VILLAGE OF DOWNERS GROVE Report for the Village 10/11/2022

SUBJECT:	SUBMITTED BY:		
7251 and 7261 Lemont Road Planned Unit Development	Stan Popovich, AICP		
Amendment	Community Development Director		

SYNOPSIS

An ordinance and resolution have been prepared to amend Planned Unit Development #18 with a Special Use to allow the construction of a drive-through restaurant and retail building and a Plat of Subdivision with an exception to create a new lot without street frontage at 7251 and 7261 Lemont Road in the Downers Park Plaza shopping center.

STRATEGIC PLAN ALIGNMENT

The goals for 2021-2023 include Strong and Diverse Local Economy.

FISCAL IMPACT

N/A

RECOMMENDATION

UPDATE & RECOMMENDATION

This item was discussed at the October 4, 2022 Village Council meeting. Based on Council discussion, the petitioner has made the following updates to their proposal:

1. An additional set of windows were added to the south facade.

2. An additional set of windows were added to the north facade.

3. A pedestrian connection has been added which will connect this development with the existing sidewalk system for the rest of the center. The sidewalk will run south from the proposed development site to the sidewalk in front of 7339 Lemont Road.

Staff recommends approval on the October 11, 2022 Active Agenda.

BACKGROUND

Property Information & Zoning Request

The petitioner is proposing to construct a future drive-through restaurant and retail building at 7251 and 7261 Lemont Road. The building will be located on a new 0.66 acre lot within the 32.94 acre Downers Park Plaza shopping center located at the northeast corner of Lemont Road and 75th Street. The property is zoned B-2/PUD #18, General Retail Business/Planned Unit Development #18. The petitioner is requesting:

- A PUD Amendment with a Special Use to permit the construction of a drive-through restaurant/retail space; and
- A Plat of Subdivision to create an outlot with an exception to create a lot without street frontage.

The petitioner is proposing to build a new 5,230 square foot restaurant/retail with a drive-through lane and 37 parking spaces. The proposed development will involve a decrease of 42 parking spaces for the overall shopping center. Even with the decreased parking, the shopping center will continue to provide more than the required amount of parking. The drive-through facility will be located on the north and east sides of the building and will provide the required minimum stacking spaces as required by the Municipal Code. The petitioner is proposing landscaping in conformance with the Village requirements. The proposed landscaping includes a mix of canopy trees and landscape materials such as shrubs and ornamental grasses. Parking lot and site lighting is provided within the proposed development and is compliant with the Village requirements.

A Plat of Subdivision is proposed to create a new outlot for the restaurant/retail building. The new lot is located on the west side of the shopping center along Lemont Road, directly east of the existing Burger King Restaurant and the 3 Corners Grill and Tap.

Comprehensive Plan

The Comprehensive Plan's Future Land Use Map designates this property as Corridor Commercial. Corridor Commercial uses include a blend of neighborhood oriented commercial retail that provide services and retail opportunities to the nearby neighborhoods and the surrounding region. The Comprehensive Plan specifically identifies that the 75th Street corridor should continue to contain a range of these types of uses. These commercial areas have a "unique character" and should serve the daily needs of local residents while providing goods and services to the larger region.

The proposed development also meets the Comprehensive Plan's recommendations for a Corridor Commercial area. The proposed development implements the recommendations of the Economic Development Plan to enhance the sales tax, proposes a high level of design, utilizes shared parking, proposes no new curb cuts, provides a dumpster enclosure and screening, and provides a pedestrian connection to existing sidewalk infrastructure.

Compliance with the Zoning Ordinance

The property is zoned B-2/PUD, General Retail Business District/ Planned Unit Development #18. The proposal includes a request for a Special Use to operate a drive-through, which is an available Special Use in the B-2 district. The existing parking lot area that will be converted into the proposed outlot currently contains 79 parking spaces. The proposed development will have 37 parking spaces, which will result in a reduction of 42 spaces. As noted in Table 2 in the Plan Commission staff report, the shopping center will have 1,119 parking spaces, for an excess of 44 parking spaces. All of the Zoning Ordinance requirement are met.

Compliance with the Subdivision Ordinance

The final plat of subdivision is in substantial compliance with the minimum lot dimension requirements as outlined in Section 20.301 of the Village's Subdivision Ordinance. However, Lot 1-B includes an exception to the lot frontage requirement. While Lot 1-B will not front a dedicated street, public access will be granted in perpetuity through a cross access easement and agreement between Lot 1-B (newly created outlot) and Lot 2-A (Main Shopping Center). The petitioner has stated that given the project's location set within an existing shopping center and other surrounding parcels, providing lot frontage along Lemont Road (nearest public right of way) is difficult. As noted, access will be provided through existing cross access easements through the driveways on both Lemont Road and 75th Street.

Engineering\Public Improvements

There is a slight net decrease in the impervious area and therefore new stormwater detention is not required. The drainage for the site will tie into the existing stormwater system for the shopping center. The petitioner will be required to meet all Village engineering standards and comply with all applicable codes when formally submitting for a permit. There will be no changes to the existing access points off of Lemont Road.

Traffic and Parking

A traffic impact study for the proposed development was completed by the petitioner. The study examined the existing 75th Street and Lemont Road traffic conditions and the future conditions based on the proposed development. The study found that proposed parking supply is sufficient and the development will not have a significant impact on the area roadways.

Public Comment

Prior to the Plan Commission meeting, one public comment was received by staff. The inquiry was related to who the future tenants would be. Staff informed the resident that the final tenants had not yet been decided. During the Plan Commission meeting two public comments were received. The first comment was regarding the lack of pedestrian signage and crosswalks at Lemont Road and Dunham Road. Staff noted that Lemont Road was under the jurisdiction of DuPage County Department of Transportation (DuDOT). Staff committed to speaking with the Village Traffic Engineer to express the concerns related to pedestrian signage and lack of crosswalks be communicated to DuDOT. The second public comment included clarification for clustering the restaurants in this area. The petitioner shared that the location of the proposed outlot was chosen because that existing area of parking is rarely used.

ATTACHMENTS

Ordinance Aerial Map Staff Report with attachments dated September 12, 2022 Draft Minutes of the Plan Commission Hearing dated September 12, 2022



October 6, 2022

Ms. Flora P. Leon, AICP Senior Planner Village of Downers Grove 801 Burlington Avenue Downers Grove, IL 60515

Re: Response Letter to Village Council Meeting Comments
 Proposed Restaurant/Retail Project
 7251 & 7261 Lemont Rd.
 Downers Park Plaza, Proposed Lot 1-B

Dear Ms. Leon:

Enclosed are revised drawings, per discussions and comments at the Village Council meeting on October 4th, 2022, which provide additional storefront along the left (north) and right (south) elevations and proposes an additional pedestrian connection to Lot 2 as part of the proposed development of Lot 1-B.

We have provided for additional storefront at both the above referenced building elevations to the extent feasible. Any additional storefront along both elevations will begin to be placed in undesirable locations which will interfere with interior design, specifically on the north elevation where additional windows would begin to be located within the kitchen/prep area and the south elevation where additional storefront would begin to be located towards stockrooms or storage areas, along with possibly limiting merchandise placement along these walls depending on the final end user's floor planning.

The addition of storefront along the rear (east) elevation of this building is not practical as this area is "back of house" and a significant portion of this wall will have utility services (electrical, gas, telephone,



data, etc.) located here once constructed. As with the limitations on the north and south elevations, storefront additions are not practical in this area.

An additional pedestrian crossing has been provided to the existing sidewalk at the retail building located on Lot 2. This routing was carefully considered to allow for a final connection at the fully controlled (4way stop) intersection and will allow for a full connection from Lemont Rd to Lot 2 as part of construction on this project.

In closing, we believe these revisions satisfactorily address comments presented at the Council Meeting and look forward to discussing further as needed.

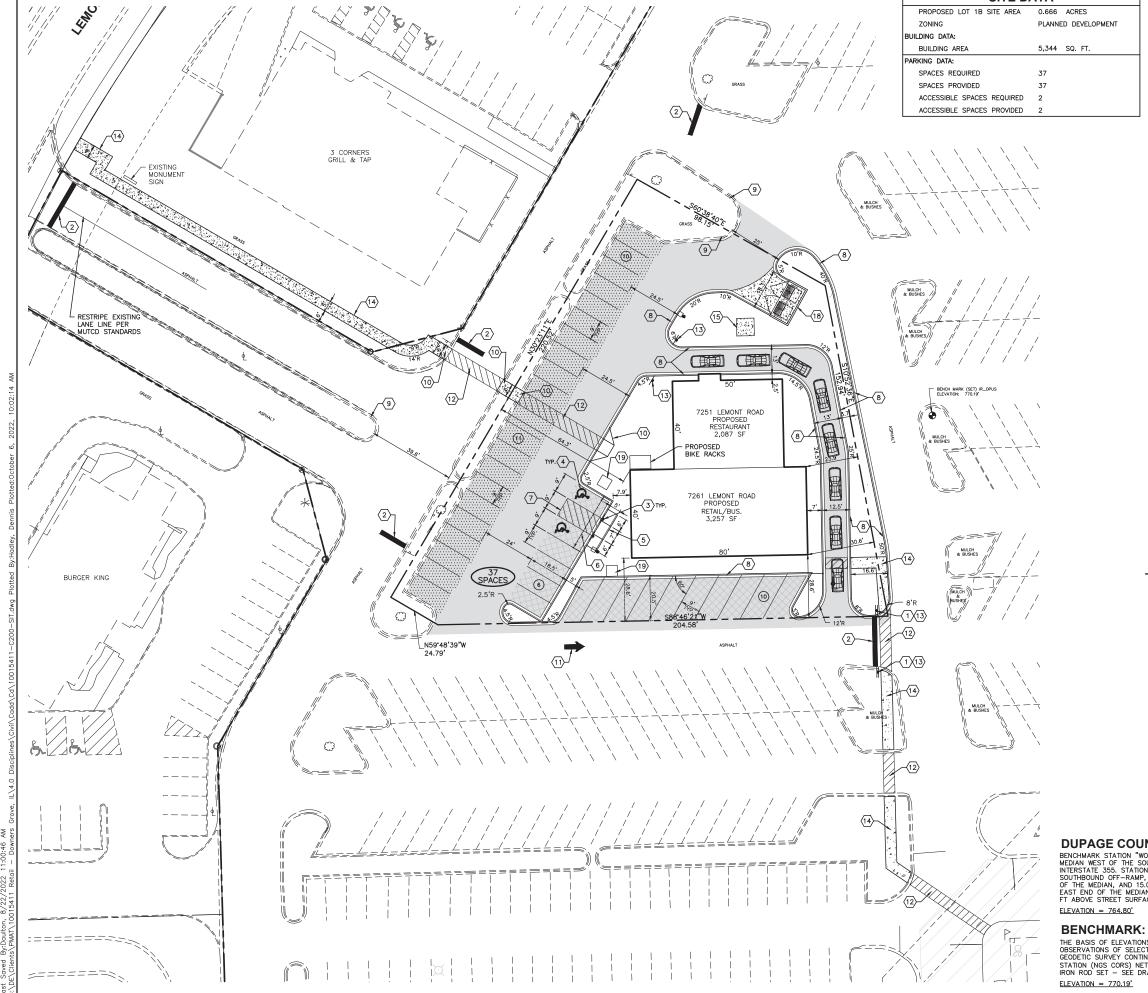
Sincerely,

Joan Reibert

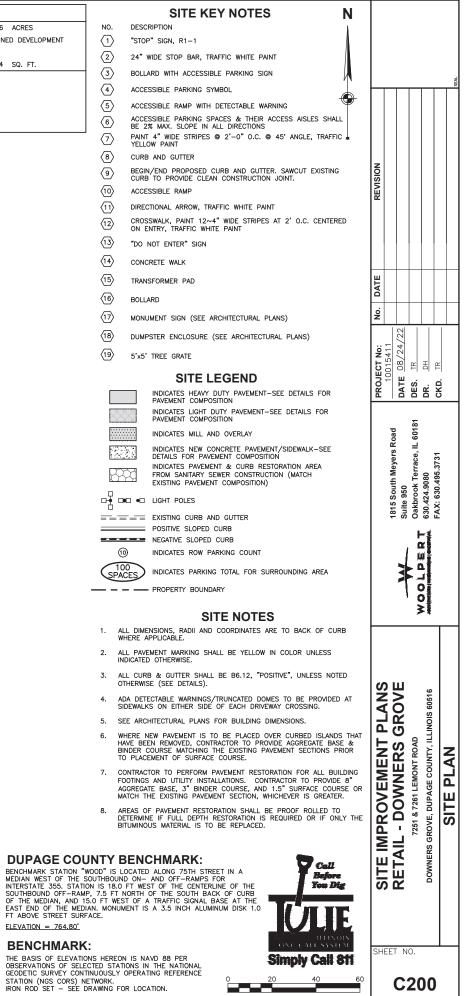
Jason Reibert Vice President

CC: Bob Whelan, PMAT DPP LLC (w/ enclosures)
 Kevin Kush, PMAT DPP LLC (w/ enclosures)
 Steve Zito, Zito-Russell Architects (w/ enclosures)
 Tim Reber, Woolpert (w/ enclosures)

SITE DATA PROPOSED LOT 1B SITE AREA 0.666 ACRES ZONING







GRAPHIC SCALE IN FEET



4166

OUTPARCEL BUILDING, DOWNERS PARK PLAZA DOWNERS GROVE, ILLINOIS

10-6-22

Architect

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VILLAGE OF DOWNERS GROVE

COUNCIL ACTION SUMMARY

INITI	ATED: Village Attorney (Name)	DATE: October 11, 2022
RECO		Plan Commission FILE REF: 22-PLC-0026 Board or Department)
<u>NATU</u>	RE OF ACTION:	STEPS NEEDED TO IMPLEMENT ACTION:
<u>X</u>	Ordinance	Motion to adopt "AN ORDINANCE APPROVING
	Resolution	AN AMENDMENT TO PLANNED UNIT DEVELOPMENT #18 TO PERMIT
	Motion	CONSTRUCTION OF A RESTAURANT WITH A DRIVE-THROUGH AND RETAIL
	Other	BUILDING AT 7251 & 7261 LEMONT ROAD", as presented.
		Call

SUMMARY OF ITEM:

Adoption of this ordinance shall approve an amendment Planned Unit Development #18 to permit construction of a restaurant with a drive-through and retail building at 7251 & 7261 Lemont Road.

CO

RECORD OF ACTION TAKEN:

1\mw\cas.22\PUD#18-Amd-22-PLC-0026

PUD #18 - Amendment 22-PLC-0026

ORDINANCE NO.

AN ORDINANCE APPROVING AN AMENDMENT TO PLANNED UNIT DEVELOPMENT #18 TO PERMIT CONSTRUCTION OF A RESTAURANT WITH A DRIVE-THROUGH AND RETAIL BUILDING <u>AT 7251 & 7261 LEMONT ROAD</u>

WHEREAS, the Village Council has previously adopted Ordinance No. 2090, on August 1, 1977, designating the property described therein as Planned Unit Development #18 and subsequent amendments thereto; and,

WHEREAS, the Village Council has previously adopted Ordinance No. 5146 on August 10, 2010, approving an amendment to Planned Unit Development #18 to approve the master sign plan; and,

WHEREAS, the Village Council has previously adopted Ordinance No. 5813 on March 10, 2020, approving off-premise electronic message board signs at 7221-7451 Lemont Road; and

WHEREAS, the Village Council has previously adopted Ordinance No. 5892 on December 14, 2021, approving an amendment to Planned Unit Development #18 to permit the construction of a restaurant with a drive-through at 7361 Lemont Road and approving an amendment to the master sign plan; 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 #18 to permit the construction of a restaurant with a drive-through and a retail building at 7251 & 7261 Lemont Road; 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 September 12, 2022, 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 authorized to permit construction of a restaurant with a drive through and a retail building at 7251 and 7261 Lemont Road.

<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 22-PLC-026 as set forth in the minutes of their September 12, 2022 meeting.

SECTION 4. The approval set forth in Section 2 of this ordinance is subject to the following conditions:

- 1. The Planned Unit Development, Special Use, and a Plat of Subdivision with an exception to create a new outlot without street frontage shall substantially conform to the staff report dated September 12, 2022; and drawings prepared by Woolpert Engineering submitted on 8/24/22, and by Zito Russell Architects updated on 8/3/22, except as such plans may be modified to conform to the Village codes and ordinances.
- 2. A perpetual cross access and parking easement shall be provided between Lots 2-A and Lot 1-B and shown on the Plat of Subdivision.
- 3. The pedestrian connection shall be secured with the approval of the property owner at 7231 Lemont Road or 7301 Lemont Road.
- 4. A pedestrian easement shall be provided on Lot 7 (7231 Lemont Road) or Lot 6N (7301 Lemont Road) for the benefit of public access to Lot 1-B.
- 5. The pedestrian connection on Lot 1-B must be clearly differentiated through the use of elevation changes, a different paving material or other equally effective methods.
- 6. The photometric plan shall conform to the Village Zoning Ordinance.
- 7. All signage shall be permitted separately and conform to the Village's Sign Ordinance.
- 8. A final plat of subdivision will be required prior to permit issuance.

<u>SECTION 5</u>. The above conditions are hereby made part of the terms under which the Planned Unit Development Amendment is granted. Violation of any or all of such conditions shall be deemed a violation of the Village of Downers Grove Zoning Ordinance, the penalty for which may include, but is not limited to, a fine and/or revocation of the Planned Unit Development Amendment granted herein.

<u>SECTION 6.</u> That all ordinances or parts of ordinances in conflict with the provisions of this ordinance are hereby repealed.

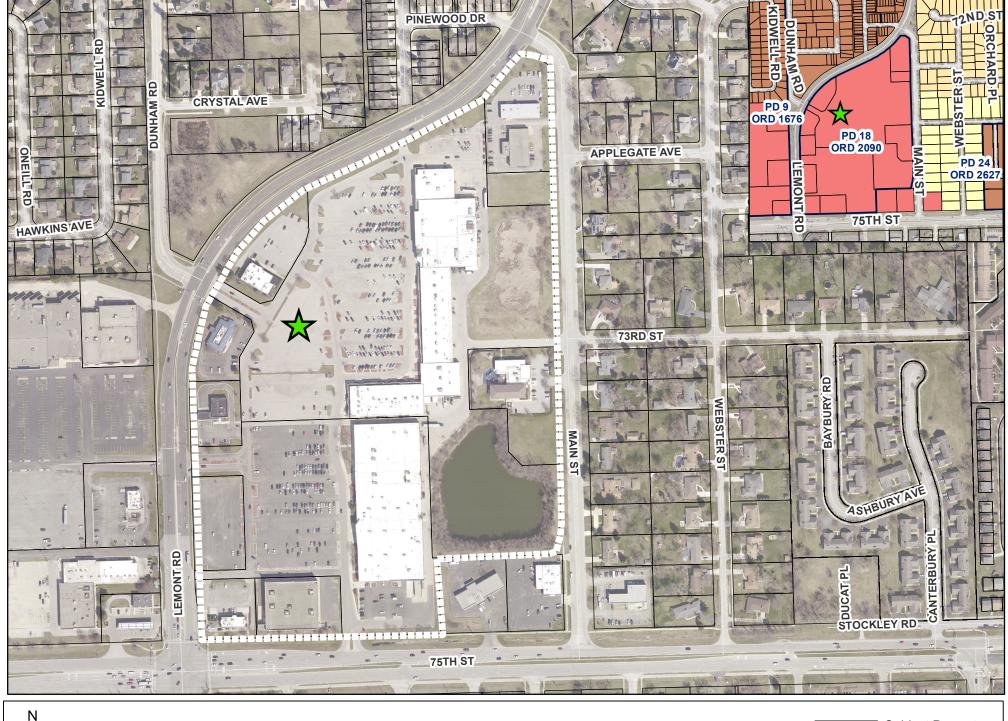
<u>SECTION 7</u>. That this ordinance shall be in full force and effect from and after its passage and publication in pamphlet form as provided by law.

Mayor

Passed: Published: Attest:

Village Clerk

 $1\mbox{word.221PUD}\#18\mbox{-}AMD\mbox{-}22\mbox{-}PLC\mbox{-}0026$



0 125 250 500 Feet

7221 Lemont Road - Location Map

Subject Property



VILLAGE OF DOWNERS GROVE REPORT FOR THE PLAN COMMISSION SEPTEMBER 12, 2022 AGENDA

SUBJECT:	Түре:	SUBMITTED BY:		
22-PLC-0026	PUD Amendment, Special Use, and	Flora P. Leon, AICP		
7251 and 7261 Lemont Road	Plat of Subdivision with an Exception	Senior Planner		

REQUEST

The petitioner is requesting approval for an amendment to Planned Unit Development #18 to allow the construction of a future restaurant and retail building, a Special Use to allow a drive-through and a Plat of Subdivision with an exception to create a new lot without street frontage at 7251 and 7261 Lemont Road in the Downers Park Plaza shopping center.

NOTICE

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

GENERAL INFORMATION

OWNER/ PETITIONER:	PMAT DPP, LLC
	109 Northpark Blvd, Suite 300
	Covington, LA 70433

PROPERTY INFORMATION

EXISTING ZONING:	B-2, General Retail Business/ P.D. #18, Planned Unit Development #18
EXISTING LAND USE:	Retail Businesses
PROPERTY SIZE:	1,434,656 square feet (32.94 acres)
PINS:	09-29-110-002 to -008, -013 to -016

SURROUNDING ZONING AND LAND USES

North:	ZONING R-5A, Residential Attached House 5A	FUTURE LAND USE Single Family Attached, Single Family Detached, Park Open Space
SOUTH:	Woodridge, OSB, Office and Service Business District Darien, B-3, General Business District	General Office Commercial
EAST:	R-3, Residential Detached House 3 R-1, Residential Detached House 1	Single Family Detached
WEST:	B-2, General Retail Business	Commercial Corridor

ANALYSIS

SUBMITTALS

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

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

PROJECT DESCRIPTION

The petitioner is proposing to construct a future restaurant and retail building at 7251 and 7261 Lemont Road. The restaurant/retail space will be located on a new 0.66 acre lot within the 32.94 acre Downers Park Plaza shopping center located at the northeast corner of Lemont Road and 75th Street. The property is zoned B-2/PUD #18, General Retail Business/Planned Unit Development #18. The petitioner is requesting:

- A PUD Amendment to permit the construction of a restaurant/retail space;
- A Special Use for the construction of a drive-through; and
- A Plat of Subdivision to create an outlot with an exception to create a lot without street frontage.

