestrians	-	-		1			-		0	-	-	-	-	0		-
% Pedestrians	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	-



Rosemont, Illinois, United States 60018 (847)518-9990 abowen@kloainc.com Count Name: Lacey Rd with Access Rd Site Code: Start Date: 01/04/2023 Page No: 2

Turning Movement Peak Hour Data (7:30 AM)

						,										
			Access Rd					Lacey Rd					Lacey Rd			
Start Time			Eastbound					Northbound					Southbound			
	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
7:30 AM	0	1	0	0	1	0	8	22	0	30	0	46	3	0	49	80
7:45 AM	0	0	0	0	0	1	13	26	0	40	0	78	4	0	82	122
8:00 AM	0	1	0	0	1	0	10	20	0	30	0	61	3	0	64	95
8:15 AM	0	1	3	0	4	1	17	25	0	43	1	48	6	0	55	102
Total	0	3	3	0	6	2	48	93	0	143	1	233	16	0	250	399
Approach %	0.0	50.0	50.0	-	-	1.4	33.6	65.0	-	-	0.4	93.2	6.4	-	-	-
Total %	0.0	0.8	0.8	-	1.5	0.5	12.0	23.3	-	35.8	0.3	58.4	4.0	-	62.7	-
PHF	0.000	0.750	0.250	-	0.375	0.500	0.706	0.894	-	0.831	0.250	0.747	0.667	-	0.762	0.818
Lights	0	3	1	-	4	2	47	90	-	139	1	226	15	-	242	385
% Lights	-	100.0	33.3	-	66.7	100.0	97.9	96.8	-	97.2	100.0	97.0	93.8	-	96.8	96.5
Buses	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Buses	-	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	0.0
Single-Unit Trucks	0	0	2	-	2	0	1	3	-	4	0	7	1	-	8	14
% Single-Unit Trucks	-	0.0	66.7	-	33.3	0.0	2.1	3.2	-	2.8	0.0	3.0	6.3	-	3.2	3.5
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	0.0
Bicycles on Road	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Bicycles on Road	-	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Rosemont, Illinois, United States 60018 (847)518-9990 abowen@kloainc.com Count Name: Lacey Rd with Access Rd Site Code: Start Date: 01/04/2023 Page No: 3

Turning Movement Peak Hour Data (4:30 PM)

			Access Rd					Lacey Rd					Lacey Rd			
Ohard Times			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
4:30 PM	0	8	13	0	21	0	1	61	0	62	0	14	0	0	14	97
4:45 PM	0	0	8	0	8	0	0	45	0	45	0	17	1	0	18	71
5:00 PM	0	4	18	0	22	0	0	65	0	65	0	21	0	0	21	108
5:15 PM	0	2	7	0	9	0	1	67	0	68	0	25	0	0	25	102
Total	0	14	46	0	60	0	2	238	0	240	0	77	1	0	78	378
Approach %	0.0	23.3	76.7	-	-	0.0	0.8	99.2	-	-	0.0	98.7	1.3	-	-	-
Total %	0.0	3.7	12.2	-	15.9	0.0	0.5	63.0	-	63.5	0.0	20.4	0.3	-	20.6	-
PHF	0.000	0.438	0.639	-	0.682	0.000	0.500	0.888	-	0.882	0.000	0.770	0.250	-	0.780	0.875
Lights	0	14	46	-	60	0	2	238	-	240	0	76	1	-	77	377
% Lights	-	100.0	100.0	-	100.0	-	100.0	100.0	-	100.0	-	98.7	100.0	-	98.7	99.7
Buses	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Buses	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Single-Unit Trucks	0	0	0	-	0	0	0	0	-	0	0	1	0	-	1	1
% Single-Unit Trucks	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	1.3	0.0	-	1.3	0.3
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Bicycles on Road	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Bicycles on Road	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Rosemont, Illinois, United States 60018 (847)518-9990 abowen@kloainc.com Count Name: Lacey Rd with Finley Rd Site Code: Start Date: 01/04/2023 Page No: 1

			Lacey Rd					Finley Rd					Finley Rd			
Chart Time			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
7:00 AM	0	2	12	0	14	0	52	131	0	183	0	68	19	0	87	284
7:15 AM	0	4	18	0	22	0	77	125	0	202	0	98	18	0	116	340
7:30 AM	0	3	23	0	26	0	103	172	0	275	0	104	21	0	125	426
7:45 AM	0	1	28	0	29	0	124	188	0	312	0	119	35	0	154	495
Hourly Total	0	10	81	0	91	0	356	616	0	972	0	389	93	0	482	1545
8:00 AM	0	3	21	0	24	0	102	150	0	252	0	87	23	0	110	386
8:15 AM	0	3	28	1	31	0	104	167	0	271	0	88	30	0	118	420
8:30 AM	0	7	30	0	37	0	76	142	0	218	0	94	21	0	115	370
8:45 AM	0	6	29	0	35	0	66	162	0	228	0	92	24	0	116	379
Hourly Total	0	19	108	1	127	0	348	621	0	969	0	361	98	0	459	1555
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4:00 PM	0	15	83	0	98	0	15	122	0	137	0	182	1	0	183	418
4:15 PM	0	7	84	0	91	0	23	147	0	170	1	174	7	0	182	443
4:30 PM	0	16	91	0	107	0	22	132	0	154	0	199	12	0	211	472
4:45 PM	0	12	69	0	81	0	21	139	0	160	0	170	10	0	180	421
Hourly Total	0	50	327	0	377	0	81	540	0	621	1	725	30	0	756	1754
5:00 PM	0	18	87	0	105	0	30	127	0	157	0	200	6	0	206	468
5:15 PM	0	9	67	0	76	0	25	146	0	171	0	228	7	0	235	482
5:30 PM	0	15	60	0	75	1	21	126	0	148	0	196	9	0	205	428
5:45 PM	0	6	45	0	51	1	15	110	0	126	0	150	8	0	158	335
Hourly Total	0	48	259	0	307	2	91	509	0	602	0	774	30	0	804	1713
Grand Total	0	127	775	1	902	2	876	2286	0	3164	1	2249	251	0	2501	6567
Approach %	0.0	14.1	85.9	-	-	0.1	27.7	72.3	-	-	0.0	89.9	10.0	-	-	-
Total %	0.0	1.9	11.8	-	13.7	0.0	13.3	34.8	-	48.2	0.0	34.2	3.8	-	38.1	-
Lights	0	122	753	-	875	2	864	2264	-	3130	1	2209	241	-	2451	6456
% Lights	-	96.1	97.2	-	97.0	100.0	98.6	99.0	-	98.9	100.0	98.2	96.0	-	98.0	98.3
Buses	0	1	0	-	1	0	1	6	-	7	0	6	1	-	7	15
% Buses	-	0.8	0.0	-	0.1	0.0	0.1	0.3	-	0.2	0.0	0.3	0.4	-	0.3	0.2
Single-Unit Trucks	0	4	22	-	26	0	11	12	-	23	0	18	8	-	26	75
% Single-Unit Trucks	-	3.1	2.8	-	2.9	0.0	1.3	0.5	-	0.7	0.0	0.8	3.2	-	1.0	1.1
Articulated Trucks	0	0	0	-	0	0	0	4	-	4	0	16	1	-	17	21
% Articulated Trucks	-	0.0	0.0	-	0.0	0.0	0.0	0.2	-	0.1	0.0	0.7	0.4	-	0.7	0.3
Bicycles on Road	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Bicycles on Road	-	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	1	-	-	-	-	0	-	-	-		0	-	-
% Pedestrians	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	-



Rosemont, Illinois, United States 60018 (847)518-9990 abowen@kloainc.com Count Name: Lacey Rd with Finley Rd Site Code: Start Date: 01/04/2023 Page No: 2

Turning Movement Peak Hour Data (7:30 AM)

			Lacey Rd			[Finley Rd		-			Finley Rd			
Chart Time			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
7:30 AM	0	3	23	0	26	0	103	172	0	275	0	104	21	0	125	426
7:45 AM	0	1	28	0	29	0	124	188	0	312	0	119	35	0	154	495
8:00 AM	0	3	21	0	24	0	102	150	0	252	0	87	23	0	110	386
8:15 AM	0	3	28	1	31	0	104	167	0	271	0	88	30	0	118	420
Total	0	10	100	1	110	0	433	677	0	1110	0	398	109	0	507	1727
Approach %	0.0	9.1	90.9	-	-	0.0	39.0	61.0	-	-	0.0	78.5	21.5	-	-	-
Total %	0.0	0.6	5.8	-	6.4	0.0	25.1	39.2	-	64.3	0.0	23.0	6.3	-	29.4	-
PHF	0.000	0.833	0.893	-	0.887	0.000	0.873	0.900	-	0.889	0.000	0.836	0.779	-	0.823	0.872
Lights	0	8	93	-	101	0	427	669	-	1096	0	380	109	-	489	1686
% Lights	-	80.0	93.0	-	91.8	-	98.6	98.8	-	98.7	-	95.5	100.0	-	96.4	97.6
Buses	0	0	0	-	0	0	0	2	-	2	0	3	0	-	3	5
% Buses	-	0.0	0.0	-	0.0	-	0.0	0.3	-	0.2	-	0.8	0.0	-	0.6	0.3
Single-Unit Trucks	0	2	7	-	9	0	6	6	-	12	0	9	0	-	9	30
% Single-Unit Trucks	-	20.0	7.0	-	8.2	-	1.4	0.9	-	1.1	-	2.3	0.0	-	1.8	1.7
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	6	0	-	6	6
% Articulated Trucks	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	1.5	0.0	-	1.2	0.3
Bicycles on Road	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Bicycles on Road	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	1	-	-	-	-	0	-	-	-	-	0	-	-
% Pedestrians	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	-



Rosemont, Illinois, United States 60018 (847)518-9990 abowen@kloainc.com Count Name: Lacey Rd with Finley Rd Site Code: Start Date: 01/04/2023 Page No: 3

Turning Movement Peak Hour Data (4:30 PM)

			Lacey Rd					Finley Rd					Finley Rd			
Ctart Time			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
4:30 PM	0	16	91	0	107	0	22	132	0	154	0	199	12	0	211	472
4:45 PM	0	12	69	0	81	0	21	139	0	160	0	170	10	0	180	421
5:00 PM	0	18	87	0	105	0	30	127	0	157	0	200	6	0	206	468
5:15 PM	0	9	67	0	76	0	25	146	0	171	0	228	7	0	235	482
Total	0	55	314	0	369	0	98	544	0	642	0	797	35	0	832	1843
Approach %	0.0	14.9	85.1	-	-	0.0	15.3	84.7	-	-	0.0	95.8	4.2	-	-	-
Total %	0.0	3.0	17.0	-	20.0	0.0	5.3	29.5	-	34.8	0.0	43.2	1.9	-	45.1	-
PHF	0.000	0.764	0.863	-	0.862	0.000	0.817	0.932	-	0.939	0.000	0.874	0.729	-	0.885	0.956
Lights	0	54	310	-	364	0	96	542	-	638	0	790	30	-	820	1822
% Lights	-	98.2	98.7	-	98.6	-	98.0	99.6	-	99.4	-	99.1	85.7	-	98.6	98.9
Buses	0	1	0	-	1	0	1	0	-	1	0	2	1	-	3	5
% Buses	-	1.8	0.0	-	0.3	-	1.0	0.0	-	0.2	-	0.3	2.9	-	0.4	0.3
Single-Unit Trucks	0	0	4	-	4	0	1	0	-	1	0	0	4	-	4	9
% Single-Unit Trucks	-	0.0	1.3	-	1.1	-	1.0	0.0	-	0.2	-	0.0	11.4	-	0.5	0.5
Articulated Trucks	0	0	0	-	0	0	0	2	-	2	0	5	0	-	5	7
% Articulated Trucks	-	0.0	0.0	-	0.0	-	0.0	0.4	-	0.3	-	0.6	0.0	-	0.6	0.4
Bicycles on Road	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Bicycles on Road	_	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	_	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Rosemont, Illinois, United States 60018 (847)518-9990 abowen@kloainc.com Count Name: Lacey Rd with Woodcreek Dr Site Code: Start Date: 01/04/2023 Page No: 1

						Tun	inig mo	VOINCIIL L	Jala							
			Woodcreek Dr					Lacey Rd					Lacey Rd			
Start Time			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
7:00 AM	0	0	1	0	1	0	21	16	0	37	0	22	4	0	26	64
7:15 AM	0	0	1	0	1	0	49	18	0	67	0	24	14	0	38	106
7:30 AM	0	4	9	0	13	0	55	27	0	82	0	34	21	0	55	150
7:45 AM	0	6	10	0	16	0	78	30	0	108	0	43	29	0	72	196
Hourly Total	0	10	21	0	31	0	203	91	0	294	0	123	68	0	191	516
8:00 AM	0	7	9	0	16	0	64	27	0	91	0	44	16	0	60	167
8:15 AM	0	3	12	0	15	1	52	33	0	86	0	40	8	0	48	149
8:30 AM	0	4	11	0	15	0	24	32	0	56	0	34	4	0	38	109
8:45 AM	0	7	11	0	18	2	22	20	0	44	0	43	10	0	53	115
Hourly Total	0	21	43	0	64	3	162	112	0	277	0	161	38	0	199	540
Grand Total	0	31	64	0	95	3	365	203	0	571	0	284	106	0	390	1056
Approach %	0.0	32.6	67.4	-	-	0.5	63.9	35.6	-	-	0.0	72.8	27.2	-	-	-
Total %	0.0	2.9	6.1	-	9.0	0.3	34.6	19.2	-	54.1	0.0	26.9	10.0	-	36.9	-
Lights	0	29	59	-	88	3	362	200	-	565	0	276	104	-	380	1033
% Lights	-	93.5	92.2	-	92.6	100.0	99.2	98.5	-	98.9	-	97.2	98.1	-	97.4	97.8
Buses	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Buses	-	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Single-Unit Trucks	0	2	5	-	7	0	3	3	-	6	0	8	2	-	10	23
% Single-Unit Trucks	-	6.5	7.8	-	7.4	0.0	0.8	1.5	-	1.1	-	2.8	1.9	-	2.6	2.2
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Bicycles on Road	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Bicycles on Road	-	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Rosemont, Illinois, United States 60018 (847)518-9990 abowen@kloainc.com Count Name: Lacey Rd with Woodcreek Dr Site Code: Start Date: 01/04/2023 Page No: 2

Turning Movement Peak Hour Data (7:30 AM)

			Woodcreek Dr					Lacey Rd					Lacey Rd			
Start Time			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
7:30 AM	0	4	9	0	13	0	55	27	0	82	0	34	21	0	55	150
7:45 AM	0	6	10	0	16	0	78	30	0	108	0	43	29	0	72	196
8:00 AM	0	7	9	0	16	0	64	27	0	91	0	44	16	0	60	167
8:15 AM	0	3	12	0	15	1	52	33	0	86	0	40	8	0	48	149
Total	0	20	40	0	60	1	249	117	0	367	0	161	74	0	235	662
Approach %	0.0	33.3	66.7	-	-	0.3	67.8	31.9	-	-	0.0	68.5	31.5	-	-	-
Total %	0.0	3.0	6.0	-	9.1	0.2	37.6	17.7	-	55.4	0.0	24.3	11.2	-	35.5	-
PHF	0.000	0.714	0.833	-	0.938	0.250	0.798	0.886	-	0.850	0.000	0.915	0.638	-	0.816	0.844
Lights	0	19	39	-	58	1	247	115	-	363	0	156	72	-	228	649
% Lights	-	95.0	97.5	-	96.7	100.0	99.2	98.3	-	98.9	-	96.9	97.3	-	97.0	98.0
Buses	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Buses	-	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Single-Unit Trucks	0	1	1	-	2	0	2	2	-	4	0	5	2	-	7	13
% Single-Unit Trucks	-	5.0	2.5	-	3.3	0.0	0.8	1.7	-	1.1	-	3.1	2.7	-	3.0	2.0
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Bicycles on Road	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Bicycles on Road	-	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Rosemont, Illinois, United States 60018 (847)518-9990 abowen@kloainc.com Count Name: Lacey Rd with Woodcreek Dr Site Code: Start Date: 01/04/2023 Page No: 1

			Woodcreek Dr					Lacey Rd					Lacey Rd			
Chart Time			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
7:00 AM	0	11	1	0	12	0	0	6	0	6	2	50	42	0	94	112
7:15 AM	0	4	2	0	6	0	2	5	0	7	0	74	76	0	150	163
7:30 AM	0	13	1	0	14	0	2	11	0	13	0	106	124	0	230	257
7:45 AM	0	9	2	0	11	0	1	11	0	12	0	154	137	0	291	314
Hourly Total	0	37	6	0	43	0	5	33	0	38	2	384	379	0	765	846
8:00 AM	0	10	1	0	11	0	2	15	0	17	0	128	80	0	208	236
8:15 AM	0	9	1	0	10	0	5	12	0	17	0	127	65	0	192	219
8:30 AM	0	14	3	0	17	0	2	11	0	13	1	91	23	0	115	145
8:45 AM	0	9	3	0	12	0	2	8	0	10	0	100	51	0	151	173
Hourly Total	0	42	8	0	50	0	11	46	0	57	1	446	219	0	666	773
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4:00 PM	0	66	6	0	72	0	2	31	0	33	0	25	12	0	37	142
4:15 PM	0	29	4	0	33	0	0	44	0	44	0	28	19	0	47	124
4:30 PM	0	70	4	0	74	0	0	45	0	45	0	23	24	0	47	166
4:45 PM	0	53	5	0	58	0	2	30	0	32	0	28	17	0	45	135
Hourly Total	0	218	19	0	237	0	4	150	0	154	0	104	72	0	176	567
5:00 PM	0	76	3	0	79	0	0	40	0	40	0	30	19	0	49	168
5:15 PM	0	48	3	0	51	0	0	37	0	37	0	25	20	0	45	133
5:30 PM	0	33	7	0	40	0	0	37	0	37	0	28	14	0	42	119
5:45 PM	0	23	2	0	25	0	0	26	0	26	0	27	16	0	43	94
Hourly Total	0	180	15	0	195	0	0	140	0	140	0	110	69	0	179	514
Grand Total	0	477	48	0	525	0	20	369	0	389	3	1044	739	0	1786	2700
Approach %	0.0	90.9	9.1	-	-	0.0	5.1	94.9	-	-	0.2	58.5	41.4	-	-	-
Total %	0.0	17.7	1.8	-	19.4	0.0	0.7	13.7	-	14.4	0.1	38.7	27.4	-	66.1	-
Lights	0	466	47	-	513	0	19	367	-	386	3	1029	731	-	1763	2662
% Lights	-	97.7	97.9	-	97.7	-	95.0	99.5	-	99.2	100.0	98.6	98.9	-	98.7	98.6
Buses	0	1	0	-	1	0	0	0	-	0	0	0	0	-	0	1
% Buses	-	0.2	0.0	-	0.2	-	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	0.0
Single-Unit Trucks	0	10	1	-	11	0	1	2	-	3	0	14	8	-	22	36
% Single-Unit Trucks	-	2.1	2.1	-	2.1	-	5.0	0.5	-	0.8	0.0	1.3	1.1	-	1.2	1.3
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	1	0	-	1	1
% Articulated Trucks	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0	0.1	0.0	-	0.1	0.0
Bicycles on Road	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Bicycles on Road	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-		-	-	-	-		-	-	-



Rosemont, Illinois, United States 60018 (847)518-9990 abowen@kloainc.com Count Name: Lacey Rd with Woodcreek Dr Site Code: Start Date: 01/04/2023 Page No: 2

Turning Movement Peak Hour Data (7:30 AM)

			Woodcreek Dr Eastbound					Lacey Rd Northbound					Lacey Rd Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
7:30 AM	0	13	1	0	14	0	2	11	0	13	0	106	124	0	230	257
7:45 AM	0	9	2	0	11	0	1	11	0	12	0	154	137	0	291	314
8:00 AM	0	10	1	0	11	0	2	15	0	17	0	128	80	0	208	236
8:15 AM	0	9	1	0	10	0	5	12	0	17	0	127	65	0	192	219
Total	0	41	5	0	46	0	10	49	0	59	0	515	406	0	921	1026
Approach %	0.0	89.1	10.9	-	-	0.0	16.9	83.1	-	-	0.0	55.9	44.1	-	-	-
Total %	0.0	4.0	0.5	-	4.5	0.0	1.0	4.8	-	5.8	0.0	50.2	39.6	-	89.8	-
PHF	0.000	0.788	0.625	-	0.821	0.000	0.500	0.817	-	0.868	0.000	0.836	0.741	-	0.791	0.817
Lights	0	37	4	-	41	0	10	48	-	58	0	507	404	-	911	1010
% Lights	-	90.2	80.0	-	89.1	-	100.0	98.0	-	98.3	-	98.4	99.5	-	98.9	98.4
Buses	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Buses	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Single-Unit Trucks	0	4	1	-	5	0	0	1	-	1	0	7	2	-	9	15
% Single-Unit Trucks	-	9.8	20.0	-	10.9	-	0.0	2.0	-	1.7	-	1.4	0.5	-	1.0	1.5
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	1	0	-	1	1
% Articulated Trucks	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.2	0.0	-	0.1	0.1
Bicycles on Road	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Bicycles on Road	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Rosemont, Illinois, United States 60018 (847)518-9990 abowen@kloainc.com Count Name: Lacey Rd with Woodcreek Dr Site Code: Start Date: 01/04/2023 Page No: 3

Turning Movement Peak Hour Data (4:30 PM)

			Woodcreek Dr					Lacey Rd	·				Lacey Rd			
Start Time			Eastbound					Northbound								
	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
4:30 PM	0	70	4	0	74	0	0	45	0	45	0	23	24	0	47	166
4:45 PM	0	53	5	0	58	0	2	30	0	32	0	28	17	0	45	135
5:00 PM	0	76	3	0	79	0	0	40	0	40	0	30	19	0	49	168
5:15 PM	0	48	3	0	51	0	0	37	0	37	0	25	20	0	45	133
Total	0	247	15	0	262	0	2	152	0	154	0	106	80	0	186	602
Approach %	0.0	94.3	5.7	-	-	0.0	1.3	98.7	-	-	0.0	57.0	43.0	-	-	-
Total %	0.0	41.0	2.5	-	43.5	0.0	0.3	25.2	-	25.6	0.0	17.6	13.3	-	30.9	-
PHF	0.000	0.813	0.750	-	0.829	0.000	0.250	0.844	-	0.856	0.000	0.883	0.833	-	0.949	0.896
Lights	0	242	15	-	257	0	2	152	-	154	0	105	78	-	183	594
% Lights	-	98.0	100.0	-	98.1	-	100.0	100.0	-	100.0	-	99.1	97.5	-	98.4	98.7
Buses	0	1	0	-	1	0	0	0	-	0	0	0	0	-	0	1
% Buses	-	0.4	0.0	-	0.4	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.2
Single-Unit Trucks	0	4	0	-	4	0	0	0	-	0	0	1	2	-	3	7
% Single-Unit Trucks	-	1.6	0.0	-	1.5	-	0.0	0.0	-	0.0	-	0.9	2.5	-	1.6	1.2
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Bicycles on Road	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Bicycles on Road	-	0.0	0.0	-	0.0	_	0.0	0.0	-	0.0	_	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	0	-	_	-	-	0	-	_	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Rosemont, Illinois, United States 60018 (847)518-9990 Count Name: Butterfield Road with Esplanade Road Site Code: Start Date: 10/24/2017 Page No: 1

	Butterfield Road						Butterfield Road							Esplanade Road							Esplanade Road						
Start Time	U-Turn	Left	Thru	Right	Peds	App.	U-Turn	Left	Thru	Right	Peds	App.	U-Turn	Left	Thru	Right	Peds	App.	U-Turn	Left	Thru	Right	Peds	App.	Int. Total		
7:00 AM	0	0	412		0	10tai	1	0	211	17	0	1 0tai	0	0		5	0	Iotai	0	25	0		0	10tai	794		
7.00 AM	0	0	413			421		0	270			329	0	0		 	0	0	0	20		4		29	040		
7:15 AM	0	5	423	0	0	420		0	370	17	0	3/0	0	0	0	0	0	0	0	22	0	12	0	34	040		
7:30 AM	0	0	403		0	409	0	0	441	17	0	400	0	0		10	0	10	0	20		9	0	30	906		
7:45 AM	0	9	1602	0		3/3		0	4/4	14 		409	0	0	0	10	0	10	0	23					914		
	0	0	1603	0	0	204	3	0	1590	00	0	1004	0	0	0	5/	0	51	0	90	0	30	0	132	3434		
0.00 AM	0	9	295		0	304	0	0	307	10	0	303	0	0		5	0	5	0	19		15	0	30	774		
6.15 AM	0	10	311	0	0	321	0	0	300	20		413	0	0			0	4	0	21		15	0		0.15		
8:30 AM	0	17	349		0	366	0	0	408	31	0	439	0	0		8	0	8	0	18		14	0	32	845		
8:45 AM	0	10	312	0	0	322	0	0	448	23	0	471	0	0	0	14	1	14	0	28	0	16	0	44	851		
	0	40	1207	0	. 0	1313	0	0	1000	90	0	1700	0	0	0	31	1	31	0	00	0	00	. 0	142	3192		
DREAK	-	-	-	-	-	-	-	-	-	-	-		-	-	-	- 110	-	-	-	-	-	-	-	-	-		
4:00 PM	0	17	300	0	0	323	0	0	410	33	0	449	0	0	0	100	0	100	0	21	0	29	0	30	944		
4.13 FM	0	47	321			349	0	0	100	40		520	0	0		100	0	100	0	21		- 19	0	40	1040		
4:30 PM	0	17	300	0	0	373	0	0	409	49	0	530	0	0	0	124	0	124	0	30	0	21	0	03	1090		
4:45 PM	0	72	1202	0	0	1266	0	0	401	40	0	2050	0	0	0	140	0	140	0	106	0	23	0	40	1033		
Fill Fill Fill Fill Fill Fill Fill Fill	0	21	412			1300	1	0	452	22		2009	0	0		494	0	494	0	21		90	0	 	4123		
5.00 PM	0	21	412		0	433	0	0	402		0	400	0	0		147	0	100	0	20		20	0	57	1114		
5:30 PM	0	14	381		0	305	0	0	523	31	0	554	0	0		11/	0	147	0	27	0	32	0	50	1114		
5:45 PM	0	14	350		0	360	0	0	441	38		470	0	0				67	0	21		- 32	0		060		
Hourly Total	0	82	1557		0	1630	1	0	1838	150	0	1080	0	0		481	0	481	0	110	0	105	0	215	4324		
Grand Total	0	220	5720		0	59/9	1	0	6033	/71	0	7/08	0	0		10/13	1	10/13	0	308		295	0	603	15003		
Approach %	0.0	3.8	96.2			-	0.1	0.0	93.6	6.4		-	0.0	0.0		100.0		-	0.0	57.4		42.6			-		
Total %	0.0	1.5	37.9	0.0		39.4	0.0	0.0	45.9	3.1		49 1	0.0	0.0	0.0	6.9		6.9	0.0	2.6	0.0	2.0	_	4.6			
Lights	0.0	227	5649	0.0	-	5876	4	0.0	6854	460	-	7318	0.0	0.0	0.0	1040	-	1040	0.0	384	0.0	290	-	674	14908		
% Lights	-	99.1	98.8	-	-	98.8	100.0	-	98.9	97.7	-	98.8	-	-		99.7	-	99.7	-	96.5		98.3	-	97.3	98.8		
Buses	0	1	14	0	_	15	0	0	23	1	-	24	0	0	0	0	-	0	0	3	0	1	_	4	43		
% Buses	-	0.4	0.2	-	-	0.3	0.0	-	0.3	0.2	-	0.3	-	-	-	0.0	-	0.0	-	0.8	-	0.3	-	0.6	0.3		
Single-Unit Trucks	0	1	43	0	-	44	0	0	44	8	-	52	0	0	0	3	-	3	0	7	0	4	-	11	110		
% Single-Unit Trucks	-	0.4	0.8	-	-	0.7	0.0	-	0.6	1.7	-	0.7	-	-	-	0.3	-	0.3	-	1.8	-	1.4	-	1.6	0.7		
Articulated Trucks	0	0	14	0	-	14	0	0	12	2	-	14	0	0	0	0	-	0	0	4	0	0	-	4	32		
% Articulated Trucks	-	0.0	0.2	-	-	0.2	0.0	-	0.2	0.4	-	0.2	-	-	-	0.0	-	0.0	-	1.0	-	0.0	-	0.6	0.2		
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0		