The petitioner is proposing to build a new 5,230 square foot restaurant/retail building at the northeast corner of the intersection of Dunham Road and Lemont Road, along the east side of Lemont Road. The new building is approximately 28,994 square feet and will include a restaurant with a drive-through lane and 37 parking spaces. The proposed development will involve a decrease of 42 parking spaces for the overall shopping center. Even with the decreased parking, the shopping center will continue to provide more than the required amount of parking.

The drive-through facility will be located on the north and east sides of the building and will provide the required minimum stacking spaces as required by the Village Code. The petitioner is proposing landscaping in conformance with the Village requirements. The proposed landscaping includes a mix of canopy trees and landscape materials such as shrubs and ornamental grasses. Parking lot and site lighting is provided within the proposed development and is compliant with the Village requirements.

The primary building materials used for the exterior are brick and exterior insulation finish system (EIFS). The facades are broken up with decorative columns, windows, and horizontal accent bands. Variation to the roofline is provided by the vertical elements near the entrance of the building. The proposed signage for the future restaurant and retail space will be in compliance with the sign ordinance. Further discussed below, the petitioner is requesting an exception to the lot frontage requirement for new subdivisions.

A Plat of Subdivision is proposed to create a new outlot for the restaurant/retail building. The new lot is located on the west side of the shopping center along Lemont Road, directly east of the existing Burger King Restaurant and the 3 Corners Grill and Tap.

22-PLC-0026; 7251 and 7261 Lemont Road – Downers Grove Plaza September 12, 2022

COMPLIANCE WITH THE COMPREHENSIVE PLAN

The current Comprehensive Plan's Future Land Use Map designates this property as Corridor Commercial. Corridor Commercial uses include a blend of neighborhood oriented commercial retail that provide services and retail opportunities to the nearby neighborhoods and the surrounding region. The current Comprehensive Plan specifically identifies that the 75th Street corridor should continue to contain a range of these types of uses. These commercial areas have a "unique character" and should serve the daily needs of local residents while providing goods and services to the larger region.

The proposed development also meets the Comprehensive Plan's recommendations for a Corridor Commercial area:

- Implements the recommendations of the Economic Development Plan to Enhance the Sales Tax
- Proposes a high level of design
- Utilizes shared parking
- Proposes no new curb cuts
- Provides a dumpster enclosure and screening
- Provides a pedestrian connection to existing sidewalk infrastructure

COMPLIANCE WITH ZONING ORDINANCE

The property is zoned B-2/PUD, General Retail Business District/ Planned Unit Development #18. The proposal includes a request for a Special Use to operate a drive-through, which is an available Special Use in the B-2 district.

The bulk requirements of the proposed building are summarized in the following table:

7251 and 7261 Lemont Road	Required	Proposed
West Setback to building (Street Yard)	25 ft.	64.3 ft.
North Setback to building (Interior Yard)	0 ft.	53 ft.
East Setback (Rear Yard)	0 ft.	23.9 ft.
South Setback (Interior Yard)	0 ft.	28.6 ft.
East Setback to parking (Rear Yard)	0 ft.	30 ft.
South Setback to parking (Interior Yard)	0 ft.	0 ft.
Landscaped Open Space (minimum)	10%	14%
Floor Area Ratio (maximum)	0.75	0.18
Building Height (maximum)	35 ft.	16.75 ft.
Parking Spaces (minimum)	34	37
Stacking Spaces (minimum)	8	8

Table 1 – Zoning Requirements, Proposed Outlot

Table 2 - Zoning Requirements, Shopping Center

7251 and 7261 Lemont Road	Required	Proposed
Parking Spaces (minimum)	1,075	1,119
Open Space (minimum)	10%	26%
Floor Area Ratio (minimum)	0.75	0.18

The existing parking lot area that will be converted into the proposed outlot currently contains 79 parking

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COMPLIANCE WITH SUBDIVISION ORDINANCE

The final plat of subdivision is in substantial compliance with the minimum lot dimension requirements as outlined in Section 20.301 of the Village's Subdivision Ordinance. However, Lot 1-B includes an exception to the lot frontage requirement. While Lot 1-B will not front a dedicated street, public access will be granted in perpetuity through a cross access easement and agreement between Lot 1-B (newly created outlot) and Lot 2-A (Main Shopping Center). The petitioner has stated that given the project's location set within an existing shopping center and other surrounding parcels, providing lot frontage along Lemont Rd (nearest public right of way) is difficult. As noted, access will be provided through existing cross access easements through the driveways on both Lemont Road and 75th Street.

Downers Grove Park Plaza	Lot Width (100 ft. minimum)	Lot Area (10, 500 square foot minimum)		
Lot 2-A	62.15 ft. (existing)	1,130 ft.	886,217 sq. ft.	
Lot 1-B	220.5 feet	157 ft.	28,994 sq. ft.	

Table 3 – Subdivision	Requirements

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-B (proposed restaurant/retail site).

ENGINEERING/PUBLIC IMPROVEMENTS

There is a slight net decrease in the impervious area and therefore new stormwater detention is not required. The drainage for the site will tie into the existing stormwater system for the shopping center. The petitioner will be required to meet all Village engineering standards and comply with all applicable codes when formally submitting for a permit.

There will be no changes to the existing access points off of Lemont Road. The middle entrance drive along Lemont Road will include an extended curbed island to help redirect traffic directly west of the proposed lot. The existing drive aisles are directly adjacent to the proposed lot on west, east, and south side. Three drive aisles within the existing parking lot will have access to the site along the north side, the south westernmost entrance will have two-way access and the south easternmost drive aisle will be a drive-through entrance only.

TRAFFIC

A traffic impact study for the proposed development was completed by the petitioner. The study examined the existing 75th Street and Lemont Road traffic conditions and the future conditions based on the proposed development. The study found that based on the projected parking, the proposed parking supply is sufficient to accommodate the parking demand of the proposed drive-through restaurant and retail space. The results of the capacity analysis indicate that the traffic generated by the proposed restaurant/retail space will not have a significant impact on the area roadways and that the volume of traffic estimated to be generated will be reduced due to pass-by trips and internal capture.

The access system serving Downers Park Plaza shopping center will ensure an adequate and flexible access system is provided to accommodate the traffic that will be generated by the proposed restaurant, and the

22-PLC-0026; 7251 and 7261 Lemont Road – Downers Grove Plaza September 12, 2022

site plan provides for efficient circulation and adequate stacking. As recommended by the traffic study, the petitioner will provide appropriate wayfinding signs, stripping will be provided to direct customers to and from the entrance of the drive-through lane, existing movements from the drive-through will be under stop sign control and the westbound lanes at the signalized access drives serving Downers Park Plaza shopping center will be restriped.

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 building provides sufficient access around the property as needed. The building 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 Bugle*. One public comment was received by staff. The inquiry was general in nature and the resident was satisfied once informed of the proposal.

STANDARDS OF APPROVAL

The petitioner is requesting approval of an amendment to Planned Unit Development #18 to allow the construction of a future restaurant and retail building, a Special Use to allow a drive-through, and a Plat of Subdivision with an exception to create a new outlot without street frontage at 7251 and 7261 Lemont Road in the Downers Park Plaza shopping center. The petitioner has submitted a narrative that attempts to address all of 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.

Planned Unit Development

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:

- 1. The zoning map amendment review and approval criteria of Sec. 28.12.030.1.
- 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. 28.4.030.
- 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.

Special Use

Section 28.12.050.H Approval Criteria – Special Uses

No special use may be recommended for approval or approved unless the respective review or decision-making body determines that the proposed special use is constituent with and in substantial compliance with all Village Council policies and plans and that the petitioner has presented evidence to support each of the following conclusions:

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- 1. That the proposed use is expressly authorized as a Special Use in the district in which it is to be located;
- 2. That the proposed use at the proposed location is necessary or desirable to provide a service or a facility that is in the interest of public convenience and will contribute to the general welfare of the neighborhood or community.
- 3. That the proposed use will not, in the particular case, be detrimental to the health, safety or general welfare of persons residing or working in the vicinity or be injurious to property values or improvements in the vicinity.

Section 20.602(c) Exceptions

An exception shall be recommended by the Plan Commission only if it finds that there are practical difficulties or particular hardships in the way of carrying out the strict letter of the provisions of this subdivision ordinance. In its consideration of the standards of practical difficulties or particular hardships, the Commission may consider, but is not limited to, the following:

- 1. The extent to which the proposed exception impacts on the value or reasonable use of surrounding properties.
- 2. Whether the exception is consistent with the trend of development in the area and the surrounding uses.
- 3. The characteristics of the property which support or mitigate against the granting of the exception.
- 4. Whether the exception is in conformance with the general plan and spirit of this Chapter.
- 5. Whether the exception will alter, or be consistent with, the essential character of the locality.

DRAFT MOTION

Staff will provide a recommendation at the September 12, 2022 meeting. Should the Plan Commission find that the request meets the standards of approval based on the Zoning and Subdivision Ordinances, staff has prepared a draft motion that the Plan Commission may make for the recommended approval of 22-PLC-0026:

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 Planned Unit Development, Special Use, Final Plat of Subdivision, and an Exception to the Subdivision Standards as required by the Village of Downers Grove Zoning and Subdivisions Ordinances and is in the public interest and therefore, I move that the Plan Commission recommend to the Village Council approval of 22-PLC-0026, subject to the following conditions:

- 1. The Planned Unit Development, Special Use, and a Plat of Subdivision with an exception to create a new outlot without street frontage shall substantially conform to the staff report; and drawings prepared by Woolpert Engineering submitted on 8/24/222, and by Zito Russell Architects updated on 8/3/22, except as such plans may be modified to conform to the Village codes and ordinances.
- 2. A perpetual cross access and parking easement is provided between Lots 2-A and Lot 1-B and is shown on the Plat of Subdivision.
- 3. The pedestrian connection shall be secured with the approval of the property owner at 7231 Lemont Road.
- 4. A pedestrian easement shall be provided on Lot 7 (7321 Lemont Road) for the benefit of public access to Lot 1-B.
- 5. The pedestrian connection on Lot 1-B must be clearly differentiated through the use of elevation changes, a different paving material or other equally effective methods.

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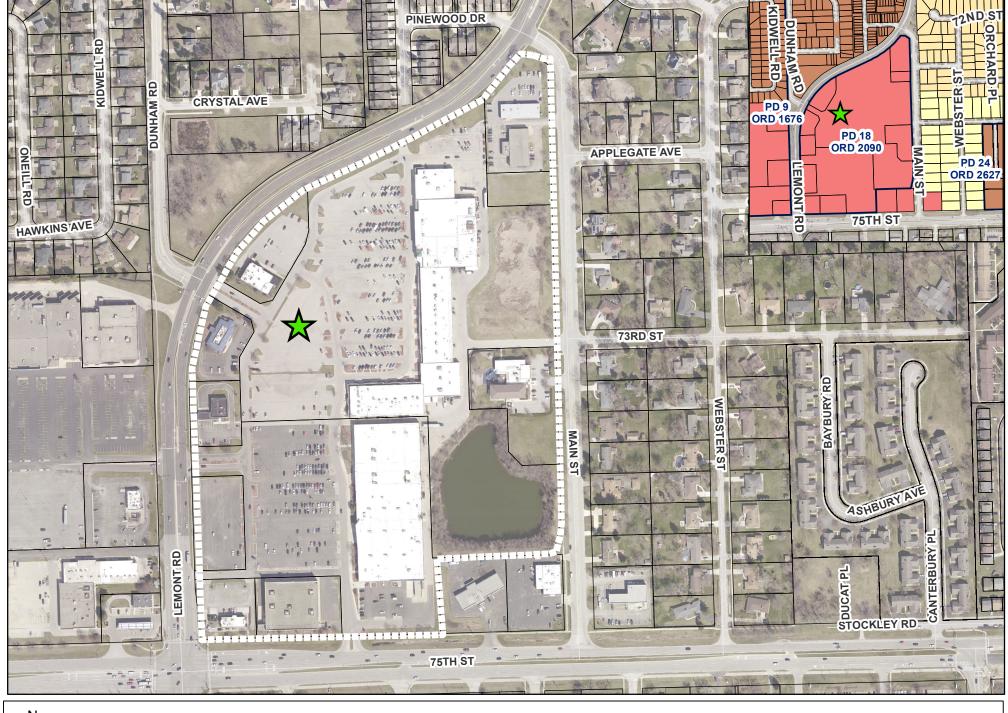
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- 6. The photometric plan shall conform to the Village Zoning Ordinance.
- 7. All signage shall be permitted separately and conform to the Village's Sign Ordinance.
- 8. A final plat of subdivision will be required prior to permit issuance.

Staff Report Approved By:

Ault

Stanley J. Popovich, AICP Director of Community Development



N 0 125 250 500 Feet

7221 Lemont Road - Location Map

Subject Property



August 2, 2022 (REV August 22, 2022)

Mr. Stan Popovich Village of Downers Grove 801 Burlington Avenue Downers Grove, IL 60515

Re: Project Summary/Narrative Proposed Restaurant/Retail Project 7251 & 7261 Lemont Rd. Downers Park Plaza, Proposed Lot 1-B

Dear Stan:

As per our recent meetings and conversations, please see the enclosed Planning Commission application for the above referenced project on behalf of PMAT DPP LLC (Owner) which includes a Special Use approval request (drive through), PUD Amendment, Resubdivision plat, and Waiver Request. A check for the required application fees was delivered to your office on Wednesday, 8/1/22, through UPS Tracking # 1ZF6R2340297361068.

The 5,230 SF restaurant/retail Shell Building is proposed to be located within the existing Downers Park Plaza Shopping Center, an existing PUD with B-2 zoning, located at the corner of Lemont Rd and 75th St. This project will have internal connectivity through the existing shopping center and utilize all existing driveway entrances currently in place. The proposed lot (Lot 1-B) for this project is being carved out of Lot 2 and is currently being used as a parking lot for the development. This portion of the parking lot is very seldomly used given its location to the main shopping center and Lot 2 will still have an excess of 158 parking spaces following the development of the proposed project on Lot 1-B.



The design team has spent a considerable amount of time ensuring the project meets or exceeds PUD or subdivision requirements for this development. The proposed Lot 1-B to be created for this project meets or exceeds Village requirements for minimum lot area, coverage, etc. for the resubdivision. A waiver is

being requested for the frontage requirement due to this lot not having frontage along a public ROW, which is being addressed through the Easement, Covenants, and Restrictions (ECR) document. This ECR, which is currently in place at the shopping center, governs cross access, cross parking, maintenance, monument signage rights, and other development and operating conditions at Downers Park Plaza. A copy of the revised ECR document, which accounts for the creation of the new Lot 1-B for this project, is included with this application for Village review. This document will be recorded concurrently with the resubdivision plat following receiving all necessary Village approvals and will run in perpetuity through title on the property. This ensures access to this parcel (and others) will permanently remain in place through the cross access easements established in the agreement.

The enclosed traffic study, prepared by KLOA, was completed as part of project design. The study noted that the project provides efficient circulation and adequate drive through stacking. Additionally, the study found the volume of traffic estimated to be generated by the proposed project will be reduced due to pass-by trips and internal capture and that the traffic that will be generated by the will not have a significant impact on the area roadways. This demonstrates that the project will not have a negative impact on overall traffic in the area or internal site circulation at Downers Park Plaza.

The project has a drive-thru design included for the proposed restaurant user. This is classified as an allowable Special Use within the B-2 zoning district. As noted above, the design team spent a significant amount of time during site planning to ensure adequate drive through stacking and efficient internal site circulation through the final placement of the building and parking lot geometry. With the change in market trends and overall community safety standards due to Covid-19, the drive through will provide a significant benefit to the community.

The application packet also included black/white and colored exterior elevations for the project. These elevations share some common design elements with the main building with some small modern aesthetic while complying with Village requirements. We believe these elevations provide a clean and



TURNING IDEAS INTO REALITY

modern store aesthetically and fit in well with nearby projects. The elevations also include a description of each of the proposed finish material. Samples of these materials can be provided upon request.

Given this project is located within an existing, developed shopping center with roadway frontage, utilities are readily available for tie-in with sufficient capacity available to serve the project. Additionally, as the impervious area of the project is unchanged (effectively slightly decreased), the existing detention pond constructed for the shopping center will properly handle the storm water from this project as it does today. This will ensure the proposed project does not adversely impact drainage at the shopping center or in the surrounding areas.

Landscaping and site lighting photometric plans are included for review. The landscaping plans provide plantings like those within the existing shopping center and provide sufficient screening of the drive through when viewed from Lemont Rd. Site lighting plans were developed to ensure quality lighting standards are meet as required by the end-users, while also meeting Village requirements to safely illuminates the project at nighttime hours.

We appreciate you and your staff's time to date discussing this project ahead of this submittal and are excited at the opportunity to bring this quality restaurant to the Downers Grove community. We are available to answers any questions or comments regarding this application and look forward to presenting this project to the Planning and Zoning Commission on September 12, 2022. Please advise of any additional information that may be required and once you have confirmation of the application's placement on the meeting agenda.

Sincerely,

100-Kelo

Jason Reibert Vice President



TURNING IDEAS INTO REALITY

CC: Bob Whelan, PMAT DPP LLC (w/ enclosures)

Kevin Kush, PMAT DPP LLC (w/ enclosures)

Steve Zito, Zito-Russell Architects (w/ enclosures)

Tim Reber, Woolpert (w/ enclosures)



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.



Review and Approval Criteria SPECIAL USES

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 28.12.050.H Approval Criteria (Special Uses)

No special use may be recommended for approval or approved unless the respective review or decisionmaking body determines that the proposed special use is constituent with and in substantial compliance with all Village Council policies and plans and that the applicant has presented evidence to support each of the following conclusions:

- 1. That the proposed use is expressly authorized as a Special Use in the district in which it is to be located.
- 2. That the proposed use at the proposed location is necessary or desirable to provide a service or a facility that is in the interest of public convenience and will contribute to the general welfare of the neighborhood or community.

3. That the proposed use will not, in the particular case, be detrimental to the health, safety or general welfare of persons residing or working in the vicinity or be injurious to property values or improvements in the vicinity.

Applicant: PMAT DPP LLC

Project: Downers Park Plaza – Lot 1-B Resubdivision

1. The extent to which the proposed exception impacts on the value or reasonable use of surrounding properties.

RESPONSE: The exception will not have any impact on value or reasonable use of the surrounding properties. To the general public, access and circulation would remain the same regardless of if this property had the required public frontage as permanent cross access is being provided through the recorded Easements, Covenants, and Restrictions (ECR) document and cross-access servitudes.

2.Whether the exception is consistent with the trend of development in the area and the surrounding uses.

RESPONSE: The exception is consistent with the surrounding uses as permanent, public access will be granted to the proposed parcel as is with all other parcels in the area. Access for this parcel is being provided through the recorded referenced ECR document, while others are through recorded public right of way. Both ensure public access will not be impeded or restricted.

3. The characteristics of the property which support or mitigate against the granting of the exception.

RESPONSE: Given the property's location set within an existing shopping center and other surrounding parcels, providing lot frontage along Lemont Rd (nearest public right of way) is not feasible. As noted, access will be provided through existing cross access easements through the multiple driveways on both Lemont Rd and 75th St.

4. Whether the exception is in conformance with the general plan and spirit of this Chapter.

RESPONSE: The exception is in conformance with the general plan and spirit of the Chapter which is to provide permanent, unrestricted access to all parcels being created. This is being accomplished through the referenced ECR document which has been recorded as part of the original development of Downers Park Plaza and will be revised and recorded as part of this resubdivision and will pass through title in the event of any property sales.

5. Whether the exception will alter, or be consistent with, the essential character of the locality.

RESPONSE: This exception will not alter the essential character of the locality at this project in any manner. As mentioned in an earlier response, the general public will continue to access and

circulate the property as they are now. This will not change or impact the character of the general area.

ZONING ANALYSIS

PROPOSED RETAIL & RESTAURANT, 7251 & 7261 LEMONT ROAD (PART OF EXISTING PUD #18)

PIN: CURRENTLY UNASSIGNED (EXISTING LOT 2 TO BE SUBDIVIDED) ZONING DISTRICT: PUD/B-2 GENERAL RETAIL BUSINESS						
EXIST. USE:	RETAIL (COMMERCIAL) PROPOSED	USE: RETAIL & F	RESTAURANT (COMMERCIAL)		
REQUIREMENT	REQUIRED	PROPOSED	MEETS REQ.?	DIFFERENCE		
LOT FRONTAGE	-	0 (INTERIOR LOT)	N/A	N/A		
LOT AREA	-	0.66 ACRES (28,994 S.F.)	N/A	N/A		
LOT WIDTH	-	220.5'	N/A	N/A		
STREET YARD	25'	64'	YES	+39'		
REAR YARD	-	VARIES	N/A	-		
SIDE YARD	-	VARIES	N/A	-		
HEIGHT	35' MAX.	16'-9"	YES	-20'-3"		
OPEN SPACE	10% MIN. (2,899 S.F.)	14% (4,126 S.F.)	YES	+1,227 S.F.		
FAR	0.75 MAX. (21,745 S.F.)	0.18 (5,230 S.F.)	YES	-16,515 S.F.		
PARKING (RESTAURANT)	21 (+8 STACKING)	23 (+8 STACKING)	YES	+2		
PARKING (RETAIL)	13	14	YES	+1		

REMARKS:

RESTAURANT REQUIRED PARKING CALCULATED AT 10 SPACES PER 1,000 S.F. BUILDING AREA, PLUS 8 STACKING SPACES W/ MIN. 3 SPACES BETWEEN ORDERING POINT AND PICKUP POINT.

RETAIL REQUIRED PARKING CALCULATED AT 4 SPACES PER 1,000 S.F. BUILDING AREA.

ZONING ANALYSIS

EXISTING (PUD #18) DOWNERS PARK PLAZA SHOPPING CENTER AT

7451 LEMONT ROAD (LOT 2), 7349 LEMONT ROAD (LOT 5) & 1150 75TH STREET (LOT 8)

PINS: 0929110002 (LOT 8), 0929110003 (LOT 5) & 0929110007 (LOT 2)		ZONING DISTRICT:		PUD/B-2 GENERAL RETAIL BUSINESS		
EXIST. USE: RETAIL (COMMERCIAL)			PROPOSED U	ISE:		RETAIL (COMMERCIAL)
REQUIREMENT	REQUIRED	EXISTING		MEETS REQ.?		DIFFERENCE
LOT AREA (COMBINED)	-	32.935 ACRES	(1,434,656 S.F.)	N/A		N/A
OPEN SPACE (COMBINED)	10% MIN. (143,465 S.F.)	26% (382,327	S.F.)	YES		+238,862 S.F.
FAR (COMBINED)	0.75 MAX. (1,075,992 S.F.)	0.18 (268,821 \$	S.F.)	YES		-807,171 S.F.
PARKING (COMBINED)	4.0/1,000 S.F. (1,075 SPACES)	1,192 SPACES (@ 4.43/1,000 S.F.	YES		+117 SPACES

REMARKS:

REQUIRED PARKING CALCULATED AT 4 SPACES PER 1,000 S.F. BUILDING AREA (COMMERCIAL - SHOPPING CENTER, MULTI-TENANT).

SITE IMPROVEMENT PLANS RETAIL - DOWNERS GROVE

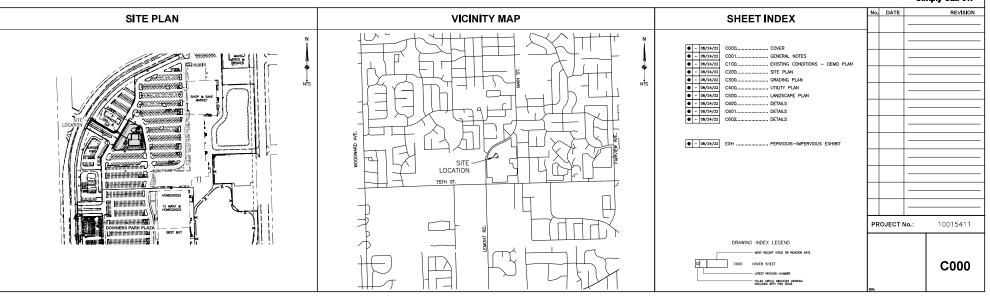
7251 & 7261 LEMONT ROAD DOWNERS GROVE, DUPAGE COUNTY, ILLINOIS 60516 AUGUST 24, 2022

PMAT DPP LLC

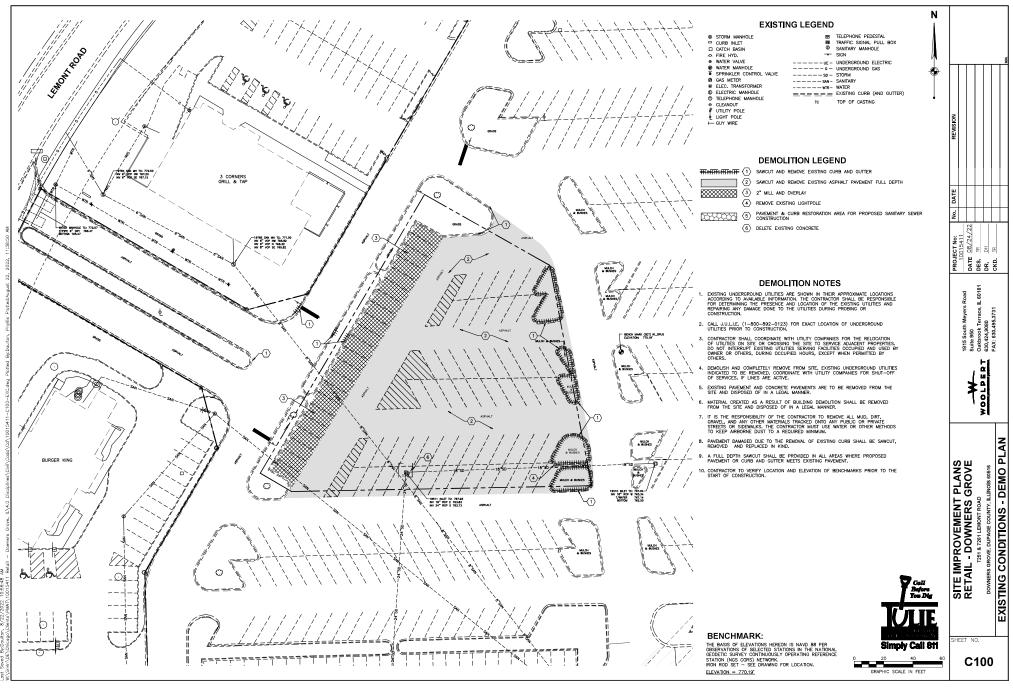
109 NEW CAMELLIA BOULEVARD, SUITE 100, COVINGTON, LA 70433 985.792.4389

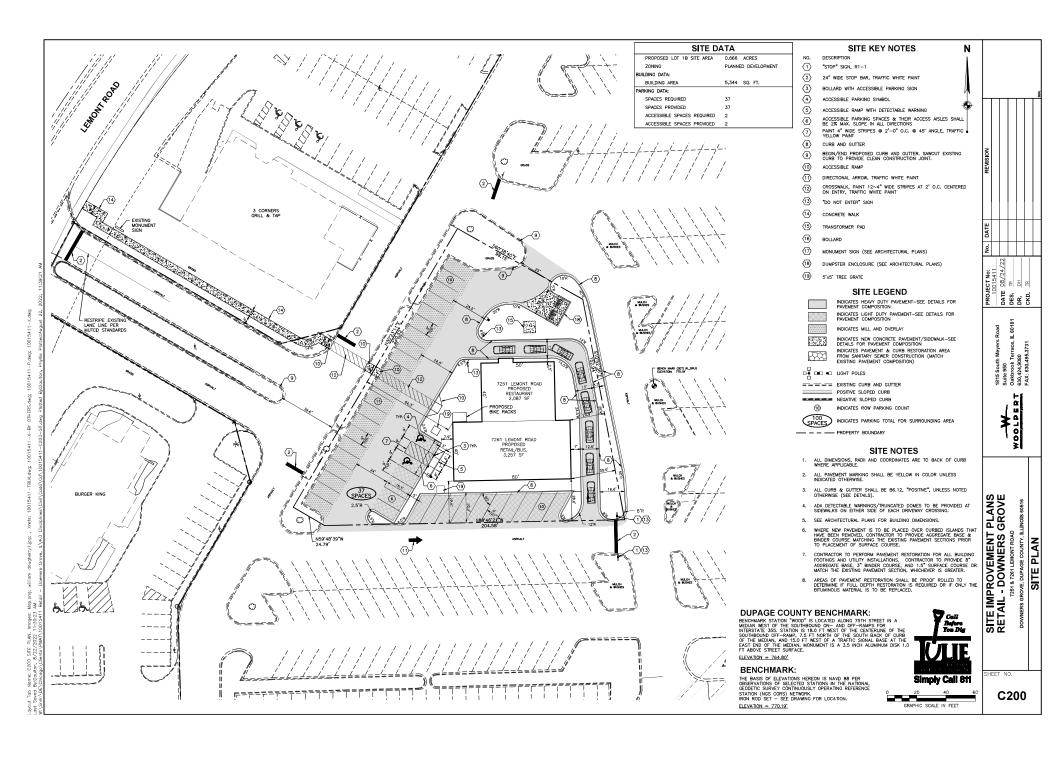
CONTACT: JASON REIBERT EMAIL: JREIBERT@GSRES.COM

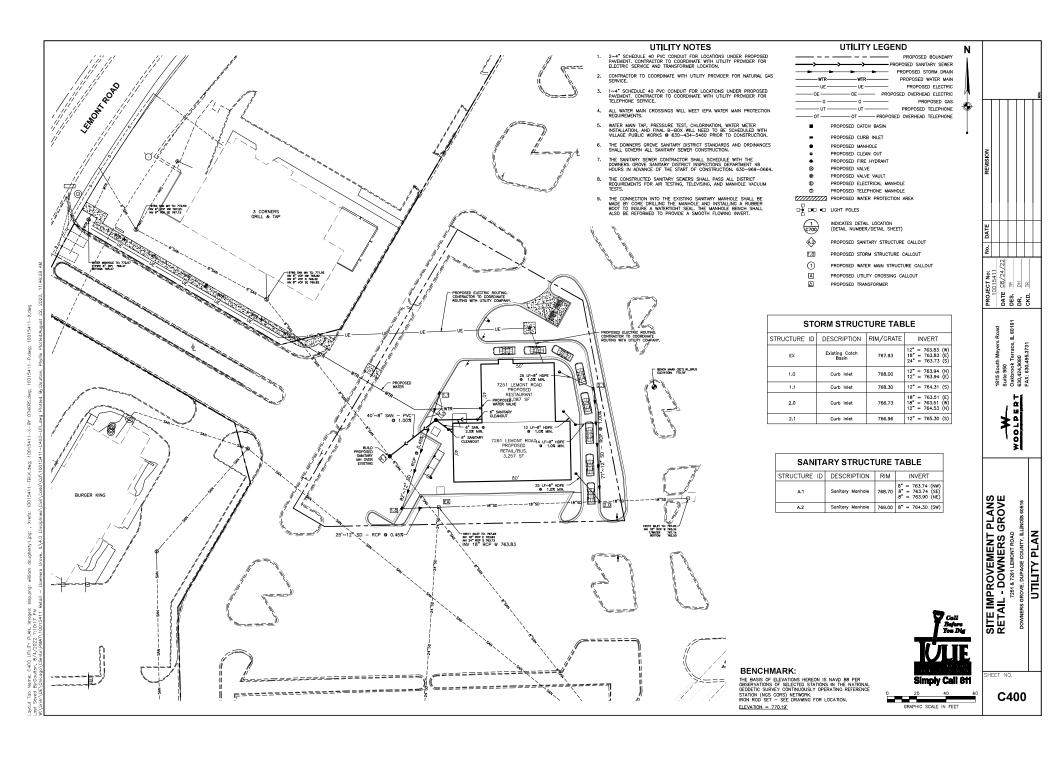


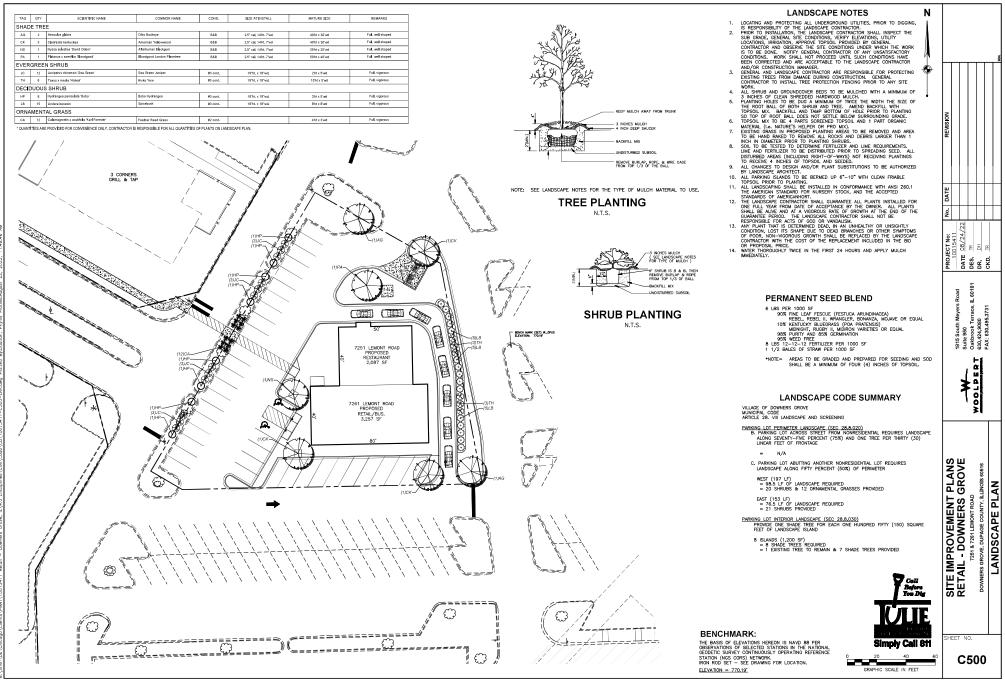


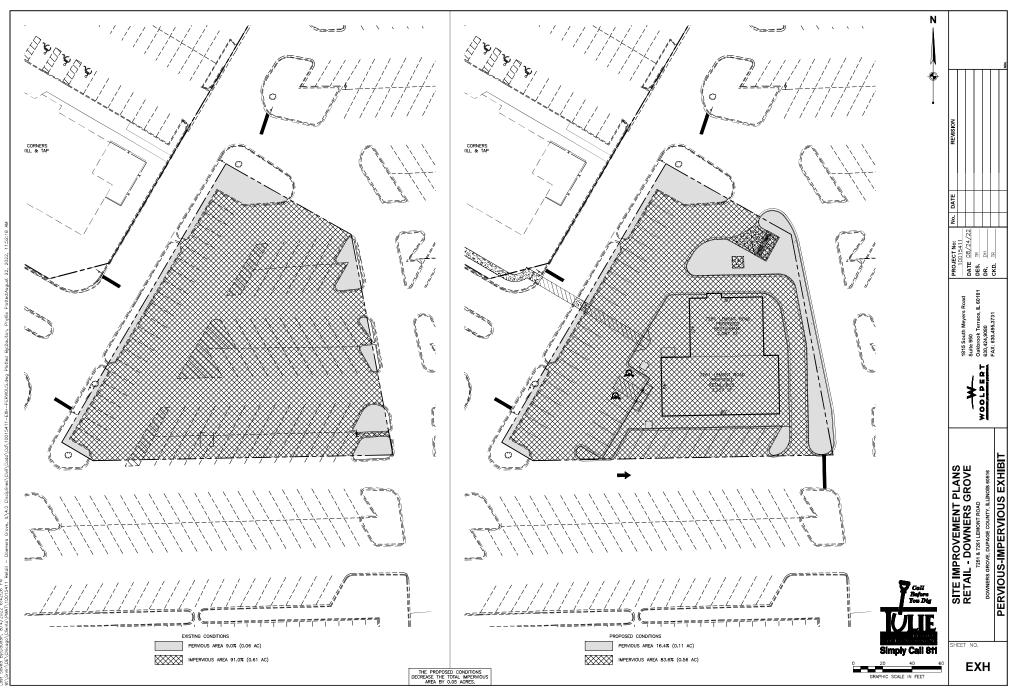


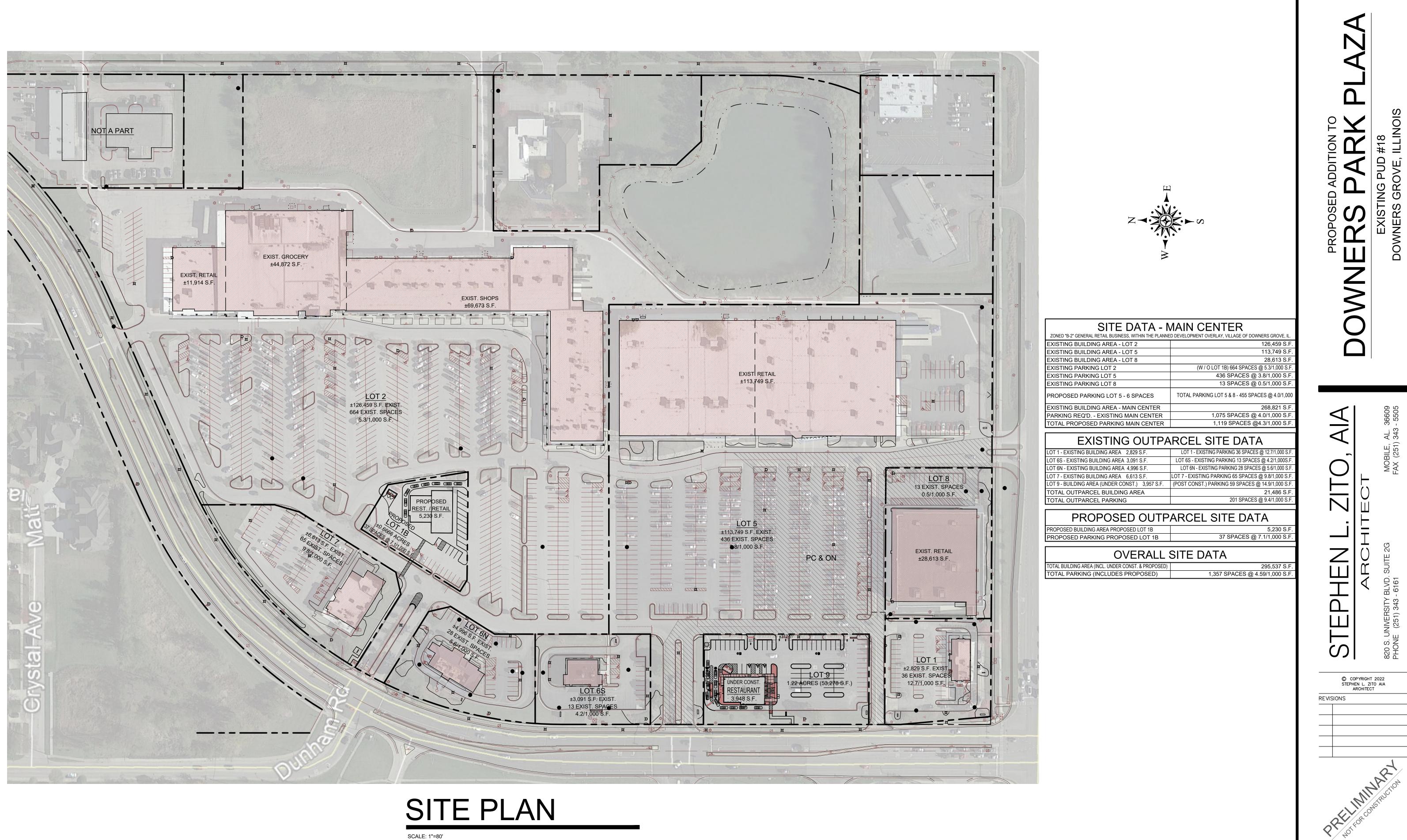














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OWNERS

MOBILE, AL. 36609 FAX (251) 343 - 5505

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820 S. PHONI

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AUGUST 3, 2022

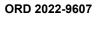
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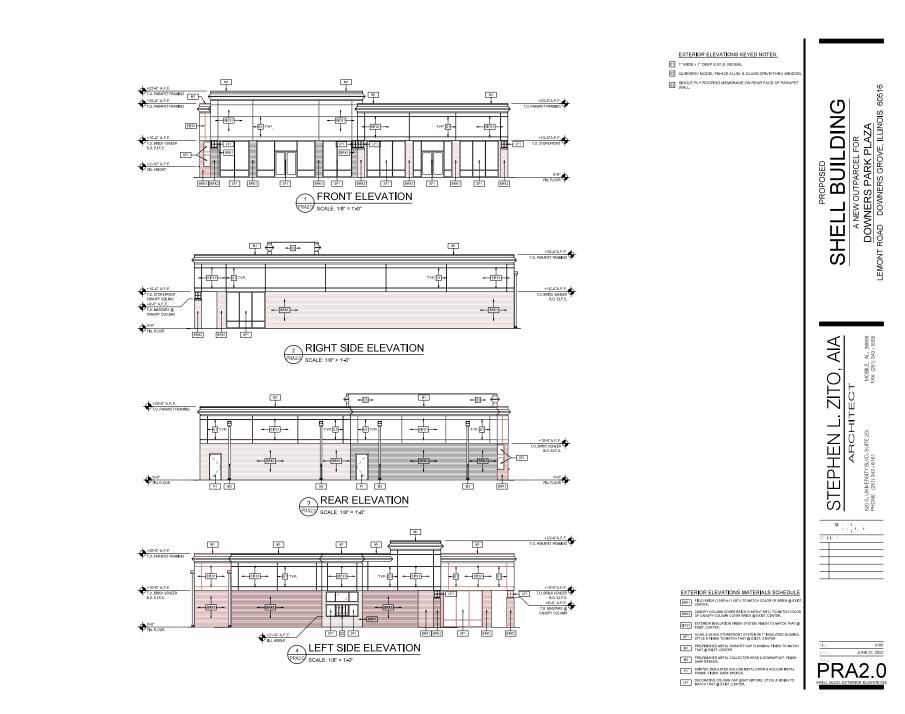
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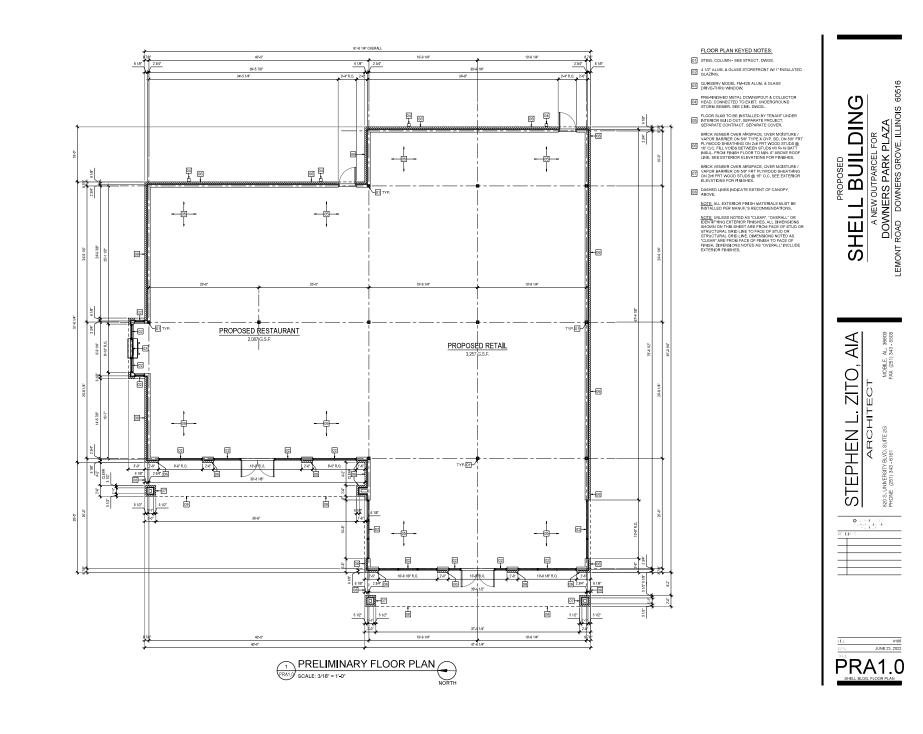
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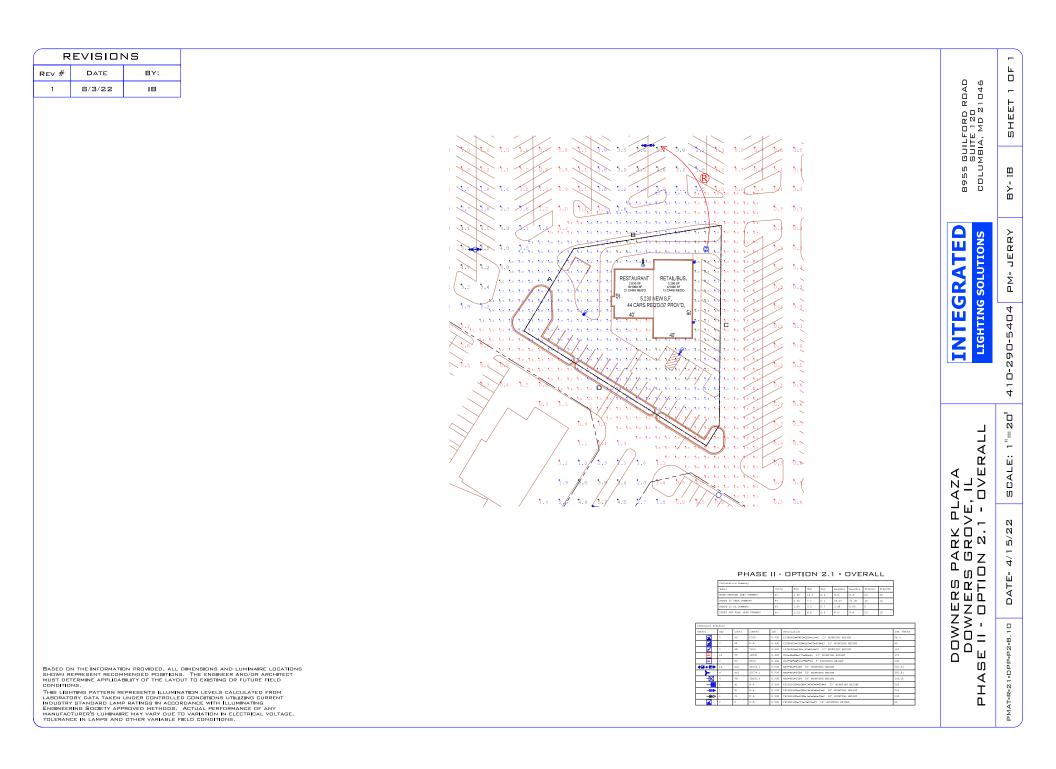