Kenig Lindgren O'Hara Aboona, Inc. 9575 W. Higgins Rd., Suite 400

Rosemont, Illinois, United States 60018 (847)518-9990 Count Name: Butterfield Road with Esplanade Road Site Code: Start Date: 10/24/2017 Page No: 3

Turning Movement Peak Hour Data (7:30 AM)

			Butterfie Eastt	eld Road bound					Butterfie West	eld Road bound					Esplana Northl	de Road bound					Esplana South	de Road bound			
Start Time	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
7:30 AM	0	6	403	0	0	409	0	0	441	17	0	458	0	0	0	6	0	6	0	26	0	9	0	35	908
7:45 AM	0	9	364	0	0	373	1	0	474	14	0	489	0	0	0	18	0	18	0	23	0	11	0	34	914
8:00 AM	0	9	295	0	0	304	0	0	367	16	0	383	0	0	0	5	0	5	0	19	0	11	0	30	722
8:15 AM	0	10	311	0	0	321	0	0	385	28	0	413	0	0	0	4	0	4	0	21	0	15	0	36	774
Total	0	34	1373	0	0	1407	1	0	1667	75	0	1743	0	0	0	33	0	33	0	89	0	46	0	135	3318
Approach %	0.0	2.4	97.6	0.0	-	-	0.1	0.0	95.6	4.3	-	-	0.0	0.0	0.0	100.0	-	-	0.0	65.9	0.0	34.1	-	-	-
Total %	0.0	1.0	41.4	0.0	-	42.4	0.0	0.0	50.2	2.3	-	52.5	0.0	0.0	0.0	1.0	-	1.0	0.0	2.7	0.0	1.4	-	4.1	-
PHF	0.000	0.850	0.852	0.000	-	0.860	0.250	0.000	0.879	0.670	-	0.891	0.000	0.000	0.000	0.458	-	0.458	0.000	0.856	0.000	0.767	-	0.938	0.908
Lights	0	34	1350	0	-	1384	1	0	1641	69	-	1711	0	0	0	31	-	31	0	87	0	45	-	132	3258
% Lights	-	100.0	98.3	-	-	98.4	100.0	-	98.4	92.0	-	98.2	-	-	-	93.9	-	93.9	-	97.8	-	97.8	-	97.8	98.2
Buses	0	0	3	0	-	3	0	0	6	1	-	7	0	0	0	0	-	0	0	2	0	1	-	3	13
% Buses	-	0.0	0.2	-	-	0.2	0.0	-	0.4	1.3	-	0.4	-	-	-	0.0	-	0.0	-	2.2	-	2.2	-	2.2	0.4
Single-Unit Trucks	0	0	10	0	-	10	0	0	17	4	-	21	0	0	0	2	-	2	0	0	0	0	-	0	33
% Single-Unit Trucks	-	0.0	0.7	-	-	0.7	0.0	-	1.0	5.3	-	1.2	-	-	-	6.1	-	6.1	-	0.0	-	0.0	-	0.0	1.0
Articulated Trucks	0	0	10	0	-	10	0	0	3	1	-	4	0	0	0	0	-	0	0	0	0	0	-	0	14
% Articulated Trucks	-	0.0	0.7	-	-	0.7	0.0	-	0.2	1.3	-	0.2	-	-	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	0.4
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Bicycles on Road	-	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
Pedestrians	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Kenig Lindgren O'Hara Aboona, Inc. 9575 W. Higgins Rd., Suite 400

Rosemont, Illinois, United States 60018 (847)518-9990 Count Name: Butterfield Road with Esplanade Road Site Code: Start Date: 10/24/2017 Page No: 4

Turning Movement Peak Hour Data (4:30 PM)

			Butterfie Eastl	eld Road bound					Butterfie West	eld Road bound					Esplana Northl	de Road bound					Esplanad Southl	de Road bound			
Start Time	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
4:30 PM	0	17	356	0	0	373	0	0	489	49	0	538	0	0	0	124	0	124	0	36	0	27	0	63	1098
4:45 PM	0	17	304	0	0	321	0	0	481	40	0	521	0	0	0	146	0	146	0	22	0	23	0	45	1033
5:00 PM	0	21	412	0	0	433	1	0	452	32	0	485	0	0	0	153	0	153	0	31	0	26	0	57	1128
5:15 PM	0	28	414	0	0	442	0	0	422	49	0	471	0	0	0	147	0	147	0	30	0	24	0	54	1114
Total	0	83	1486	0	0	1569	1	0	1844	170	0	2015	0	0	0	570	0	570	0	119	0	100	0	219	4373
Approach %	0.0	5.3	94.7	0.0	-	-	0.0	0.0	91.5	8.4	-	-	0.0	0.0	0.0	100.0	-	-	0.0	54.3	0.0	45.7	-	-	-
Total %	0.0	1.9	34.0	0.0	-	35.9	0.0	0.0	42.2	3.9	-	46.1	0.0	0.0	0.0	13.0	-	13.0	0.0	2.7	0.0	2.3	-	5.0	-
PHF	0.000	0.741	0.897	0.000	-	0.887	0.250	0.000	0.943	0.867	-	0.936	0.000	0.000	0.000	0.931	-	0.931	0.000	0.826	0.000	0.926	-	0.869	0.969
Lights	0	83	1479	0	-	1562	1	0	1840	169	-	2010	0	0	0	569	-	569	0	116	0	100	-	216	4357
% Lights	-	100.0	99.5	-	-	99.6	100.0	-	99.8	99.4	-	99.8	-	-	-	99.8	-	99.8	-	97.5	-	100.0	-	98.6	99.6
Buses	0	0	5	0	-	5	0	0	1	0	-	1	0	0	0	0	-	0	0	0	0	0	-	0	6
% Buses	-	0.0	0.3	-	-	0.3	0.0	-	0.1	0.0	-	0.0	-	-	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	0.1
Single-Unit Trucks	0	0	2	0	-	2	0	0	2	1	-	3	0	0	0	1	-	1	0	0	0	0	-	0	6
% Single-Unit Trucks	-	0.0	0.1	-	-	0.1	0.0	-	0.1	0.6	-	0.1	-	-	-	0.2	-	0.2	-	0.0	-	0.0	-	0.0	0.1
Articulated Trucks	0	0	0	0	-	0	0	0	1	0	-	1	0	0	0	0	-	0	0	3	0	0	-	3	4
% Articulated Trucks	-	0.0	0.0	-	-	0.0	0.0	-	0.1	0.0	-	0.0	-	-	-	0.0	-	0.0	-	2.5	-	0.0	-	1.4	0.1
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Bicycles on Road	-	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
Pedestrians	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Preliminary Site Plan

ORD 2024-10276

Besidential Site Area	9 22 Ac	Tot Bedrooms
Studio/ Conv. Units 1 BR Units 2 BR Units 3 BR Units	69 23.24% 144 48.48% 84 28.28% 0 0.0% 100.0%	69 144 168 0
Total Rental Units	297 (28.0 Du/Ac.)	381 BR
Setbacks Refer to Sheet LP1.02		
RESIDENTIAL PARKING		
Garages Surface	195 295	
Res. Parking Subtotal	490 (Provided-1.65 (Required-2.00 Parking Val	Spaces/Unit) Spaces/Unit) riance Requested
Garage (30 / Bldg.) Surface (6 / Pad)	90 18	

Unit	Description	GSF (sf)	NSF (sf)	1 minute	11	11	Unit	Count	-	1 Bernard	Total GSF	Total NSF	Notes:
24			1	Level 1	Level 2	Level 3	Level 4	Per Blog	Total	Percent	-	-	
udio Units													- Andrewin
S1	Studio	524	481	1.	1	1	1	4	12	4.0%	2,096	1,924	Efficiency
S2	Studio	605	560	2	2	2	2	8	24	8.1%	4,840	4,480	Studio Unit
S3	Convertible / 1 Bath	711	661	2	3	3	3	11	33	11.1%	7,821	7,271	Convertible with Sleeping Ro
85						1		l il			1		
Total Studio Units		1.0	С.	5	6	6	6	23	69	23.2%	14,757	13,675	
											642	595	
a Bedroom Uni													
A1	1 Bed / 1 Bath	749	698	4	4	4	4	16	48	16.2%	11.984	11.168	Standard 1 Bedroom
A2	1 Bed / 1 Bath	819	764	4	4	4	Á	16	48	16.2%	13 104	12 224	Standard 1 Bedroom
A3	1 Bed / 1 Bath	871	816	4	4	4	4	16	48	16.2%	13.936	13.056	Standard 1 Bedroom
	T DOWN T DOWN									10.4.10			
Total 1 Br Units			· · · · · · · · · · · · · · · · · · ·	12	12	12	12	48	144	48.5%	39,024	36,448	
								Carlo C			813	759	
De deserver II-1							-	-	_			-	
Vo Bedroom Uni	2 Red / 2 Rath	1 1 2 2	1.055	2	2	2	2	0	24	9.10/	9.076	8 440	"In Line" 2 Radroom
80	2 Ded / 2 Dath	1,122	1,000	2	4	2	2	20	24	0.170	0,970	0,440	Correct 2 Bedroom
B2	2 Deu / 2 Daun	1,290	1,210	9	9	9	5	20	00	20.270	25,000	24,320	Comer 2 Bedroom
07													
107													
Total 2 Br Units			li	7	7	7	7	28	84	28.3%	34 776	32 760	
Total 2 Di Onito										L.G.I.G.I.G	1 242	1 170	
											1,41,14		
ree Bedroom U	nits			1	1	1	1			1	_		
Total 3 Br Units				0	0	0	0	0	0	0.0%	0	0	
									100.00				
Totals	8 8	5	-	24	25	25	25	99	297	100.0%	88,557	82,883	
											895	837	
		NSF:	measured	to interio	r tace of c	typ board	at permet	ter or unit	10.00	1012 (1012	mean Ur	nt Areas	







LP 1.01 Conceptual Site Plan ESPLANADE PLACE Downers Grove, Illinois



Date: December 28, 2023 BSBDESIGN.COM

ITE Trip Generation Worksheets

Multifamily Housing (Mid-Rise) Not Close to Rail Transit (221)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday

Setting/Location: General Urban/Suburban

Number of Studies: 11

Avg. Num. of Dwelling Units: 201

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
4.54	3.76 - 5.40	0.51

Data Plot and Equation





Multifamily Housing (Mid-Rise) Not Close to Rail Transit (221)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

Number of Studies: 30

Avg. Num. of Dwelling Units: 173

Directional Distribution: 23% entering, 77% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.37	0.15 - 0.53	0.09





Multifamily Housing (Mid-Rise) Not Close to Rail Transit (221)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

Number of Studies: 31

Avg. Num. of Dwelling Units: 169

Directional Distribution: 61% entering, 39% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.39	0.19 - 0.57	0.08

Data Plot and Equation





CMAP Projections Letter



433 West Van Buren Street Suite 450 Chicago, IL 60607

> 312-454-0400 cmap.illinois.gov

February 23, 2023

Andrew Bowen Traffic Engineer Kenig, Lindgren, O'Hara, Aboona, Inc. 9575 West Higgins Road Suite 400 Rosemont, IL. 60018

Subject: Lacey Road @ Woodcreek Drive IDOT

Dear Mr. Bowen:

In response to a request made on your behalf and dated february 22, 2023, we have developed year 2050 average daily traffic (ADT) projections for the subject location.

ROAD SEGMENT	Current ADT	Year 2050 ADT
Butterfield Rd, @ Lacey Rd	30,700 (2021)	40,200
Lacey Rd south of Butterfield Rd	3,750 (2016)	4,900
Finley Rd, @ Lacey Rd	20,800 (2016)	22,800

Traffic projections are developed using existing ADT data provided in the request letter and the results from the October 2022 CMAP Travel Demand Analysis. The regional travel model uses CMAP 2050 socioeconomic projections and assumes the implementation of the ON TO 2050 Comprehensive Regional Plan for the Northeastern Illinois area. The provision of this data in support of your request does not constitute a CMAP endorsement of the proposed development or any subsequent developments.

If you have any questions, please call me at (312) 386-8806.

Sincerely,

I R

Jose Rodriguez, PTP, AICP Senior Planner, Research & Analysis

cc: Rios (IDOT) 2023_TrafficForecasts\DownersGrove\du-11-23\du-11-23.docx

Level of Service Criteria

		SERVICE CRITERIA
	Si	gnalized Intersections
		Average Control
Level of		Delay
Service	Interpretation	(seconds per vehicle)
А	Favorable progression. Most vehicles arrive during the green indication and travel through the intersection without stopping.	≤10
В	Good progression, with more vehicles stopping than for Level of Service A.	>10 - 20
С	Individual cycle failures (i.e., one or more queued vehicles are not able to depart as a result of insufficient capacity during the cycle) may begin to appear. Number of vehicles stopping is significant, although many vehicles still pass through the intersection without stopping.	>20 - 35
D	The volume-to-capacity ratio is high and either progression is ineffective or the cycle length is too long. Many vehicles stop and individual cycle failures are noticeable.	>35 - 55
E	Progression is unfavorable. The volume-to-capacity ratio is high and the cycle length is long. Individual cycle failures are frequent.	>55 - 80
F	The volume-to-capacity ratio is very high, progression is very poor, and the cycle length is long. Most cycles fail to clear the queue.	>80.0
	Unsig	gnalized Intersections
	Level of Service Average Te	otal Delay (SEC/VEH)
	А	0 - 10
	В	> 10 - 15
	С	> 15 - 25
	D	> 25 - 35
	E	> 35 - 50
	F	> 50
	Source: Highw	yay Capacity Manual, 2010.

LEVEL OF SERVICE CRITERIA

<u>Capacity Analysis Summary Sheets</u> Existing Weekday Morning Peak Hour Conditions

Lanes, Volumes, Timings 1: Woodcreek Drive/Lacey Road & Butterfield Road

	٨	-	7	4	+	*	1	1	1	1	ţ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	***	11	ካካ	*†		ሻሻ	ţ,	1	7	ţ,	
Traffic Volume (vph)	53	1062	304	566	451	20	55	6	33	70	53	49
Future Volume (vph)	53	1062	304	566	451	20	55	6	33	70	53	49
Ideal Flow (vphpl)	1900	2000	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	265		465	0		0	118		0	120		0
Storage Lanes	1		2	2		0	2		1	1		0
Taper Length (ft)	85			25			45			85		
Lane Util. Factor	1.00	0.91	0.88	0.97	0.91	0.91	0.97	0.95	0.95	1.00	1.00	1.00
Ped Bike Factor												
Frt			0.850		0.994			0.896	0.850		0.928	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1805	5353	2814	3467	4856	0	3433	1493	1370	1787	1730	0
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1805	5353	2814	3467	4856	0	3433	1493	1370	1787	1730	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			353		7			16	183		31	
Link Speed (mph)		45			45			30			30	
Link Distance (ft)		2017			601			290			452	
Travel Time (s)		30.6			9.1			6.6			10.3	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	0%	2%	1%	1%	6%	10%	2%	0%	12%	1%	0%	4%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)									42%			
Lane Group Flow (vph)	62	1235	353	658	547	0	64	23	22	81	119	0
Turn Type	Prot	NA	Perm	Prot	NA		Prot	NA	Perm	Prot	NA	
Protected Phases	5	2		1	6		3	8		7	4	
Permitted Phases			2						8			
Detector Phase	5	2	2	1	6		3	8	8	7	4	
Switch Phase												
Minimum Initial (s)	3.0	15.0	15.0	3.0	15.0		3.0	8.0	8.0	3.0	8.0	
Minimum Split (s)	7.5	21.0	21.0	7.5	21.0		7.5	14.0	14.0	7.5	14.0	
Total Split (s)	22.5	57.5	57.5	30.0	65.0		14.0	17.5	17.5	20.0	23.5	
Total Split (%)	18.0%	46.0%	46.0%	24.0%	52.0%		11.2%	14.0%	14.0%	16.0%	18.8%	
Yellow Time (s)	3.5	4.0	4.0	3.5	4.0		3.5	4.0	4.0	3.5	4.0	
All-Red Time (s)	1.0	2.0	2.0	1.0	2.0		1.0	2.0	2.0	1.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	4.5	6.0	6.0	4.5	6.0		4.5	6.0	6.0	4.5	6.0	
Lead/Lag	Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	
Recall Mode	None	C-Min	C-Min	None	C-Min		None	None	None	None	None	
Act Effct Green (s)	9.7	58.3	58.3	27.4	78.1		7.7	9.6	9.6	13.8	12.7	
Actuated g/C Ratio	0.08	0.47	0.47	0.22	0.62		0.06	0.08	0.08	0.11	0.10	

AMEX 23-003 Downers Grove 4:22 pm 02/22/2023 Existing Morning Peak ANB

Lanes, Volumes, Timings 1: Woodcreek Drive/Lacey Road & Butterfield Road

	٨	→	7	4	+	•	1	t	1	4	ţ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.45	0.49	0.24	0.87	0.18		0.30	0.18	0.08	0.41	0.59	
Control Delay	64.3	25.3	2.7	71.8	10.2		40.2	20.7	2.8	58.2	50.5	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Total Delay	64.3	25.3	2.7	71.8	10.2		40.2	20.7	2.8	58.2	50.5	
LOS	E	С	А	E	В		D	С	А	E	D	
Approach Delay		22.0			43.8			28.5			53.6	
Approach LOS		С			D			С			D	
Queue Length 50th (ft)	49	267	0	291	54		25	0	0	64	69	
Queue Length 95th (ft)	89	303	25	#362	68		28	31	0	108	120	
Internal Link Dist (ft)		1937			521			210			372	
Turn Bay Length (ft)	265		465				118			120		
Base Capacity (vph)	259	2496	1500	765	3036		260	152	293	244	268	
Starvation Cap Reductn	0	0	0	0	0		0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0		0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0		0	0	0	0	0	
Reduced v/c Ratio	0.24	0.49	0.24	0.86	0.18		0.25	0.15	0.08	0.33	0.44	
Intersection Summary												
Area Type:	Other											
Cycle Length: 125												
Actuated Cycle Length: 12	25											
Offset: 0 (0%), Referenced	d to phase 2:	EBT and	6:WBT, S	tart of Gr	een							
Natural Cycle: 70												
Control Type: Actuated-Co	oordinated											
Maximum v/c Ratio: 0.87												
Intersection Signal Delay:	32.5			In	tersectior	n LOS: C						
Intersection Capacity Utiliz	zation 59.9%			IC	CU Level o	of Service	В					
nalysis Period (min) 15												
# 95th percentile volume	exceeds cap	bacity, qu	eue may	be longer								
Queue shown is maxim	num after two	cycles.										

Splits and Phases: 1: Woodcreek Drive/Lacey Road & Butterfield Road

1 Ø1	🛡 🤝 🗤 🕼 🖉 🖉 🖉	103	↓ Ø4
30 s	57.5 s	14 s	23.5 s
▲ Ø5	← Ø ● (R)	Ø7	Øs
22.5 s	65 s	20 s	17.5 s

Lanes, Volumes, Timings 2: Esplanade Road/Access Drive & Butterfield Road

	۶	-	7	4	-	•	1	Ť	1	1	ŧ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	5	***			11111	1			11	ካካ		1
Traffic Volume (vph)	34	1131	0	0	991	75	0	0	40	89	0	46
Future Volume (vph)	34	1131	0	0	991	75	0	0	40	89	0	46
Ideal Flow (vphpl)	1900	2000	1900	1900	2000	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	230		0	60		175	0		0	0		100
Storage Lanes	1		0	2		1	0		2	2		1
Taper Length (ft)	210			300			25			25		
Lane Util. Factor	1.00	0.91	1.00	1.00	0.81	1.00	1.00	1.00	0.88	0.97	1.00	1.00
Ped Bike Factor												
Frt						0.850			0.850			0.850
Flt Protected	0.950									0.950		
Satd. Flow (prot)	1805	5353	0	0	7941	1495	0	0	2682	3433	0	1583
Flt Permitted	0.950									0.950		
Satd. Flow (perm)	1805	5353	0	0	7941	1495	0	0	2682	3433	0	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)						82			205			65
Link Speed (mph)		45			45			30			30	
Link Distance (ft)		601			1566			352			378	
Travel Time (s)		9.1			23.7			8.0			8.6	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	0%	2%	0%	0%	2%	8%	0%	0%	6%	2%	0%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)												
Lane Group Flow (vph)	37	1243	0	0	1089	82	0	0	44	98	0	51
Turn Type	Prot	NA			NA	custom			Prot	Prot		custom
Protected Phases	5	2			6	78			8	7		78
Permitted Phases						6			8	7		
Detector Phase	5	2			6	78			8	7		78
Switch Phase												
Minimum Initial (s)	3.0	15.0			15.0				8.0	8.0		
Minimum Split (s)	7.5	21.0			21.0				14.0	14.0		
Total Split (s)	15.0	92.5			77.5				16.0	16.5		
Total Split (%)	12.0%	74.0%			62.0%				12.8%	13.2%		
Yellow Time (s)	3.5	4.0			4.0				4.0	4.0		
All-Red Time (s)	1.0	2.0			2.0				2.0	2.0		
Lost Time Adjust (s)	0.0	0.0			0.0				0.0	0.0		
Total Lost Time (s)	4.5	6.0			6.0				6.0	6.0		
Lead/Lag	Lead				Lag				Lead	Lag		
Lead-Lag Optimize?	Yes				Yes				Yes	Yes		
Recall Mode	None	C-Min			C-Min				None	None		
Act Effct Green (s)	8.0	89.0			80.7	113.2			8.2	9.9		24.0
Actuated g/C Ratio	0.06	0.71			0.65	0.91			0.07	0.08		0.19

AMEX 23-003 Downers Grove 4:22 pm 02/22/2023 Existing Morning Peak ANB

Synchro 11 Report . Page 3

Lanes, Volumes, Timings

2: Esplanade Road/Access Drive & Butterfield Road

	٦	→	1	1	-	*	1	Ť	1	1	Ļ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.32	0.33			0.21	0.06			0.12	0.36		0.14
Control Delay	98.5	1.2			10.0	0.5			0.7	58.0		7.2
Queue Delay	0.0	0.0			0.0	0.0			0.0	0.0		0.0
Total Delay	98.5	1.2			10.0	0.5			0.7	58.0		7.2
LOS	F	А			В	А			А	E		А
Approach Delay		4.0			9.3			0.7			40.6	
Approach LOS		А			А			А			D	
Queue Length 50th (ft)	32	3			91	0			0	39		0
Queue Length 95th (ft)	m65	6			120	7			0	67		25
Internal Link Dist (ft)		521			1486			272			298	
Turn Bay Length (ft)	230					175						100
Base Capacity (vph)	151	3809			5129	1298			403	297		317
Starvation Cap Reductn	0	0			0	0			0	0		0
Spillback Cap Reductn	0	0			0	0			0	0		0
Storage Cap Reductn	0	0			0	0			0	0		0
Reduced v/c Ratio	0.25	0.33			0.21	0.06			0.11	0.33		0.16
Intersection Summary												
Area Type:	Other											
Cycle Length: 125												
Actuated Cycle Length: 12	25											
Offset: 10 (8%), Reference	ed to phase 2	EBT and	6:WBT,	Start of G	ireen							
Natural Cycle: 60												

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.36

Intersection Signal Delay: 8.4

Intersection Capacity Utilization 44.1%

Intersection LOS: A ICU Level of Service A

Analysis Period (min) 15

m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 2: Esplanade Road/Access Drive & Butterfield Road



3: Lacey Road & W	oodcre	ek Dri	ve				02/24/2023
	٨	7	1	1	ŧ	~	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	ካካ	1	5	**	* *	77	
Traffic Volume (vph)	45	5	10	49	517	406	
Future Volume (vph)	45	5	10	49	517	406	
Ideal Flow (vphpl)	1900	1900	1900	2000	2000	1900	
Lane Width (ft)	12	12	12	12	12	12	
Grade (%)	0%			0%	0%		
Storage Length (ft)	160	0	125			115	
Storage Lanes	2	1	1			0	
Taper Length (ft)	100		90				
Lane Util. Factor	0.97	1.00	1.00	0.95	0.95	0.88	
Ped Bike Factor							
Frt		0.850				0.850	
Flt Protected	0.950		0.950				
Satd. Flow (prot)	3183	1346	1805	3725	3725	2814	
Flt Permitted	0.950		0.398				
Satd. Flow (perm)	3183	1346	756	3725	3725	2814	
Right Turn on Red		Yes				Yes	
Satd. Flow (RTOR)		6				495	
Link Speed (mph)	30			30	30		
Link Distance (ft)	556			645	290		
Travel Time (s)	12.6			14.7	6.6		
Confl. Peds. (#/hr)							
Confl. Bikes (#/hr)							
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82	
Growth Factor	100%	100%	100%	100%	100%	100%	
Heavy Vehicles (%)	10%	20%	0%	2%	2%	1%	
Bus Blockages (#/hr)	0	0	0	0	0	0	
Parking (#/hr)	•••			•••	• • •		
Mid-Block Traffic (%)	0%			0%	0%		
Shared Lane Traffic (%)		_	40			10-5	
Lane Group Flow (vph)	55	6	12	60	630	495	
Turn Type	Prot	Prot	pm+pt	NA	NA	pm+ov	
Protected Phases	4	4	5	2	6	4	
Permitted Phases	-	-	2	0	•	6	
Detector Phase	4	4	5	2	6	4	
Switch Phase	0.0	0.0	0.0	45.0	45.0	0.0	
Minimum Initial (s)	8.0	8.0	3.0	15.0	15.0	8.0	
	14.0	14.0	0.5	21.0	21.0	14.0	
Total Split (s)	34.0	34.0	12.0	91.0	79.0	34.0	
Total Split (%)	21.2%	21.2%	9.6%	12.8%	63.2%	27.2%	
Yellow Time (s)	4.0	4.0	3.5	4.0	4.0	4.0	
All-Red Time (s)	2.0	2.0	0.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	
lotal Lost Time (s)	0.0	6.0	3.5	6.0	6.0	6.0	
Leau/Lag			Lead		Lag		
Leau-Lag Optimize?	Na	Nan -	Yes	C Min	Yes	Nar -	
	INONE	INONE	INONE		C-IVIIN	NONE	
	9.6	9.6	105.9	103.4	99.6	118.9	
Actuated g/C Ratio	0.08	0.08	0.85	0.83	0.80	0.95	