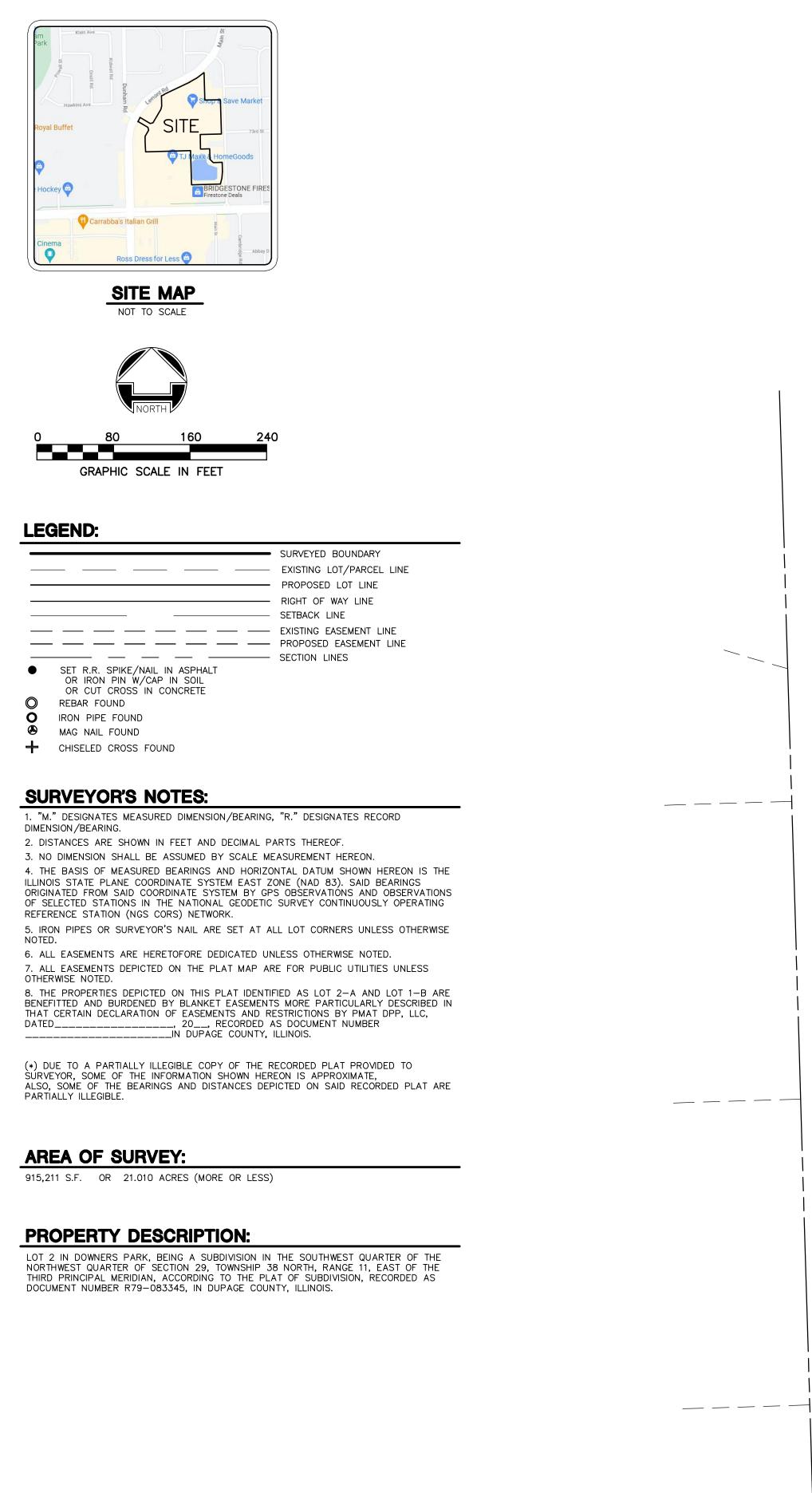


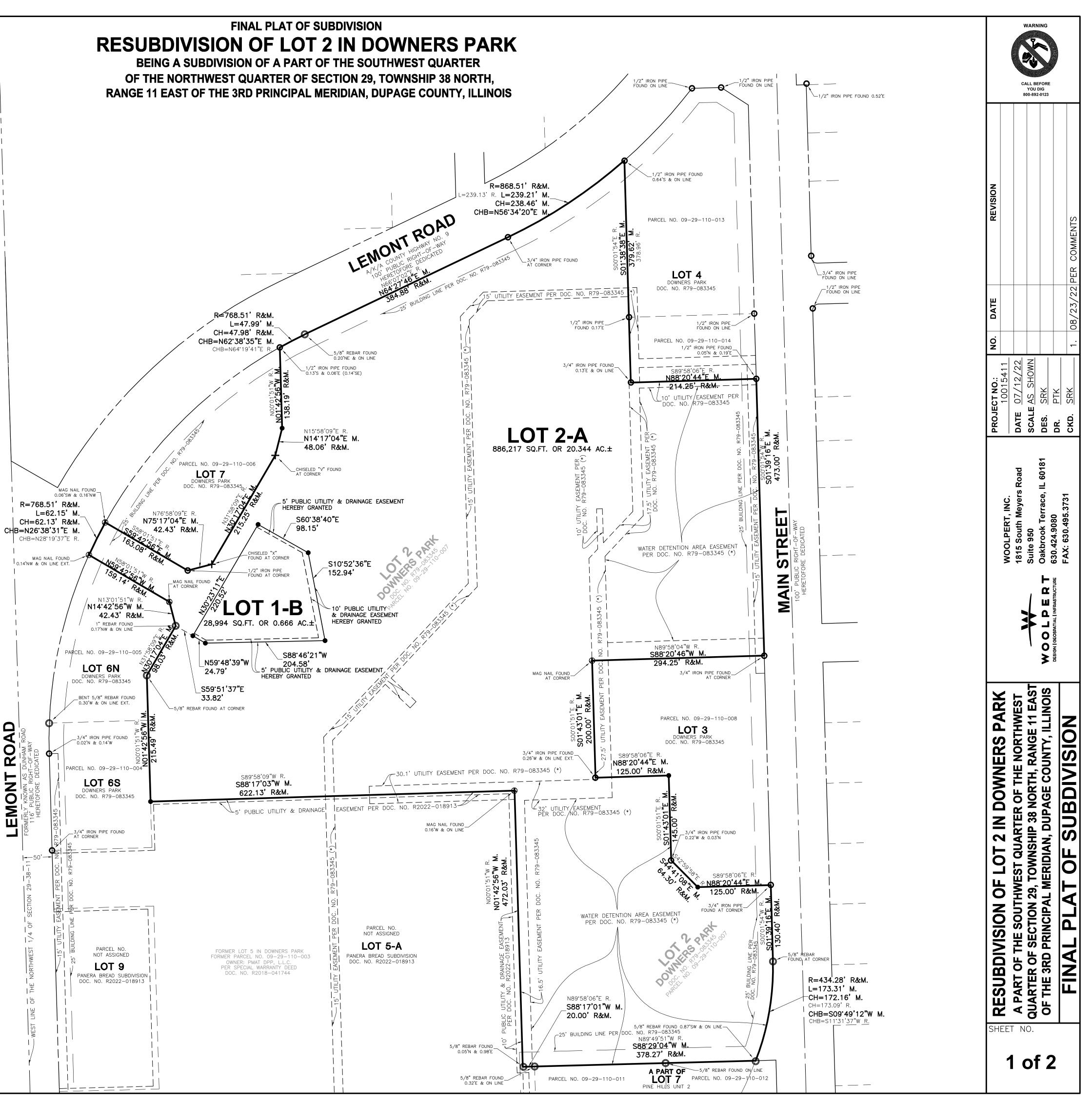














ORD	2022-9607	

SCHOOL DISTRICT BOUNDARY STATEMENT	VILLAGE CC
STATE OF ILLINOIS)) SS COUNTY OF DUPAGE)	STATE OF ILLINOIS COUNTY OF DUPAGE
THE UNDERSIGNED DO HEREBY CERTIFY THAT, AS OWNERS OF THE PROPERTY DESCRIBED IN THE SURVEYOR'S CERTIFICATE, AND KNOWN AS 7451 LEMONT ROAD, DOWNERS GROVE, IL 60515, TO THE	I, CERTIFY THAT THERE
BEST OF THEIR KNOWLEDGE, SAID PROPERTY IS LOCATED WITHIN THE BOUNDARIES OF THE HIGH SCHOOL DISTRICT 99, AND ELEMENTARY SCHOOL DISTRICT 58 IN DUPAGE COUNTY, ILLINOIS.	ASSESSMENTS OR AN AGAINST THE TRACT DATED THIS
DATED AT, ILLINOIS THIS DAY OF, A.D., 20	
BY:	
OWNER'S CERTIFICATE	PLAN COMM
STATE OF)	COUNTY OF DUPAGE
) SS COUNTY OF)	APPROVED BY THE P THIS DAY OF
I,, HEREBY CERTIFIES THAT THEY ARE THE OWNERS OF THE ABOVE-DESCRIBED PROPERTY AND HAVE CAUSED THE SAME TO BE SURVEYED AND SUBDIVIDED AS SHOWN ON THE PLAT HEREON DRAWN.	
DATED THIS DAY OF A.D., 20	
OWNER:	
NOTARY'S CERTIFICATE	STATE OF ILLINOIS
STATE OF)	COUNTY OF DUPAGE
) SS COUNTY OF) I HEREBY CERTIFY THAT THE PERSONS WHOSE NAMES ARE SUBSCRIBED TO THE FOREGOING CERTIFICATE ARE KNOWN TO ME AS SUCH OWNERS.	APPROVED THIS BY THE COUNCIL OF
GIVEN UNDER MY HAND AND SEAL THIS DAY OF, A.D., 20	VILLAGE CL
 NOTARY PUBLIC	
MY COMMISSION EXPIRES:	
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SANITARY DISTRICT CERTIFICATE	EASEMENTS ARE HERE AND TO THOSE PUBLI DOWNERS GROVE, INC
) SS COUNTY OF DUPAGE)	ILLINOIS, NORTHERN I THROUGH ALL OF THE THE PLAT FOR THE P
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ASSESSMENTS OR ANY DEFERRED INSTALLMENTS THEREOF THAT HAVE NOT BEEN APPORTIONED	REPAIR, INSPECT, MAI COMMUNITY ANTENNA SEWERS, TOGETHER W
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HEREBY CERTIFY THAT THERE ARE NO DELINQUENT OR OWNAUD CORRENT OF FORFEITED SPECIAL ASSESSEMENTS OR ANY DEFERRED INSTALLMENTS THEREOF THAT HAVE NOT BEEN APPORTIONED AGAINST THE TRACT OF LAND INCLUDED IN THIS PLAT. DATED THIS DAY OF A.D., 20 COLLECTOR DUPAGE COUNTY CLERK'S CERTIFICATE STATE OF ILLINOIS) SS COUNTY OF DUPAGE) I, 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 THIS PLAT. GIVEN UNDER MY HAND AND SEAL OF THE COUNTY CLERK OF DUPAGE COUTY, ILLINOIS, THIS DAY OF, A.D., 20 DUPAGE COUNTY RECORDER'S CERTIFICATE DUPAGE COUNTY RECORDER'S CERTIFICATE	COMMUNITY ANTENNA SEWERS, TOGETHER W APPLIANCES AND OTH VILLAGE UNDER AND ACROSS THE PROPER THE RIGHT IS ALSO O PLANTS ON THE EASE UTILITIES. NO PERMA USED FOR PAVEMENT, OR LATER INTERFERE FOR SEWERS AND OTH ORDINANCES OF THE EASEMENTS ARE HERE DUPAGE AND OTHER O HEREBY, OVER THE E MUNICIPAL AND OTHER SERVICE AND MAINTEN AN EASEMEN AND COM ILLING THEIR RESPECTIVE LIG OPERATE, REPAIR, MA FROM TIME TO TIME, PEDESTALS, EQUIPMEN UNDERGROUND TRANS SIGNALS IN, OVER, U
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HEREBY CERTIFY THAT THERE ARE NO DELINUOUNT OF OWNER OF DOREITED SPECIAL ASSESSMENTS OR ANY DEFERRED INSTALLMENTS THEREOF THAT HAVE NOT BEEN APPORTIONED AGAINST THE TRACT OF LAND INCLUDED IN THIS PLAT. DATED THIS DAY OF A.D., 20 COLLECTOR	COMMUNITY ANTENNA SEWERS, TOGETHER W APPLIANCES AND OTH VILLAGE UNDER AND ACROSS THE PROPER THE RIGHT IS ALSO O PLANTS ON THE EASE UTILITIES. NO PERMA USED FOR PAVEMENT, OR LATER INTERFERE FOR SEWERS AND OTH ORDINANCES OF THE EASEMENTS ARE HERE DUPAGE AND OTHER O HEREBY, OVER THE E MUNICIPAL AND OTHER SERVICE AND MAINTEN AN EASEMEN MUNICIPAL AND OTHER SERVICE AND MAINTEN ILLING THEIR RESPECTIVE LIG OPERATE, REPAIR, MA FROM TIME TO TIME, PEDESTALS, EQUIPMEN UNDERGROUND TRANS SIGNALS IN, OVER, U WITHIN THE DASHED "EASEMENT", "UTILITY THE PROPERTY DESIG "COMMON ELEMENTS", AND THE PROPERTY PRIVATE, TOGETHER W THE SURFACE OF EAG
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HEREBY CERTIFY THAT THERE ARE NO DELINUOUNT OF OWN THAT HAVE NOT BEEN APPORTIONED ASSESSMENTS OR ANY DEFERRED INSTALLMENTS THEREOF THAT HAVE NOT BEEN APPORTIONED AGAINST THE TRACT OF LAND INCLUDED IN THIS PLAT. DATED THIS DAY OF A.D., 20 COLLECTOR DUPAGE COUNTY CLERK'S CERTIFICATE STATE OF ILLINOIS SS COUNTY OF DUPAGE 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 THIS PLAT. I, FURTHER CERTIFY THAT I HAVE RECEIVED ALL STATUTORY FEES IN CONNECTION WITH THIS PLAT. GIVEN UNDER MY HAND AND SEAL OF THE COUNTY CLERK OF DUPAGE COUTY, ILLINOIS, THIS DAY OF, A.D., 20 DUPAGE COUNTY RECORDER'S CERTIFICATE STATE OF ILLINOIS SS COUNTY OF DUPAGE, B.S COUNTY OF DUPAGE, A.D., 20	COMMUNITY ANTENNA SEWERS, TOGETHER W APPLIANCES AND OTH VILLAGE UNDER AND ACROSS THE PROPER THE RIGHT IS ALSO O PLANTS ON THE EASE UTILITIES. NO PERMA USED FOR PAVEMENT, OR LATER INTERFERE FOR SEWERS AND OTH ORDINANCES OF THE EASEMENTS ARE HERE DUPAGE AND OTHER OF HEREBY, OVER THE E MUNICIPAL AND OTHER SERVICE AND MAINTEN ILLING THEIR RESPECTIVE LIG OPERATE, REPAIR, MA FROM TIME TO TIME, PEDESTALS, EQUIPMEN UNDERGROUND TRANS SIGNALS IN, OVER, U WITHIN THE DASHED "EASEMENT," "UTILITY THE PROPERTY DESIG "COMMON ELEMENTS", AND THE PROPERTY PRIVATE, TOGETHER V THE SURFACE OF EAG ON ADJACENT LOTS, BUSHES, ROOTS AND AS MAY BE REASON ENTER UPON THE SU PLACED OVER GRANT DOTTED LINES (OR SI
HERED CENTIFY THAT THERE ARE NO DELINEORS THE TOPADD UDRENT OR PORTION SPECIAL ASSESSMENTS OR ANY DEFERRED INSTALLMENTS THE REPORT THAT HAVE NOT BEEN APPORTIONED AGAINST THE TRACT OF LAND INCLUDED IN THIS PLAT. DATED THIS DAY OF A.D., 20	COMMUNITY ANTENNA SEWERS, TOGETHER W APPLIANCES AND OTH VILLAGE UNDER AND ACROSS THE PROPER THE RIGHT IS ALSO O PLANTS ON THE EASE UTILITIES. NO PERMA USED FOR PAVEMENT, OR LATER INTERFERE FOR SEWERS AND OTH ORDINANCES OF THE EASEMENTS ARE HERE DUPAGE AND OTHER O HEREBY, OVER THE E MUNICIPAL AND OTHER SERVICE AND MAINTEN ILLING THEIR RESPECTIVE LIG OPERATE, REPAIR, MA FROM TIME TO TIME, PEDESTALS, EQUIPMEN UNDERGROUND TRANS SIGNALS IN, OVER, U WITHIN THE DASHED "EASEMENT", "UTILITY THE PROPERTY DESI "COMMON ELEMENTS", AND THE PROPERTY PRIVATE, TOGETHER V THE SURFACE OF EAG ON ADJACENT LOTS, BUSHES, ROOTS AND AS MAY BE REASON ENTER UPON THE SU PLACED OVER GRANTI DOTTED LINES (OR SI EASEMENT", "P.U.E" (AFTER INSTALLATION NOT BE ALTERED IN
HENEBY CERTIFY THAT THERE ARE NO DELEMENTS THEREOF THAT THAVE NOT BEEN APPORTIONED ASSESSMENTS THE TRACT OF LAND INCLUDED IN THIS PLAT. DATED THIS DAY OF A.D., 20	COMMUNITY ANTENNA SEWERS, TOGETHER W APPLIANCES AND OTH VILLAGE UNDER AND ACROSS THE PROPER THE RIGHT IS ALSO PLANTS ON THE EASE UTILITIES. NO PERMA USED FOR PAVEMENT, OR LATER INTERFERE FOR SEWERS AND OTI ORDINANCES OF THE EASEMENTS ARE HERE DUPAGE AND OTHER OF HEREBY, OVER THE E MUNICIPAL AND OTHER SERVICE AND MAINTEN ILLING THEIR RESPECTIVE LIG OPERATE, REPAIR, MA FROM TIME TO TIME, PEDESTALS, EQUIPMEN UNDERGROUND TRANS SIGNALS IN, OVER, U WITHIN THE DASHED 'EASEMENT", 'UTILITY THE PROPERTY DESIG 'COMMON ELEMENTS", AND THE PROPERTY PRIVATE, TOGETHER W THE SURFACE OF EAS ON ADJACENT LOTS, BUSHES, ROOTS AND AS MAY BE REASON ENTER UPON THE SU PLACED OVER GRANT DOTTED LINES (OR SI EASEMENT", 'P.U.E" (AFTER INSTALLATION NOT BE ALTERED IN MAINTENANCE THERED
HEREB Y GRAIN PERFERED INSTALLMENTS THEREOF THAT HAVE NOT BEEN APPORTIONED AGAINST THE TRACT OF LAND INCLUDED IN THIS PLAT. DATED THIS DAY OF A.D., 20	COMMUNITY ANTENNA SEWERS, TOGETHER W APPLIANCES AND OTH VILLAGE UNDER AND ACROSS THE PROPER THE RIGHT IS ALSO PLANTS ON THE EASE UTILITIES. NO PERMA USED FOR PAVEMENT, OR LATER INTERFERE FOR SEWERS AND OTH ORDINANCES OF THE EASEMENTS ARE HERE DUPAGE AND OTHER OF HEREBY, OVER THE E MUNICIPAL AND OTHER SERVICE AND MAINTEN ILLING THEIR RESPECTIVE LIG OPERATE, REPAIR, MA FROM TIME TO TIME, PEDESTALS, EQUIPMEN UNDERGROUND TRANS SIGNALS IN, OVER, U WITHIN THE DASHED "EASEMENT", "UTILITY THE PROPERTY DESIG "COMMON ELEMENT", AND THE PROPERTY PRIVATE, TOGETHER W THE SURFACE OF EAG ON ADJACENT LOTS, BUSHES, ROOTS AND AS MAY BE REASON ENTER UPON THE SU PLACED OVER GRANTI DOTTED LINES (OR SI EASEMENT", "P.U.E" (AFTER INSTALLATION NOT BE ALTERED IN MAINTENANCE THERED

UPON WRITTEN REQUEST.

OF THE NORTHWEST QUARTER OF SECTION 29, TOWNSHIP 38 NORTH, RANGE 11 EAST OF THE 3RD PRINCIPAL MERIDIAN, DUPAGE COUNTY, ILLINOIS

OR'S CERTIFICATE

LLECTOR OF THE VILLAGE OF DOWNERS GROVE, DO HEREBY LINQUENT OR UNPAID CURRENT OR FORFEITED SPECIAL INSTALLMENTS THEREOF THAT HAVE NOT BEEN APPORTIONED ICLUDED IN THIS PLAT.

_____, A.D., 20____

COLLECTOR

N'S CERTIFICATE

SSION OF THE VILLAGE OF DOWNERS GROVE, .____, A.D., 20____

CHAIRMAN

'S CERTIFICATE

__, A.D., 20 ____ OF DOWNERS GROVE.

____ ____ MAYOR

ND DRAINAGE EASEMENT PROVISIONS

D FOR AND GRANTED TO THE VILLAGE OF DOWNERS GROVE, ILLINOIS OMPANIES OPERATING UNDER FRANCHISE FROM THE VILLAGE OF NOT LIMITED TO ILLINOIS BELL TELEPHONE COMPANY DBA AT&T COMPANY AND THEIR SUCCESSORS AND ASSIGNS, UNDER AND RKED "PUBLIC UTILITY AND DRAINAGE EASEMENT" OR (P.U.D.E.) ON GHT, PRIVILEGE AND AUTHORITY TO CONSTRUCT, RECONSTRUCT, PERATE VARIOUS UTILITY TRANSMISSIONS AND DISTRIBUTION SYSTEMS, SYSTEMS, POTABLE WATER AND INCLUDING STORM AND/OR SANITARY ALL NECESSARY MANHOLES, CATCH BASINS, CONNECTIONS, JRES AND APPURTENANCES AS MAY BE DEEMED NECESSARY BY SAID ID INDICATED EASEMENTS, TOGETHER WITH RIGHT OF ACCESS SSARY MEN AND EQUIPMENT TO DO ANY OF THE ABOVE WORK CUT DOWN, TRIM OR REMOVE ANY TREES, SHRUBS OR OTHER INTERFERE WITH THE OPERATIONS OF THE SEWERS OR OTHER INGS SHALL BE PLACED ON SAID EASEMENTS, BUT SAME MAY BE SHRUBS, LANDSCAPING AND OTHER PURPOSES THAT DO NOT THEN ORESAID USES OR RIGHTS. WHERE AN EASEMENT IS USED BOTH THE OTHER UTILITY INSTALLATION SHALL BE SUBJECT TO THE DOWNERS GROVE.

D AND GRANTED TO THE VILLAGE OF DOWNERS GROVE, COUNTY OF L AUTHORITIES HAVING JURISDICTION OF THE LAND SUBDIVIDED ENT AREA FOR INGRESS. EGRESS AND THE PERFORMANCE OF ENTAL SERVICES, INCLUDING WATER, STORM AND SANITARY SEWER

ASEMENT PROVISIONS

NG THE SUBDIVISION AND OTHER PROPERTY WITH ELECTRIC SERVICE IS HEREBY RESERVED FOR AND GRANTED TO: COMMONWEALTH EDISON COMPANY AND

LEPHONE COMPANY DBA AT&T ILLINOIS, GRANTEES, ICCESSORS AND ASSIGNS JOINTLY AND SEVERALLY, TO CONSTRUCT,

FY, RECONSTRUCT, REPLACE, SUPPLEMENT, RELOCATE AND REMOVE, ANCHORS, WIRES, CABLES, CONDUITS, MANHOLES, TRANSFORMERS, OR OTHER FACILITIES USED IN CONNECTION WITH OVERHEAD AND D DISTRIBUTION OF ELECTRICITY, COMMUNICATIONS, SOUNDS AND DSS, ALONG AND UPON THE SURFACE OF THE PROPERTY SHOWN LINES (OR SIMILAR DESIGNATION) ON THE PLAT AND MARKED "PUBLIC UTILITY EASEMENT", "P.U.E" (OR SIMILAR DESIGNATION), THE DECLARATION OF CONDOMINIUM AND/OR ON THIS PLAT AS ROPERTY DESIGNATED ON THE PLAT AS "COMMON AREA OR AREAS", ON THE PLAT FOR STREETS AND ALLEYS, WHETHER PUBLIC OR HTS TO INSTALL REQUIRED SERVICE CONNECTIONS OVER OR UNDER COMMON AREA OR AREAS TO SERVE IMPROVEMENTS THEREON, OR ON AREA OR AREAS. THE RIGHT TO CUT. TRIM OR REMOVE TREES. ND TO CLEAR OBSTRUCTIONS FROM THE SURFACE AND SUBSURFACE RED INCIDENT TO THE RIGHTS HEREIN GIVEN, AND THE RIGHT TO OPERTY FOR ALL SUCH PURPOSES. OBSTRUCTIONS SHALL NOT BE TIES OR IN, UPON OR OVER THE PROPERTY WITHIN THE DASHED OR SNATION) MARKED "EASEMENT", "UTILITY EASEMENT", "PUBLIC UTILITY DESIGNATION) WITHOUT THE PRIOR WRITTEN CONSENT OF GRANTEES. JCH FACILITIÉS, THE GRADE OF THE SUBDIVIDED PROPERTY SHALL ER SO AS TO INTERFERE WITH THE PROPER OPERATION AND

SHALL HAVE THE MEANING SET FORTH FOR SUCH TERM IN THE CHAPTER 765 ILCS 605/2(C), AS AMENDED FROM TIME TO TIME. REAS" IS DEFINED AS A LOT, PARCEL OR AREA OF REAL PROPERTY, MENT OF WHICH IS RESERVED IN WHOLE OR AS AN APPURTENANCE S, PARCELS OR AREAS WITHIN THE PLANNED DEVELOPMENT, EVEN SIGNATED ON THE PLAT BY TERMS SUCH AS "OUTLOTS", "COMMON 'EN AREA", "COMMON GROUND", "PARKING" AND "COMMON AREA". AREAS", AND "COMMON ELEMENTS" INCLUDE REAL PROPERTY WAYS AND WALKWAYS, BUT EXCLUDES REAL PROPERTY PHYSICALLY OCCUPIED BY A BUILDING, SERVICE BUSINESS DISTRICT OR STRUCTURES SUCH AS A POOL , RETENTION POND OR MECHANICAL EQUIPMENT.

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

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 GRANTED TO THE VILLAGE OF DOWNERS GROVE AND DOWNERS GROVE SANITARY DISTRICT, THEIR RESPECTIVE SUCCESSORS AND ASSIGNS, JOINTLY AND SEPARATELY, TO INSTALL, OPERATE AND MAINTAIN, AND REMOVE, FROM TIME TO TIME, FACILITIES AND EQUIPMENT USED IN CONNECTION WITH THE PUBLIC WATER SUPPLY, TRANSMISSION LINES, SANITARY SEWERS, STORM DRAINAGE SYSTEMS, STREET LIGHTING SYSTEM, OR OTHER PUBLIC UTILITY SERVICE, AND THEIR APPURTENANCES, EITHER ON, OVER, ACROSS, BELOW OR THROUGH THE GROUND SHOWN WITHIN THE DOTTED LINES ON THE PLAT MARKED "PUBLIC UTILITY AND/OR DRAINAGE EASEMENT," OR SIMILAR LANGUAGE DESIGNATING A STORMWATER OR SEWER EASEMENT, AND THE PROPERTY DESIGNED ON THE PLAT FOR STREETS AND ALLEYS, TOGETHER WITH THE RIGHT TO CUT, TRIM OR REMOVE TREES, BUSHES AND ROOTS 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 STORMWATER OR SEWER EASEMENT WITHOUT THE PRIOR WRITTEN CONSENT OF GRANTEES. AFTER INSTALLATION OF ANY SUCH FACILITIES, THE GRADE OF THE SUBDIVIDED PROPERTY SHALL NOT BE ALTERED IN A MANNER SO AS TO INTERFERE WITH THE PROPER OPERATION AND MAINTENANCE THEREOF.

WHEREAS, SAID LOTS WILL BE CONVEYED TO PURCHASERS SUBJECT TO THIS DECLARATION TO THE END THAT THE RESTRICTIONS IMPOSED SHALL INURE TO THE BENEFIT OF EACH AND ALL OF THE PURCHASERS OF SUCH LOTS WHETHER THEY SHALL HAVE BECOME SUCH BEFORE OR AFTER THE DATE THEREOF, AND THEIR RESPECTIVE HEIRS AND ASSIGNS, AND

WHEREAS, THE AFORESAID PROPERTY DESCRIBED ON THE ATTACHED PLAT IS LOCATED ENTIRELY WITHIN THE CORPORATE LIMITS OF THE VILLAGE OF DOWNERS GROVE, ILLINOIS, AND WHEREAS, ALL OF THE PROVISIONS, RESTRICTIONS, CONDITIONS, COVENANTS, AGREEMENTS, AND CHARGES HEREIN CONTAINED SHALL RUN WITH AND BIND ALL OF SAID LOTS AND LAND AND SHALL INURE TO THE BENEFIT OF, AND BE ENFORCEABLE BY THE VILLAGE OF DOWNERS GROVE, ILLINOIS, AND THE OWNERS OR OWNER OF ANY OF THE LOTS OF LAND COMPRISED WITHIN SAID PLAT, AND THEIR RESPECTIVE HEIRS, EXECUTORS, ADMINISTRATORS, SUCCESSORS, GRANTEES AND ASSIGNS.

NOW. THEREFORE, ALL PERSONS, FIRMS OR CORPORATIONS NOW OWNING THE AFORESAID PROPERTY DO COVENANT AND AGREE THAT THEY OR ANY PERSON, FIRM OR CORPORATION HEREAFTER ACQUIRING ANY PROPERTY OR LOTS SHOWN UPON THE ATTACHED PLAT OF SUBDIVISION ARE HEREBY SUBJECTED TO THE FOLLOWING RESTRICTIONS RUNNING WITH SAID PROPERTY TO WHOMSOEVER OWNED, TO WIT: OWNER HEREBY GRANTS TO THE VILLAGE OF DOWNERS GROVE A STORMWATER MANAGEMENT EASEMENT FOR THE USE AND BENEFIT OF THE VILLAGE, OVER THE STORMWATER FACILITIES WITHIN THE PROPERTY AND A RIGHT OF ACCESS TO PRIVATELY-OWNED LAND FOR THE REASONABLE EXERCISE OF THE RIGHTS GRANTED TO THE VILLAGE.

EACH OWNER OR PURCHASER SHALL BE RESPONSIBLE TO INSPECT AND MAINTAIN THE STORMWATER FACILITIES ON THEIR LOT. NO BUILDINGS OR STRUCTURES OF ANY KIND SHALL BE PLACED ON SAID EASEMENT NOR SHALL ANY OTHER CHANGE BE MADE ON THE PROPERTY THAT MIGHT MATERIALLY AFFECT THE PROPERTY MANAGEMENT, OPERATION OR CONTINUED MAINTENANCE OF ANY STORMWATER FACILITY; IMPEDE STORMWATER DRAINAGE IN OR ON THE PROPERTY: NEGATIVELY IMPACT THE WATER QUALITY OF THE STORMWATER FACILITIES; OR MATERIALLY REDUCE THE STORMWATER DETENTION OR RETENTION CAPACITY THEREOF AS PROVIDED IN THE APPROVED PLANS. IN THE EVENT THE VILLAGE DETERMINES, IN ITS SOLE AND ABSOLUTE DISCRETION, THAT THE PROHIBITIONS

OF THE PRECEDING PARAGRAPH HAVE BEEN VIOLATED OR THAT PROPER MAINTENANCE OF THE STORMWATER FACILITIES IS NOT BEING PERFORMED OR THAT PROPER OPERATION OF THE STORMWATER FACILITIES IS NOT OCCURRING, ON THE PROPERTY AT ANY TIME, THE VILLAGE OR ITS CONTRACTORS OR AGENTS, AFTER TEN (10) DAYS PRIOR WRITTEN NOTICE TO THE OWNER, MAY, BUT SHALL NOT BE OBLIGATED TO, ENTER UPON ANY OR ALL OF THE PROPERTY FOR THE PURPOSES OF (A) CORRECTING ANY VIOLATION AND (B) PERFORMING MAINTENANCE WORK ON AND TO THE STORMWATER FACILITIES. IN THE EVENT THAT THE VILLAGE SHALL PERFORM, OR CAUSE TO BE PERFORMED, ANY WORK PURSUANT TO THE STORMWATER MANAGEMENT EASEMENT, THE VILLAGE SHALL HAVE THE RIGHT TO CHARGE THE

OWNER AN AMOUNT SUFFICIENT TO DEFRAY THE ENTIRE COST OF SUCH WORK, INCLUDING ADMINISTRATIVE COSTS. EITHER BEFORE OR AFTER SUCH COST IS INCURRED, IF THE AMOUNT SO CHARGED IS NOT PAID BY THE OWNER WITHIN THIRTY (30) DAYS FOLLOWING A DEMAND IN WRITING BY THE VILLAGE FOR SUCH PAYMENT, SUCH CHARGE, TOGETHER WITH INTEREST AND COSTS OF COLLECTION, SHALL BECOME A LIEN UPON THE PROPERTY AND THE VILLAGE SHALL HAVE THE RIGHT TO COLLECT SUCH CHARGE WITH INTEREST AND COSTS, AND TO ENFORCE SUCH LIEN AS IN FORECLOSURE PROCEEDINGS AS PERMITTED BY IAW

IN WITNESS WHEREOF, THE OWNERS HAVE SET THEIR HANDS UPON THE ATTACHED PLAT THE DAY AND DATE FIRST WRITTEN THEREON.

DATED THIS _____ DAY OF _____, A.D., 20____

OWNER

OWNER

NOTARY PUBLIC

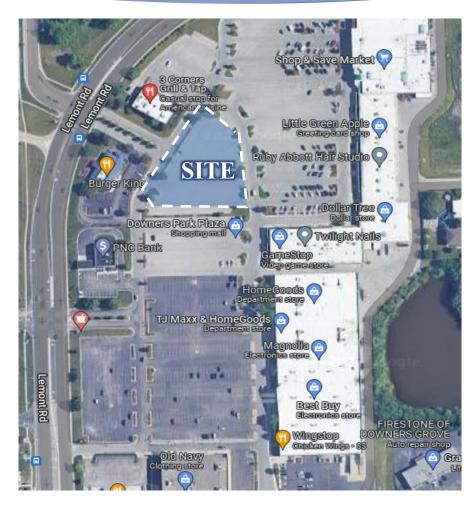
MY COMMISSION EXPIRES: _____

WARNING

			CALL BEFORE YOU DIG 800-892-0123
	THIS PLAT HAS BEEN SUBMITTED FOR RECORDING BY AND RETURN TO: NAME: ADDRESS:	Z	
PARCEL NUMBER (PIN):		EVISION	
09-29-110-007		R	NTS
SURVEYOR'S NOTES: 1. "M." DESIGNATES MEASURED DIMENSION/BEARING, "R." 2. DISTANCES ARE SHOWN IN FEET AND DECIMAL PARTS 3. NO DIMENSION SHALL BE ASSUMED BY SCALE MEASURE 4. THE BASIS OF MEASURED BEARINGS AND HORIZONTAL STATE PLANE COORDINATE SYSTEM EAST ZONE (NAD 83). COORDINATE SYSTEM BY GPS OBSERVATIONS AND OBSERV NATIONAL GEODETIC SURVEY CONTINUOUSLY OPERATING R	THEREOF. EMENT HEREON. DATUM SHOWN HEREON IS THE ILLINOIS SAID BEARINGS ORIGINATED FROM SAID (ATIONS OF SELECTED STATIONS IN THE EFERENCE STATION (NGS CORS) NETWORK.		22 PER COMMENTS
 IRON PIPES OR SURVEYOR'S NAIL ARE SET AT ALL LOT ALL EASEMENTS ARE HERETOFORE DEDICATED UNLESS ALL EASEMENTS DEPICTED ON THE PLAT MAP ARE FOR NOTED. 	OTHERWISE NOTED.	DATE	08/23/
8. THE PROPERTIES DEPICTED ON THIS PLAT IDENTIFIED A AND BURDENED BY BLANKET EASEMENTS MORE PARTICULA DECLARATION OF EASEMENTS AND RESTRICTIONS BY PMAT 20, RECORDED AS DOCUMENT NUMBER	ARLY DESCRIBED IN THAT CERTAIN	Ö	1.
AREA OF SURVEY: 915,211 S.F. OR 21.010 ACRES (MORE OR LESS)		541,	12/2 SHOW
913,211 S.F. ON 21.010 ACRES (MORE OR LESS)		io –∣ 0	077 AS SRK SRK SRK
DRAINAGE CERTIFICATE		ROJE	DATE Scale Des. Dr. CKD.
STATE OF ILLINOIS)) SS COUNTY OF DUPAGE)			
THE OWNER OF THE LAND DEPICTED HEREON OR HIS DUL STATE, THAT TO THE BEST OF OUR KNOWLEDGE AND BEL MADE FOR COLLECTION AND DIVERSION OF SUCH SURFAC WHICH THE SUBDIVIDER HAS A RIGHT TO USE, AND THAT FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINE LIKELIHOOD OF DAMAGE TO THE ADJOINING PROPERTY BE SUBDIVISION. FURTHER, AS ENGINEER, I HEREBY CERTIFY OF THIS SUBDIVISION OR ANY PART THEREOF IS NOT LOC AREA AS IDENTIFIED BY THE FEDERAL EMERGENCY MANAGE DATED THIS DAY OF, A.D., 20 ILLINOIS REGISTERED PROFESSIONAL ENGINEER STATE REGISTRATION NUMBER	IEF, REASONABLE PROVISION HAS BEEN E WATERS AND PUBLIC AREAS, OR DRAINS SUCH SURFACE WATERS WILL BE PLANNED ERING PRACTICES SO AS TO REDUCE THE CAUSE OF THE CONSTRUCTION OF THE THAT THE PROPERTY WHICH IS THE SUBJECT CATED WITHIN A SPECIAL FLOOD HAZARD	OLPERT, INC.	1815 South Meyers Road Suite 950 Oakbrook Terrace, IL 60181 630.424.9080 FAX: 630.495.3731
REGISTRATION EXPIRATION DATE			
PROPERTY OWNER'S SIGNATURES			
BY: BY: _			
OWNER OR ATTORNEY	OWNER OR ATTORNEY PRINTED NAME		
			▶ ª
SURVEYOR'S CERTIFICATE:		Y	ST AST DIS
) SS COUNTY OF DUPAGE)		PARI	N 11 EA LLINO
I, STEPHEN R. KREGER, ILLINOIS PROFESSIONAL LAND SUF CERTIFY, THAT AT THE REQUEST OF THE OWNER THEREOF FOLLOWING DESCRIBED PROPERTY;			
LOT 2 IN DOWNERS PARK, BEING A SUBDIVISION IN THE S QUARTER OF SECTION 29, TOWNSHIP 38 NORTH, RANGE 1 MERIDIAN, ACCORDING TO THE PLAT OF SUBDIVISION, REC R79—083345, IN DUPAGE COUNTY, ILLINOIS.	1, EAST OF THE THIRD PRINCIPAL	DOWNERS	THE NOR TH, RANG COUNTY VISIC
ALL DIMENSIONS ARE IN FEET OR DECIMALS THEREOF; ½" DIAMETER BY 24" LONG IRON PIPES WILL BE SET AT POINTS OF CURVATURE AND POINTS OF TANGENCY IN CO APPLICABLE ORDINANCES EXCEPT AS NOTED.			ER OF 38 NORT UPAGE JBD
I FURTHER CERTIFY THAT THE PLAT HEREON DRAWN IS A SURVEY AND SUBDIVISION WHICH WAS PREPARED IN ACCO ORDINANCES OF THE VILLAGE OF DOWNERS GROVE, ILLING BELIEF, AND THAT THE MONUMENTATION SHOWN ON THE WILL BE PLACED IN THE GROUND AS INDICATED HEREON CONSTRUCTION OF THE IMPROVEMENTS OR WITHIN 12 MON WHICHEVER SHALL OCCUR FIRST.	ORDANCE WITH PROVISIONS OF APPLICABLE DIS, TO THE BEST OF MY KNOWLEDGE AND FACE OF THIS PLAT HAS BEEN FOUND OR , AFTER THE COMPLETION OF THE	OT 2 IN	ST QUARTER OWNSHIP 38 ERIDIAN, DUP, OF SUF
I FURTHER CERTIFY THAT THE PROPERTY DESCRIBED AND WITHIN THE CORPORATE LIMITS OF THE VILLAGE OF DOWN ADOPTED A COMPREHENSIVE PLAN AND IS EXERCISING TH DIVISION 12 OF ARTICLE 11 OF THE ILLINOIS MUNICIPAL C THIS PROFESSIONAL SERVICE CONFORMS TO THE CURREN	IERS GROVE, ILLINOIS, WHICH HAS IE SPECIAL POWERS AUTHORIZED BY ODE.		НWE 29, Т А Т
I, FURTHER CERTIFY THAT ACCORDING TO THE FLOOD INS			
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WOOLPERT, INC. ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-001393	* 035-002985. *	2	of 2

Traffic and Parking Impact Study Proposed Outlot Parcel

Downers Grove, Illinois



Prepared For:

PMAT DPP LLC



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 proposed outlot parcel to be located within Downers Park Plaza shopping center located in the northeast quadrant of the intersection of 75th Street with Lemont Road in Downers Grove, Illinois. The plans call for a 5,230 square-foot multi-tenant building that will include a 2,087 square-foot. drive-through restaurant and a 3,258 square-foot retail area. The site will occupy an outlot parcel within the shopping center in proximity to the access drive off Lemont Road in alignment with Dunham Road. Access will be provided via the existing access system serving the shopping center.

The purpose of this study was to examine background traffic conditions, assess the impact that the proposed outlot parcel will have on traffic conditions in the area, and determine if any roadway or access improvements are necessary to accommodate the traffic generated by the proposed outlot parcel.

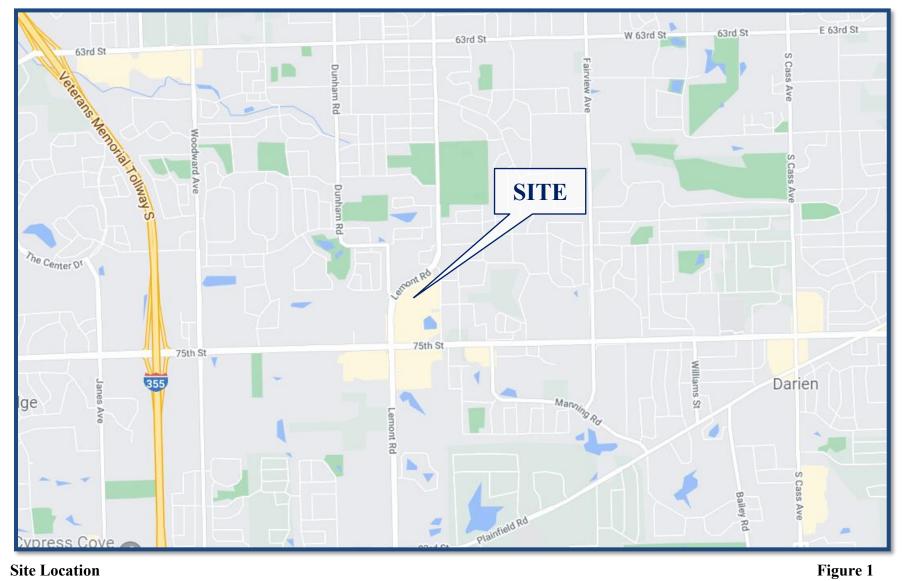
Figure 1 shows the location of the site in relation to the area roadway system. **Figure 2** shows an aerial view of the site. The sections of this report present the following:

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

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

- 1. Base Conditions Analyzes the capacity of the existing roadway system using existing peak hour traffic volumes in the surrounding area adjusted to reflect normal conditions.
- 2. No-Build Conditions Analyzes the capacity of the existing roadway system using base peak hour traffic volumes including ambient traffic growth and other developments in the area.
- 3. Projected Conditions Analyzes the capacity of the future roadway system using the projected traffic volumes that include the base traffic volumes, ambient traffic growth, other developments in the area, and the traffic estimated to be generated by the full buildout of the proposed outlot parcel.