AMEX 23-003 Downers Grove 4:22 pm 02/22/2023 Existing Morning Peak ANB

Lanes, Volumes, Timings 3: Lacey Road & Woodcreek Drive

	٨	7	1	t	ţ	1
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
v/c Ratio	0.22	0.06	0.02	0.02	0.21	0.18
Control Delay	55.7	30.6	1.8	2.1	1.3	0.1
Queue Delay	0.0	0.0	0.0	0.0	0.5	0.0
Total Delay	55.7	30.6	1.8	2.1	1.7	0.1
LOS	E	С	А	А	А	А
Approach Delay	53.2			2.1	1.0	
Approach LOS	D			A	Α	
Queue Length 50th (ft)	22	0	1	3	14	0
Queue Length 95th (ft)	38	13	4	7	24	0
Internal Link Dist (ft)	476			565	210	
Turn Bay Length (ft)	160		125			115
Base Capacity (vph)	712	306	711	3080	2969	2814
Starvation Cap Reductn	0	0	0	0	1772	475
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.08	0.02	0.02	0.02	0.53	0.21
Intersection Summary						
Area Type:	Other					
Cycle Length: 125						
Actuated Cycle Length: 125	5					
Offset: 0 (0%), Referenced	to phase 2:I	VBTL and	16:SBT, S	Start of G	reen	
Natural Cycle: 45						
Control Type: Actuated-Coo	ordinated					
Maximum v/c Ratio: 0.22						
Intersection Signal Delay: 3	8.6			In	tersectior	n LOS: A
Intersection Capacity Utilization	ation 30.2%			IC	U Level o	of Service
Analysis Period (min) 15						

Splits and Phases: 3: Lacey Road & Woodcreek Drive



	۲	Ť	ţ	N	٩	7
Lane Group	NRI	NBT	SBT	SBR	SEL	SER
Lane Configurations						
	11 422	TT	200	100	10	100
Future Volume (vpn)	400	677	290	109	10	100
Ideal Flow (vphpl)	400	2000	2000	109	1000	100
long Width (ft)	1900	2000	2000	1900	1900	1900
	IZ	12	12	IZ	12	IZ
Grade (%)	205	0%	0%	400	0%	005
Storage Length (ft)	305			400	0	205
Storage Lanes	2			1	1	1
Taper Length (ft)	230	0.05	0.05	4 00	0	0.00
Lane Util. Factor	0.97	0.95	0.95	1.00	1.00	0.88
Ped Bike Factor						
Frt				0.850		0.850
Flt Protected	0.950				0.950	
Satd. Flow (prot)	2918	3551	3762	1599	1736	2842
Flt Permitted	0.950				0.950	
Satd. Flow (perm)	2918	3551	3762	1599	1736	2842
Right Turn on Red				Yes		Yes
Satd, Flow (RTOR)				125		115
Link Speed (mph)		45	45	120	35	110
Link Distance (ff)		681	1175		1160	
		10.2	17 0		22 6	
Confl Dodo (#/br)		10.5	17.0		22.0	
Confil. Peas. (#/hr)						
Confil. Bikes (#/nr)	0.07	0.07	0.07	0.07	0.07	0.07
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	20%	7%	1%	1%	4%	0%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	498	778	457	125	11	115
Turn Type	Prot	NA	NA	pm+ov	Prot	Prot
Protected Phases	5	2	6	7	7	7
Permitted Phases	-	_		6		
Detector Phase	5	2	6	7	7	7
Switch Phase	5	2	U	1	1	1
Minimum Initial (a)	2.0	15.0	15.0	0 0	٥ ٥	0 0
Minimum Calit (s)	3.U 7.E	10.0	10.0	0.0	0.0	0.0
	7.5	21.0	21.0	14.0	14.0	14.0
	53.0	100.0	47.0	25.0	25.0	25.0
Total Split (%)	42.4%	80.0%	37.6%	20.0%	20.0%	20.0%
Yellow Time (s)	3.5	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	1.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	6.0	6.0	6.0	6.0	6.0
Lead/Lag	Lead		Lag			
Lead-Lag Optimize?	Yes		Yes			
Recall Mode	None	C-Min	C-Min	None	None	None
Act Effct Green (s)	27.2	104.7	73.0	87.3	8.3	8.3

AMEX 23-003 Downers Grove 4:22 pm 02/22/2023 Existing Morning Peak ANB

Lanes, Volumes, Timings 4: Finley Road & Lacey Road

	٦	t	Ŧ	N.		7	
Lane Group	NBL	NBT	SBT	SBR	SEL	SER	
v/c Ratio	0.79	0.26	0.21	0.11	0.09	0.39	
Control Delay	55.1	2.4	13.4	1.6	56.4	13.7	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay	55.1	2.4	13.4	1.6	56.4	13.7	
LOS	E	А	В	А	E	В	
Approach Delay		22.9	10.8		17.4		
Approach LOS		С	В		В		
Queue Length 50th (ft)	197	51	86	0	9	0	
Queue Length 95th (ft)	232	68	131	20	27	30	
Internal Link Dist (ft)		601	1095		1080		
Turn Bay Length (ft)	305			400		205	
Base Capacity (vph)	1132	2972	2195	1280	263	529	
Starvation Cap Reductn	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	
Reduced v/c Ratio	0.44	0.26	0.21	0.10	0.04	0.22	
Intersection Summary							
Area Type:	Other						
Cycle Length: 125							
Actuated Cycle Length: 12	25						
Offset: 0 (0%), Reference	d to phase 2:	NBT and	6:SBT, Si	tart of Gre	en		
Natural Cycle: 55							
Control Type: Actuated-Co	oordinated						
Maximum v/c Ratio: 0.79							
Intersection Signal Delay:	19.0			In	tersectior	n LOS: B	
Intersection Capacity Utiliz	zation 45.3%			IC	U Level o	of Service	эA
Analysis Period (min) 15							

Splits and Phases: 4: Finley Road & Lacey Road

f ø2 (R)		
100 s		
1 05	M (R)	
53 s	47 s	25 s

Intersection	
Intersection Delay, s/veh	10.1
Intersection LOS	В

Movement	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations		đ þ				đ î þ		7	f,			
Traffic Vol, veh/h	7	246	249	0	23	43	28	6	5	10	0	0
Future Vol, veh/h	7	246	249	0	23	43	28	6	5	10	0	0
Peak Hour Factor	0.87	0.87	0.87	0.92	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Heavy Vehicles, %	25	3	0	2	0	2	11	0	0	0	0	0
Mvmt Flow	8	283	286	0	26	49	32	7	6	11	0	0
Number of Lanes	0	2	0	0	0	2	0	1	1	0	0	0
Approach	EB				WB			NB				
Opposing Approach	WB				EB							
Opposing Lanes	2				2			0				
Conflicting Approach Left					NB			EB				
Conflicting Lanes Left	0				2			2				
Conflicting Approach Right	NB							WB				
Conflicting Lanes Right	2				0			2				
HCM Control Delay	10.5				8			8.6				
HCM LOS	В				А			А				

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	
Vol Left, %	100%	0%	5%	0%	52%	0%	
Vol Thru, %	0%	33%	95%	33%	48%	43%	
Vol Right, %	0%	67%	0%	67%	0%	57%	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	6	15	130	372	45	50	
LT Vol	6	0	7	0	23	0	
Through Vol	0	5	123	123	22	22	
RT Vol	0	10	0	249	0	28	
Lane Flow Rate	7	17	149	428	51	57	
Geometry Grp	7	7	7	7	7	7	
Degree of Util (X)	0.012	0.026	0.209	0.496	0.075	0.074	
Departure Headway (Hd)	6.442	5.469	5.047	4.176	5.281	4.658	
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	
Сар	558	658	707	855	682	773	
Service Time	4.149	3.176	2.813	1.942	2.986	2.363	
HCM Lane V/C Ratio	0.013	0.026	0.211	0.501	0.075	0.074	
HCM Control Delay	9.2	8.3	9.2	11	8.4	7.7	
HCM Lane LOS	А	А	А	В	А	А	
HCM 95th-tile Q	0	0.1	0.8	2.8	0.2	0.2	

Intersection							
Int Delay, s/veh	1.2						
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	5	1	7	^	1		
Traffic Vol, veh/h	3	3	50	93	234	16	
Future Vol, veh/h	3	3	50	93	234	16	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-	None	-	None	
Storage Length	45	0	80	-	-	-	
Veh in Median Storage,	# 1	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	82	82	82	82	82	82	
Heavy Vehicles, %	0	67	2	3	3	6	
Mvmt Flow	4	4	61	113	285	20	

Major/Minor	Minor2	Ν	/lajor1	Majo	or2	
Conflicting Flow All	474	153	305	0	-	0
Stage 1	295	-	-	-	-	-
Stage 2	179	-	-	-	-	-
Critical Hdwy	6.8	8.24	4.14	-	-	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.97	2.22	-	-	-
Pot Cap-1 Maneuver	524	694	1253	-	-	-
Stage 1	736	-	-	-	-	-
Stage 2	840	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuve	r 498	694	1253	-	-	-
Mov Cap-2 Maneuve	r 570	-	-	-	-	-
Stage 1	700	-	-	-	-	-
Stage 2	840	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	10.8	2.8	0
HCM LOS	В		

Minor Lane/Major Mvmt	NBL	NBT E	BLn1	EBLn2	SBT	SBR	
Capacity (veh/h)	1253	-	570	694	-	-	
HCM Lane V/C Ratio	0.049	-	0.006	0.005	-	-	
HCM Control Delay (s)	8	-	11.4	10.2	-	-	
HCM Lane LOS	А	-	В	В	-	-	
HCM 95th %tile Q(veh)	0.2	-	0	0	-	-	

Intersection							
Int Delay, s/veh	4.3						
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	7	1	1	^	† 1>		
Traffic Vol, veh/h	20	40	250	123	163	74	
Future Vol, veh/h	20	40	250	123	163	74	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-	None	-	None	
Storage Length	115	0	180	-	-	-	
Veh in Median Storage,	# 1	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	84	84	84	84	84	84	
Heavy Vehicles, %	5	2	1	2	3	3	
Mvmt Flow	24	48	298	146	194	88	

Major/Minor	Minor2	N	Major1	Majo	or2		
Conflicting Flow All	907	141	282	0	-	0	
Stage 1	238	-	-	-	-	-	
Stage 2	669	-	-	-	-	-	
Critical Hdwy	6.9	6.94	4.12	-	-	-	
Critical Hdwy Stg 1	5.9	-	-	-	-	-	
Critical Hdwy Stg 2	5.9	-	-	-	-	-	
Follow-up Hdwy	3.55	3.32	2.21	-	-	-	
Pot Cap-1 Maneuver	270	881	1285	-	-	-	
Stage 1	770	-	-	-	-	-	
Stage 2	463	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuve	r 207	881	1285	-	-	-	
Mov Cap-2 Maneuve	r 329	-	-	-	-	-	
Stage 1	591	-	-	-	-	-	
Stage 2	463	-	-	-	-	-	

Approach	EB	NB	SB
HCM Control Delay, s	11.8	5.8	0
HCM LOS	В		

Minor Lane/Major Mvmt	NBL	NBT E	BLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1285	-	329	881	-	-
HCM Lane V/C Ratio	0.232	-	0.072	0.054	-	-
HCM Control Delay (s)	8.6	-	16.8	9.3	-	-
HCM Lane LOS	А	-	С	Α	-	-
HCM 95th %tile Q(veh)	0.9	-	0.2	0.2	-	-

<u>Capacity Analysis Summary Sheets</u> Existing Weekday Evening Peak Hour Conditions

Lanes, Volumes, Timings 1: Woodcreek Drive/Lacey Road & Butterfield Road

	٠	-	7	4	+	*	1	t	1	4	ţ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	***	11	ሻሻ	*††		ኘኘ	ħ	1	7	¢Î,	
Traffic Volume (vph)	29	844	64	108	1163	65	223	25	151	48	14	75
Future Volume (vph)	29	844	64	108	1163	65	223	25	151	48	14	75
Ideal Flow (vphpl)	1900	2000	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	265		465	0		0	118		0	120		0
Storage Lanes	1		2	2		0	2		1	1		0
Taper Length (ft)	85			25			45			85		
Lane Util. Factor	1.00	0.91	0.88	0.97	0.91	0.91	0.97	0.95	0.95	1.00	1.00	1.00
Ped Bike Factor												
Frt			0.850		0.992			0.891	0.850		0.874	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1805	5406	2814	3467	5097	0	3502	1597	1519	1805	1647	0
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1805	5406	2814	3467	5097	0	3502	1597	1519	1805	1647	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			170		10			68	133		78	
Link Speed (mph)		45			45			30			30	
Link Distance (ft)		2017			601			290			452	
Travel Time (s)		30.6			9.1			6.6			10.3	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	0%	1%	1%	1%	1%	0%	0%	0%	1%	0%	0%	1%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)									43%			
Lane Group Flow (vph)	30	879	67	113	1279	0	232	94	89	50	93	0
Turn Type	Prot	NA	Perm	Prot	NA		Prot	NA	Perm	Prot	NA	
Protected Phases	5	2		1	6		3	8		7	4	
Permitted Phases			2						8			
Detector Phase	5	2	2	1	6		3	8	8	7	4	
Switch Phase												
Minimum Initial (s)	3.0	15.0	15.0	3.0	15.0		3.0	8.0	8.0	3.0	8.0	
Minimum Split (s)	7.5	21.0	21.0	7.5	21.0		7.5	14.0	14.0	7.5	14.0	
Total Split (s)	13.5	59.0	59.0	32.5	78.0		25.5	30.0	30.0	13.5	18.0	
Total Split (%)	10.0%	43.7%	43.7%	24.1%	57.8%		18.9%	22.2%	22.2%	10.0%	13.3%	
Yellow Time (s)	3.5	4.0	4.0	3.5	4.0		3.5	4.0	4.0	3.5	4.0	
All-Red Time (s)	1.0	2.0	2.0	1.0	2.0		1.0	2.0	2.0	1.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
I otal Lost Time (s)	4.5	6.0	6.0	4.5	6.0		4.5	6.0	6.0	4.5	6.0	
Lead/Lag	Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	
Recall Mode	None	C-Min	C-Min	None	C-Min		None	None	None	None	None	
Act Effct Green (s)	7.7	80.6	80.6	9.8	86.9		14.2	17.6	17.6	8.1	9.4	
Actuated g/C Ratio	0.06	0.60	0.60	0.07	0.64		0.11	0.13	0.13	0.06	0.07	

PMEX 23-003 Downers Grove 5:40 pm 02/22/2023 Existing Evening Peak ANB

Lanes, Volumes, Timings <u>1: Woodcreek Drive/Lacey Road & Butterfield Road</u>

	٠	+	*	4	Ļ	•	1	Ť	1	*	ţ	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.29	0.27	0.04	0.45	0.39		0.63	0.35	0.28	0.46	0.50	
Control Delay	67.5	14.1	0.0	100.3	3.4		46.3	25.6	18.7	75.1	26.3	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Total Delay	67.5	14.1	0.0	100.3	3.4		46.3	25.6	18.7	75.1	26.3	
LOS	E	В	А	F	А		D	С	В	E	С	
Approach Delay		14.8			11.2			35.7			43.4	
Approach LOS		В			В			D			D	
Queue Length 50th (ft)	26	125	0	54	49		108	34	27	43	13	
Queue Length 95th (ft)	59	186	0	88	293		152	85	78	87	68	
Internal Link Dist (ft)		1937			521			210			372	
Turn Bay Length (ft)	265		465				118			120		
Base Capacity (vph)	123	3227	1748	719	3283		544	339	379	120	219	
Starvation Cap Reductn	0	0	0	0	0		0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0		0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0		0	0	0	0	0	
Reduced v/c Ratio	0.24	0.27	0.04	0.16	0.39		0.43	0.28	0.23	0.42	0.42	
Intersection Summary												
Area Type:	Other											
Cycle Length: 135												
Actuated Cycle Length: 135												
Offset: 0 (0%), Referenced	to phase 2:	EBT and	6:WBT, S	Start of Gr	een							
Natural Cycle: 60												
Control Type: Actuated-Coordinated												
Maximum v/c Ratio: 0.63												
Intersection Signal Delay: 1	7.5			In	tersectior	LOS: B						
Intersection Capacity Utiliza	ntersection Capacity Utilization 54.0% ICU Level of Service A											

Analysis Period (min) 15

Splits and Phases: 1: Woodcreek Drive/Lacey Road & Butterfield Road

Ø1		₩Ø2 (R)	103		♦ Ø4	55
32.5 s		59 s	25.5 s		18 s	
▶ Ø5	← Ø6 (R)		Ø7	tøs		
13.5 s	78 s		13.5 s	30 s		

Lanes, Volumes, Timings 2: Esplanade Road/Access Drive & Butterfield Road

	٠	-	7	1	+	•	1	Ť	1	4	ŧ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	5	***			11111	1			11	ካካ		1
Traffic Volume (vph)	83	960	0	0	1236	170	0	0	309	119	0	100
Future Volume (vph)	83	960	0	0	1236	170	0	0	309	119	0	100
Ideal Flow (vphpl)	1900	2000	1900	1900	2000	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	230		0	60		175	0		0	0		100
Storage Lanes	1		0	2		1	0		2	2		1
Taper Length (ft)	210			300			25			25		
Lane Util. Factor	1.00	0.91	1.00	1.00	0.81	1.00	1.00	1.00	0.88	0.97	1.00	1.00
Ped Bike Factor												
Frt						0.850			0.850			0.850
Flt Protected	0.950									0.950		
Satd, Flow (prot)	1805	5406	0	0	8020	1599	0	0	2814	3433	0	1615
Flt Permitted	0.950		-	-			-	-		0.950	-	
Satd. Flow (perm)	1805	5406	0	0	8020	1599	0	0	2814	3433	0	1615
Right Turn on Red			Yes			Yes	•	•	Yes	0.00	, The second sec	Yes
Satd. Flow (RTOR)						175			292			103
Link Speed (mph)		45			45	•		30			30	
Link Distance (ff)		601			1566			352			378	
Travel Time (s)		9.1			23.7			8.0			8.6	
Confl. Peds. (#/hr)		•						0.0			0.0	
Confl. Bikes (#/hr)												
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	0%	1%	0%	0%	1%	1%	0%	0%	1%	2%	0%	0%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)	•	Ţ	Ţ		Ţ	•	•	•	Ū	•	Ţ	
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)		• / •			• / •			• / •			• , •	
Lane Group Flow (vph)	86	990	0	0	1274	175	0	0	319	123	0	103
Turn Type	Prot	NA	Ţ	Ţ	NA	custom	Ū		Prot	Prot	•	custom
Protected Phases	5	2			6	7 8			8	7		7 8
Permitted Phases	•	_			Ţ	6			8	7		
Detector Phase	5	2			6	78			8	7		78
Switch Phase	•				Ţ	. •			Ū			
Minimum Initial (s)	3.0	15.0			15.0				8.0	8.0		
Minimum Split (s)	7.5	21.0			21.0				14.0	14.0		
Total Split (s)	16.0	96.0			80.0				19.0	20.0		
Total Split (%)	11.9%	71.1%			59.3%				14 1%	14.8%		
Yellow Time (s)	3.5	4.0			4 0				4 0	4.0		
All-Red Time (s)	1.0	2.0			2.0				2.0	2.0		
Lost Time Adjust (s)	0.0	0.0			0.0				0.0	0.0		
Total Lost Time (s)	4.5	6.0			6.0				6.0	6.0		
lead/lag	l ead	0.0			l an				l ead	l ao		
Lead-Lag Optimize?	Yes				Yes				Yes	Yes		
Recall Mode	None	C-Min			C-Min				None	None		
Act Effct Green (s)	10.8	95.8			80.5	113 7			10.0	11.2		27.2
Actuated g/C Ratio	0.08	0 71			0.60	0.84			0.07	0.08		0.20
	0.00	0.1 1			5.00	0.01			0.01	0.00		5.20

PMEX 23-003 Downers Grove 5:40 pm 02/22/2023 Existing Evening Peak ANB

Synchro 11 Report . Page 3

Lanes, Volumes, Timings

2: Esplanade Road/Access Drive & Butterfield Road

	٠	-	7	1	+	*	1	Ť	1	4	ţ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.60	0.26			0.27	0.13			0.67	0.43		0.25
Control Delay	85.4	6.1			13.8	0.5			16.2	63.3		9.0
Queue Delay	0.0	0.0			0.0	0.0			0.0	0.0		0.0
Total Delay	85.4	6.1			13.8	0.5			16.2	63.3		9.0
LOS	F	А			В	А			В	E		A
Approach Delay		12.4			12.2			16.2			38.5	
Approach LOS		В			В			В			D	
Queue Length 50th (ft)	76	71			125	0			13	53		0
Queue Length 95th (ft)	140	103			162	10			63	85		47
Internal Link Dist (ft)		521			1486			272			298	
Turn Bay Length (ft)	230					175						100
Base Capacity (vph)	159	3836			4782	1384			534	356		418
Starvation Cap Reductn	0	0			0	0			0	0		0
Spillback Cap Reductn	0	0			0	0			0	0		0
Storage Cap Reductn	0	0			0	0			0	0		0
Reduced v/c Ratio	0.54	0.26			0.27	0.13			0.60	0.35		0.25
Intersection Summary												
Area Type:	Other											
Cycle Length: 135												
Actuated Cycle Length: 135												
Offset: 104 (77%), Refere	nced to phas	e 2:EBT a	nd 6:WB	T, Start of	f Green							
Natural Cycle: 60												

Control Type: Actuated-Coordinated Maximum v/c Ratio: 0.67

Intersection Signal Delay: 14.6 Intersection Capacity Utilization 45.2% Analysis Period (min) 15

Intersection LOS: B ICU Level of Service A

Splits and Phases: 2: Esplanade Road/Access Drive & Butterfield Road



3: Lacey Road & W	loodcre	ek Dri	02/24/2023				
	٨	7	1	1	ŧ	~	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	ሻሻ	1	5	**	* *	11	
Traffic Volume (vph)	247	15	2	152	106	80	
Future Volume (vph)	247	15	2	152	106	80	
Ideal Flow (vphpl)	1900	1900	1900	2000	2000	1900	
Lane Width (ft)	12	12	12	12	12	12	
Grade (%)	0%			0%	0%		
Storage Length (ft)	160	0	125			115	
Storage Lanes	2	1	1			0	
Taper Length (ft)	100		90				
Lane Util. Factor	0.97	1.00	1.00	0.95	0.95	0.88	
Ped Bike Factor							
Frt		0.850				0.850	
Flt Protected	0.950		0.950				
Satd. Flow (prot)	3433	1615	1805	3800	3762	2787	
FIt Permitted	0.950		0.655				
Satd. Flow (perm)	3433	1615	1244	3800	3762	2787	
Right Turn on Red		Yes				Yes	
Satd. Flow (RTOR)		17				89	
Link Speed (mph)	30			30	30		
Link Distance (ft)	556			645	290		
Travel Time (s)	12.6			14.7	6.6		
Confl. Peds. (#/hr)							
Confl. Bikes (#/hr)							
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Growth Factor	100%	100%	100%	100%	100%	100%	
Heavy Vehicles (%)	2%	0%	0%	0%	1%	2%	
Bus Blockages (#/hr)	0	0	0	0	0	0	
Parking (#/hr)							
Mid-Block Traffic (%)	0%			0%	0%		
Shared Lane Traffic (%)							
Lane Group Flow (vph)	274	17	2	169	118	89	
Turn Type	Prot	Prot	pm+pt	NA	NA	pm+ov	
Protected Phases	4	4	5	2	6	4	
Permitted Phases			2	-	-	6	
Detector Phase	4	4	5	2	6	4	
Switch Phase				(= 0			
Minimum Initial (s)	8.0	8.0	3.0	15.0	15.0	8.0	
Minimum Split (s)	14.0	14.0	6.5	21.0	21.0	14.0	
Total Split (s)	60.0	60.0	14.0	75.0	61.0	60.0	
Total Split (%)	44.4%	44.4%	10.4%	55.6%	45.2%	44.4%	
Yellow Time (s)	4.0	4.0	3.5	4.0	4.0	4.0	
All-Red Time (s)	2.0	2.0	0.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	6.0	6.0	3.5	6.0	6.0	6.0	
Lead/Lag			Lead		Lag		
Lead-Lag Optimize?			Yes	0.1.1	Yes		
Recall Mode	None	None	None	C-Min	C-Min	None	
Act Effct Green (s)	17.4	17.4	108.1	105.6	103.8	132.0	
Actuated g/C Ratio	0.13	0.13	0.80	0.78	0.77	0.98	

PMEX 23-003 Downers Grove 5:40 pm 02/22/2023 Existing Evening Peak ANB

	٦	*	1	t	ţ	4	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
v/c Ratio	0.62	0.08	0.00	0.06	0.04	0.03	
Control Delay	61.6	20.0	3.5	3.7	2.0	0.0	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay	61.6	20.0	3.5	3.7	2.0	0.0	
LOS	E	В	А	А	А	А	
Approach Delay	59.2			3.7	1.1		
Approach LOS	E			А	А		
Queue Length 50th (ft)	119	0	0	14	4	0	
Queue Length 95th (ft)	160	23	2	27	11	0	
Internal Link Dist (ft)	476			565	210		
Turn Bay Length (ft)	160		125			115	
Base Capacity (vph)	1373	656	1040	2972	2892	2787	
Starvation Cap Reductn	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	
Reduced v/c Ratio	0.20	0.03	0.00	0.06	0.04	0.03	
Intersection Summary							
Area Type:	Other						
Cycle Length: 135							
Actuated Cycle Length: 13	5						
Offset: 0 (0%), Referenced	to phase 2:	VBTL and	6:SBT, 8	Start of G	reen		
Natural Cycle: 45							
Control Type: Actuated-Co	ordinated						
Maximum v/c Ratio: 0.62							
Intersection Signal Delay:	27.0			In	tersectior	n LOS: C	
Intersection Capacity Utiliz	ation 29.5%			IC	U Level o	of Service	λŧ
Analysis Period (min) 15							