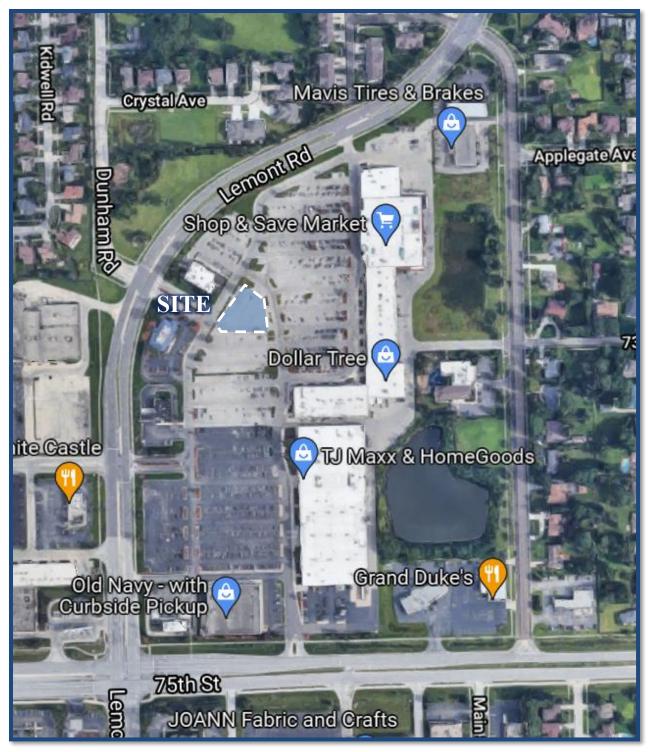




Site Location

Proposed Outlot Parcel Downers Grove, Illinois





Aerial View of Site

Figure 2



2. Existing Conditions

The following provides a detailed description of the physical characteristics of the roadways including geometry and traffic control, adjacent land uses, and peak hour traffic flows along area roadways.

Site Location

The site, which is currently occupied by a surface parking lot, will occupy an outlot parcel located within Downers Park Plaza shopping center located in the northeast quadrant of the intersection of 75th Street with Lemont Road in Downers Grove, Illinois. Land uses in the vicinity of the site are primarily commercial.

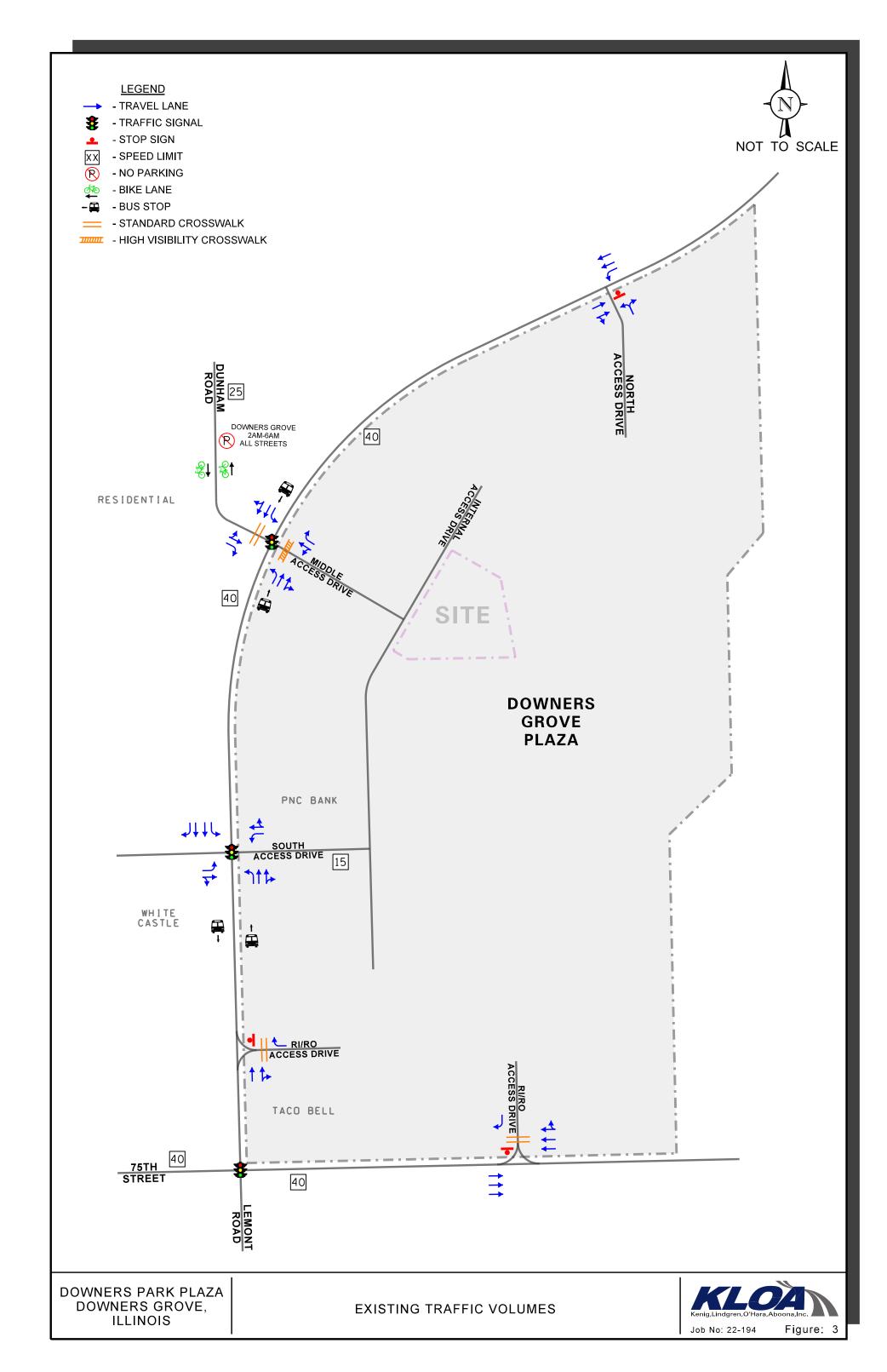
Existing Roadway System Characteristics

The characteristics of the existing roadways that surround the existing Downers Park Plaza are illustrated in **Figure 3** and described below.

Lemont Road is a north-south minor arterial that generally provides two lanes in each direction separated by a raised median in the vicinity of the site. At its signalized intersection with Dunham Road, Lemont Road provides an exclusive left-turn lane, a though lane and a combined through/right-turn lane on the northbound approach. The southbound approach provides an exclusive left-turn lane, a through lane and a combined through/right-turn lane. At its signalized intersection with the main access drive serving Downers Park Plaza, Lemont Road provides an exclusive left-turn lane, a though lane and a combined through/right-turn lane on the northbound approach. The southbound approach provides an exclusive left-turn lane, a through lane and a combined through/right-turn lane. At its unsignalized intersection with the full movement access serving Downers Park Plaza, the northbound approach provides a through lane and a combined through/right-turn lane. The southbound approach provides an exclusive left-turn lane and two through lanes. At its unsignalized intersection with the right-in/right-out access drive serving Downers Park Plaza, Lemont Road provides a through lane and a combined through/right-turn lane on the northbound approach. Lemont Road is under the jurisdiction of DuPage County Division of Transportation (DuDOT) and carries an Annual Average Daily Traffic (AADT) volume of approximately 13,400 vehicles (IDOT 2016). Lemont Road has a posted speed limit of 40 miles per hour.

75th Street is an east-west other principal arterial that generally provides two lanes in each direction separated by a raised median in the vicinity of the site. At its unsignalized intersection with the right-in/right-out access drive serving Downers Park Plaza, 75th Street provides three through lanes on the eastbound approach. The westbound approach provides two through lanes and a combined through/right-turn lane. 75th Street is under the jurisdiction of DuDOT and carries an AADT volume of approximately 32,300 vehicles west of Lemont Road and 31,500 vehicles east of Lemont Road (IDOT 2016). 75th Street has a posted speed limit of 40 miles per hour.





Dunham Road is a north-south major collector that generally provides one travel lane and one bike lane in each direction in the vicinity of the site. At its signalized intersection with Lemont Road, Dunham Road provides an exclusive right-turn lane and a combined through/left-turn lane on the southbound approach. The northbound approach provides a combined through/left-turn lane and a combined through/right-turn lane. A standard style crosswalk is provided on the north leg of this intersection and a high-visibility crosswalk is provided on the south leg of this intersection. Dunham Road is under the jurisdiction of the Village of Downers Grove and has a posted speed limit of 25 miles per hour in the northbound approach and 30 miles per hour in the southbound approach.

Existing Traffic Volumes

In order to determine current traffic conditions in the vicinity of the site, KLOA, Inc. conducted peak period vehicle, pedestrian, and bicycle movement traffic counts on Thursday, September 9, 2021, during the weekday morning (7:00 to 9:00 A.M.) and evening (7:00 to 6:00 P.M.) peak periods and on Saturday, September 11, 2021, during the Saturday midday (12:00 to 2:00 P.M.) peak period at the following intersections:

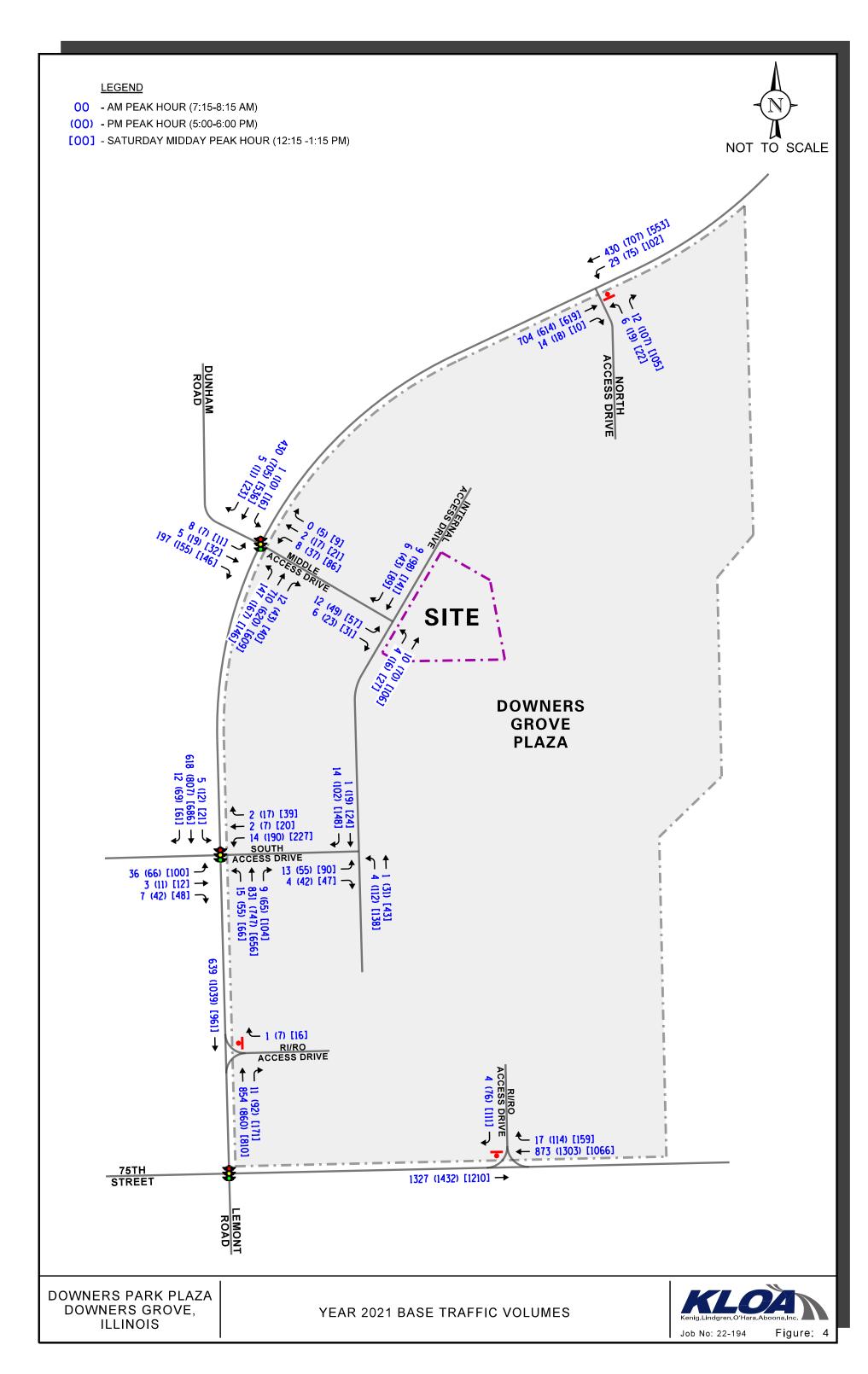
- Lemont Road with the access drives serving Downers Park Plaza
- 75th Street with the right-in/right-out access drive serving Downers Park Plaza
- Two internal intersections off the main access drives off Lemont Road

In order to represent normal conditions, counts were adjusted based on a comparison with the hourly counts previously conducted by KLOA, Inc. in the area and were increased by 10 percent during the weekday morning peak hour and were not increased during the weekday evening and Saturday midday peak hours. The results of the traffic counts showed that the weekday morning peak hour of traffic occurs from 7:15 A.M. to 8:15 A.M., the weekday evening peak hour of traffic occurs from 5:00 P.M. to 6:00 P.M., and the Saturday midday peak hour of traffic occurs from 12:15 P.M. to 1:15 P.M.

Figure 4 illustrates the Year 2021 traffic volumes. Copies of the traffic count summary sheets are included in the Appendix.







Crash Data Analysis

KLOA, Inc. obtained crash data¹ for the past five years (2016 to 2020) for the intersections of Lemont Road with the access drives serving Downers Park Plaza, 75th Street with the right-in/right-out access drive serving Downers Park Plaza and the two internal intersections off the main access drives off Lemont Road. The crash data for the intersections of Lemont Road with Dunham Road and Lemont Road with the right-in/right-out access drive is summarized in **Tables 1** and **2**, respectively. Only eight crashes were reported at the intersection of 75th Street with the right-in/right-out access drive serving Downers Park Plaza, four crashes were reported at the intersection of Lemont Road with the north access drive, four crashes were reported at the intersection of Lemont Road with the south access drive, four crashes were reported at the intersection of the internal access drive with the middle access drive, and four crashes were reported at the intersection of the internal access drive with the south access drive at the intersection of the internal access drive with the south access drive, and four crashes were reported at the intersection of the internal access drive with the south access drive at the intersection of the internal access drive with the south access drive at the intersection of the internal access drive with the south access drive at the intersection of the internal access drive with the south access drive over the five-year period. It should be noted that no fatalities were reported at any studied intersection between 2016 and 2020.

Year	Type of Crash Frequency										
rear	Angle	Head On	Object Rear End		Sideswipe	Turning	Other	Total			
2016	0	0	0	0	1	1	0	2			
2017	0	0	0	0	0	2	0	2			
2018	2	0	1	0	0	1	0	4			
2019	0	0	0	1	0	0	0	1			
2020	<u>0</u>	<u>0</u>	<u>0</u>	<u>2</u>	<u>0</u>	<u>2</u>	<u>0</u>	<u>4</u>			
Total	2	0	1	3	1	6	0	13			
Average	<1.0	0	<1.0	<1.0	<1.0	1.2	0	2.6			

Table 1LEMONT ROAD WITH DUNHAM ROAD – CRASH SUMMARY

¹ IDOT DISCLAIMER: The motor vehicle crash data referenced herein was provided by the Illinois Department of Transportation. Any conclusions drawn from analysis of the aforementioned data are the sole responsibility of the data recipient(s). Additionally, for coding years 2015 to present, the Bureau of Data Collection uses the exact latitude/longitude supplied by the investigating law enforcement agency to locate crashes. Therefore, location data may vary in previous years since data prior to 2015 was physically located by bureau personnel.



LEMONT ROAD WITH RIGHT-IN/RIGHT-OUT ACCESS DRIVE – CRASH SUMMARY

Veer	Type of Crash Frequency											
Year	Angle	Head On	Object Rear End Si		Sideswipe	Turning	Other	Total				
2016	0	0	0	2	0	1	0	3				
2017	0	0	0	1	0	1	1	3				
2018	0	0	0	2	0	1	0	3				
2019	0	0	0	1	0	1	0	2				
2020	<u>0</u>	<u>1</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>3</u>				
Total	0	1	0	7	0	4	2	14				
Average	0	<1.0	0	1.4	0	<1.0	<1.0	2.8				



3. Traffic Characteristics of the Proposed Outlot

To evaluate the impact of the subject development on the area roadway system, it was necessary to quantify the number of vehicle trips the site will generate during the peak hours and then determine the directions from which the proposed traffic will approach and depart the site.

Proposed Site and Site Plan

As proposed, the site will be developed with an approximate 5,230 square-foot multi-tenant building that will include a drive-through restaurant. The site will occupy an outlot parcel within Lot 2 of the shopping center in proximity to the access drive off Lemont Road in alignment with Dunham Road within Downers Park Plaza shopping center. Access to the Downers Park Plaza shopping center is currently provided via the following:

- A full movement access drive on Lemont Road located approximately 825 feet north of Dunham Road. This access drive provides one inbound lane and one outbound lane with outbound movements under stop sign control. Southbound left-turn movements are accommodated via an exclusive southbound left-turn lane.
- A full movement access drive on Lemont Road opposite Dunham Road. This access drive provides one inbound lane and two outbound lanes (striped as an exclusive right-turn lane and a combined through/left-turn lane) with outbound movements under stop sign control. Northbound and southbound left-turn movements are accommodated via an exclusive northbound left-turn lane and an exclusive southbound left-turn lane, respectively.
- A full movement access drive on Lemont Road located approximately 620 feet south of Dunham Road. This access drive provides one inbound lane and two outbound lanes (striped as an exclusive left-turn lane and a combined through/right-turn lane) with outbound movements under stop sign control. Northbound and southbound left-turn movements are accommodated by an exclusive northbound left-turn lane and an exclusive southbound left-turn lane, respectively.
- A right-out only access drive on Lemont Road located approximately 1,000 feet south of Dunham Road. This access drive provides one outbound lane with outbound movements under stop sign control. Left turning movements are physically restricted due to the existing median along Lemont Road.
- A right-out only access drive on 75th Street located approximately 560 feet east of Lemont Road. This access drive provides one outbound lane with outbound movements under stop sign control. Left-turn movements are physically restricted due to the existing median along Lemont Road.



Based on the proposed outlot parcel plan, the following internal connections will be provided:

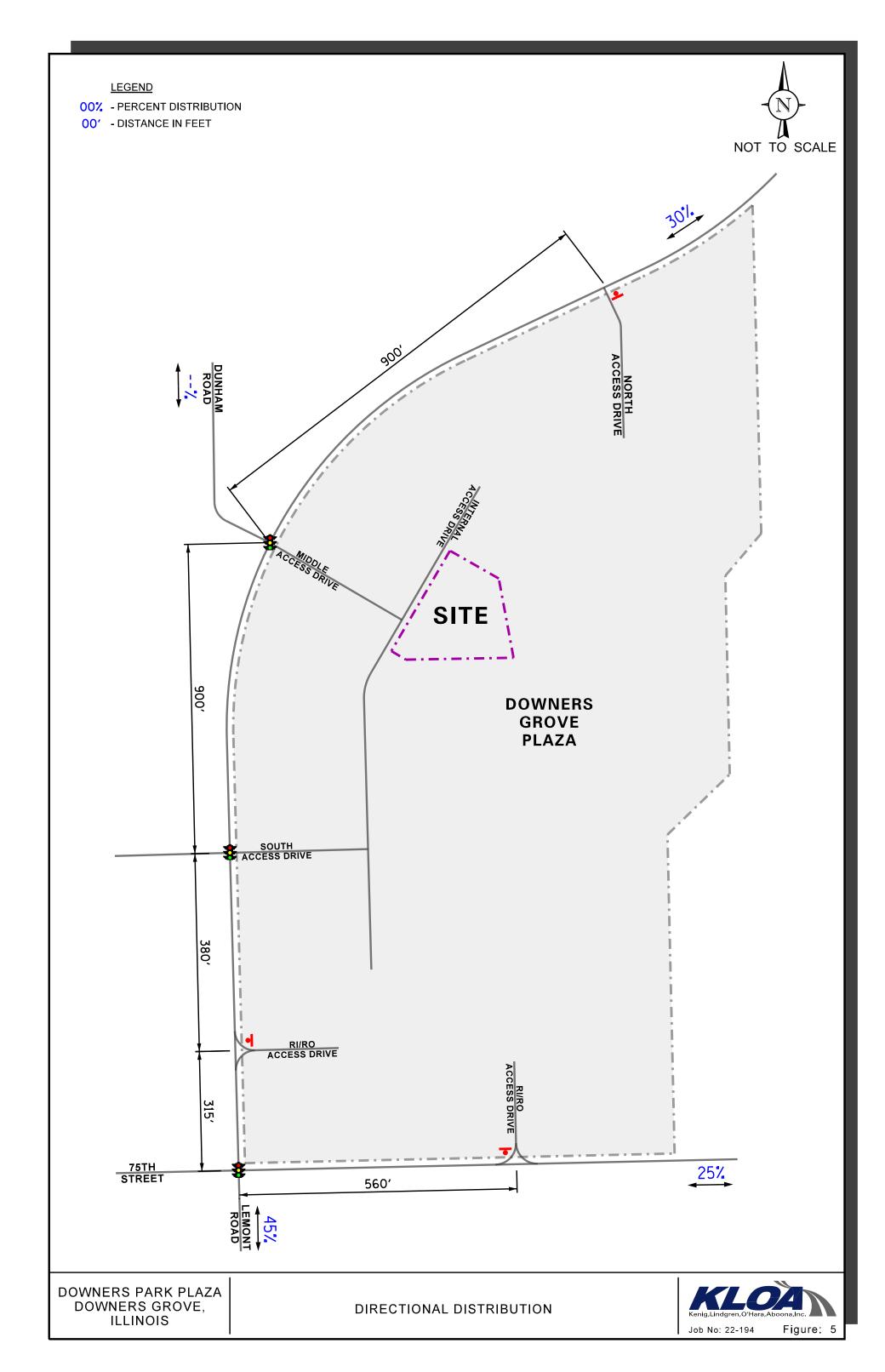
- A proposed two-way drive aisle that connects to an existing one-way eastbound parking aisle along the south side of the site and the existing two-way circulation drive that borders the east side of the site.
- A proposed inbound only access to the drive through lane that is located off of the existing one-way eastbound parking aisle along the south side of the site. Out bound movements from the drive through will exit on to the proposed two-way drive aisle as discussed above.