Splits and Phases: 3: Lacey Road & Woodcreek Drive

1 Ø2 (R) 🕊	* ₀₄
75 s	60 s
▲ Ø5 🔹 Ø6 (R)	
14s 61s	

	۲	1	Ŧ	¥J	٠	7
Lane Group	NBL	NBT	SBT	SBR	SEL	SER
Lane Configurations	55	**	**	1	3	11
Traffic Volume (vnh)	98	544	797	35	55	314
Future Volume (vph)	98	544	797	35	55	314
Ideal Flow (vphpl)	1900	2000	2000	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)		0%	0%		0%	
Storage Length (ft)	305	0,0	070	400	0	205
Storage Lanes	2			1	1	1
Taper Length (ft)	230			1	0	
Lane Util Factor	0.97	0.95	0.95	1 00	1 00	0.88
Ped Bike Factor	0.01	0.00	0.00	1.00	1.00	0.00
Frt				0.850		0 850
Flt Protected	0 950			0.000	0 950	0.000
Satd Flow (prot)	2/22	3760	3760	1/17	1770	2814
Elt Pormittod	0 050	3702	3702	1417	0.050	2014
	0.950	2760	2700	1447	0.900	0044
Salu. Flow (perm)	3433	3/62	3762	1417	1770	2014
Right Lurn on Red				Yes		Yes
Sato. Flow (RTOR)		45	15	36	05	327
LINK Speed (mph)		45	45		35	
LINK Distance (ft)		681	1175		1160	
Travel Time (s)		10.3	17.8		22.6	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	1%	1%	14%	2%	1%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	102	567	830	36	57	327
Turn Type	Prot	NA	NA	pm+ov	Prot	Prot
Protected Phases	5	2	6	7	7	7
Permitted Phases				6		
Detector Phase	5	2	6	7	7	7
Switch Phase						
Minimum Initial (s)	3.0	15.0	15.0	8.0	8.0	8.0
Minimum Split (s)	7.5	21.0	21.0	14.0	14.0	14.0
Total Split (s)	53.0	100.0	47.0	25.0	25.0	25.0
Total Split (%)	42 4%	80.0%	37.6%	20.0%	20.0%	20.0%
Yellow Time (s)	י <u>ר</u> ידי גע	4 0	4 0	20.070 4 0	<u>20.07</u> 0	4 0
All-Red Time (s)	1.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	2.0	2.0	2.0	2.0	2.0
Total Lost Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
	4.0	0.0	0.0	0.0	0.0	0.0
Lead Lag	Lead		Lag			
Lead-Lag Optimize?	Yes	0.14	Yes	NI	NL	NL
Recall Mode	None	C-Min	C-Min	None	None	None
Act Effect Green (s)	9.1	102.2	88.6	105.4	10.8	10.8
Actuated g/C Ratio	0.07	0.82	0.71	0.84	0.09	0.09

PMEX 23-003 Downers Grove 5:40 pm 02/22/2023 Existing Evening Peak ANB

Lanes, Volumes, Timings 4: Finley Road & Lacey Road

4: Finley Road & La	acey Ro	ad					02/24/2023
	٦	t	ţ	¥J	٠	7	
Lane Group	NBL	NBT	SBT	SBR	SEL	SER	
v/c Ratio	0.41	0.18	0.31	0.03	0.37	0.60	
Control Delay	59.9	2.7	7.6	0.7	60.1	10.4	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay	59.9	2.7	7.6	0.7	60.1	10.4	
LOS	E	А	А	А	Е	В	
Approach Delay		11.5	7.3		17.8		
Approach LOS		В	А		В		
Queue Length 50th (ft)	41	40	116	0	44	0	
Queue Length 95th (ft)	69	65	178	5	86	47	
Internal Link Dist (ft)		601	1095		1080		
Turn Bay Length (ft)	305			400		205	
Base Capacity (vph)	1332	3075	2666	1291	269	705	
Starvation Cap Reductn	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	
Reduced v/c Ratio	0.08	0.18	0.31	0.03	0.21	0.46	
Intersection Summary							
Area Type:	Other						
Cycle Length: 125							
Actuated Cycle Length: 125							
Offset: 0 (0%), Referenced t	o phase 2:	NBT and	6:SBT, St	art of Gre	en		
Natural Cycle: 45							
Control Type: Actuated-Coo	rdinated						
Maximum v/c Ratio: 0.60							
Intersection Signal Delay: 10).8			In	tersectior	n LOS: B	
Intersection Capacity Utilizat	tion 44.7%			IC	U Level o	of Service	A
Analysis Period (min) 15							

Splits and Phases: 4: Finley Road & Lacey Road

f ø2 (R)	•	
100 s		
1 ar	ac (0)	¥*
5	V 06 (R)	▼ Ø7
53 s	47 s	25 s

Intersection	
Intersection Delay, s/veh	9.9
Intersection LOS	А

Movement	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations		đ î þ				đ î þ		7	f,			
Traffic Vol, veh/h	15	96	4	0	2	93	173	51	121	18	0	0
Future Vol, veh/h	15	96	4	0	2	93	173	51	121	18	0	0
Peak Hour Factor	0.78	0.78	0.78	0.92	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Heavy Vehicles, %	0	0	0	2	0	0	0	0	0	0	0	0
Mvmt Flow	19	123	5	0	3	119	222	65	155	23	0	0
Number of Lanes	0	2	0	0	0	2	0	1	1	0	0	0
Approach	EB				WB			NB				
Opposing Approach	WB				EB							
Opposing Lanes	2				2			0				
Conflicting Approach Left					NB			EB				
Conflicting Lanes Left	0				2			2				
Conflicting Approach Right	NB							WB				
Conflicting Lanes Right	2				0			2				
HCM Control Delay	9.1				10.1			10.2				
HCM LOS	А				В			В				

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2
Vol Left, %	100%	0%	24%	0%	4%	0%
Vol Thru, %	0%	87%	76%	92%	96%	21%
Vol Right, %	0%	13%	0%	8%	0%	79%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	51	139	63	52	49	220
LT Vol	51	0	15	0	2	0
Through Vol	0	121	48	48	47	47
RT Vol	0	18	0	4	0	173
Lane Flow Rate	65	178	81	67	62	281
Geometry Grp	7	7	7	7	7	7
Degree of Util (X)	0.111	0.274	0.127	0.101	0.093	0.374
Departure Headway (Hd)	6.137	5.543	5.639	5.464	5.366	4.789
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Сар	581	643	632	651	665	749
Service Time	3.913	3.319	3.41	3.235	3.122	2.545
HCM Lane V/C Ratio	0.112	0.277	0.128	0.103	0.093	0.375
HCM Control Delay	9.7	10.4	9.2	8.9	8.7	10.4
HCM Lane LOS	А	В	А	А	А	В
HCM 95th-tile Q	0.4	1.1	0.4	0.3	0.3	1.7

Page	143	of 203
------	-----	--------

Intersection						
Int Delay, s/veh	1.3					
N /				NDT	ODT	000
iviovement	EBL	EBK	NBL	INR I	SBT	SBR
Lane Configurations	1	1	٦	^	†]	
Traffic Vol, veh/h	14	46	2	280	89	1
Future Vol, veh/h	14	46	2	280	89	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	45	0	80	-	-	-
Veh in Median Storage,	# 1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	0	1	0
Mvmt Flow	16	52	2	318	101	1

Major/Minor	Minor2	N	Major1	Maj	or2		
Conflicting Flow All	265	51	102	0	-	0	
Stage 1	102	-	-	-	-	-	
Stage 2	163	-	-	-	-	-	
Critical Hdwy	6.8	6.9	4.1	-	-	-	
Critical Hdwy Stg 1	5.8	-	-	-	-	-	
Critical Hdwy Stg 2	5.8	-	-	-	-	-	
Follow-up Hdwy	3.5	3.3	2.2	-	-	-	
Pot Cap-1 Maneuver	707	1013	1503	-	-	-	
Stage 1	917	-	-	-	-	-	
Stage 2	855	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver	706	1013	1503	-	-	-	
Mov Cap-2 Maneuver	724	-	-	-	-	-	
Stage 1	916	-	-	-	-	-	
Stage 2	855	-	-	-	-	-	

Approach	EB	NB	SB
HCM Control Delay, s	9	0.1	0
HCM LOS	А		

Minor Lane/Major Mvmt	NBL	NBT E	BLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1503	-	724	1013	-	-
HCM Lane V/C Ratio	0.002	-	0.022	0.052	-	-
HCM Control Delay (s)	7.4	-	10.1	8.7	-	-
HCM Lane LOS	А	-	В	А	-	-
HCM 95th %tile Q(veh)	0	-	0.1	0.2	-	-

Intersection							
Int Delay, s/veh	4.2						
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	5	1	7	^	1		
Traffic Vol, veh/h	79	134	38	203	129	6	
Future Vol, veh/h	79	134	38	203	129	6	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-	None	-	None	
Storage Length	115	0	180	-	-	-	
Veh in Median Storage,	# 1	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	84	84	84	84	84	84	
Heavy Vehicles, %	0	0	0	0	1	0	
Mvmt Flow	94	160	45	242	154	7	

Major/Minor	Minor2	N	Major1	Majo	or2		
Conflicting Flow All	369	81	161	0	-	0	
Stage 1	158	-	-	-	-	-	
Stage 2	211	-	-	-	-	-	
Critical Hdwy	6.8	6.9	4.1	-	-	-	
Critical Hdwy Stg 1	5.8	-	-	-	-	-	
Critical Hdwy Stg 2	5.8	-	-	-	-	-	
Follow-up Hdwy	3.5	3.3	2.2	-	-	-	
Pot Cap-1 Maneuver	610	969	1430	-	-	-	
Stage 1	860	-	-	-	-	-	
Stage 2	810	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuve	r 591	969	1430	-	-	-	
Mov Cap-2 Maneuve	r 644	-	-	-	-	-	
Stage 1	833	-	-	-	-	-	
Stage 2	810	-	-	-	-	-	

Approach	EB	NB	SB
HCM Control Delay, s	10.2	1.2	0
HCM LOS	В		

Minor Lane/Major Mvmt	NBL	NBT E	BLn1 I	EBLn2	SBT	SBR
Capacity (veh/h)	1430	-	644	969	-	-
HCM Lane V/C Ratio	0.032	- (0.146	0.165	-	-
HCM Control Delay (s)	7.6	-	11.5	9.4	-	-
HCM Lane LOS	А	-	В	А	-	-
HCM 95th %tile Q(veh)	0.1	-	0.5	0.6	-	-
<u>Capacity Analysis Summary Sheets</u> Year 2029 No-Build Weekday Morning Peak Hour Conditions

Lanes, Volumes, Timings 1: Woodcreek Drive/Lacey Road & Butterfield Road

	٠	-	7	4	+	*	1	Ť	1	4	ŧ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	***	11	ሻሻ	*†		ሻሻ	ţ,	1	7	ţ,	
Traffic Volume (vph)	53	1108	317	590	470	20	57	6	34	70	53	49
Future Volume (vph)	53	1108	317	590	470	20	57	6	34	70	53	49
Ideal Flow (vphpl)	1900	2000	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	265		465	0		0	118		0	120		0
Storage Lanes	1		2	2		0	2		1	1		0
Taper Length (ft)	85			25			45			85		
Lane Util. Factor	1.00	0.91	0.88	0.97	0.91	0.91	0.97	0.95	0.95	1.00	1.00	1.00
Ped Bike Factor												
Frt			0.850		0.994			0.894	0.850		0.928	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1805	5353	2814	3467	4857	0	3433	1487	1370	1787	1730	0
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1805	5353	2814	3467	4857	0	3433	1487	1370	1787	1730	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			369		7			17	183		31	
Link Speed (mph)		45			45			30			30	
Link Distance (ft)		2017			601			290			452	
Travel Time (s)		30.6			9.1			6.6			10.3	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	0%	2%	1%	1%	6%	10%	2%	0%	12%	1%	0%	4%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)									43%			
Lane Group Flow (vph)	62	1288	369	686	570	0	66	24	23	81	119	0
Turn Type	Prot	NA	Perm	Prot	NA		Prot	NA	Perm	Prot	NA	
Protected Phases	5	2		1	6		3	8		7	4	
Permitted Phases			2						8			
Detector Phase	5	2	2	1	6		3	8	8	7	4	
Switch Phase												
Minimum Initial (s)	3.0	15.0	15.0	3.0	15.0		3.0	8.0	8.0	3.0	8.0	
Minimum Split (s)	7.5	21.0	21.0	7.5	21.0		7.5	14.0	14.0	7.5	14.0	
Total Split (s)	22.5	57.5	57.5	30.0	65.0		14.0	17.5	17.5	20.0	23.5	
Total Split (%)	18.0%	46.0%	46.0%	24.0%	52.0%		11.2%	14.0%	14.0%	16.0%	18.8%	
Yellow Time (s)	3.5	4.0	4.0	3.5	4.0		3.5	4.0	4.0	3.5	4.0	
All-Red Time (s)	1.0	2.0	2.0	1.0	2.0		1.0	2.0	2.0	1.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	4.5	6.0	6.0	4.5	6.0		4.5	6.0	6.0	4.5	6.0	
Lead/Lag	Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	
Recall Mode	None	C-Min	C-Min	None	C-Min		None	None	None	None	None	
Act Effct Green (s)	9.7	56.9	56.9	28.7	78.0		7.7	9.6	9.6	13.8	12.7	
Actuated g/C Ratio	0.08	0.46	0.46	0.23	0.62		0.06	0.08	0.08	0.11	0.10	

AMNB 23-003 Downers Grove 12:48 pm 02/23/2023 No Build Morning Peak ANB

Synchro 11 Report . Page 1

Lanes, Volumes, Timings 1: Woodcreek Drive/Lacey Road & Butterfield Road

	٦	→	7	4	+	•	1	Ť	1	1	ţ	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.45	0.53	0.25	0.86	0.19		0.31	0.18	0.08	0.41	0.59	
Control Delay	64.3	26.6	2.7	71.3	10.4		42.2	19.1	3.0	58.2	50.5	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Total Delay	64.3	26.6	2.7	71.3	10.4		42.2	19.1	3.0	58.2	50.5	
LOS	E	С	А	E	В		D	В	А	E	D	
Approach Delay		22.8			43.6			29.3			53.6	
Approach LOS		С			D			С			D	
Queue Length 50th (ft)	49	291	0	304	57		26	0	0	64	69	
Queue Length 95th (ft)	89	319	26	#388	70		28	32	0	108	120	
Internal Link Dist (ft)		1937			521			210			372	
Turn Bay Length (ft)	265		465				118			120		
Base Capacity (vph)	259	2437	1482	795	3035		260	153	293	244	268	
Starvation Cap Reductn	0	0	0	0	0		0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0		0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0		0	0	0	0	0	
Reduced v/c Ratio	0.24	0.53	0.25	0.86	0.19		0.25	0.16	0.08	0.33	0.44	
Intersection Summary												
Area Type:	Other											
Cycle Length: 125												
Actuated Cycle Length: 12	5											
Offset: 0 (0%), Referenced	I to phase 2:	EBT and	6:WBT, S	tart of Gr	een							
Natural Cycle: 70												
Control Type: Actuated-Co	ordinated											
Maximum v/c Ratio: 0.86												
Intersection Signal Delay:	32.9			In	tersectior	n LOS: C						
Intersection Capacity Utiliz	ation 61.5%			IC	CU Level o	of Service	В					
Analysis Period (min) 15												
# 95th percentile volume exceeds capacity, queue may be longer.												
Queue shown is maxim	ium after two	cycles.										

Splits and Phases: 1: Woodcreek Drive/Lacey Road & Butterfield Road

√ Ø1	🖉 🤝 🕶 🕼 2 (R)	▲ Ø3 ↓ Ø4
30 s	57.5 s	14 s 23.5 s
	< Ø♥(R)	Ø7 Ø8
22.5 s	65 s	20 s 17.5 s

Lanes, Volumes, Timings 2: Esplanade Road/Access Drive & Butterfield Road

	٠	-	7	4	-	•	1	Ť	1	1	ŧ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	5	***			11111	1			11	ሻሻ		1
Traffic Volume (vph)	34	1178	0	0	1034	75	0	0	41	89	0	46
Future Volume (vph)	34	1178	0	0	1034	75	0	0	41	89	0	46
Ideal Flow (vphpl)	1900	2000	1900	1900	2000	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	230		0	60		175	0		0	0		100
Storage Lanes	1		0	2		1	0		2	2		1
Taper Length (ft)	210		-	300			25		_	25		-
Lane Util. Factor	1.00	0.91	1.00	1.00	0.81	1.00	1.00	1.00	0.88	0.97	1.00	1.00
Ped Bike Factor									0.00	0.0.		
Frt						0.850			0.850			0.850
Flt Protected	0.950									0.950		
Satd Flow (prot)	1805	5353	0	0	7941	1495	0	0	2682	3433	0	1583
Flt Permitted	0.950	0000	Ū	Ŭ			Ŭ	Ū	2002	0.950	Ŭ	1000
Satd Flow (perm)	1805	5353	0	0	7941	1495	0	0	2682	3433	0	1583
Right Turn on Red	1000	0000	Yes	Ū	7011	Yes	Ū	U	Yes	0100	Ū	Yes
Satd Flow (RTOR)			100			82			189			65
Link Speed (mph)		45			45	02		30	105		30	00
Link Distance (ff)		601			1566			352			378	
Travel Time (s)		9.1			23.7			8.0			86	
Confl Peds (#/hr)		5.1			20.1			0.0			0.0	
Confl Bikes (#/hr)												
Peak Hour Factor	0.91	0.91	0.91	0 91	0 91	0.91	0.91	0.91	0.91	0 91	0.91	0 91
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	0%	2%	0%	0%	2%	8%	0%	0%	6%	2%	0%	2%
Bus Blockages (#/br)	0.0	2 /0	0.0	0,0	2 /0	0,0	0,0	070	0,0	2 /0	0,0	2 /0
Parking (#/hr)	0	U	U	0	0	0	0	U	0	0	0	0
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)		0 /0			0 /0			0 /0			0 /0	
Lane Group Flow (vph)	37	1205	0	0	1136	82	0	0	15	90	0	51
	Prot	NA	0	0	NA	custom	0	U	Prot	Prot	0	custom
Protected Phases	5	2			6	7.8			8	7		7 8
Parmitted Phases	J	2			0	6			8	7		70
Detector Phase	5	2			6	7.8			8	7		78
Switch Phase	J	2			0	70			0	1		70
Minimum Initial (c)	3.0	15.0			15.0				8.0	8.0		
Minimum Split (s)	7.5	21.0			21.0				14.0	14.0		
Total Split (s)	15.0	21.0			21.0				14.0	14.0		
Total Split (S)	10.0	92.5			62.00/				10.0	12 20/		
Yollow Time (a)	12.0%	14.0%			02.0%				12.0%	13.2%		
fellow Time (s)	3.5	4.0			4.0				4.0	4.0		
All-Red Time (S)	1.0	2.0			2.0				2.0	2.0		
Lost Time Adjust (S)	0.0	0.0			0.0				0.0	0.0		
	4.5	0.0			0.0				0.0	0.0		
Lead Lag Optimized	Lead				Lag				Lead	Lag		
Lead-Lag Optimize?	Yes	0 Mi-			Yes				Yes	Yes		
	NONE	U-IVIIN				112.0			ivone	ivone		04.0
Act Effect Green (s)	8.0	89.0			80.7	113.2			8.2	9.9		24.0
Actuated g/C Ratio	0.06	0./1			0.65	0.91			0.07	0.08		0.19

AMNB 23-003 Downers Grove 12:48 pm 02/23/2023 No Build Morning Peak ANB

Synchro 11 Report . Page 3

Lanes, Volumes, Timings

2: Esplanade Road/Access Drive & Butterfield Road

	٨	+	1	-	+	*	•	t	1	4	Ţ	4
Lane Group	EBL	EBT	EBR	• WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.32	0.34			0.22	0.06			0.13	0.36		0.14
Control Delay	97.6	1.1			10.1	0.5			0.8	58.0		7.2
Queue Delay	0.0	0.0			0.0	0.0			0.0	0.0		0.0
Total Delay	97.6	1.1			10.1	0.5			0.8	58.0		7.2
LOS	F	А			В	А			А	Е		А
Approach Delay		3.8			9.4			0.8			40.6	
Approach LOS		А			А			А			D	
Queue Length 50th (ft)	32	4			96	0			0	39		0
Queue Length 95th (ft)	m62	7			125	7			0	67		25
Internal Link Dist (ft)		521			1486			272			298	
Turn Bay Length (ft)	230					175						100
Base Capacity (vph)	151	3809			5129	1298			388	297		317
Starvation Cap Reductn	0	0			0	0			0	0		0
Spillback Cap Reductn	0	0			0	0			0	0		0
Storage Cap Reductn	0	0			0	0			0	0		0
Reduced v/c Ratio	0.25	0.34			0.22	0.06			0.12	0.33		0.16
Intersection Summary												
Area Type:	Other											
Cycle Length: 125												
Actuated Cycle Length: 12	25											
Offset: 10 (8%), Reference	ed to phase 2	EBT and	6:WBT,	Start of G	ireen							

Natural Cycle: 60

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.36

Intersection Signal Delay: 8.2

Intersection Capacity Utilization 45.0%

Intersection LOS: A ICU Level of Service A

Analysis Period (min) 15

m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 2: Esplanade Road/Access Drive & Butterfield Road



3: Lacey Road & W	oodcre	ek Dri	02/24/2023				
	٨	7	1	1	ŧ	~	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	ካካ	1	5	**	**	11	
Traffic Volume (vph)	47	5	10	50	537	423	
Future Volume (vph)	47	5	10	50	537	423	
Ideal Flow (vphpl)	1900	1900	1900	2000	2000	1900	
Lane Width (ft)	12	12	12	12	12	12	
Grade (%)	0%			0%	0%		
Storage Length (ft)	160	0	125			115	
Storage Lanes	2	1	1			0	
Taper Length (ft)	100		90				
Lane Util. Factor	0.97	1.00	1.00	0.95	0.95	0.88	
Ped Bike Factor							
Frt		0.850				0.850	
Flt Protected	0.950		0.950				
Satd. Flow (prot)	3183	1346	1805	3725	3725	2814	
Flt Permitted	0.950		0.387				
Satd. Flow (perm)	3183	1346	735	3725	3725	2814	
Right Turn on Red		Yes				Yes	
Satd. Flow (RTOR)		6				516	
Link Speed (mph)	30			30	30		
Link Distance (ft)	556			645	290		
Travel Time (s)	12.6			14.7	6.6		
Confl. Peds. (#/hr)							
Confl. Bikes (#/hr)							
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82	
Growth Factor	100%	100%	100%	100%	100%	100%	
Heavy Vehicles (%)	10%	20%	0%	2%	2%	1%	
Bus Blockages (#/hr)	0	0	0	0	0	0	
Parking (#/hr)	•••			•••	• • •		
Mid-Block Traffic (%)	0%			0%	0%		
Shared Lane Traffic (%)			40			= 1 0	
Lane Group Flow (vph)	57	6	12	61	655	516	
Turn Type	Prot	Prot	pm+pt	NA	NA	pm+ov	
Protected Phases	4	4	5	2	6	4	
Permitted Phases	-	-	2	0	•	6	
Detector Phase	4	4	5	2	6	4	
Switch Phase	0.0	0.0	0.0	45.0	45.0	0.0	
Minimum Initial (s)	8.0	8.0	3.0	15.0	15.0	0.8	
	14.0	14.0	0.5	21.0	21.0	14.0	
Total Split (S)	34.0	34.0	12.0	91.0	79.0	34.0	
Total Split (%)	21.2%	21.2%	9.6%	12.8%	63.2%	27.2%	
Yellow Time (s)	4.0	4.0	3.5	4.0	4.0	4.0	
All-Red Time (S)	2.0	2.0	0.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (S)	0.0	0.0	3.5	0.0	6.0	6.0	
Leau/Lag			Lead		Lag		
Leau-Lag Optimize?	Na	Nan -	Yes	C Min	Yes	Nie -	
	INONE	INONE			C-IVIIN	INONE	
	9.7	9.7	105.8	103.3	99.6	118.9	
Actuated g/C Ratio	0.08	0.08	0.85	0.83	0.80	0.95	

AMNB 23-003 Downers Grove 12:48 pm 02/23/2023 No Build Morning Peak ANB

Synchro 11 Report Page 5

Lanes, Volumes, Timings 3: Lacey Road & Woodcreek Drive

	۶	7	1	t	ţ	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
v/c Ratio	0.23	0.06	0.02	0.02	0.22	0.19
Control Delay	55.7	30.6	1.8	2.1	1.3	0.1
Queue Delay	0.0	0.0	0.0	0.0	0.4	0.0
Total Delay	55.7	30.6	1.8	2.1	1.7	0.1
LOS	E	С	А	А	А	А
Approach Delay	53.3			2.1	1.0	
Approach LOS	D			А	А	
Queue Length 50th (ft)	22	0	1	3	15	0
Queue Length 95th (ft)	40	13	4	7	26	0
Internal Link Dist (ft)	476			565	210	
Turn Bay Length (ft)	160		125			115
Base Capacity (vph)	712	306	694	3078	2967	2814
Starvation Cap Reductn	0	0	0	0	1732	479
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.08	0.02	0.02	0.02	0.53	0.22
Intersection Summary						
Area Type:	Other					
Cycle Length: 125						
Actuated Cycle Length: 12	5					
Offset: 0 (0%), Referenced	I to phase 2:1	VBTL and	l 6:SBT, S	Start of G	reen	
Natural Cycle: 45						
Control Type: Actuated-Co	ordinated					
Maximum v/c Ratio: 0.23						
Intersection Signal Delay:	3.6			In	tersection	n LOS: A
Intersection Capacity Utiliz	ation 30.8%			IC	U Level o	of Service
Analysis Period (min) 15						

Splits and Phases: 3: Lacey Road & Woodcreek Drive



	۲	t	Ŧ	¥J	ه	7
Lane Group	NBL	NBT	SBT	SBR	SEL	SER
Lane Configurations	55	**	**	1	*	11
Traffic Volume (vph)	452	706	415	114	10	104
Future Volume (vph)	452	706	415	114	10	104
Ideal Flow (vphpl)	1900	2000	2000	1900	1900	1900
Lane Width (ff)	12	12	12	12	12	12
Grade (%)	16	0%	0%	12	0%	12
Storage Length (ft)	305	0,0	070	400	0	205
Storage Lanes	2			1	1	1
Taper Length (ft)	230				0	1
Lane Util Factor	0.97	0.95	0.95	1 00	1 00	0.88
Ped Rike Factor	0.31	0.00	0.00	1.00	1.00	0.00
Frt				0.850		0.850
Flt Protected	0 950			0.000	0 950	0.000
Satd Flow (prot)	2018	3551	3762	1500	1736	28/12
Elt Permitted	0 050	5551	5702	1999	0 050	2042
Sate Flow (norm)	0.900	3551	2760	1500	0.900	2012
Dight Turp on Dod	2910	2021	3/02	Vee	1/30	204Z
				Y es		res
Salu. FIOW (KTUK)		45	4.5	131	25	120
Link Speed (mpn)		45	45		35	
LINK DISTANCE (IT)		100	11/5		1160	
Travel Time (s)		10.3	17.8		22.6	
Contil. Peds. (#/hr)						
Contil. Bikes (#/hr)	0.07	0.07	0.07	0.07	0.07	0.07
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	20%	7%	1%	1%	4%	0%
Bus Blockages (#/hr)	0	0	0	0	0	0
Mid Plook Troffic (0/)		00/	00/		00/	
WIU-DIUCK I FAITIC (%)		υ%	0%		0%	
	500	044	477	404	4.4	400
Lane Group Flow (vph)	520	811	4//	131	11	120
Turn Type	Prot	NA	NA	pm+ov	Prot	Prot
Protected Phases	5	2	6	1	1	1
Permitted Phases	-	-	-	6	_	_
Detector Phase	5	2	6	7	7	7
Switch Phase						
Minimum Initial (s)	3.0	15.0	15.0	8.0	8.0	8.0
Minimum Split (s)	7.5	21.0	21.0	14.0	14.0	14.0
Total Split (s)	53.0	100.0	47.0	25.0	25.0	25.0
Total Split (%)	42.4%	80.0%	37.6%	20.0%	20.0%	20.0%
Yellow Time (s)	3.5	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	1.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	6.0	6.0	6.0	6.0	6.0
Lead/Lag	Lead		Lag			
Lead-Lag Optimize?	Yes		Yes			
Recall Mode	None	C-Min	C-Min	None	None	None
Act Effct Green (s)	28.2	104.6	72.0	86.3	8.4	8.4
	0.23	0.84	0.58	0.69	0.07	0.07

AMNB 23-003 Downers Grove 12:48 pm 02/23/2023 No Build Morning Peak ANB

Synchro 11 Report Page 7

Lanes, Volumes, Timings 4: Finley Road & Lacey Road

i	/						
	٦	1	ŧ	N.	پ	7	
Lane Group	NBL	NBT	SBT	SBR	SEL	SER	
v/c Ratio	0.79	0.27	0.22	0.11	0.09	0.40	
Control Delay	54.6	2.4	14.0	1.6	56.3	13.6	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay	54.6	2.4	14.0	1.6	56.3	13.6	
LOS	D	А	В	А	E	В	
Approach Delay		22.8	11.3		17.1		
Approach LOS		С	В		В		
Queue Length 50th (ft)	205	53	93	0	9	0	
Queue Length 95th (ft)	240	72	139	20	27	30	
Internal Link Dist (ft)		601	1095		1080		
Turn Bay Length (ft)	305			400		205	
Base Capacity (vph)	1132	2972	2166	1269	263	533	
Starvation Cap Reductn	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	
Reduced v/c Ratio	0.46	0.27	0.22	0.10	0.04	0.23	
Intersection Summary							
Area Type:	Other						
Cycle Length: 125							
Actuated Cycle Length: 12	25						
Offset: 0 (0%), Reference	d to phase 2:I	NBT and	6:SBT, St	art of Gre	een		
Natural Cycle: 55							
Control Type: Actuated-C	oordinated						
Maximum v/c Ratio: 0.79							
Intersection Signal Delay:	19.1			In	tersectior	n LOS: B	
Intersection Capacity Utili	zation 45.8%			IC	U Level o	of Service	əА
Analysis Period (min) 15							

Splits and Phases: 4: Finley Road & Lacey Road

f ø2 (R)		
100 s		
1 05	M (R)	
53 s	47 s	25 s

Intersection	
Intersection Delay, s/veh	10.2
Intersection LOS	В

Movement	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations		đ þ				đ î þ		7	Į.			
Traffic Vol, veh/h	7	257	249	0	23	45	29	6	5	10	0	0
Future Vol, veh/h	7	257	249	0	23	45	29	6	5	10	0	0
Peak Hour Factor	0.87	0.87	0.87	0.92	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Heavy Vehicles, %	25	3	0	2	0	2	11	0	0	0	0	0
Mvmt Flow	8	295	286	0	26	52	33	7	6	11	0	0
Number of Lanes	0	2	0	0	0	2	0	1	1	0	0	0
Approach	EB				WB			NB				
Opposing Approach	WB				EB							
Opposing Lanes	2				2			0				
Conflicting Approach Left					NB			EB				
Conflicting Lanes Left	0				2			2				
Conflicting Approach Right	NB							WB				
Conflicting Lanes Right	2				0			2				
HCM Control Delay	10.7				8.1			8.7				
HCM LOS	В				А			А				

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	
Vol Left, %	100%	0%	5%	0%	51%	0%	
Vol Thru, %	0%	33%	95%	34%	49%	44%	
Vol Right, %	0%	67%	0%	66%	0%	56%	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	6	15	136	378	46	52	
LT Vol	6	0	7	0	23	0	
Through Vol	0	5	129	129	23	23	
RT Vol	0	10	0	249	0	29	
Lane Flow Rate	7	17	156	434	52	59	
Geometry Grp	7	7	7	7	7	7	
Degree of Util (X)	0.012	0.026	0.218	0.504	0.077	0.077	
Departure Headway (Hd)	6.472	5.499	5.047	4.185	5.291	4.675	
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	
Сар	556	654	706	855	681	771	
Service Time	4.18	3.207	2.815	1.952	2.993	2.378	
HCM Lane V/C Ratio	0.013	0.026	0.221	0.508	0.076	0.077	
HCM Control Delay	9.3	8.4	9.2	11.2	8.4	7.8	
HCM Lane LOS	А	А	А	В	А	А	
HCM 95th-tile Q	0	0.1	0.8	2.9	0.2	0.2	

Intersection							
Int Delay, s/veh	1.1						
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	7	1	7	^	1		
Traffic Vol, veh/h	3	3	50	99	244	16	
Future Vol, veh/h	3	3	50	99	244	16	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-	None	-	None	
Storage Length	45	0	80	-	-	-	
Veh in Median Storage,	# 1	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	82	82	82	82	82	82	
Heavy Vehicles, %	0	67	2	3	3	6	
Mvmt Flow	4	4	61	121	298	20	

Major/Minor	Minor2	Ν	/lajor1	Majo	or2		
Conflicting Flow All	491	159	318	0	-	0	
Stage 1	308	-	-	-	-	-	
Stage 2	183	-	-	-	-	-	
Critical Hdwy	6.8	8.24	4.14	-	-	-	
Critical Hdwy Stg 1	5.8	-	-	-	-	-	
Critical Hdwy Stg 2	5.8	-	-	-	-	-	
Follow-up Hdwy	3.5	3.97	2.22	-	-	-	
Pot Cap-1 Maneuver	512	687	1239	-	-	-	
Stage 1	725	-	-	-	-	-	
Stage 2	836	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuve	r 487	687	1239	-	-	-	
Mov Cap-2 Maneuve	r 561	-	-	-	-	-	
Stage 1	689	-	-	-	-	-	
Stage 2	836	-	-	-	-	-	

Approach	EB	NB	SB
HCM Control Delay, s	10.9	2.7	0
HCM LOS	В		

Minor Lane/Major Mvmt	NBL	NBT E	EBLn1	EBLn2	SBT	SBR	
Capacity (veh/h)	1239	-	561	687	-	-	
HCM Lane V/C Ratio	0.049	-	0.007	0.005	-	-	
HCM Control Delay (s)	8.1	-	11.5	10.3	-	-	
HCM Lane LOS	Α	-	В	В	-	-	
HCM 95th %tile Q(veh)	0.2	-	0	0	-	-	

Intersection											
Int Delay, s/veh	4.4										
Movement	EBL	EBR	NBL	NBT	SBT	SBR					
Lane Configurations	٢	1	5	^	1						
Traffic Vol, veh/h	21	42	261	128	170	77					
Future Vol, veh/h	21	42	261	128	170	77					
Conflicting Peds, #/hr	0	0	0	0	0	0					
Sign Control	Stop	Stop	Free	Free	Free	Free					
RT Channelized	-	None	-	None	-	None					
Storage Length	115	0	180	-	-	-					
Veh in Median Storage	e, # 1	-	-	0	0	-					
Grade, %	0	-	-	0	0	-					
Peak Hour Factor	84	84	84	84	84	84					
Heavy Vehicles, %	5	2	1	2	3	3					
Mvmt Flow	25	50	311	152	202	92					

Major/Minor	Minor2	N	Major1	Maj	or2	
Conflicting Flow All	946	147	294	0	-	0
Stage 1	248	-	-	-	-	-
Stage 2	698	-	-	-	-	-
Critical Hdwy	6.9	6.94	4.12	-	-	-
Critical Hdwy Stg 1	5.9	-	-	-	-	-
Critical Hdwy Stg 2	5.9	-	-	-	-	-
Follow-up Hdwy	3.55	3.32	2.21	-	-	-
Pot Cap-1 Maneuver	254	873	1272	-	-	-
Stage 1	761	-	-	-	-	-
Stage 2	447	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	r 192	873	1272	-	-	-
Mov Cap-2 Maneuver	r 315	-	-	-	-	-
Stage 1	575	-	-	-	-	-
Stage 2	447	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	12.1	5.9	0
HCM LOS	В		

Minor Lane/Major Mvmt	NBL	NBT EB	BLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1272	-	315	873	-	-
HCM Lane V/C Ratio	0.244	- 0.	.079	0.057	-	-
HCM Control Delay (s)	8.7	- '	17.4	9.4	-	-
HCM Lane LOS	А	-	С	Α	-	-
HCM 95th %tile Q(veh)	1	-	0.3	0.2	-	-

<u>Capacity Analysis Summary Sheets</u> Year 2029 No-Build Weekday Evening Peak Hour Conditions

Lanes, Volumes, Timings 1: Woodcreek Drive/Lacey Road & Butterfield Road

	٨	-	7	4	•	*	1	Ť	1	4	ţ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	2	***	77	ሻሻ	*†		ኘኘ	ĥ	*	5	ħ	
Traffic Volume (vph)	29	880	67	113	1213	65	233	25	157	48	14	75
Future Volume (vph)	29	880	67	113	1213	65	233	25	157	48	14	75
Ideal Flow (vphpl)	1900	2000	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	265		465	0		0	118		0	120		0
Storage Lanes	1		2	2		0	2		1	1		0
Taper Length (ft)	85			25			45			85		
Lane Util. Factor	1.00	0.91	0.88	0.97	0.91	0.91	0.97	0.95	0.95	1.00	1.00	1.00
Ped Bike Factor												
Frt			0.850		0.992			0.890	0.850		0.874	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1805	5406	2814	3467	5097	0	3502	1595	1519	1805	1647	0
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1805	5406	2814	3467	5097	0	3502	1595	1519	1805	1647	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			170		9			71	133		78	
Link Speed (mph)		45			45			30			30	
Link Distance (ft)		2017			601			290			452	
Travel Time (s)		30.6			9.1			6.6			10.3	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	0%	1%	1%	1%	1%	0%	0%	0%	1%	0%	0%	1%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)									43%			
Lane Group Flow (vph)	30	917	70	118	1332	0	243	97	93	50	93	0
Turn Type	Prot	NA	Perm	Prot	NA		Prot	NA	Perm	Prot	NA	
Protected Phases	5	2		1	6		3	8		7	4	
Permitted Phases			2						8			
Detector Phase	5	2	2	1	6		3	8	8	7	4	
Switch Phase												
Minimum Initial (s)	3.0	15.0	15.0	3.0	15.0		3.0	8.0	8.0	3.0	8.0	
Minimum Split (s)	7.5	21.0	21.0	7.5	21.0		7.5	14.0	14.0	7.5	14.0	
Total Split (s)	13.5	59.0	59.0	32.5	78.0		25.5	30.0	30.0	13.5	18.0	
Total Split (%)	10.0%	43.7%	43.7%	24.1%	57.8%		18.9%	22.2%	22.2%	10.0%	13.3%	
Yellow Time (s)	3.5	4.0	4.0	3.5	4.0		3.5	4.0	4.0	3.5	4.0	
All-Red Time (s)	1.0	2.0	2.0	1.0	2.0		1.0	2.0	2.0	1.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	4.5	6.0	6.0	4.5	6.0		4.5	6.0	6.0	4.5	6.0	
Lead/Lag	Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	
Recall Mode	None	C-Min	C-Min	None	C-Min		None	None	None	None	None	
Act Effct Green (s)	7.7	80.0	80.0	10.0	86.5		14.6	18.0	18.0	8.1	9.4	
Actuated g/C Ratio	0.06	0.59	0.59	0.07	0.64		0.11	0.13	0.13	0.06	0.07	

PMNB 23-003 Downers Grove 12:48 pm 02/23/2023 No Build Evening Peak ANB

Synchro 11 Report Page 1

Lanes, Volumes, Timings

1: Woodcreek Drive/Lacey Road & Butterfield Road

	٠	+	*	1	Ļ	•	1	t	1	*	ţ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.29	0.29	0.04	0.46	0.41		0.64	0.35	0.29	0.46	0.50	
Control Delay	67.5	14.5	0.0	99.8	3.6		46.6	25.5	19.2	75.1	26.3	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Total Delay	67.5	14.5	0.0	99.8	3.6		46.6	25.5	19.2	75.1	26.3	
LOS	E	В	А	F	А		D	С	В	Е	С	
Approach Delay		15.1			11.4			36.0			43.4	
Approach LOS		В			В			D			D	
Queue Length 50th (ft)	26	134	0	56	58		113	37	31	43	13	
Queue Length 95th (ft)	59	198	0	89	310		158	88	83	87	68	
Internal Link Dist (ft)		1937			521			210			372	
Turn Bay Length (ft)	265		465				118			120		
Base Capacity (vph)	123	3203	1737	719	3267		544	341	379	120	219	
Starvation Cap Reductn	0	0	0	0	249		0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0		0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0		0	0	0	0	0	
Reduced v/c Ratio	0.24	0.29	0.04	0.16	0.44		0.45	0.28	0.25	0.42	0.42	
Intersection Summary												
Area Type:	Other											
Cycle Length: 135												
Actuated Cycle Length: 135	5											
Offset: 0 (0%), Referenced	to phase 2:	EBT and	6:WBT, S	tart of Gr	een							
Natural Cycle: 60												
Control Type: Actuated-Co	ordinated											
Maximum v/c Ratio: 0.64												
Intersection Signal Delay: 1	7.6			In	tersectior	LOS: B						
Intersection Capacity Utilization	ation 55.3%			IC	U Level o	of Service	В					

Analysis Period (min) 15

Splits and Phases: 1: Woodcreek Drive/Lacey Road & Butterfield Road

√ Ø1		₩Ø2 (R)	103			₽ Ø4	
32.5 s		59 s	25.5 s			18 s	
	←Ø6 (R)		Ø7		ØS		
13.5 s	78 s		13.5 s	30) s		

Lanes, Volumes, Timings 2: Esplanade Road/Access Drive & Butterfield Road

	٠	-	7	4	+	•	1	Ť	1	4	ŧ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	5	***			11111	1			11	ሻሻ		1
Traffic Volume (vph)	83	1002	0	0	1291	170	0	0	317	119	0	100
Future Volume (vph)	83	1002	0	0	1291	170	0	0	317	119	0	100
Ideal Flow (vphpl)	1900	2000	1900	1900	2000	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	230		0	60		175	0		0	0		100
Storage Lanes	1		0	2		1	0		2	2		1
Taper Length (ft)	210			300			25			25		
Lane Util. Factor	1.00	0.91	1.00	1.00	0.81	1.00	1.00	1.00	0.88	0.97	1.00	1.00
Ped Bike Factor												
Frt						0.850			0.850			0.850
Flt Protected	0.950									0.950		
Satd, Flow (prot)	1805	5406	0	0	8020	1599	0	0	2814	3433	0	1615
Flt Permitted	0.950		-	-			-	-		0.950	-	
Satd, Flow (perm)	1805	5406	0	0	8020	1599	0	0	2814	3433	0	1615
Right Turn on Red			Yes			Yes	•	•	Yes	0.00	· ·	Yes
Satd. Flow (RTOR)						175			272			103
Link Speed (mph)		45			45	•		30			30	
Link Distance (ft)		601			1566			352			378	
Travel Time (s)		9.1			23.7			8.0			8.6	
Confl. Peds. (#/hr)		•						0.0			0.0	
Confl. Bikes (#/hr)												
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	0%	1%	0%	0%	1%	1%	0%	0%	1%	2%	0%	0%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)	•	Ţ	•		Ţ	•	· ·	Ţ	Ţ	•	•	
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)		• / •			• / •			• / •			• / •	
Lane Group Flow (vph)	86	1033	0	0	1331	175	0	0	327	123	0	103
Turn Type	Prot	NA	•	Ū	NA	custom	Ū.	Ţ	Prot	Prot	,	custom
Protected Phases	5	2			6	7 8			8	7		7 8
Permitted Phases	•	_			Ţ	6			8	7		
Detector Phase	5	2			6	78			8	7		78
Switch Phase	•				Ţ	. •				•		
Minimum Initial (s)	3.0	15.0			15.0				8.0	8.0		
Minimum Split (s)	7.5	21.0			21.0				14.0	14.0		
Total Split (s)	16.0	96.0			80.0				19.0	20.0		
Total Split (%)	11.9%	71.1%			59.3%				14 1%	14.8%		
Yellow Time (s)	3.5	4 0			4 0				4 0	4 0		
All-Red Time (s)	10	2.0			2.0				2.0	2.0		
Lost Time Adjust (s)	0.0	0.0			0.0				0.0	0.0		
Total Lost Time (s)	4.5	6.0			6.0				6.0	6.0		
lead/lag	l ead	0.0			l an				l ead	l an		
Lead-Lag Optimize?	Yes				Yes				Yes	Yes		
Recall Mode	None	C-Min			C-Min				None	None		
Act Effct Green (s)	10.7	95.4			80.1	113.8			10.5	11.2		27.6
Actuated g/C Ratio	0.08	0 71			0.59	0.84			0.08	0.08		0.20
	0.00	V.1 1			0.00	0.04			0.00	0.00		0.20

PMNB 23-003 Downers Grove 12:48 pm 02/23/2023 No Build Evening Peak ANB

Synchro 11 Report . Page 3

Lanes, Volumes, Timings

2: Esplanade Road/Access Drive & Butterfield Road

	٠	+	*	1	Ļ	*	1	t	1	*	ţ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.60	0.27			0.28	0.13			0.70	0.43		0.25
Control Delay	85.8	6.3			14.1	0.5			20.6	63.3		8.9
Queue Delay	0.0	0.0			0.0	0.0			0.0	0.0		0.0
Total Delay	85.8	6.3			14.1	0.5			20.6	63.3		8.9
LOS	F	А			В	А			С	Е		A
Approach Delay		12.4			12.5			20.6			38.5	
Approach LOS		В			В			С			D	
Queue Length 50th (ft)	78	76			135	0			26	53		0
Queue Length 95th (ft)	140	107			170	10			79	85		47
Internal Link Dist (ft)		521			1486			272			298	
Turn Bay Length (ft)	230					175						100
Base Capacity (vph)	158	3818			4761	1393			516	356		432
Starvation Cap Reductn	0	0			0	0			0	0		0
Spillback Cap Reductn	0	0			0	0			0	0		0
Storage Cap Reductn	0	0			0	0			0	0		0
Reduced v/c Ratio	0.54	0.27			0.28	0.13			0.63	0.35		0.24
Intersection Summary												
Area Type:	Other											
Cycle Length: 135												
Actuated Cycle Length: 13	35											
Offset: 104 (77%), Refere	nced to phas	e 2:EBT a	nd 6:WB	T, Start o	f Green							
Natural Cycle: 60												
Control Type: Actuated-C	oordinated											
Maximum v/a Datia 0.70												

Maximum v/c Ratio: 0.70

Intersection Signal Delay: 15.2 Intersection Capacity Utilization 46.2% Analysis Period (min) 15 Intersection LOS: B ICU Level of Service A

Splits and Phases: 2: Esplanade Road/Access Drive & Butterfield Road



3: Lacey Road & W	Voodcre	ek Dri	02/24/2023				
	۶	7	1	1	ŧ	~	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	ሻሻ	1	7	^	^	11	
Traffic Volume (vph)	258	15	2	157	111	83	
Future Volume (vph)	258	15	2	157	111	83	
Ideal Flow (vphpl)	1900	1900	1900	2000	2000	1900	
Lane Width (ft)	12	12	12	12	12	12	
Grade (%)	0%			0%	0%		
Storage Length (ft)	160	0	125			115	
Storage Lanes	2	1	1			0	
Taper Length (ft)	100		90				
Lane Util. Factor	0.97	1.00	1.00	0.95	0.95	0.88	
Ped Bike Factor							
Frt		0.850				0.850	
FIt Protected	0.950		0.950				
Satd. Flow (prot)	3433	1615	1805	3800	3762	2787	
FIt Permitted	0.950		0.651				
Satd. Flow (perm)	3433	1615	1237	3800	3762	2787	
Right Turn on Red		Yes				Yes	
Satd. Flow (RTOR)		17				92	
Link Speed (mph)	30			30	30		
Link Distance (ft)	556			645	290		
Travel Time (s)	12.6			14.7	6.6		
Confl. Peds. (#/hr)							
Confl. Bikes (#/hr)							
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Growth Factor	100%	100%	100%	100%	100%	100%	
Heavy Vehicles (%)	2%	0%	0%	0%	1%	2%	
Bus Blockages (#/hr)	0	0	0	0	0	0	
Parking (#/hr)							
Mid-Block Traffic (%)	0%			0%	0%		
Shared Lane Traffic (%)							
Lane Group Flow (vph)	287	17	2	174	123	92	
Turn Type	Prot	Prot	pm+pt	NA	NA	pm+ov	
Protected Phases	4	4	5	2	6	4	
Permitted Phases			2	-	-	6	
Detector Phase	4	4	5	2	6	4	
Switch Phase				(= 0			
Minimum Initial (s)	8.0	8.0	3.0	15.0	15.0	8.0	
Minimum Split (s)	14.0	14.0	6.5	21.0	21.0	14.0	
Total Split (s)	60.0	60.0	14.0	75.0	61.0	60.0	
Total Split (%)	44.4%	44.4%	10.4%	55.6%	45.2%	44.4%	
Yellow Time (s)	4.0	4.0	3.5	4.0	4.0	4.0	
All-Red Time (s)	2.0	2.0	0.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	6.0	6.0	3.5	6.0	6.0	6.0	
Lead/Lag			Lead		Lag		
Lead-Lag Optimize?	N.	NI	Yes	0.14	Yes	NI	
Recall Mode	None	None	None	C-Min	C-Min	None	
Act Effect Green (s)	17.9	17.9	107.6	105.1	103.3	132.0	
Actuated g/C Ratio	0.13	0.13	0.80	0.78	0.77	0.98	

PMNB 23-003 Downers Grove 12:48 pm 02/23/2023 No Build Evening Peak ANB

Synchro 11 Report Page 5

	٦	>	•	t	T	1	
	EDI		NDI		• ODT	CDD	
					0.04		
V/C Ratio	0.03	0.07	0.00	0.00	0.04	0.03	
Control Delay	01.4	19.8	3.5	3.8	2.0	0.0	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	
	01.4	19.8	3.5	3.8	2.0	0.0	
LUS Annua ch Dalau	E	В	A	A	A	A	
Approach Delay	59.1			3.8	1.1		
Approach LUS	E	0	0	A	A	0	
Queue Length 50th (ft)	124	0	0	15	4	0	
Queue Length 95th (ft)	105	23	2	29	11	0	
Internal LINK DISt (π)	4/6		405	505	210	445	
Turn Bay Length (π)	160	050	125	0057	0077	115	
Base Capacity (vpn)	1373	000	1029	2957	2877	2/8/	
Starvation Cap Reductn	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	
Reduced v/c Ratio	0.21	0.03	0.00	0.06	0.04	0.03	
Intersection Summary							
Area Type:	Other						
Cycle Length: 135							
Actuated Cycle Length: 13	35						
Offset: 0 (0%), Referenced	d to phase 2:I	NBTL and	6:SBT, 8	Start of G	reen		
Natural Cycle: 45							
Control Type: Actuated-Co	oordinated						
Maximum v/c Ratio: 0.63							
Intersection Signal Delay:	27.2			In	tersectior	LOS: C	
Intersection Capacity Utiliz	zation 29.9%			IC	U Level o	of Service	λ÷
Analysis Period (min) 15							

Splits and Phases: 3: Lacey Road & Woodcreek Drive

1 Ø2 (R) 🕊	* ₀₄
75 s	60 s
▲ Ø5 🔹 Ø6 (R)	
14s 61s	

	۲	t	ţ	¥J	۹	7
Lane Group	NBL	NBT	SBT	SBR	SEL	SER
Lane Configurations	**					##
	102	TT 567	831	37	57	328
Future Volume (vph)	102	567	821	37	57	320
I deal Flow (vphpl)	1000	2000	2000	1000	1000	J20 1000
Lane Width (ft)	1900	2000	2000	1900	1900	1900
	IZ	12	12	12	12	12
Glade (%)	205	0%	0%	400	0%	205
Storage Length (II)	305			400	0	205
Storage Lanes	2			1	1	1
Taper Length (ft)	230	0.05	0.05	4.00	0	0.00
Lane Util. Factor	0.97	0.95	0.95	1.00	1.00	0.88
Ped Bike Factor						
Frt				0.850		0.850
Flt Protected	0.950				0.950	
Satd. Flow (prot)	3433	3762	3762	1417	1770	2814
Flt Permitted	0.950				0.950	
Satd. Flow (perm)	3433	3762	3762	1417	1770	2814
Right Turn on Red				Yes		Yes
Satd. Flow (RTOR)				39		342
Link Speed (mph)		45	45		35	
Link Distance (ft)		681	1175		1160	
Travel Time (s)		10.3	17.8		22.6	
Confl Peds (#/hr)		10.0	17.0		22.0	
Confl Rikes (#/hr)						
Dook Hour Easter	0.06	0.06	0.06	0.06	0.06	0.06
Crowth Easter	10.90	1000/	1000/	10.90	1000/	1000/
	100%	100%	100%	100%	100%	100%
neavy venicies (%)	2%	1%	1%	14%	2%	1%
Bus Blockages (#/hr)	0	U	U	U	U	U
Parking (#/hr)						
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	106	591	866	39	59	342
Turn Type	Prot	NA	NA	pm+ov	Prot	Prot
Protected Phases	5	2	6	7	7	7
Permitted Phases				6		
Detector Phase	5	2	6	7	7	7
Switch Phase	J	-	J	,	,	,
Minimum Initial (s)	3.0	15.0	15.0	8.0	8.0	8.0
Minimum Split (s)	7.5	21.0	21.0	1/ 0	14.0	14.0
Total Split (s)	F2 0	21.0	21.0	14.U 25.0	14.0 25 0	14.0 25 0
Total Split (8)	10.40/	100.0	47.U	20.0%	20.00/	20.0
	42.4%	00.0%	37.0%	20.0%	20.0%	20.0%
Yellow I ime (s)	3.5	4.0	4.0	4.0	4.0	4.0
All-Red Lime (s)	1.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	6.0	6.0	6.0	6.0	6.0
Lead/Lag	Lead		Lag			
Lead-Lag Optimize?	Yes		Yes			
Recall Mode	None	C-Min	C-Min	None	None	None
Act Effct Green (s)	9.3	101.9	88.1	105.2	11.1	11.1
Actuated g/C Ratio	0.07	0.82	0.70	0.84	0.09	0.09