A copy of the site plan is included in the Appendix.

Directional Distribution of Site Traffic

The directional distribution of how traffic will approach and depart the site was estimated based on the general travel patterns through the study area derived from the peak hour traffic volumes. **Figure 5** shows the established directional distribution for the proposed outlot parcel.





Development Traffic Generation

The estimate of vehicle traffic to be generated by the proposed outlot parcel is based upon the proposed land use types and sizes. The vehicle trip generation for the proposed outlot parcel was calculated using data published in the Institute of Transportation Engineers (ITE) *Trip Generation Manual*, 11th Edition. Land-Use Code 934 (Fast Food Restaurant with Drive Through Window) and Land-Use Code 822 (Strip Retail) was utilized to estimate the trips to be generated by the proposed outlot parcel.

It is important to note that surveys conducted by ITE have shown that approximately 50 percent of trips made to fast-food restaurant uses and 20 percent of trips made to retail uses are diverted from the existing traffic on the roadway system. This is particularly true during the weekday morning and evening peak hours when traffic is diverted from the home-to-work and work-to-home trips. Such diverted trips are referred to as pass-by traffic. As such, a 50 percent pass-by reduction was applied to the trips estimated to be generated by the proposed restaurant and a 20 percent pass-by reduction was applied to the trips estimated to be generated by the retail space within the outlot parcel. It should be noted that internal interaction will occur between the proposed outlot parcel and the existing uses, which will further reduce the estimated trips. As such, a 10 percent interaction reduction was applied to the new trips generated by both uses.

Table 3 shows the estimated vehicle trip generation for the weekday morning, weekday evening, and Saturday midday peak hours and daily trips. The ITE trip generation summary sheets are included in the Appendix.



Table 3

ESTIMATED PEAK HOUR VEHICLE TRIP GENERATION

ITE Land Use	Land Type/Size		Weekday Morning Peak Hour			Weekday Evening Peak Hour			Saturday Midday Peak Hour		
Code		In	Out	Total	In	Out	Total	In	Out	Total	
934	Fast Food Restaurant with Drive-Through (3,258 s.f.)	48	46	94	36	33	69	59	57	116	982
10	% Interaction Reduction	-5	-5	-10	-4	-3	-7	-6	-6	-12	-99
50 % 1	Pass-By Reduction	-21	-21	-42	-16	-16	-32	-26	-26	-52	-442
822	Retail (2,087 s.f.)	5	3	8	17	18	35	11	10	21	178
10	% Interaction Reduction	0	0	0	-2	-2	-4	-1	-1	-2	-18
20 % 1	Pass-By Reduction	-1	-1	-2	-3	-3	-6	-2	-2	-4	-32
To	tal New Trips	26	22	48	28	27	55	26	32	58	569



4. Projected Traffic Conditions

The total projected traffic volumes take into consideration the base traffic volumes, increase in background traffic due to growth, and the traffic estimated to be generated by the proposed outlot parcel.

Development Traffic Assignment

The estimated weekday morning, weekday evening, and Saturday midday peak hour traffic volumes that will be generated by the proposed outlot parcel were assigned to the roadway system in accordance with the previously described directional distribution (Figure 5). Figure 6 illustrates the traffic assignment of the new passenger vehicle trips and Figure 7 illustrates the traffic assignment of the pass-by passenger vehicle trips.

Background Traffic Conditions

The base 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 2050 Average Daily Traffic (ADT) projections provided by the Chicago Metropolitan Agency for Planning (CMAP) in a letter dated September 21, 2021, the existing traffic volumes were increased by an annually compounded growth rate for six years (one-year buildout plus five years) totaling 2.1 percent to represent Year 2027 no-build conditions.

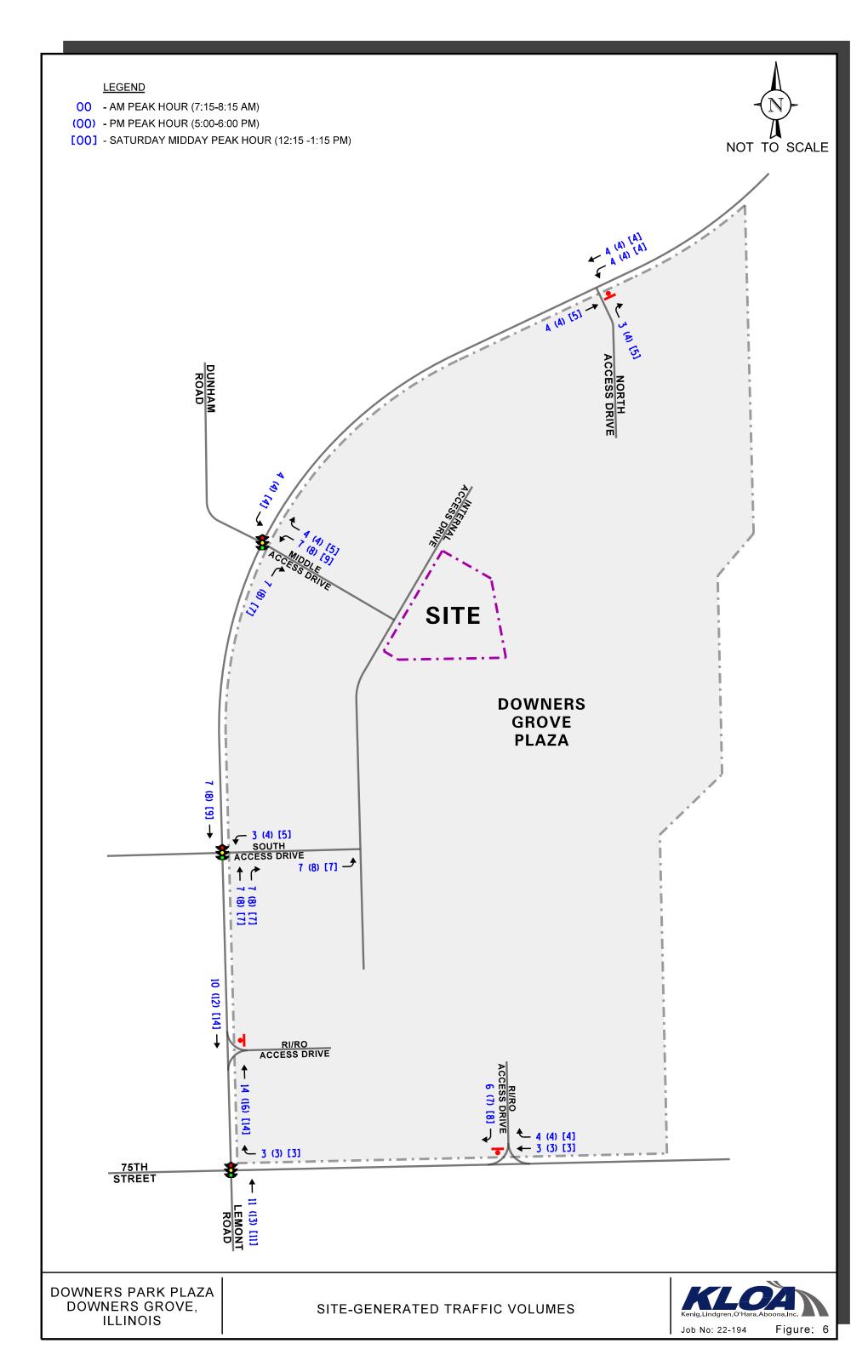
In addition, the traffic to be generated by the currently under construction Panera Bread restaurant located in the Downers Park Plaza shopping center and the full occupancy of Downers Park Plaza was added in the background conditions. It should be noted that Downers Park Plaza contained approximately 33,321 square feet of vacant space at the time the traffic counts were conducted.

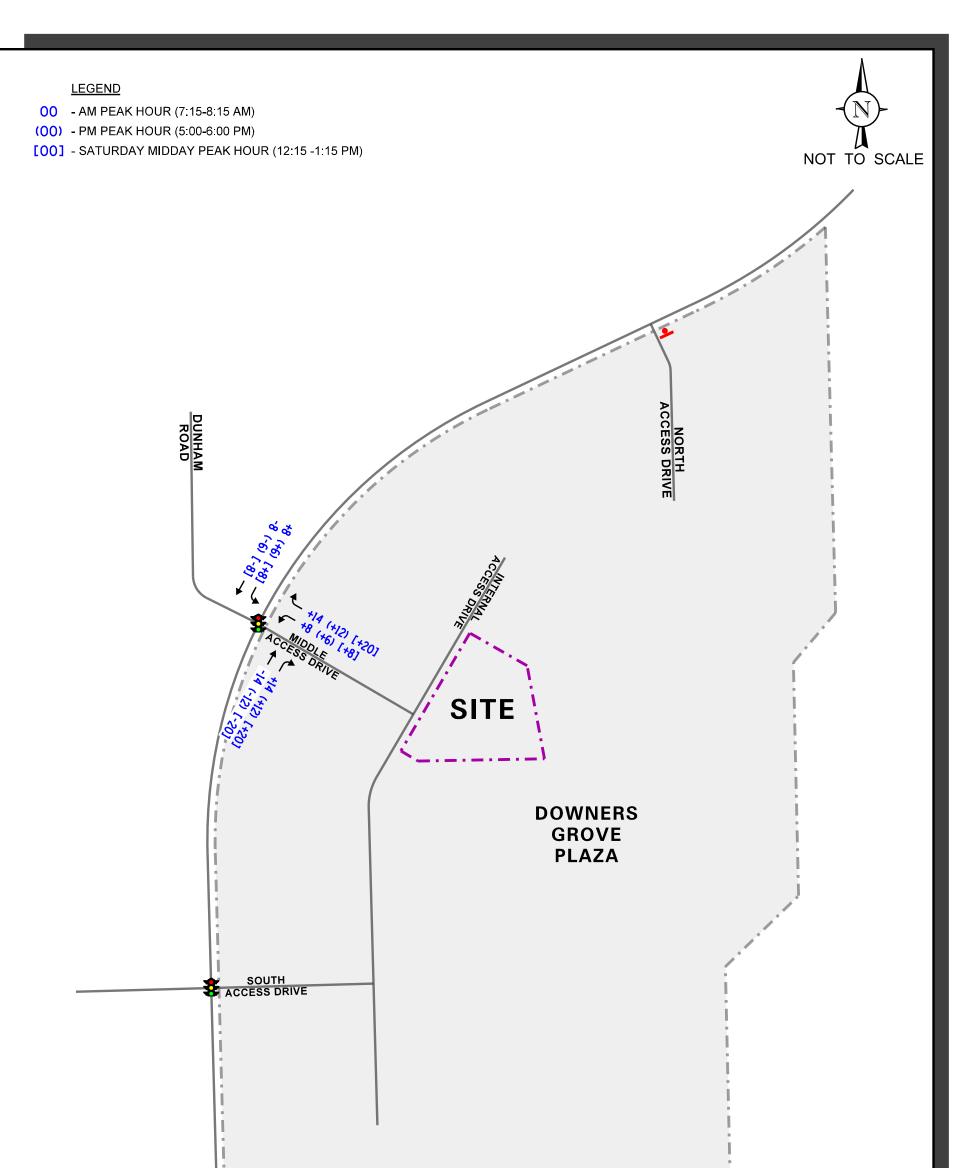
Figure 8 shows the Year 2027 no-build traffic conditions. A copy of the CMAP 2050 projections letter is included in the Appendix.

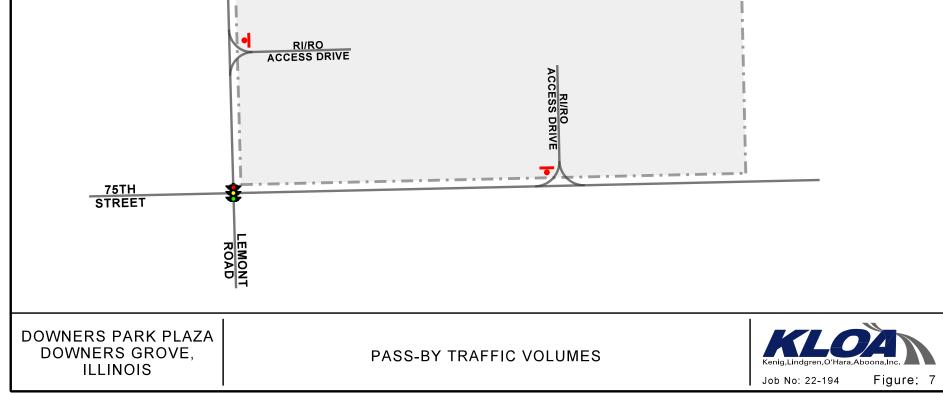
Year 2027 Total Projected Traffic Conditions

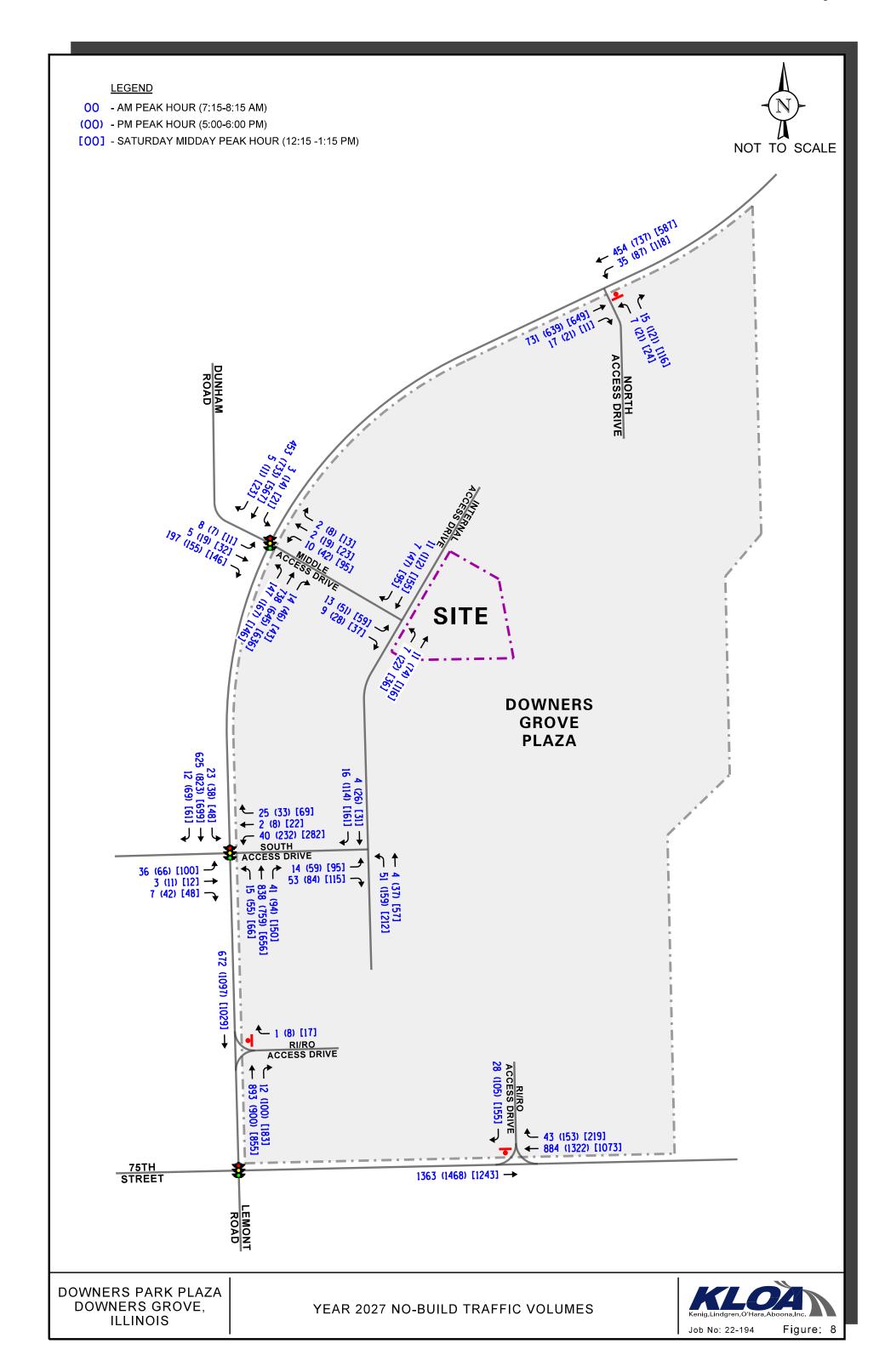
The new and pass-by development-generated traffic (Figures 6 and 7) was added to the no-build traffic volumes (Figure 8) to determine the Year 2027 total projected traffic volumes, which are illustrated in **Figure 9**.

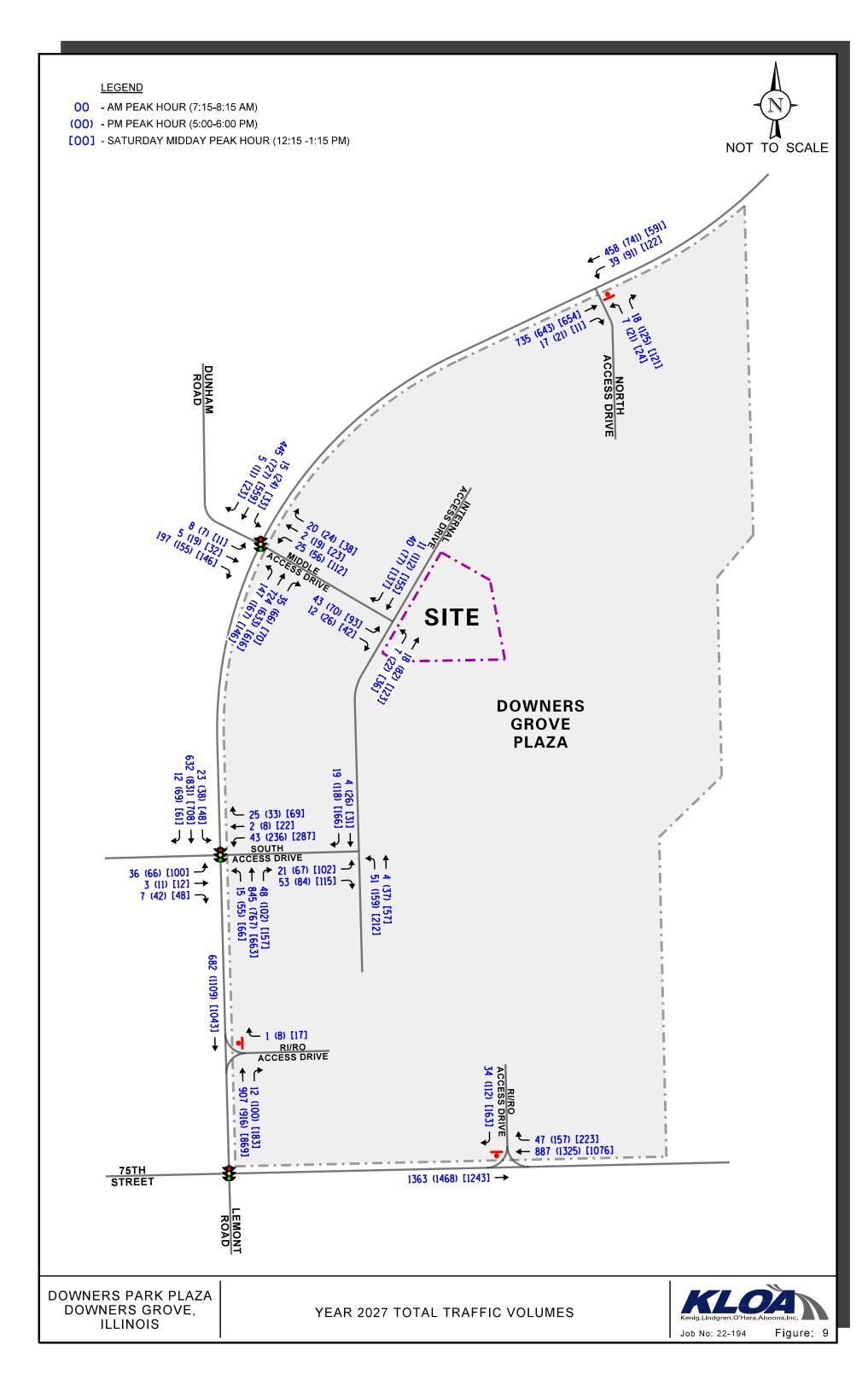












5. Traffic Analysis and Recommendations

The following provides an evaluation conducted for the weekday morning, weekday evening and Saturday midday 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 road improvements or modifications are required.

Traffic Analyses

Roadway and adjacent or nearby intersection analyses were performed for the weekday morning, weekday evening, and Saturday midday peak hours for the base (Year 2021), Year 2027 no-build, and Year 2027 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 fields measures.

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 base, no-build and total projected conditions are presented in **Tables 4** through **8**. A discussion of each intersection follows. Summary sheets for the capacity analyses are included in the Appendix.