PMNB 23-003 Downers Grove 12:48 pm 02/23/2023 No Build Evening Peak ANB

Synchro 11 Report Page 7

Lanes, Volumes, Timings 4: Finley Road & Lacey Road

4: Finley Road & La	acey Ro	02/24/2023					
	٦	t	ţ	¥J	٠	7	
Lane Group	NBL	NBT	SBT	SBR	SEL	SER	
v/c Ratio	0.42	0.19	0.33	0.03	0.38	0.61	
Control Delay	59.8	2.9	7.9	0.6	59.6	10.2	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay	59.8	2.9	7.9	0.6	59.6	10.2	
LOS	E	А	А	А	E	В	
Approach Delay		11.5	7.6		17.5		
Approach LOS		В	А		В		
Queue Length 50th (ft)	42	42	124	0	46	0	
Queue Length 95th (ft)	71	69	190	5	88	48	
Internal Link Dist (ft)		601	1095		1080		
Turn Bay Length (ft)	305			400		205	
Base Capacity (vph)	1332	3066	2651	1285	269	717	
Starvation Cap Reductn	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	
Reduced v/c Ratio	0.08	0.19	0.33	0.03	0.22	0.48	
Intersection Summary							
Area Type:	Other						
Cycle Length: 125							
Actuated Cycle Length: 125							
Offset: 0 (0%), Referenced t	o phase 2:1	NBT and	6:SBT, St	art of Gre	en		
Natural Cycle: 45							
Control Type: Actuated-Coo	rdinated						
Maximum v/c Ratio: 0.61							
Intersection Signal Delay: 10).9			In	tersectior	ILOS: B	
Intersection Capacity Utilization	tion 45.6%			IC	U Level o	of Service	A
Analysis Period (min) 15							

Splits and Phases: 4: Finley Road & Lacey Road

f ø2 (R)	•	
100 s		
1 ar	ac (0)	¥*
5	V 06 (R)	▼ Ø7
53 s	47 s	25 s

ntersection	
ntersection Delay, s/veh	10.1
ntersection LOS	R

Movement	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations		đ î þ				4î b		٢	ţ,			
Traffic Vol, veh/h	16	100	4	0	2	97	180	51	121	18	0	0
Future Vol, veh/h	16	100	4	0	2	97	180	51	121	18	0	0
Peak Hour Factor	0.78	0.78	0.78	0.92	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Heavy Vehicles, %	0	0	0	2	0	0	0	0	0	0	0	0
Mvmt Flow	21	128	5	0	3	124	231	65	155	23	0	0
Number of Lanes	0	2	0	0	0	2	0	1	1	0	0	0
Approach	EB				WB			NB				
Opposing Approach	WB				EB							
Opposing Lanes	2				2			0				
Conflicting Approach Left					NB			EB				
Conflicting Lanes Left	0				2			2				
Conflicting Approach Right	NB							WB				
Conflicting Lanes Right	2				0			2				
HCM Control Delay	9.1				10.3			10.3				
HCM LOS	А				В			В				

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	
Vol Left, %	100%	0%	24%	0%	4%	0%	
Vol Thru, %	0%	87%	76%	93%	96%	21%	
Vol Right, %	0%	13%	0%	7%	0%	79%	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	51	139	66	54	51	229	
LT Vol	51	0	16	0	2	0	
Through Vol	0	121	50	50	49	49	
RT Vol	0	18	0	4	0	180	
Lane Flow Rate	65	178	85	69	65	293	
Geometry Grp	7	7	7	7	7	7	
Degree of Util (X)	0.112	0.277	0.133	0.105	0.097	0.391	
Departure Headway (Hd)	6.181	5.587	5.661	5.486	5.379	4.803	
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	
Сар	576	638	629	648	663	744	
Service Time	3.962	3.368	3.437	3.262	3.137	2.561	
HCM Lane V/C Ratio	0.113	0.279	0.135	0.106	0.098	0.394	
HCM Control Delay	9.8	10.5	9.3	8.9	8.7	10.6	
HCM Lane LOS	А	В	А	А	А	В	
HCM 95th-tile Q	0.4	1.1	0.5	0.4	0.3	1.9	

Page	167	of 203	
------	-----	--------	--

Intersection						
Int Delay, s/veh	1.3					
N 4			NDI	NDT	ODT	000
Novement	ERL	EBK	NBL	NRI	SBT	SBR
Lane Configurations	1	1	1	^	†]	
Traffic Vol, veh/h	14	46	2	292	95	1
Future Vol, veh/h	14	46	2	292	95	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	45	0	80	-	-	-
Veh in Median Storage,	# 1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	0	1	0
Mvmt Flow	16	52	2	332	108	1

Major/Minor	Minor2	Ν	Major1	Maj	or2				
Conflicting Flow All	279	55	109	0	-	0			
Stage 1	109	-	-	-	-	-			
Stage 2	170	-	-	-	-	-			
Critical Hdwy	6.8	6.9	4.1	-	-	-			
Critical Hdwy Stg 1	5.8	-	-	-	-	-			
Critical Hdwy Stg 2	5.8	-	-	-	-	-			
Follow-up Hdwy	3.5	3.3	2.2	-	-	-			
Pot Cap-1 Maneuver	693	1007	1494	-	-	-			
Stage 1	909	-	-	-	-	-			
Stage 2	849	-	-	-	-	-			
Platoon blocked, %				-	-	-			
Mov Cap-1 Maneuver	r 692	1007	1494	-	-	-			
Mov Cap-2 Maneuver	r 715	-	-	-	-	-			
Stage 1	908	-	-	-	-	-			
Stage 2	849	-	-	-	-	-			

Approach	EB	NB	SB	
HCM Control Delay, s	9.1	0.1	0	
HCM LOS	А			

Minor Lane/Major Mvmt	NBL	NBT I	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1494	-	715	1007	-	-
HCM Lane V/C Ratio	0.002	-	0.022	0.052	-	-
HCM Control Delay (s)	7.4	-	10.2	8.8	-	-
HCM Lane LOS	А	-	В	А	-	-
HCM 95th %tile Q(veh)	0	-	0.1	0.2	-	-

Intersection							
Int Delay, s/veh	4.2						
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	7	1	7	^	1		
Traffic Vol, veh/h	82	140	40	212	135	6	
Future Vol, veh/h	82	140	40	212	135	6	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-	None	-	None	
Storage Length	115	0	180	-	-	-	
Veh in Median Storage,	# 1	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	84	84	84	84	84	84	
Heavy Vehicles, %	0	0	0	0	1	0	
Mvmt Flow	98	167	48	252	161	7	

Major/Minor	Minor2	ľ	Major1	Maj	jor2	
Conflicting Flow All	387	84	168	0	-	0
Stage 1	165	-	-	-	-	-
Stage 2	222	-	-	-	-	-
Critical Hdwy	6.8	6.9	4.1	-	-	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	594	965	1422	-	-	-
Stage 1	853	-	-	-	-	-
Stage 2	800	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	r 574	965	1422	-	-	-
Mov Cap-2 Maneuver	r 632	-	-	-	-	-
Stage 1	824	-	-	-	-	-
Stage 2	800	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	10.3	1.2	0
HCM LOS	В		

Minor Lane/Major Mvmt	NBL	NBT E	BLn1 I	EBLn2	SBT	SBR
Capacity (veh/h)	1422	-	632	965	-	-
HCM Lane V/C Ratio	0.033	-	0.154	0.173	-	-
HCM Control Delay (s)	7.6	-	11.7	9.5	-	-
HCM Lane LOS	А	-	В	А	-	-
HCM 95th %tile Q(veh)	0.1	-	0.5	0.6	-	-

<u>Capacity Analysis Summary Sheets</u> Year 2029 Projected Weekday Morning Peak Hour Conditions

Lanes, Volumes, Timings 1: Woodcreek Drive/Lacey Road & Butterfield Road

	٨	-	7	4	+	*	1	Ť	1	4	ŧ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	***	11	ካካ	*†		ሻሻ	ţ,	1	7	ţ,	
Traffic Volume (vph)	53	1108	324	604	470	20	80	6	43	70	53	49
Future Volume (vph)	53	1108	324	604	470	20	80	6	43	70	53	49
Ideal Flow (vphpl)	1900	2000	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	265		465	0		0	118		0	120		0
Storage Lanes	1		2	2		0	2		1	1		0
Taper Length (ft)	85			25			45			85		
Lane Util. Factor	1.00	0.91	0.88	0.97	0.91	0.91	0.97	0.95	0.95	1.00	1.00	1.00
Ped Bike Factor												
Frt			0.850		0.994			0.886	0.850		0.928	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1805	5353	2814	3467	4857	0	3433	1466	1370	1787	1730	0
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1805	5353	2814	3467	4857	0	3433	1466	1370	1787	1730	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			377		7			22	183		31	*1
Link Speed (mph)		45			45			30			30	
Link Distance (ft)		2017			601			290			452	
Travel Time (s)		30.6			9.1			6.6			10.3	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	0%	2%	1%	1%	6%	10%	2%	0%	12%	1%	0%	4%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)									44%			
Lane Group Flow (vph)	62	1288	377	702	570	0	93	29	28	81	119	0
Turn Type	Prot	NA	Perm	Prot	NA		Prot	NA	Perm	Prot	NA	
Protected Phases	5	2		1	6		3	8		7	4	
Permitted Phases			2						8			
Detector Phase	5	2	2	1	6		3	8	8	7	4	
Switch Phase												
Minimum Initial (s)	3.0	15.0	15.0	3.0	15.0		3.0	8.0	8.0	3.0	8.0	
Minimum Split (s)	7.5	21.0	21.0	7.5	21.0		7.5	14.0	14.0	7.5	14.0	
Total Split (s)	22.5	57.5	57.5	30.0	65.0		14.0	17.5	17.5	20.0	23.5	
Total Split (%)	18.0%	46.0%	46.0%	24.0%	52.0%		11.2%	14.0%	14.0%	16.0%	18.8%	
Yellow Time (s)	3.5	4.0	4.0	3.5	4.0		3.5	4.0	4.0	3.5	4.0	
All-Red Time (s)	1.0	2.0	2.0	1.0	2.0		1.0	2.0	2.0	1.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	4.5	6.0	6.0	4.5	6.0		4.5	6.0	6.0	4.5	6.0	
Lead/Lag	Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	
Recall Mode	None	C-Min	C-Min	None	C-Min		None	None	None	None	None	
Act Effct Green (s)	9.7	53.7	53.7	29.1	75.3		8.4	12.4	12.4	11.0	12.7	
Actuated g/C Ratio	0.08	0.43	0.43	0.23	0.60		0.07	0.10	0.10	0.09	0.10	

AMPR 23-003 Downers Grove 12:48 pm 02/23/2023 Projected Morning Peak ANB

Synchro 11 Report . Page 1

Lanes, Volumes, Timings 1: Woodcreek Drive/Lacey Road & Butterfield Road

	٦	-	7	1	+	*	1	1	1	4	Ŧ	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.45	0.56	0.26	0.87	0.19		0.40	0.18	0.09	0.52	0.59	
Control Delay	64.3	28.3	2.7	71.3	10.7		55.4	13.8	3.4	65.4	50.5	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Total Delay	64.3	28.3	2.7	71.3	10.7		55.4	13.8	3.4	65.4	50.5	
LOS	Е	С	А	E	В		Е	В	А	E	D	
Approach Delay		24.0			44.1			37.6			56.5	
Approach LOS		С			D			D			E	
Queue Length 50th (ft)	49	291	0	311	57		37	0	0	64	69	
Queue Length 95th (ft)	89	319	26	#403	70		61	34	0	108	120	
Internal Link Dist (ft)		1937			521			210			372	
Turn Bay Length (ft)	265		465				118			120		
Base Capacity (vph)	259	2301	1424	808	2929		260	173	307	221	268	
Starvation Cap Reductn	0	0	0	0	0		0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0		0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0		0	0	0	0	0	
Reduced v/c Ratio	0.24	0.56	0.26	0.87	0.19		0.36	0.17	0.09	0.37	0.44	
Intersection Summary												
Area Type:	Other											
Cycle Length: 125												
Actuated Cycle Length: 125												
Offset: 0 (0%), Referenced	to phase 2:I	EBT and	6:WBT, S	tart of Gr	een							
Natural Cycle: 70												
Control Type: Actuated-Coc	ordinated											
Maximum v/c Ratio: 0.87												
Intersection Signal Delay: 3	4.2			In	tersectior	LOS: C						
Intersection Capacity Utiliza	tion 61.9%			IC	CU Level o	of Service	В					
Analysis Period (min) 15												
 * User Entered Value 												
# 95th percentile volume e	exceeds cap	bacity, qu	eue may	be longer								
Queue shown is maximu	ım after two	cycles.										
Splits and Phases: 1: Wo	odcreek Dri	ive/Lacev	Road & I	Butterfield	Road							

Ø1	🖉 🤝 🖉 2 (R)	↑ Ø3	Ø4
30 s	57.5 s	14 s	23.5 s
▶ Ø5	← Ø ♥ (R)	07	1 Ø8
22.5 s	65.5	20 s	17.5 s

Lanes, Volumes, Timings 2: Esplanade Road/Access Drive & Butterfield Road

Lane Group EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT SBR Lane Configurations 1 1411 1		٠	-	7	•	+	•	1	Ť	1	1	ŧ	~
Lane Configurations Image: Configuration of the image: Configuratine of the image: Configuration of the image: Configuration of th	Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Traffic Volume (vph) 34 1187 0 0 1048 75 0 0 78 89 0 46 Future Volume (vph) 34 1187 0 0 1048 75 0 0 78 89 0 46 Ideal Flow (vphpl) 1900 2000 19	Lane Configurations	٢	***			11111	1			11	ካካ		1
Future Volume (vph) 34 1187 0 0 1048 75 0 0 78 89 0 46 Ideal Flow (vphpl) 1900 2000 1900 100	Traffic Volume (vph)	34	1187	0	0	1048	75	0	0	78	89	0	46
Ideal Flow (vphpl) 1900 2000 1900 1	Future Volume (vph)	34	1187	0	0	1048	75	0	0	78	89	0	46
Lane Width (ft) 12 </td <td>Ideal Flow (vphpl)</td> <td>1900</td> <td>2000</td> <td>1900</td> <td>1900</td> <td>2000</td> <td>1900</td> <td>1900</td> <td>1900</td> <td>1900</td> <td>1900</td> <td>1900</td> <td>1900</td>	Ideal Flow (vphpl)	1900	2000	1900	1900	2000	1900	1900	1900	1900	1900	1900	1900
Grade (%) 0% 0% 0% 0% 0% Storage Length (ft) 230 0 60 175 0 0 0 100 Storage Lanes 1 0 2 1 0 2 2 1 Taper Length (ft) 210 300 25 25 25 25 25 25 25 25 25 26 1.00	Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Storage Length (ft) 230 0 60 175 0 0 0 100 Storage Lanes 1 0 2 1 0 2 2 1 Taper Length (ft) 210 300 25 25 25 25 25 25 26 26 1.00<	Grade (%)		0%			0%			0%			0%	
Storage Lanes 1 0 2 1 0 2 2 1 Taper Length (ft) 210 300 25 25 25 25 25 25 26 26 27 100 1.0	Storage Length (ft)	230		0	60		175	0		0	0		100
Taper Length (ft) 210 300 25 25 Lane Util. Factor 1.00 0.91 1.00 1.00 0.81 1.00 1.00 0.88 0.97 1.00 1.00 Ped Bike Factor 0.850 0.850 0.850 0.850 0.850 Frt 0.850 0.850 0.950 0.950 0.950 Satd. Flow (prot) 1805 5353 0 0 7941 1495 0 0 2682 3433 0 1583 Flt Permitted 0.950 0 0 2682 3433 0 1583 Satd. Flow (perm) 1805 5353 0 0 7941 1495 0 0 2682 3433 0 1583 Satd. Flow (perm) 1805 5353 0 0 7941 1495 0 0 2682 3433 0 1583 Right Turn on Red Yes Yes Yes Yes Yes Yes Yes	Storage Lanes	1		0	2		1	0		2	2		1
Lane Util. Factor 1.00 0.91 1.00 1.00 0.81 1.00 1.00 1.00 0.88 0.97 1.00 1.00 Ped Bike Factor Frt 0.850 0.850 0.850 0.850 Fit Protected 0.950 0 7941 1495 0 0 2682 3433 0 1583 Satd. Flow (prot) 1805 5353 0 0 7941 1495 0 0 2682 3433 0 1583 Satd. Flow (perm) 1805 5353 0 0 7941 1495 0 0 2682 3433 0 1583 Satd. Flow (perm) 1805 5353 0 0 7941 1495 0 0 2682 3433 0 1583 Right Turn on Red Yes Yes Yes Yes Yes Yes Yes Yes Yes	Taper Length (ft)	210			300			25			25		
Ped Bike Factor Frt 0.850 0.850 0.850 Fit Protected 0.950 0.950 0.950 Satd. Flow (prot) 1805 5353 0 0 7941 1495 0 0 2682 3433 0 1583 Flt Permitted 0.950 0 7941 1495 0 0 2682 3433 0 1583 Satd. Flow (perm) 1805 5353 0 0 7941 1495 0 0 2682 3433 0 1583 Right Turn on Red Yes Yes Yes Yes Yes Yes Yes	Lane Util. Factor	1.00	0.91	1.00	1.00	0.81	1.00	1.00	1.00	0.88	0.97	1.00	1.00
Frt 0.850 0.850 0.850 0.850 Flt Protected 0.950 0.950 0.950 0.950 Satd. Flow (prot) 1805 5353 0 0 7941 1495 0 0 2682 3433 0 1583 Flt Permitted 0.950 0 7941 1495 0 0 2682 3433 0 1583 Satd. Flow (perm) 1805 5353 0 0 7941 1495 0 0 2682 3433 0 1583 Right Turn on Red Yes Yes Yes Yes Yes Yes Yes Satd Flow (PTOP) 92 1497 92 1497 95	Ped Bike Factor												
Fit Protected 0.950 0.950 Satd. Flow (prot) 1805 5353 0 0 7941 1495 0 0 2682 3433 0 1583 Fit Permitted 0.950 0 7941 1495 0 0 2682 3433 0 1583 Satd. Flow (perm) 1805 5353 0 0 7941 1495 0 0 2682 3433 0 1583 Right Turn on Red Yes Yes Yes Yes Yes Yes Yes	Frt						0.850			0.850			0.850
Satd. Flow (prot) 1805 5353 0 0 7941 1495 0 0 2682 3433 0 1583 Flt Permitted 0.950 0 0 7941 1495 0 0 2682 3433 0 1583 Satd. Flow (perm) 1805 5353 0 0 7941 1495 0 0 2682 3433 0 1583 Right Turn on Red Yes Yes Yes Yes Yes Yes Yes Satd. Flow (PTOP) 92 187 0 0 2682 3433 0 1583	Flt Protected	0.950									0.950		
Fit Permitted 0.950 0.950 Satd. Flow (perm) 1805 5353 0 7941 1495 0 2682 3433 0 1583 Right Turn on Red Yes	Satd. Flow (prot)	1805	5353	0	0	7941	1495	0	0	2682	3433	0	1583
Satd. Flow (perm) 1805 5353 0 0 7941 1495 0 0 2682 3433 0 1583 Right Turn on Red Yes Yes </td <td>Flt Permitted</td> <td>0.950</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.950</td> <td></td> <td></td>	Flt Permitted	0.950									0.950		
Right Turn on Red Yes Yes Yes Yes Yes Yes	Satd, Flow (perm)	1805	5353	0	0	7941	1495	0	0	2682	3433	0	1583
	Right Turn on Red			Yes	-		Yes	-	-	Yes		-	Yes
	Satd, Flow (RTOR)						82			187			65
Link Speed (mph) 45 45 30 30	Link Speed (mph)		45			45			30			30	
Link Distance (ft) 601 1566 352 378	Link Distance (ft)		601			1566			352			378	
Travel Time (s) 9.1 23.7 8.0 8.6	Travel Time (s)		9.1			23.7			8.0			8.6	
Confl. Peds. (#/hr)	Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)	Confl. Bikes (#/hr)												
Peak Hour Factor 0.91 0.91 0.91 0.91 0.91 0.91 0.91 0.91	Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Growth Factor 100% 100% 100% 100% 100% 100% 100% 100	Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%) 0% 2% 0% 0% 2% 8% 0% 0% 6% 2% 0% 2%	Heavy Vehicles (%)	0%	2%	0%	0%	2%	8%	0%	0%	6%	2%	0%	2%
Bus Blockages (#/hr) 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)	Parking (#/hr)												-
Mid-Block Traffic (%) 0% 0% 0%	Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)	Shared Lane Traffic (%)												
Lane Group Flow (vph) 37 1304 0 0 1152 82 0 0 86 98 0 51	Lane Group Flow (vph)	37	1304	0	0	1152	82	0	0	86	98	0	51
Turn Type Prot NA NA custom Prot Prot custom	Turn Type	Prot	NA			NA	custom			Prot	Prot		custom
Protected Phases 5 2 6 7 8 8 7 7 8	Protected Phases	5	2			6	78			8	7		78
Permitted Phases 6 8 7	Permitted Phases						6			8	7		
Detector Phase 5 2 6 7 8 8 7 7 8	Detector Phase	5	2			6	78			8	7		78
Switch Phase	Switch Phase												
Minimum Initial (s) 3.0 15.0 15.0 8.0 8.0	Minimum Initial (s)	3.0	15.0			15.0				8.0	8.0		
Minimum Split (s) 7.5 21.0 21.0 14.0 14.0	Minimum Split (s)	7.5	21.0			21.0				14.0	14.0		
Total Split (s) 15.0 92.5 77.5 16.0 16.5	Total Split (s)	15.0	92.5			77.5				16.0	16.5		
Total Split (%) 12.0% 74.0% 62.0% 12.8% 13.2%	Total Split (%)	12.0%	74.0%			62.0%				12.8%	13.2%		
Yellow Time (s) 3.5 4.0 4.0 4.0 4.0	Yellow Time (s)	3.5	4.0			4.0				4.0	4.0		
All-Red Time (s) 1.0 2.0 2.0 2.0 2.0	All-Red Time (s)	1.0	2.0			2.0				2.0	2.0		
Lost Time Adjust (s) 0.0 0.0 0.0 0.0 0.0	Lost Time Adjust (s)	0.0	0.0			0.0				0.0	0.0		
Total Lost Time (s) 4.5 6.0 6.0 6.0 6.0	Total Lost Time (s)	4.5	6.0			6.0				6.0	6.0		
Lead/Lag Lead Lag Lead Lag	Lead/Lag	Lead	0.0			Lag				Lead	Lao		
Lead-Lag Optimize? Yes Yes Yes	Lead-Lag Optimize?	Yes				Yes				Yes	Yes		
Recall Mode None C-Min C-Min None None	Recall Mode	None	C-Min			C-Min				None	None		
Act Effct Green (s) 8.0 89.0 80.7 113.2 8.2 9.9 24.0	Act Effct Green (s)	8.0	89.0			80.7	113.2			8.2	9.9		24.0
Actuated g/C Ratio 0.06 0.71 0.65 0.91 0.07 0.08 0.19	Actuated g/C Ratio	0.06	0.71			0.65	0.91			0.07	0.08		0.19

AMPR 23-003 Downers Grove 12:48 pm 02/23/2023 Projected Morning Peak ANB

Synchro 11 Report . Page 3

Lanes, Volumes, Timings

2: Esplanade Road/Access Drive & Butterfield Road

	٠	-+	1	1	-	*	1	Ť	1	1	Ļ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.32	0.34			0.22	0.06			0.25	0.36		0.14
Control Delay	96.9	1.1			10.1	0.5			1.7	58.0		7.2
Queue Delay	0.0	0.0			0.0	0.0			0.0	0.0		0.0
Total Delay	96.9	1.1			10.1	0.5			1.7	58.0		7.2
LOS	F	А			В	А			А	Е		А
Approach Delay		3.8			9.5			1.7			40.6	
Approach LOS		А			А			А			D	
Queue Length 50th (ft)	32	4			98	0			0	39		0
Queue Length 95th (ft)	m59	10			127	7			0	67		25
Internal Link Dist (ft)		521			1486			272			298	
Turn Bay Length (ft)	230					175						100
Base Capacity (vph)	151	3809			5129	1298			386	297		317
Starvation Cap Reductn	0	0			0	0			0	0		0
Spillback Cap Reductn	0	0			0	0			0	0		0
Storage Cap Reductn	0	0			0	0			0	0		0
Reduced v/c Ratio	0.25	0.34			0.22	0.06			0.22	0.33		0.16
Intersection Summary												
Area Type:	Other											
Cycle Length: 125												
Actuated Cycle Length: 1	25											
Offset: 10 (8%), Reference	ed to phase 2	2:EBT and	6:WBT,	Start of G	ireen							
Natural Cycle: 60												
Operational Transition Applicational O	a a sulling a fing of											

Control Type: Actuated-Coordinated Maximum v/c Ratio: 0.36

Intersection Signal Delay: 8.2

Intersection Capacity Utilization 45.1%

Intersection LOS: A ICU Level of Service A

Analysis Period (min) 15

m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 2: Esplanade Road/Access Drive & Butterfield Road



3: Lacey Road & W	Voodcre	ek Dri	ve				02/24/2023
	۶	1	1	1	Ŧ	~	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	ካካ	1	7	^	**	11	
Traffic Volume (vph)	72	5	10	57	552	429	
Future Volume (vph)	72	5	10	57	552	429	
Ideal Flow (vphpl)	1900	1900	1900	2000	2000	1900	
Lane Width (ft)	12	12	12	12	12	12	
Grade (%)	0%			0%	0%		
Storage Length (ft)	160	0	125			115	
Storage Lanes	2	1	1			0	
Taper Length (ft)	100		90				
Lane Util. Factor	0.97	1.00	1.00	0.95	0.95	0.88	
Ped Bike Factor							
Frt		0.850				0.850	
Flt Protected	0.950		0.950				
Satd. Flow (prot)	3183	1346	1805	3725	3725	2814	
FIt Permitted	0.950		0.378				
Satd. Flow (perm)	3183	1346	718	3725	3725	2814	
Right Turn on Red		Yes				Yes	
Satd. Flow (RTOR)		6				523	
Link Speed (mph)	30			30	30		
Link Distance (ft)	556			645	290		
Travel Time (s)	12.6			14.7	6.6		
Confl. Peds. (#/hr)							
Confl. Bikes (#/hr)							
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82	
Growth Factor	100%	100%	100%	100%	100%	100%	
Heavy Vehicles (%)	10%	20%	0%	2%	2%	1%	
Bus Blockages (#/hr)	0	0	0	0	0	0	
Parking (#/hr)							
Mid-Block Traffic (%)	0%			0%	0%		
Shared Lane Traffic (%)							
Lane Group Flow (vph)	88	6	12	70	673	523	
Turn Type	Prot	Prot	pm+pt	NA	NA	pm+ov	
Protected Phases	4	4	5	2	6	4	
Permitted Phases			2	-	-	6	
Detector Phase	4	4	5	2	6	4	
Switch Phase				(= 0			
Minimum Initial (s)	8.0	8.0	3.0	15.0	15.0	8.0	
Minimum Split (s)	14.0	14.0	6.5	21.0	21.0	14.0	
Total Split (s)	34.0	34.0	12.0	91.0	79.0	34.0	
Total Split (%)	27.2%	27.2%	9.6%	72.8%	63.2%	27.2%	
Yellow Time (s)	4.0	4.0	3.5	4.0	4.0	4.0	
All-Red Time (s)	2.0	2.0	0.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	6.0	6.0	3.5	6.0	6.0	6.0	
Lead/Lag			Lead		Lag		
Lead-Lag Optimize?	N I	N	Yes	0.14	Yes	NI	
Recall Mode	None	None	None	C-Min	C-Min	None	
Act Effect Green (s)	11.1	11.1	104.4	101.9	98.2	118.9	
Actuated g/C Ratio	0.09	0.09	0.84	0.82	0.79	0.95	

AMPR 23-003 Downers Grove 12:48 pm 02/23/2023 Projected Morning Peak ANB

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							
	٠	7	1	<b>†</b>	Ŧ	-	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
v/c Ratio	0.31	0.05	0.02	0.02	0.23	0.19	
Control Delay	55.6	29.4	2.1	2.5	1.5	0.1	
Queue Delay	0.0	0.0	0.0	0.0	0.5	0.0	
Total Delay	55.6	29.4	2.1	2.5	1.9	0.1	
LOS	E	С	А	А	А	А	
Approach Delay	53.9			2.4	1.2		
Approach LOS	D			А	А		
Queue Length 50th (ft)	35	0	1	4	16	0	
Queue Length 95th (ft)	55	13	4	8	35	0	
Internal Link Dist (ft)	476			565	210		
Turn Bay Length (ft)	160		125			115	
Base Capacity (vph)	712	306	673	3036	2925	2808	
Starvation Cap Reductn	0	0	0	0	1695	498	
Spillback Cap Reductn	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	
Reduced v/c Ratio	0.12	0.02	0.02	0.02	0.55	0.23	
Intersection Summary							
Area Type:	Other						
Cycle Length: 125							
Actuated Cycle Length: 12	5						
Offset: 0 (0%), Referenced	l to phase 2:I	NBTL and	16:SBT, S	Start of G	reen		
Natural Cycle: 45							
Control Type: Actuated-Co	ordinated						
Maximum v/c Ratio: 0.31							
Intersection Signal Delay:	4.8			In	tersectior	n LOS: A	
Intersection Capacity Utiliz	ation 31.2%			IC	U Level o	of Service	εA
Analysis Period (min) 15							

Splits and Phases: 3: Lacey Road & Woodcreek Drive



AMPR 23-003 Downers Grove 12:48 pm 02/23/2023 Projected Morning Peak ANB

## Lanes, Volumes, Timings 4: Finley Road & Lacey Road

· · · · ·			3 <b>1</b> 3	2223			
	٦	Ť	ŧ	۶J	•	+	
Lane Group	NBL	NBT	SBT	SBR	SEL	SER	
v/c Ratio	0.79	0.27	0.22	0.12	0.14	0.43	
Control Delay	54.4	2.5	14.2	1.6	57.3	13.1	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay	54.4	2.5	14.2	1.6	57.3	13.1	
LOS	D	А	В	А	E	В	
Approach Delay		22.9	11.5		17.9		
Approach LOS		С	В		В		
Queue Length 50th (ft)	207	53	93	0	13	0	
Queue Length 95th (ft)	241	73	141	21	36	31	
Internal Link Dist (ft)		601	1095		1080		
Turn Bay Length (ft)	305			400		205	
Base Capacity (vph)	1132	2967	2154	1265	263	550	
Starvation Cap Reductn	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	
Reduced v/c Ratio	0.46	0.27	0.22	0.10	0.06	0.25	
Intersection Summary							
Area Type:	Other						
Cycle Length: 125							
Actuated Cycle Length: 12	25						
Offset: 0 (0%), Referenced	d to phase 2:	NBT and	6:SBT, St	art of Gre	en		
Natural Cycle: 55							
Control Type: Actuated-Co	oordinated						
Maximum v/c Ratio: 0.79							
Intersection Signal Delay:	19.2			In	tersectior	n LOS: B	
Intersection Capacity Utiliz	zation 46.0%			IC	U Level o	of Service	ЭA
Analysis Period (min) 15							

Splits and Phases: 4: Finley Road & Lacey Road

f ø2 (R)	•	
100 s		
1 ar	ac (0)	¥*
5	V 06 (R)	▼ Ø7
53 s	47 s	25 s

Intersection	
Intersection Delay, s/veh	10.4
Intersection LOS	В

Movement	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations		đ î þ				đ þ		٦	¢Î,			
Traffic Vol, veh/h	7	272	249	0	23	52	66	6	5	10	0	0
Future Vol, veh/h	7	272	249	0	23	52	66	6	5	10	0	0
Peak Hour Factor	0.87	0.87	0.87	0.92	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Heavy Vehicles, %	25	3	0	2	0	2	11	0	0	0	0	0
Mvmt Flow	8	313	286	0	26	60	76	7	6	11	0	0
Number of Lanes	0	2	0	0	0	2	0	1	1	0	0	0
Approach	EB				WB			NB				
Opposing Approach	WB				EB							
Opposing Lanes	2				2			0				
Conflicting Approach Left					NB			EB				
Conflicting Lanes Left	0				2			2				
Conflicting Approach Right	NB							WB				
Conflicting Lanes Right	2				0			2				
HCM Control Delay	11				8.2			8.8				
HCM LOS	В				А			А				

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	
Vol Left, %	100%	0%	5%	0%	47%	0%	
Vol Thru, %	0%	33%	95%	35%	53%	28%	
Vol Right, %	0%	67%	0%	65%	0%	72%	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	6	15	143	385	49	92	
LT Vol	6	0	7	0	23	0	
Through Vol	0	5	136	136	26	26	
RT Vol	0	10	0	249	0	66	
Lane Flow Rate	7	17	164	443	56	106	
Geometry Grp	7	7	7	7	7	7	
Degree of Util (X)	0.013	0.027	0.232	0.519	0.083	0.135	
Departure Headway (Hd)	6.599	5.624	5.072	4.22	5.295	4.589	
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	
Сар	545	639	700	845	680	785	
Service Time	4.311	3.337	2.856	2.003	3.002	2.296	
HCM Lane V/C Ratio	0.013	0.027	0.234	0.524	0.082	0.135	
HCM Control Delay	9.4	8.5	9.4	11.6	8.5	8	
HCM Lane LOS	А	А	А	В	А	А	
HCM 95th-tile Q	0	0.1	0.9	3.1	0.3	0.5	

Intersection						
Int Delay, s/veh	1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	ň	1	5	<b>^</b>	<b>≜</b> ∱	-
Traffic Vol, veh/h	3	3	50	143	259	16
Future Vol, veh/h	3	3	50	143	259	16
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	45	0	80	-	-	-
Veh in Median Storage	, # 1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	82	82	82	82	82	82
Heavy Vehicles, %	0	67	2	3	3	6
Mvmt Flow	4	4	61	174	316	20

		-			-	
Major/Minor	Minor2	Ν	Major1	Maj	or2	
Conflicting Flow All	535	168	336	0	-	0
Stage 1	326	-	-	-	-	-
Stage 2	209	-	-	-	-	-
Critical Hdwy	6.8	8.24	4.14	-	-	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.97	2.22	-	-	-
Pot Cap-1 Maneuver	480	676	1220	-	-	-
Stage 1	710	-	-	-	-	-
Stage 2	812	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuve	er 456	676	1220	-	-	-
Mov Cap-2 Maneuve	er 540	-	-	-	-	-
Stage 1	675	-	-	-	-	-
Stage 2	812	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	11.1	2.1	0
HCM LOS	В		

Minor Lane/Major Mvmt	NBL	NBT E	EBLn1	EBLn2	SBT	SBR	
Capacity (veh/h)	1220	-	540	676	-	-	
HCM Lane V/C Ratio	0.05	-	0.007	0.005	-	-	
HCM Control Delay (s)	8.1	-	11.7	10.4	-	-	
HCM Lane LOS	А	-	В	В	-	-	
HCM 95th %tile Q(veh)	0.2	-	0	0	-	-	

01/03/2024

Page 1	80	of	203
--------	----	----	-----

01/03/2024

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		1		<b>^</b>	<b>∱</b> }	
Traffic Vol, veh/h	0	16	0	193	250	12
Future Vol, veh/h	0	16	0	193	250	12
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,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	3	3	0
Mvmt Flow	0	17	0	203	263	13

Major/Minor	Minor2	М	ajor1	Ma	ajor2		
Conflicting Flow All	-	138	-	0	-	0	
Stage 1	-	-	-	-	-	-	
Stage 2	-	-	-	-	-	-	
Critical Hdwy	-	6.9	-	-	-	-	
Critical Hdwy Stg 1	-	-	-	-	-	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	
Follow-up Hdwy	-	3.3	-	-	-	-	
Pot Cap-1 Maneuver	0	891	0	-	-	-	
Stage 1	0	-	0	-	-	-	
Stage 2	0	-	0	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver	· -	891	-	-	-	-	
Mov Cap-2 Maneuver	· -	-	-	-	-	-	
Stage 1	-	-	-	-	-	-	
Stage 2	-	-	-	-	-	-	
Approach	EB		NB		SB		

Approach	EB	NB	SB	
HCM Control Delay, s	9.1	0	0	
HCM LOS	А			

Minor Lane/Major Mvmt	NBT EBLn1	SBT	SBR				
Capacity (veh/h)	- 891	-	-				
HCM Lane V/C Ratio	- 0.019	-	-				
HCM Control Delay (s)	- 9.1	-	-				
HCM Lane LOS	- A	-	-				
HCM 95th %tile Q(veh)	- 0.1	-	-				
Intersection							
------------------------	------	------	------	------	-------------	------	--
Int Delay, s/veh	5.4						
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	1	1	1	- 11	<b>∱</b> î,		
Traffic Vol, veh/h	65	49	267	128	186	80	
Future Vol, veh/h	65	49	267	128	186	80	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-	None	-	None	
Storage Length	115	0	180	-	-	-	
Veh in Median Storage,	# 1	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	84	84	84	84	84	84	
Heavy Vehicles, %	5	2	1	2	3	3	
Mvmt Flow	77	58	318	152	221	95	

Major/Minor	Minor2	Ν	/lajor1	Maj	or2		
Conflicting Flow All	981	158	316	0	-	0	
Stage 1	269	-	-	-	-	-	
Stage 2	712	-	-	-	-	-	
Critical Hdwy	6.9	6.94	4.12	-	-	-	
Critical Hdwy Stg 1	5.9	-	-	-	-	-	
Critical Hdwy Stg 2	5.9	-	-	-	-	-	
Follow-up Hdwy	3.55	3.32	2.21	-	-	-	
Pot Cap-1 Maneuver	241	859	1248	-	-	-	
Stage 1	743	-	-	-	-	-	
Stage 2	439	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuve	r 180	859	1248	-	-	-	
Mov Cap-2 Maneuve	r 304	-	-	-	-	-	
Stage 1	554	-	-	-	-	-	
Stage 2	439	-	-	-	-	-	

Approach	EB	NB	SB
HCM Control Delay, s	15.9	6	0
HCM LOS	С		

Minor Lane/Major Mvmt	NBL	NBT E	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1248	-	304	859	-	-
HCM Lane V/C Ratio	0.255	-	0.255	0.068	-	-
HCM Control Delay (s)	8.9	-	20.8	9.5	-	-
HCM Lane LOS	А	-	С	А	-	-
HCM 95th %tile Q(veh)	1	-	1	0.2	-	-

Intersection						
Int Delay, s/veh	1.1					
Movement	SEL	SET	NWT	NWR	SWL	SWR
Lane Configurations	- ሽ	<b>↑</b>	4		- ¥	
Traffic Vol, veh/h	5	64	345	4	23	18
Future Vol, veh/h	5	64	345	4	23	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	80	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	3	1	0	0	0
Mvmt Flow	5	67	363	4	24	19

Major/Minor	Major1		Major2	Ν	/linor2	
Conflicting Flow All	367	0	-	0	442	365
Stage 1	-	-	-	-	365	-
Stage 2	-	-	-	-	77	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1203	-	-	-	577	685
Stage 1	-	-	-	-	707	-
Stage 2	-	-	-	-	951	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1203	-	-	-	575	685
Mov Cap-2 Maneuver	-	-	-	-	575	-
Stage 1	-	-	-	-	704	-
Stage 2	-	-	-	-	951	-
Approach	SE		NW		SW	
HCM Control Delay, s	0.6		0		11.3	
HCM LOS					В	
Minor Lane/Major Mvr	nt	NWT	NWR	SEL	SETS	WLn1
Capacity (veh/h)		-	-	1203	-	619
HCM Lane V/C Ratio		-	-	0.004	-	0.07
HCM Control Delay (s	)	-	-	8	-	11.3
HCM Lane LOS		-	-	А	-	В
HCM 95th %tile Q(veh	ו)	-	-	0	-	0.2

Intersection						
Int Delay, s/veh	0.9					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	<u>۲</u>	<b>↑</b>	- î>		۰¥	
Traffic Vol, veh/h	1	86	342	5	28	7
Future Vol, veh/h	1	86	342	5	28	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	100	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	3	1	0	0	0
Mvmt Flow	1	91	360	5	29	7

Major/Minor	Major1	Ν	/lajor2	N	Ainor2	
Conflicting Flow All	365	0	-	0	456	363
Stage 1	-	-	-	-	363	-
Stage 2	-	-	-	-	93	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1205	-	-	-	566	686
Stage 1	-	-	-	-	708	-
Stage 2	-	-	-	-	936	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1205	-	-	-	565	686
Mov Cap-2 Maneuver	-	-	-	-	565	-
Stage 1	-	-	-	-	707	-
Stage 2	-	-	-	-	936	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		11.6	
HCM LOS					В	
Minor Lane/Major Mvi	nt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1205	-	-	-	586
HCM Lane V/C Ratio		0.001	-	-	-	0.063
HCM Control Delay (s	5)	8	-	-	-	11.6
HCM Lane LOS		А	-	-	-	В
HCM 95th %tile Q(vel	ר)	0	-	-	-	0.2

<u>Capacity Analysis Summary Sheets</u> Year 2029 Projected Weekday Evening Peak Hour Conditions

Lanes, Volumes, Timings 1: Woodcreek Drive/Lacey Road & Butterfield Road

	٠	-	7	4	+	*	1	Ť	1	4	ţ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	2	***	77	ኘኘ	<b>*†</b>		ኘሻ	ĥ	1	2	ħ	
Traffic Volume (vph)	29	880	85	148	1213	65	244	25	162	48	14	75
Future Volume (vph)	29	880	85	148	1213	65	244	25	162	48	14	75
Ideal Flow (vphpl)	1900	2000	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	265		465	0		0	118		0	120		0
Storage Lanes	1		2	2		0	2		1	1		0
Taper Length (ft)	85			25			45			85		
Lane Util. Factor	1.00	0.91	0.88	0.97	0.91	0.91	0.97	0.95	0.95	1.00	1.00	1.00
Ped Bike Factor												
Frt			0.850		0.992			0.889	0.850		0.874	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1805	4919	2760	3467	5097	0	3502	1593	1519	1805	1647	0
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1805	4919	2760	3467	5097	0	3502	1593	1519	1805	1647	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			170		9			73	133		78	*1
Link Speed (mph)		45			45			30			30	
Link Distance (ft)		2017			601			290			452	
Travel Time (s)		30.6			9.1			6.6			10.3	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	0%	11%	3%	1%	1%	0%	0%	0%	1%	0%	0%	1%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)									43%			
Lane Group Flow (vph)	30	917	89	154	1332	0	254	99	96	50	93	0
Turn Type	Prot	NA	Perm	Prot	NA		Prot	NA	Perm	Prot	NA	
Protected Phases	5	2		1	6		3	8		7	4	
Permitted Phases			2						8			
Detector Phase	5	2	2	1	6		3	8	8	7	4	
Switch Phase												
Minimum Initial (s)	3.0	15.0	15.0	3.0	15.0		3.0	8.0	8.0	3.0	8.0	
Minimum Split (s)	7.5	21.0	21.0	7.5	21.0		7.5	14.0	14.0	7.5	14.0	
Total Split (s)	13.5	59.0	59.0	32.5	78.0		25.5	30.0	30.0	13.5	18.0	
Total Split (%)	10.0%	43.7%	43.7%	24.1%	57.8%		18.9%	22.2%	22.2%	10.0%	13.3%	
Yellow Time (s)	3.5	4.0	4.0	3.5	4.0		3.5	4.0	4.0	3.5	4.0	
All-Red Time (s)	1.0	2.0	2.0	1.0	2.0		1.0	2.0	2.0	1.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	4.5	6.0	6.0	4.5	6.0		4.5	6.0	6.0	4.5	6.0	
Lead/Lag	Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	
Recall Mode	None	C-Min	C-Min	None	C-Min		None	None	None	None	None	
Act Effct Green (s)	7.6	78.2	78.2	11.4	86.1		15.1	18.4	18.4	8.1	9.4	
Actuated g/C Ratio	0.06	0.58	0.58	0.08	0.64		0.11	0.14	0.14	0.06	0.07	

PMPR 23-003 Downers Grove 12:48 pm 02/23/2023 Projected Evening Peak ANB

Lanes, Volumes, Timings <u>1: Woodcreek Drive/Lacey Road & Butterfield Road</u>

	٨	+	1	4	Ļ	•	1	Ť	1	*	ţ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.29	0.32	0.05	0.53	0.41		0.65	0.35	0.30	0.46	0.50	
Control Delay	67.9	15.9	0.1	98.7	3.5		46.4	25.4	19.4	75.1	26.3	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Total Delay	67.9	15.9	0.1	98.7	3.6		46.4	25.4	19.4	75.1	26.3	
LOS	Е	В	А	F	А		D	С	В	Е	С	
Approach Delay		16.1			13.4			36.0			43.4	
Approach LOS		В			В			D			D	
Queue Length 50th (ft)	26	142	0	74	56		119	40	33	43	13	
Queue Length 95th (ft)	59	211	0	101	311		163	90	85	87	68	
Internal Link Dist (ft)		1937			521			210			372	
Turn Bay Length (ft)	265		465				118			120		
Base Capacity (vph)	122	2849	1670	719	3254		544	343	379	120	219	
Starvation Cap Reductn	0	0	0	0	234		0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0		0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0		0	0	0	0	0	
Reduced v/c Ratio	0.25	0.32	0.05	0.21	0.44		0.47	0.29	0.25	0.42	0.42	
Intersection Summary												
Area Type:	Other											
Cycle Length: 135												
Actuated Cycle Length: 135												
Offset: 0 (0%), Referenced t	o phase 2:	EBT and	6:WBT, S	tart of Gr	een							
Natural Cycle: 60												
Control Type: Actuated-Coo	rdinated											
Maximum v/c Ratio: 0.65												
Intersection Signal Delay: 18	Intersection LOS: B											
Intersection Capacity Utilization 55.6% ICU Level of Service B												
Analysis Period (min) 15												

* User Entered Value

Splits and Phases: 1: Woodcreek Drive/Lacey Road & Butterfield Road

<b>√</b> Ø1		- <b>↓</b> Ø2 (R)	103	8		Ø4	10 T (10)
32.5 s		59 s	25.5 s			18 s	
▶ Ø5	←Ø6 (R)		Ø7		ØS		
13.5 s	78 s		13.5 s		30 s		

Lanes, Volumes, Timings 2: Esplanade Road/Access Drive & Butterfield Road

	۲	-	7	4	+	•	1	Ť	1	4	ŧ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	5	***			11111	1			11	ሻሻ		1
Traffic Volume (vph)	83	1007	0	0	1326	170	0	0	335	119	0	100
Future Volume (vph)	83	1007	0	0	1326	170	0	0	335	119	0	100
Ideal Flow (vphpl)	1900	2000	1900	1900	2000	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	230		0	60		175	0		0	0	- / -	100
Storage Lanes	1		0	2		1	0		2	2		1
Taper Length (ft)	210			300		•	25		_	25		
Lane Util Factor	1.00	0.91	1 00	1 00	0.81	1 00	1 00	1 00	0 88	0.97	1 00	1 00
Ped Bike Factor		0.01	1.00	1.00	0.01	1.00	1.00	1.00	0.00	0.01		
Frt						0 850			0 850			0 850
Flt Protected	0 950					0.000			0.000	0 950		0.000
Satd Flow (prot)	1805	5406	0	0	8020	1599	0	0	2814	3433	0	1615
Elt Permitted	0 950	0400	U	U	0020	1000	U	U	2014	0,050	0	1010
Satd Flow (perm)	1805	5406	٥	٥	8020	1500	0	٥	281/	3/133	٥	1615
Dight Turn on Ped	1005	0400	Vos	U	0020	Voc	U	U	Vos	0400	0	Vos
Satd Flow (PTOP)			163			175			270			103
Link Speed (mph)		45			45	175		30	210		30	105
Link Opeeu (mpn)		40			40			250			270	
		0.1			1000			0.0			0.6	
Confl Dode (#/br)		9.1			23.1			0.0			0.0	
Confl. Peus. (#/hr)												
Conii. Bikes (#/iii)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
	1000/	0.97	1000/	0.97	1000/	1000/	0.97	0.97	1000/	1000/	1000/	1000/
	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy venicles (%)	0%	1%	0%	0%	1%	1%	0%	0%	1%	2%	0%	0%
Bus Blockages (#/nr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/nr)		00/			00/			00/			00/	
		0%			0%			0%			0%	
Shared Lane Traffic (%)	00	4000	•	0	4007	475	0	•	0.45	400	^	400
Lane Group Flow (vph)	86	1038	0	0	1367	1/5	0	0	345	123	0	103
Turn Type	Prot	NA			NA	custom			Prot	Prot		custom
Protected Phases	5	2			6	78			8	/		78
Permitted Phases						6			8	7		
Detector Phase	5	2			6	78			8	7		78
Switch Phase												
Minimum Initial (s)	3.0	15.0			15.0				8.0	8.0		
Minimum Split (s)	7.5	21.0			21.0				14.0	14.0		
Total Split (s)	16.0	96.0			80.0				19.0	20.0		
Total Split (%)	11.9%	71.1%			59.3%				14.1%	14.8%		
Yellow Time (s)	3.5	4.0			4.0				4.0	4.0		
All-Red Time (s)	1.0	2.0			2.0				2.0	2.0		
Lost Time Adjust (s)	0.0	0.0			0.0				0.0	0.0		
Total Lost Time (s)	4.5	6.0			6.0				6.0	6.0		
Lead/Lag	Lead				Lag				Lead	Lag		
Lead-Lag Optimize?	Yes				Yes				Yes	Yes		
Recall Mode	None	C-Min			C-Min				None	None		
Act Effct Green (s)	10.7	95.2			79.9	113.8			10.7	11.2		27.8
Actuated g/C Ratio	0.08	0.71			0.59	0.84			0.08	0.08		0.21

PMPR 23-003 Downers Grove 12:48 pm 02/23/2023 Projected Evening Peak ANB

Synchro 11 Report . Page 3

# Lanes, Volumes, Timings

2: Esplanade Road/Access Drive & Butterfield Road

	٦	+	*	1	Ļ	*	1	Ť	1	1	ţ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.60	0.27			0.29	0.13			0.73	0.43		0.25
Control Delay	84.9	6.4			14.3	0.5			24.2	63.3		8.9
Queue Delay	0.0	0.0			0.0	0.0			0.0	0.0		0.0
Total Delay	84.9	6.4			14.3	0.5			24.2	63.3		8.9
LOS	F	А			В	А			С	Е		A
Approach Delay		12.4			12.7			24.2			38.5	
Approach LOS		В			В			С			D	
Queue Length 50th (ft)	79	88			143	0			35	53		0
Queue Length 95th (ft)	140	108			175	10			92	85		47
Internal Link Dist (ft)		521			1486			272			298	
Turn Bay Length (ft)	230					175						100
Base Capacity (vph)	158	3810			4749	1391			514	356		432
Starvation Cap Reductn	0	0			0	0			0	0		0
Spillback Cap Reductn	0	0			0	0			0	0		0
Storage Cap Reductn	0	0			0	0			0	0		0
Reduced v/c Ratio	0.54	0.27			0.29	0.13			0.67	0.35		0.24
Intersection Summary												
Area Type:	Other											
Cycle Length: 135												
Actuated Cycle Length: 13	5											
Offset: 104 (77%), Referen	nced to phase	e 2:EBT a	nd 6:WB	T, Start of	f Green							
Natural Cycle: 60												
Control Type: Actuated-Co	oordinated											

Maximum v/c Ratio: 0.73

Intersection Signal Delay: 15.6 Intersection Capacity Utilization 46.9% Analysis Period (min) 15 Intersection LOS: B ICU Level of Service A

Splits and Phases: 2: Esplanade Road/Access Drive & Butterfield Road



3: Lacey Road & W	Voodcre	ek Dri	ve				02/24/2023
	۶	7	1	1	ŧ	~	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	ሻሻ	1	7	<b>^</b>	<b>^</b>	11	
Traffic Volume (vph)	271	16	2	160	148	99	
Future Volume (vph)	271	16	2	160	148	99	
Ideal Flow (vphpl)	1900	1900	1900	2000	2000	1900	
Lane Width (ft)	12	12	12	12	12	12	
Grade (%)	0%			0%	0%		
Storage Length (ft)	160	0	125			115	
Storage Lanes	2	1	1			0	
Taper Length (ft)	100		90				
Lane Util. Factor	0.97	1.00	1.00	0.95	0.95	0.88	
Ped Bike Factor							
Frt		0.850				0.850	
Flt Protected	0.950		0.950				
Satd. Flow (prot)	3433	1615	1805	3800	3762	2787	
FIt Permitted	0.950		0.626				
Satd. Flow (perm)	3433	1615	1189	3800	3762	2787	
Right Turn on Red		Yes				Yes	
Satd. Flow (RTOR)		18				110	
Link Speed (mph)	30			30	30		
Link Distance (ft)	556			645	290		
Travel Time (s)	12.6			14.7	6.6		
Confl. Peds. (#/hr)							
Confl. Bikes (#/hr)							
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Growth Factor	100%	100%	100%	100%	100%	100%	
Heavy Vehicles (%)	2%	0%	0%	0%	1%	2%	
Bus Blockages (#/hr)	0	0	0	0	0	0	
Parking (#/hr)							
Mid-Block Traffic (%)	0%			0%	0%		
Shared Lane Traffic (%)							
Lane Group Flow (vph)	301	18	2	178	164	110	
Turn Type	Prot	Prot	pm+pt	NA	NA	pm+ov	
Protected Phases	4	4	5	2	6	4	
Permitted Phases			2	-	-	6	
Detector Phase	4	4	5	2	6	4	
Switch Phase				(= 0			
Minimum Initial (s)	8.0	8.0	3.0	15.0	15.0	8.0	
Minimum Split (s)	14.0	14.0	6.5	21.0	21.0	14.0	
Total Split (s)	60.0	60.0	14.0	75.0	61.0	60.0	
Total Split (%)	44.4%	44.4%	10.4%	55.6%	45.2%	44.4%	
Yellow Time (s)	4.0	4.0	3.5	4.0	4.0	4.0	
All-Red Time (s)	2.0	2.0	0.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	6.0	6.0	3.5	6.0	6.0	6.0	
Lead/Lag			Lead		Lag		
Lead-Lag Optimize?	N.	N	Yes	0.14	Yes	NI	
Recall Mode	None	None	None	C-Min	C-Min	None	
Act Effect Green (s)	18.5	18.5	107.0	104.5	102.7	132.0	
Actuated g/C Ratio	0.14	0.14	0.79	0.77	0.76	0.98	

PMPR 23-003 Downers Grove 12:48 pm 02/23/2023 Projected Evening Peak ANB

Synchro 11 Report Page 5

	٨	7	1	t	ŧ	~	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
v/c Ratio	0.64	0.08	0.00	0.06	0.06	0.04	
Control Delay	61.2	19.6	3.5	4.0	2.0	0.0	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay	61.2	19.6	3.5	4.0	2.0	0.0	
LOS	Е	В	А	А	А	А	
Approach Delay	58.8			4.0	1.2		
Approach LOS	E			А	А		
Queue Length 50th (ft)	130	0	0	16	6	0	
Queue Length 95th (ft)	171	23	3	30	14	0	
Internal Link Dist (ft)	476			565	210		
Turn Bay Length (ft)	160		125			115	
Base Capacity (vph)	1373	656	990	2942	2861	2787	
Starvation Cap Reductn	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	
Reduced v/c Ratio	0.22	0.03	0.00	0.06	0.06	0.04	
Intersection Summary							
Area Type:	Other						
Cycle Length: 135							
Actuated Cycle Length: 13	35						
Offset: 0 (0%), Referenced	d to phase 2:1	NBTL and	16:SBT, 8	Start of G	reen		
Natural Cycle: 45							
Control Type: Actuated-Co	oordinated						
Maximum v/c Ratio: 0.64							
Intersection Signal Delay:	25.6			In	tersectior	LOS: C	
Intersection Capacity Utiliz	zation 30.2%			IC	CU Level o	of Service	А
Analysis Period (min) 15							

Splits and Phases: 3: Lacey Road & Woodcreek Drive

1 Ø2 (R) 🕊	<b>V</b> ₀₄
75 s	60 s
▲ Ø5 🗰 Ø6 (R)	
14s 61s	

02/24/2023

	٦	t	ţ	N	٩	7
Lane Group	NBL	NBT	SBT	SBR	SEL	SER
Lane Configurations	**					11
	116	567	831	41	50	227
Future Volume (vph)	116	567	821	41	50	227
Ideal Flow (vphpl)	1000	2000	2000	41	1000	1000
Lano Width (ft)	1900	2000	2000	1900	1900	1900
	١Z	12	12	12	12	12
Glade (%)	205	0%	0%	400	0%	205
Storage Length (It)	305			400	0	205
Storage Lanes	2			1	1	1
Taper Length (ft)	230				0	
Lane Util. Factor	0.97	0.95	0.95	1.00	1.00	0.88
Ped Bike Factor						
Frt				0.850		0.850
Flt Protected	0.950				0.950	
Satd. Flow (prot)	3433	3762	3762	1417	1770	2814
Flt Permitted	0.950				0.950	
Satd. Flow (perm)	3433	3762	3762	1417	1770	2814
Right Turn on Red				Yes		Yes
Satd, Flow (RTOR)				43		351
Link Sneed (mph)		45	45		35	001
Link Distance (ff)		681	1175		1160	
		10.2	17.9		22 6	
Confl Dode (#/br)		10.5	17.0		22.0	
Confl. Bikes (#/hr)						
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	1%	1%	14%	2%	1%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	121	591	866	43	61	351
Turn Type	Prot	NA	NA	pm+ov	Prot	Prot
Protected Phases	5	2	6	7	7	7
Permitted Phases	J	2	0	6	1	1
Detector Phase	E	0	6	7	7	7
Delector Pridse	5	Z	Ö	1	1	1
		45.0	45.0	0.0	0.0	0.0
Minimum Initial (s)	3.0	15.0	15.0	8.0	8.0	8.0
Minimum Split (s)	7.5	21.0	21.0	14.0	14.0	14.0
Total Split (s)	53.0	100.0	47.0	25.0	25.0	25.0
Total Split (%)	42.4%	80.0%	37.6%	20.0%	20.0%	20.0%
Yellow Time (s)	3.5	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	1.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	6.0	6.0	6.0	6.0	6.0
Lead/Lag	Lead	0.0	lag		0.0	0.0
Lead-Lag Ontimize?	Yes		Yes			
Recall Mode	None	C-Min	C-Min	None	None	None
Act Effet Groop (a)		101 0		104.7	11.0	11.0
Actuated a/C Datia	9.0	0.04	07.0	104.7	0.00	0.00
Actuated g/C Ratio	0.08	0.81	0.70	0.84	0.09	0.09

PMPR 23-003 Downers Grove 12:48 pm 02/23/2023 Projected Evening Peak ANB

02/24/2023

## Lanes, Volumes, Timings 4: Finley Road & Lacey Road

4: Finley Road & La	acey Ro	ad					02/24/2023
	٦	t	ţ	¥J	٠	7	
Lane Group	NBL	NBT	SBT	SBR	SEL	SER	
v/c Ratio	0.45	0.19	0.33	0.04	0.39	0.61	
Control Delay	59.9	2.9	8.2	0.7	59.8	10.2	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay	59.9	2.9	8.2	0.7	59.8	10.2	
LOS	E	А	А	А	E	В	
Approach Delay		12.6	7.8		17.5		
Approach LOS		В	А		В		
Queue Length 50th (ft)	48	42	126	0	48	0	
Queue Length 95th (ft)	79	70	194	6	90	48	
Internal Link Dist (ft)		601	1095		1080		
Turn Bay Length (ft)	305			400		205	
Base Capacity (vph)	1332	3063	2632	1279	269	725	
Starvation Cap Reductn	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	
Reduced v/c Ratio	0.09	0.19	0.33	0.03	0.23	0.48	
Intersection Summary							
Area Type:	Other						
Cycle Length: 125							
Actuated Cycle Length: 125							
Offset: 0 (0%), Referenced t	o phase 2:1	NBT and	6:SBT, St	art of Gre	en		
Natural Cycle: 45							
Control Type: Actuated-Coo	rdinated						
Maximum v/c Ratio: 0.61							
Intersection Signal Delay: 1	1.5			In	tersectior	n LOS: B	
Intersection Capacity Utilization	tion 45.6%			IC	U Level o	of Service	A
Analysis Period (min) 15							

Splits and Phases: 4: Finley Road & Lacey Road

f ø2 (R)	•	
100 s		
1 ar	ac (0)	¥*
5	V 06 (R)	▼ Ø7
53 s	47 s	25 s

ntersection	
ntersection Delay, s/veh	10.5
ntersection LOS	В

Movement	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations		4î þ				4î b		٦	¢Î,			
Traffic Vol, veh/h	16	137	4	0	2	100	198	51	121	18	0	0
Future Vol, veh/h	16	137	4	0	2	100	198	51	121	18	0	0
Peak Hour Factor	0.78	0.78	0.78	0.92	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Heavy Vehicles, %	0	0	0	2	0	0	0	0	0	0	0	0
Mvmt Flow	21	176	5	0	3	128	254	65	155	23	0	0
Number of Lanes	0	2	0	0	0	2	0	1	1	0	0	0
Approach	EB				WB			NB				
Opposing Approach	WB				EB							
Opposing Lanes	2				2			0				
Conflicting Approach Left					NB			EB				
Conflicting Lanes Left	0				2			2				
Conflicting Approach Right	NB							WB				
Conflicting Lanes Right	2				0			2				
HCM Control Delay	9.5				10.9			10.7				
HCM LOS	А				В			В				

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	
Vol Left, %	100%	0%	19%	0%	4%	0%	
Vol Thru, %	0%	87%	81%	94%	96%	20%	
Vol Right, %	0%	13%	0%	6%	0%	80%	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	51	139	85	73	52	248	
LT Vol	51	0	16	0	2	0	
Through Vol	0	121	69	69	50	50	
RT Vol	0	18	0	4	0	198	
Lane Flow Rate	65	178	108	93	67	318	
Geometry Grp	7	7	7	7	7	7	
Degree of Util (X)	0.117	0.289	0.174	0.146	0.101	0.429	
Departure Headway (Hd)	6.442	5.847	5.778	5.643	5.445	4.862	
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	
Сар	559	618	625	639	651	731	
Service Time	4.15	3.555	3.478	3.343	3.234	2.651	
HCM Lane V/C Ratio	0.116	0.288	0.173	0.146	0.103	0.435	
HCM Control Delay	10	10.9	9.7	9.3	8.9	11.3	
HCM Lane LOS	А	В	А	А	А	В	
HCM 95th-tile Q	0.4	1.2	0.6	0.5	0.3	2.2	

Intersection						
Int Delay, s/veh	1.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	ኘ	1	<u> </u>	<b>^</b>	<b>≜</b> î≽	
Traffic Vol, veh/h	14	46	2	313	132	1
Future Vol, veh/h	14	46	2	313	132	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	45	0	80	-	-	-

Major/Minor	Minor2	ľ	Major1	Ma	or2		
Conflicting Flow All	333	76	151	0	-	0	
Stage 1	151	-	-	-	-	-	
Stage 2	182	-	-	-	-	-	
Critical Hdwy	6.8	6.9	4.1	-	-	-	
Critical Hdwy Stg 1	5.8	-	-	-	-	-	
Critical Hdwy Stg 2	5.8	-	-	-	-	-	
Follow-up Hdwy	3.5	3.3	2.2	-	-	-	
Pot Cap-1 Maneuver	642	976	1442	-	-	-	
Stage 1	867	-	-	-	-	-	
Stage 2	837	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver	r 641	976	1442	-	-	-	
Mov Cap-2 Maneuver	r 681	-	-	-	-	-	
Stage 1	866	-	-	-	-	-	
Stage 2	837	-	-	-	-	-	

Approach	EB	NB	SB
HCM Control Delay, s	9.3	0	0
HCM LOS	А		

Minor Lane/Major Mvmt	NBL	NBT EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1442	- 681	976	-	-
HCM Lane V/C Ratio	0.002	- 0.023	0.054	-	-
HCM Control Delay (s)	7.5	- 10.4	8.9	-	-
HCM Lane LOS	А	- B	А	-	-
HCM 95th %tile Q(veh)	0	- 0.1	0.2	-	-

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		1		<b>†</b> †	<b>≜</b> †₽	
Traffic Vol, veh/h	0	8	0	315	148	30
Future Vol, veh/h	0	8	0	315	148	30
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,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	1	0
Mvmt Flow	0	8	0	332	156	32

Major/Minor	Minor2	M	lajor1	Ма	ijor2	
Conflicting Flow All	-	94	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	951	0	-	-	-
Stage 1	0	-	0	-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	r -	951	-	-	-	-
Mov Cap-2 Maneuver	r -	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Annasah	ED		ND		CD	

Approach	EB	NB	SB	
HCM Control Delay, s	8.8	0	0	
HCM LOS	А			

Minor Lane/Major Mvmt	NBT EBLn1	SBT	SBR
Capacity (veh/h)	- 951	-	-
HCM Lane V/C Ratio	- 0.009	-	-
HCM Control Delay (s)	- 8.8	-	-
HCM Lane LOS	- A	-	-
HCM 95th %tile Q(veh)	- 0	-	-

Intersection						
Int Delay, s/veh	4.7					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	ľ	1	<u>ار</u>	<b>^</b>	<b>∱î</b> ≽	
Traffic Vol, veh/h	103	143	58	212	143	13
Future Vol, veh/h	103	143	58	212	143	13
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	115	0	180	-	-	-
Veh in Median Storage	, # 1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	84	84	84	84	84	84
Heavy Vehicles, %	0	0	0	0	1	0
Mvmt Flow	123	170	69	252	170	15

Major/Minor	Minor2	N	Najor1	Majo	or2		
Conflicting Flow All	442	93	185	0	-	0	
Stage 1	178	-	-	-	-	-	
Stage 2	264	-	-	-	-	-	
Critical Hdwy	6.8	6.9	4.1	-	-	-	
Critical Hdwy Stg 1	5.8	-	-	-	-	-	
Critical Hdwy Stg 2	5.8	-	-	-	-	-	
Follow-up Hdwy	3.5	3.3	2.2	-	-	-	
Pot Cap-1 Maneuver	549	952	1402	-	-	-	
Stage 1	841	-	-	-	-	-	
Stage 2	762	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuve	r 522	952	1402	-	-	-	
Mov Cap-2 Maneuve	r 594	-	-	-	-	-	
Stage 1	800	-	-	-	-	-	
Stage 2	762	-	-	-	-	-	

Approach	EB	NB	SB
HCM Control Delay, s	10.9	1.7	0
HCMLOS	В		

Minor Lane/Major Mvmt	NBL	NBT EBI	.n1 El	BLn2	SBT	SBR
Capacity (veh/h)	1402	- [	594	952	-	-
HCM Lane V/C Ratio	0.049	- 0.2	206 (	).179	-	-
HCM Control Delay (s)	7.7	- 1	2.6	9.6	-	-
HCM Lane LOS	А	-	В	A	-	-
HCM 95th %tile Q(veh)	0.2	-	0.8	0.6	-	-

Intersection						
Int Delay, s/veh	0.9					
Maxamant	СГІ	CLT			C///I	CMD
wovement	SEL	SET	INVVI	INVVR	SVVL	SWK
Lane Configurations	<u>۲</u>	- <b>†</b>	- îs		۰¥	
Traffic Vol, veh/h	13	225	50	11	11	9
Future Vol, veh/h	13	225	50	11	11	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	80	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	14	237	53	12	12	9

Major/Minor	Major1	I	Major2	Ν	/linor2	
Conflicting Flow All	65	0	-	0	324	59
Stage 1	-	-	-	-	59	-
Stage 2	-	-	-	-	265	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1550	-	-	-	674	1012
Stage 1	-	-	-	-	969	-
Stage 2	-	-	-	-	784	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1550	-	-	-	668	1012
Mov Cap-2 Maneuver	· -	-	-	-	668	-
Stage 1	-	-	-	-	960	-
Stage 2	-	-	-	-	784	-
Approach	SE		NW		SW	
HCM Control Delay, s	0.4		0		9.7	
HCM LOS					А	
Minor Lane/Major Mvi	nt	NWT	NWR	SEL	SETS	WLn1
Capacity (veh/h)		-	-	1550	-	789
HCM Lane V/C Ratio		-	-	0.009	-	0.027
HCM Control Delay (s	5)	-	-	7.3	-	9.7
HCM Lane LOS		-	-	А	-	А
HCM 95th %tile Q(vel	h)	-	-	0	-	0.1

ntersection						
Int Delay, s/veh	0.6					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	ľ	•	4		Y	
Traffic Vol, veh/h	3	233	57	14	13	4
Future Vol, veh/h	3	233	57	14	13	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	100	-	-	-	0	-
Veh in Median Storage	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	3	245	60	15	14	4

Major/Minor	Major1	Ν	/lajor2	1	Minor2	
Conflicting Flow All	75	0	-	0	319	68
Stage 1	-	-	-	-	68	-
Stage 2	-	-	-	-	251	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1537	-	-	-	678	1001
Stage 1	-	-	-	-	960	-
Stage 2	-	-	-	-	795	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1537	-	-	-	677	1001
Mov Cap-2 Maneuver		-	-	-	677	-
Stage 1	-	-	-	-	958	-
Stage 2	-	-	-	-	795	-
Approach	EB		WB		SB	
HCM Control Delay, s	5 0.1		0		10	
HCM LOS					В	
Minor Lane/Major Myr	mt	FBI	FBT	WBT	WBR	SBI n1
Canacity (veh/h)		1537		1101		722
HCM Lang V/C Patio		0.002	-	-	-	0 0 2/
HCM Control Dolay (c	•)	0.002	-	-	-	10
HCM Lane LOS	>)	7.S A	_	_	_	R
ICIVI LAHE LUS		A	-	-	-	D

0

HCM 95th %tile Q(veh)

0.1

### VILLAGE OF DOWNERS GROVE PLAN COMMISSION MEETING

January 22, 2024, 7:00 P.M.

23-PCE-0009: A petition seeking a Final Plat of Subdivision and an Amendment to Planned Development #31 to construct a new multi-family residential development. The property is currently zoned O-R-M/P.D. #31, Office, Research, and Manufacturing and Planned Development #31. The property is generally located west of Lacey Road starting approximately 1,100 feet north of the intersection of Lacey Road and Finley Road and extending north to Butterfield Road and West of Woodcreek Drive, commonly known as the Esplanade at Locust Point, Downers Grove, IL (PINs: 05-25-413-009, 05-25-415-009, 05-25-415-010, 05-36-200-009, -011, 05-36-202-008, -015, -016, -017, 05-36-400-017, 06-30-301-007, 06-30-304-002, -003, 06-30-305-003, 06-31-100-019, -020, -021, -022, -023, -025, -027, -028, -029, 06-31-103-001, -002, -005, -006, -007). M&R Development, L.L.C., Petitioner and Various Owners

Terry Smith, land planner and landscape architect for the project, introduced the team members and explained the subject property occupied a nine-acre tract on the northwest corner of Lacey Drive and Woodcreek Drive. He gave some of the background and context of the site. He discussed the original approval process and stated they are asking the Plan Commission for approval to an amendment to the PUD to construct the multifamily residential development. Mr. Smith stated they were asking for four major things, such as an amendment to PD #31 to allow for construction of the proposed development, deviation of a parking requirement to allow 1.65 parking spaces per unit, a master signage plan amendment and approval for a plat of subdivision. He then explained the property and what they were proposing, which are three four-story L-shaped multifamily buildings, a club building, 65 space garage level and bicycle parking. He explained there was 195 garage spaces, 295 surface spaces, for a total of 490. The site is 9.2 acres and units comprised of 23% studio, 49% one bedroom, and 28% two bedroom.

Mr. Smith then further discussed the club amenities, which will have traditional features of a club, including pool, grilling area, clubroom, game room, leasing, fitness room at 8,000 square feet. Mr. Smith expressed they wanted to stay in context with the architecture that already exists and wanted to repeat some of the architectural features with the development. He described the buildings as contemporary flat roof facades. He expressed a lot of work went into the stormwater aspect, but they complied with both County and Village regulations. He discussed landscape architecture was an important part of their site. He stated the landscape plan was code compliant and the landscape mostly comprised of a combination of shade trees and foundation plantings to compliment the building architecture. Mr. Smith also discussed the signage package and the various signs included.

Commissioner Boyle asked if the parking coinciding the bedrooms would be in reference to a community a little bit further away. Mr. Smith, said they understood a suburban community would not have the ability of public transportation, but based on the number of bedrooms in the apartments they have sufficient parking, that was also similar to other developments they have recently constructed.

Commissioners Boyle followed up and asked if the spaces were first come first serve. Mr. Smith stated the spots in the garage would be assigned. Commissioner Boyle then asked if there was a plan B if they had residents calling and to say there was not enough parking. Iris Olson, with M&R Development, stated the last few developments they've built were with the 1.65 and they've had zero parking issues.

Commissioner Boyle asked if there would be any concern with people getting in and out in the morning and evening. Mr. Aboona explained they completed a traffic study and it showed the development would not have a negative effect. He also added they had done similar projects over the years with 1.65 and it was a common ratio.

Commissioner Boyle asked how many trees were already there and how many would be going back in there. Mr. Smith said he did not think they did an actual tree survey, but when they realized there was low quality vegetation that they were removing and their plan would be code compliant. Commissioner Boyle asked if there was any protected land. Mr. Smith answered there were no wetlands or restrictions on the property.

Chairman Rickard opened it up to the public for comment.

Scott Richards, resident, said he did not have a problem with the development, but wondered why developers were always wanting to come in and cut down the amount of parking spaces on the projects, and asked if that was really necessary. He said when he first saw the drawings and pictures of the building it looked like a typical family hotel along the expressway and that area had some beautiful buildings, so he would like to see something that looked a little more expensive to blend in.

Diana Olson asked how many traffic lights or traffic stops signs along Lacey they would be installing and said that should be addressed. Chairman Rickard stated they would take questions now and have them address those when they come back up.

Chairman Rickard asked for the staff report.

Flora Leon, Senior Planner, explained the petition was a request for a planned unit development amendment along with a request for a subdivision. She displayed the location map, which show that the location of the project would be at the northwest intersection of Lacey Road and Woodcreek Drive. She said the existing zoning is ORM and all notice requirements were met, along with newspaper notices and mail to all resident within 250 feet. She said staff received correspondence from the DuPage County Forest Preserve, that was provided on the dias and they had no issues with the development. Staff also received one inquiry about the nature of the development.

Ms. Leon then included the history of the development. She explained Lot 2 would remain vacant and there was a plan for an office building and parking, but the proposal would be required to appear in front of the Plan Commission and Village Council for final site plan approval. Ms. Leon noted all the standards of approval had been met and additional utility and drainage easements would be provided for both lots. She then discussed the site plan, including 297 units, clubhouse and amenities, surface parking and interior parking, circulation with two full movement access points and turn lanes, drainage plan, elevations, and signage plan. Lastly, she provided an overview of how the

development met the goals of the Comprehensive Plan and the planned unit development criteria. She stated that staff did find the PUD criteria and subdivision criteria were met.

Chairman Rickard asked to share where the design guidelines were applicable and if they were only applicable in certain plan areas or zoning districts or Village wide. Ms. Leon stated the downtown design guidelines are applicable only to the downtown zoning districts, so it would not apply to this development.

Chairman Rickard asked if it was accurate that staff felt the parking quantity ratio was adequate. Ms. Leon answered yes, they do comply with the findings of the traffic study prepared by the applicant.

Commissioner Dmytryszyn asked if they had any citizen complaints for any projects about the parking spaces. Mr. Zawila said he could not think of any complaints they had received for any development downtown.

Commissioner Frankovic said the only concerns she had was with parking but they answered a lot of the concerns.

Commissioner Boyle asked about the traffic signalization asked by the public. Chairman Rickman asked them to address the question about traffic signalization. Mr. Aboona stated everything there already would remain. Commissioner Boyle asked if that was reviewed and agreed to as a recommendation by the Downers Grove Traffic Department. Mr. Aboona answered that was correct.

Commissioner Toth said he felt the standards were met and there was an opportunity to put BMPs throughout the parking lots and this would be a good opportunity to take advantage of.

Chairman Rickard stated he did not have issues with the parking and seemed like a huge trend to have reduction in parking. He said he also did not see any issues with the project and believed the standards had been met for both requests.

Commissioner Roche added that the bulk of the units would be studio and one bedroom which would likely correlate with a one car need, so it made sense to use beds versus a square footage requirement.

BASED ON THE PETITIONER'S SUBMITTAL, THE STAFF REPORT, AND THE TESTIMONY PRESENTED, COMMISSIONER DMYTRYSZYN MADE A MOTION THAT FOUND THAT THE PETITIONER HAS MET THE STANDARDS OF APPROVAL FOR A FINAL PLAT OF SUBDIVISION IN PLANNED UNIT DEVELOPMENT #31 AMENDMENT AS REQURIED BY THE VILLAGE OF DOWNERS GROVE ZONING ORDINANCE AND IS IN THE PUBLIC INTEREST AND THEREFORE THAT THE PLAN COMMISSION RECOMMEND TO THE VILLAGE COUNCIL APPROVAL OF 23-PCE-0009, SUBJECT TO CONDITIONS 1-5 LISTED ON PAGE 8 OF STAFF REPORT.

#### SECOND BY COMMISSIONER FRANKOVIC

**ROLL CALL:** 

# AYE: DMYTRYSZYN, FRANKOVIC, K. PATEL, TOTH, ROCHE, BOYLE, CHAIRMAN RICKARD

NAY: NONE

### **MOTION APPROVED. VOTE: 7-0**

/s/ Celeste K. Weilandt Recording Secretary

(As transcribed by Ditto Transcripts)



3S580 Naperville Road P.O. Box 5000 Wheaton, IL 60189 630.933.7200 Fax 630.933.7204 TTY 800.526.0857

dupageforest.org

Via e-mail: fleon@downers.us

January 22, 2024

Don Rickard, Chairman Plan Commission Village of Downers Grove 801 Burlington Ave. Downers Grove, IL 60515-4782

Re: Public Hearing - File Number 23-PCE-0009 Esplanade at Locust Point, Downers Grove

Dear Mr. Rickard,

The Forest Preserve District of DuPage County recently received a Notice of Public Hearing regarding a petition seeking a Final Plat of Subdivision and an Amendment to PUD #31 to construct a new multi-family residential development located south of the intersection of Lacey Road and Butterfield Road. We appreciate receiving timely notification of such requests that may have an impact on Forest Preserve District property and thank you for the opportunity to comment.

Forest Preserve District staff have reviewed the information provided by the Village and we do not have any comments at this time. Please call me at (630) 933-7235 if you have any questions.

Sincerely,

Kevin Stough Land Preservation Manager

cc: Jessica Ortega, Strategic Plan and Initiatives Manager