Table 4 CAPACITY ANALYSIS RESULTS LEMONT ROAD WITH DUNHAM ROAD / MIDDLE ACCESS DRIVE – SIGNALIZED

		Eastb	ound	Westl	oound	North	ound	South	bound		
	Peak Hour	L/T	R	L/T	R	L	T/R	L	T/R	Overall	
	Weekday	C	С	C	A	A	А	A	B	В	
	Morning Peak Hour	20.8	34.3 33.4	20.7	0.0 20.7	3.8 A –	5.7	6.0	13.4 13.4	11.6	
21 ons		C –	55.4 С	C –	20.7 C				B		
- 20 litid	Weekday Evening	24.2	34.4	26.4	22.8	A 3.8	A 2.5	A 4.9	В 12.3	В	
Year 2021 Conditions	Peak Hour	<u>C – </u>		C –		A –		B-		10.4	
C K	Saturday	С	С	С	С	Α	А	А	В	В	
	Midday	25.4	34.4	32.5	23.3	3.7	3.5	4.7	11.2	Б 11.3	
	Peak Hour		32.4		31.8	A –			11.0	11.5	
p	Weekday	C	С	C	B	A	А	A	В	В	
liu	Morning	20.8	34.3	20.8	20.0	3.2	5.1	6.0	13.5	11.3	
o-B	Peak Hour		33.4	C –		A –		B –			
' Nd itio	Weekday Evening	С 24.2	C 34.4	C 27.0	C 23.0	A 3.5	A 2.0	A 4.9	B 12.5	В	
Year 2027 No-Build Conditions	Peak Hour	C - 33.0					C - 26.5		н.у		10.2
r 2 C(Saturday	С	С	С	С	A	A	A	B	D	
∕ ea	Midday	25.4	34.4	33.9	23.6	3.8	3.5	5.0	11.8	B 11.6	
	Peak Hour	C – 32.4			32.8	A – 3.5		B –	11.6	11.0	
S	Weekday	С	С	С	С	Α	А	А	В	В	
al ion	Morning	20.8	34.3	22.0	21.3	3.3	5.2	6.0	13.5	11.5	
Fot Idit	Peak Hour		33.4		21.7	A –		B –		-	
Year 2027 Total Projected Conditions	Weekday Evening	С 24.2	C 34.4	C 28.1	C 24.2	A 3.5	A 2.1	A 4.8	B 12.4	В	
-20 ed	Evening Peak Hour		<u> </u>		27.2	3.3 A –		4.0 B-		10.5	
ear ect	Saturday	C	C	D	C	A	A A	A	В		
Y	Midday	25.4	34.3	36.8	25.3	3.8	3.5	5.1	11.8	B	
Ч	Peak Hour	C – 32.3		C – 34.3				B –	11.5	12.2	
Letter denot	es Level of Service					T – Through		R – Right Turns	s		



Table 5 CAPACITY ANALYSIS RESULTS LEMONT ROAD WITH SOUTH ACCESS DRIVE – SIGNALIZED

	Deels Hours	Easth	ound	West	bound	North	oound	Se	outhbou	nd	Orvenell
	Peak Hour	L	T/R	L	T/R	L	T/R	L	Т	R	Overall
1 IS	Weekday Morning Peak Hour	С 27.8 С –	C 21.2 26.4	C 26.9 C –	C 25.5 26.6	A 3.0 A –	A 5.7 5.7	A 0.6	A 2.0 A - 1.9	A 0.0	A 5.0
Year 2021 Conditions	Weekday Evening Peak Hour	C 28.0 C –	B 16.6 22.9	D 43.5	B 18.7 40.7	B 12.1 B – 1	B 13.4	A 5.5	A 8.2 A - 7.6	A 0.6	B 14.2
CC Y	Saturday Midday Peak Hour	C 23.2 C –	B 16.6	C 32.6	B 18.0 29.5	A 7.9 B-1	B 11.6	A 3.3	A 7.4 A - 6.7	A 0.2	B 12.8
Build	Weekday Morning Peak Hour	C 29.0 C –	C 21.2	С 24.4	B 15.1 20.7	A 4.8 A –	A 8.5	A 1.9	A 2.7 A - 2.6	A 0.0	A 7.1
Year 2027 No-Build Conditions	Weekday Evening Peak Hour	C 31.8 C –	B 16.6 25.0	D 54.8 D	B 16.0 49.0	B 13.3 B – 1	B 15.3 15.1	A 5.8	A 8.3 A - 7.6	A 0.6	В 16.7
Year 2 Co	Saturday Midday Peak Hour	C 22.2 C –	B 16.6	C 29.7 C –	B 15.7 26.3	A 9.7 B – 1	B 15.0	A 4.6	A 8.9 A - 8.0	A 0.2	B 14.6
Total nditions	Weekday Morning Peak Hour	C 29.0 C –	C 21.2	C 24.6	B 15.1 20.9	A 4.9 A –	A 8.5	A 2.1	A 2.8 A-2.7	A 0.0	A 7.2
Year 2027 Total Projected Conditions	Weekday Evening Peak Hour	C 31.8 C –	B 16.6	Е 56.4 D –	B 16.0 50.4	B 13.3 B – 1	B 15.4 15.2	A 6.1	A 8.6 A - 7.9	A 0.7	B 17.0
Year Project	Saturday Midday Peak Hour	C 21.9 C –	B 16.6	С 29.7	B 15.7 26.3	A 9.8 B-1	В 15.3	A 4.8	A 9.1 A - 8.1	A 0.2	B 14.7
Letter denot	tes Level of Service			L – Left Turns		T – Through		R – Righ			1



CAPACITY ANALYSIS RESULTS UNSIGNALIZED INTERSECTIONS – BASE CONDITIONS

Intersection	Mor	kday ning Hour	Eve	ekday ening Hour	Saturday Midday Peak Hour	
	LOS	Delay	LOS	Delay	LOS	Delay
Lemont Road with North Access E	Drive					
Westbound Approach	В	12.9	В	13.6	В	13.5
• Southbound Left Turns	В	11.2	А	9.2	А	9.3
Lemont Road with Right-In/Right	-Out Acces	s Drive				
• Westbound Right Turns	В	11.6	В	12.0	В	12.1
75 th Street with Right-In/Right-Ou	it Access D	rive				
• Southbound Right Turns	В	13.8	С	20.7	С	19.0
Middle Access Drive with Internal	Drive					
• ICU Level of Service ¹	А	14.0%	А	25.7%	А	33.3%
South Access Drive with Internal l	Drive					
• ICU Level of Service ¹	А	13.5%	А	28.5%	А	35.3%

1 - The operation of this intersection is based on a critical volume to saturation flow (v/s) evaluation also known as the Intersection Capacity Utilization (ICU) method.



CAPACITY ANALYSIS RESULTS UNSIGNALIZED INTERSECTIONS – YEAR 2027 NO-BUILD CONDITIONS

Intersection	Moi	Weekday Morning Peak Hour		Weekday Evening Peak Hour		ırday Iday Hour
	LOS	Delay	LOS	Delay	LOS	Delay
Lemont Road with North Access	Drive					
• Westbound Approach	В	13.2	В	14.4	В	14.3
• Southbound Left Turns	В	11.5	А	9.4	А	9.5
Lemont Road with Right-In/Righ	t-Out Acces	s Drive				
• Westbound Right Turns	В	11.8	В	12.2	В	12.9
75 th Street with Right-In/Right-O	ut Access D	rive				
• Southbound Right Turns	В	14.7	С	24.3	С	23.3
Middle Access Drive with Interna	l Drive					
• ICU Level of Service ¹	А	16.8%	А	27.2%	А	35.4%
South Access Drive with Internal	Drive					
• ICU Level of Service ¹	А	19.7%	А	32.5%	А	41.6%

1 - The operation of this intersection is based on a critical volume to saturation flow (v/s) evaluation also known as the Intersection Capacity Utilization (ICU) method.



CAPACITY ANALYSIS RESULTS UNSIGNALIZED INTERSECTIONS - YEAR 2027 TOTAL PROJECTED CONDITIONS

Intersection	Moi	kday ning Hour	Eve	kday ning Hour	Saturday Midday Peak Hour						
	LOS	Delay	LOS	Delay	LOS	Delay					
Lemont Road with North Access Drive											
Westbound Approach	В	13.1	В	14.5	В	14.4					
• Southbound Left Turns	В	11.6	А	9.4	А	9.6					
Lemont Road with Right-In/Right-Out Access Drive											
Westbound Right Turns	В	11.9	В	12.3	В	13					
75 th Street with Right-In/Right-Ou	t Access D	rive									
• Southbound Right Turns	В	13.7	D	25.2	С	24.3					
Middle Access Drive with Internal	Drive										
• ICU Level of Service ¹	А	17.1%	А	30.3%	А	40.1%					
South Access Drive with Internal D	Drive										
• ICU Level of Service ¹	А	19.7%	А	33.1%	А	42.3%					
LOS = Level of Service Delay is measured in seconds. 1 - The operation of this intersection is base Intersection Capacity Utilization (ICU) meth		al volume to	saturation flo	ow (v/s) evalu	ation also kn	own as the					



Discussion and Recommendations

The following is an evaluation of the analyzed intersections based on the projected traffic volumes and the capacity analyses performed.

Lemont Road with Dunham Road and Middle Access Drive

The results of the capacity analysis indicate that overall this intersection currently operates at Level of Service (LOS) B during the weekday morning, weekday evening, and Saturday midday peak hours. All approaches currently operate at LOS C or better during the peak hours.

Under Year 2027 no-build conditions, overall this intersection will continue to operate at the same existing levels of service during the weekday morning, weekday evening, and Saturday midday peak hours with increases in delay of less than one second. All approaches will continue to operate at the same existing levels of service during the peak hours with increases in delay of approximately one second with the exception of the westbound right-turn movement, which will operate at LOS B.

Under Year 2027 total projected conditions, overall this intersection will continue to operate at the same levels of service during the weekday morning, weekday evening, and Saturday midday peak hours with increases in delay of less than one second over no-build conditions. All approaches will continue to operate at the same levels of service during the peak hours with increases in delay of approximately one second with the exception of the westbound right-turn movement, which is projected to operate at LOS C during the weekday morning peak hour with an increase in delay of one second and it will continue to operate at LOS C during the Saturday midday peak hour with an increase in delay of less than two seconds over no-build conditions. The shared left-turn/through lane is projected to operate at LOS D with an increase in delay of approximately three seconds during the Saturday midday peak hour over no-build conditions. Based on field observations, the westbound lanes should be restriped. Therefore, this intersection has sufficient reserve capacity to accommodate the traffic estimated to be generated by the proposed outlot parcel and no roadway or traffic control improvements will be required.

Lemont Road with South Access Drive

The results of the capacity analysis indicate that overall this intersection currently operates at LOS A during the weekday morning peak hour and LOS B during the weekday evening and Saturday midday peak hours. All approaches currently operate at an acceptable LOS D or better during the peak hours.

Under Year 2027 no-build conditions, overall this intersection will continue to operate at the same existing levels of service during the weekday morning, weekday evening, and Saturday midday peak hours with increases in delay of approximately two seconds. All approaches will continue to operate at the same existing levels of service during the peak hours with increases in delay of approximately three seconds.



Under Year 2027 total projected conditions, overall this intersection will continue to operate at the same levels of service during the weekday morning, weekday evening, and Saturday midday peak hours with increases in delay of less than one second over no-build conditions. All approaches will continue to operate at the same levels of service during the peak hours with increases in delay of less than one second over no-build conditions. All approaches will continue to operate at the same levels of service during the peak hours with increases in delay of less than one second with the exception of the westbound left-turn movement, which is projected to operate on the threshold of LOS D/E during the weekday evening peak hour with an increase in delay of approximately two seconds. Based on a review of the simulation, the westbound queues extend beyond the south leg of the internal intersection during the weekday evening peak hour. However, it is important to note that the queues will clear with every green phase.

Based on field observations, the westbound lanes should be restriped. Therefore, this intersection has sufficient reserve capacity to accommodate the traffic estimated to be generated by the proposed outlot parcel and no roadway or traffic control improvements will be required.

Lemont Avenue with North Access Drive

The results of the capacity analysis indicate that the westbound approach currently operate at LOS B during the weekday morning, weekday evening, and Saturday midday peak hours. In addition, the southbound left turning movements currently operates at LOS B or better during the peak hours.

Under Year 2027 no-build conditions, the westbound approach and the southbound left-turn movements will continue to operate at the same existing levels of service with increases in delay of less than one second.

Under Year 2027 total projected conditions, the westbound approach and the southbound left turning movements will continue to operate at the same levels of service during the weekday morning, weekday evening, and Saturday midday peak hours with increases in delay of less than one second over no-build conditions. As such, this intersection has sufficient reserve capacity to accommodate the traffic estimated to be generated by the proposed outlot parcel and no roadway or traffic control improvements will be required.

Lemont Avenue with Right-Out Only Access Drive

The results of the capacity analysis indicate that the outbound movements are operating at LOS B during the weekday morning, weekday evening, and Saturday midday peak hours.

Under Year 2027 no-build conditions, all movements will operate at the same existing levels of service during all three peak hours with increases in delay of less than one second.

Under Year 2027 total projected conditions, all movements will operate at the same levels of service during the peak hours with increases in delay of less than one second over no-build conditions. As such, this access drive will be adequate in accommodating the traffic estimated to be generated by the proposed outlot parcel and will ensure efficient and flexible access is provided.



75th Street with Right-Out Only Access Drive

The results of the capacity analysis indicate that the outbound movements are operating at LOS B during the weekday morning peak hour and LOS C during the weekday evening and Saturday midday peak hours.

Under Year 2027 no-build conditions, all movements will operate at the same existing levels of service during the peak hours with increases in delay of less than one second.

Under Year 2027 total projected conditions, all movements will operate at the same levels of service during all three peak hours with increases in delay of approximately one second over nobuild conditions. As such, this access drive will be adequate in accommodating the traffic estimated to be generated by the proposed outlot parcel and will ensure efficient and flexible access is provided.

Middle Access Drive with Internal Drive

Because of the traffic control configuration of this intersection where the eastbound traffic is free flow and the other two approaches are under stop sign control, the intersection could not be analyzed using HCM procedures. This intersections traffic control is designed to allow eastbound movements to operate under free flow conditions in order to keep eastbound queues from extending onto the middle access drive. Given this traffic control configuration and the limitations of the HCM procedures, the intersection was analyzed using the intersection capacity utilization (ICU) level of service. The ICU indicates how much reserve capacity is available or how much an intersection is over capacity.

Based on the ICU analysis, the intersection currently utilizes approximately 14 percent of the capacity of the intersection during the weekday morning peak hour and approximately 25 to 33 percent of its capacity during the weekday evening and Saturday midday peak hours.

Under Year 2027 no-build conditions, it is projected that the intersection will utilize approximately 17 percent of its capacity during the weekday morning peak hour and 27 to 35 percent of its capacity during the weekday evening and Saturday midday peak hours.

Under Year 2027 total projected conditions, it is projected that the intersection will utilize approximately 17 percent of its capacity during the weekday morning peak hour and 30 to 40 percent of its capacity during the weekday evening and Saturday midday peak hours. As a result, the intersection will continue to operate efficiently and with minimal delay. As such, this intersection has sufficient reserve capacity to accommodate the traffic estimated to be generated by the proposed development and no roadway or traffic control improvements will be required.



South Access Drive with Internal Drive

Because of the traffic control configuration of this intersection where the eastbound traffic is free flow and the other two approaches are under stop sign control, the intersection could not be analyzed using HCM procedures. This intersection's traffic control is designed to allow eastbound movements to operate under free flow conditions in order to keep eastbound queues from extending onto the middle access drive. Given this traffic control configuration and the limitations of the HCM procedures, the intersection was analyzed using the intersection capacity utilization (ICU) level of service. The ICU indicates how much reserve capacity is available or how much an intersection is over capacity.

Based on the ICU analysis, the intersection currently utilizes approximately 14 percent of the capacity of the intersection during the weekday morning peak hour and approximately 29 to 35 percent of its capacity during the weekday evening and Saturday midday peak hours. Under Year 2027 no-build conditions, it is projected that the intersection will utilize approximately 20 percent of its capacity during the weekday morning peak hour and 32 to 42 percent of its capacity during the weekday morning peak hours.

Under Year 2027 total projected conditions, it is projected that the intersection will utilize approximately 20 percent of its capacity during the weekday morning peak hour and 33 to 42 percent of its capacity during the weekday evening and Saturday midday peak hours. As a result, the intersection will continue to operate efficiently and with minimal delay. As such, this intersection has sufficient reserve capacity to accommodate the traffic estimated to be generated by the proposed development and no roadway or traffic control improvements will be required.

On-Site Circulation and Drive-Through Stacking

The drive-through facility for the proposed outlot parcel will extend along the east and the north sides of the building. As proposed, vehicles will enter the drive-through lane at the southeast corner of the site and exit at the northwest corner of the building. A review of the site plan indicated that approximately eight vehicles will be able to be accommodated within the drive-through lane without blocking the access drives or internal circulation. The stacking of eight vehicles meets the stacking requirement in the Village of Downers Grove municipal code. Additionally, per the municipal code, the proposed location of the ordering board should be at least three vehicles from the pick-up window.

Appropriate wayfinding signs and striping should be provided within the site directing customers to and from the entrance of the drive-through lane. "Do Not Enter" signs should be placed at the exit of the drive-through lane to deter opposing traffic from entering the drive-through lane from the one-way exit direction. Additionally, the exiting movements from the drive-through lane should be under stop sign control.



Parking Evaluation

The following describes the results of a parking evaluation conducted for the Downers Park Plaza taking into consideration the existing parking demand and parking demand generated by existing, proposed, and vacant uses within the shopping center.

Existing Parking Demand

Parking inventory and occupancy surveys were conducted in the parking lots serving Downers Park Plaza. The surveys were performed every hour from 8:00 A.M. to 8:00 P.M. on Wednesday, September 1, 2021 and Saturday, September 11, 2021. The surveys were broken out by rows as shown in **Figure 10**. The results of the parking inventory and occupancy surveys are shown in **Tables 9** and **10**.

Downers Park Plaza has a total of 1,405 parking spaces and had a peak parking demand of 448 vehicles on Thursday at 1:00 P.M. and 481 vehicles on Saturday at 12:00 P.M. With a total of 1,405 parking spaces parking spaces available, approximately 32 percent of the parking spaces were occupied during the plaza's peak parking demand on Thursday and approximately 34 percent of the parking spaces were occupied during the plaza's peak parking the plaza's peak parking demand on Saturday.

Projected Parking Demand

The projected parking demand of Downers Park Plaza was determined as follows:

- The estimated parking demand of the proposed outlot was based on the Village of Downers Grove Municipal Code (ratio of 10 spaces per 1,000 square-foot for the restaurant and 4 spaces per 1000 square-foot for retail) which is higher than the rates provided in the Institute of Transportation Engineers *Parking Generation Manual*, 5th Edition. The hourly distribution for proposed outlot was also based on the Village of Downers Municipal Code **Table 11** summarizes the hourly distribution of parking demand for the proposed outlot.
- The estimated parking demand of the proposed Panera Bread restaurant was based on the Village of Downers Grove Municipal Code (ratio of 10 spaces per 1,000 square-foot) which is higher than the rates provided in the Institute of Transportation Engineers *Parking Generation Manual*, 5th Edition. The hourly distribution for proposed Panera Bread restaurant was also based on the Village of Downers Municipal Code. **Table 12** summarizes the hourly distribution of parking demand for the Panera Bread restaurant with a drive-through window.
- The estimated parking demand of the vacant space was based on the Village of Downers Grove Municipal Code (ratio of four spaces per 1,000 square-foot), which is higher than the rates provided in the Institute of Transportation Engineers *Parking Generation Manual*, 5th Edition. The hourly distribution for vacant space was also based on the Village of Downers Municipal Code. **Table 13** summarizes the hourly distribution of parking demand for the vacant space.





Parking Occupancy Surveys

Figure 10

Table 9EXISTING PARKING SURVEYS – THURSDAY, SEPTEMBER 9, 2021

							Pa	arkin	g Lo	ots								Percent
Time	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total	Occupied
8:00 AM	1	0	0	6	1	24	42	15	0	11	8	10	0	1	25	3	147	10%
9:00 AM	4	0	1	12	4	51	47	15	1	22	21	10	0	1	22	5	216	15%
10:00 AM	5	0	1	21	4	61	61	21	1	44	63	11	1	1	22	7	324	23%
11:00 AM	12	0	2	26	6	76	78	20	0	55	79	10	2	1	20	5	392	28%
12:00 PM	31	0	2	28	2	82	80	22	2	47	79	12	2	1	14	5	409	29%
1:00 PM	24	0	2	31	3	83	75	22	0	61	108	14	3	0	17	5	448	32%
2:00 PM	22	0	0	24	3	87	61	21	1	50	103	14	4	0	15	4	409	29%
3:00 PM	18	0	0	21	2	78	49	22	2	49	94	14	2	0	15	5	371	26%
4:00 PM	29	0	0	22	3	76	51	20	0	45	90	14	5	0	15	3	373	27%
5:00 PM	44	0	0	20	5	72	53	18	0	32	72	15	4	0	11	3	349	25%
6:00 PM	55	0	1	14	4	62	38	17	1	37	91	13	4	0	12	4	353	25%
7:00 PM	45	0	1	8	3	45	29	7	0	38	76	12	4	0	12	3	283	20%
8:00 PM	52	0	0	7	5	32	27	4	0	33	54	11	2	0	13	3	243	17%
Inventory	65	0	13	187	143	201	222	41	0	95	249	101	33	13	42	0	1405	



EXISTING PAR		1 20k	VEI	5 – SA	TUR	DAI,				/	121							
T:							Pa	arkin	g Lo	ots							T-4-1	Percent
Time	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total	Occupied
8:00 AM	0	0	0	7	1	24	34	13	0	8	9	10	0	0	18	3	127	9%
9:00 AM	0	0	1	7	1	48	47	12	1	10	16	11	0	0	20	3	177	13%
10:00 AM	2	0	0	12	3	67	61	16	2	38	75	13	1	0	15	5	310	22%
11:00 AM	10	0	0	12	4	80	76	17	0	42	95	14	1	0	13	4	368	26%
12:00 PM	29	0	1	23	4	97	103	16	1	51	123	15	1	0	11	6	481	34%
1:00 PM	28	0	0	24	3	82	91	16	2	47	115	15	4	1	15	4	447	32%
2:00 PM	38	0	1	30	2	69	79	15	1	52	142	20	5	1	11	5	471	34%
3:00 PM	37	0	1	26	5	70	68	11	1	52	138	17	4	0	10	5	445	32%
4:00 PM	35	0	0	27	6	67	54	4	2	41	124	13	3	0	11	5	392	28%
5:00 PM	39	0	0	26	5	65	47	3	0	35	102	13	4	0	12	4	355	25%
6:00 PM	42	0	0	15	3	49	40	3	1	31	83	14	4	0	13	3	301	21%
7:00 PM	45	0	0	15	7	41	36	1	0	30	62	12	4	0	11	3	267	19%
8:00 PM	50	0	0	10	6	30	34	2	1	29	36	12	2	0	10	2	224	16%
Inventory	65	0	13	187	143	201	222	41	0	95	249	101	33	13	42	0	1405	

Table 10EXISTING PARKING SURVEYS – SATURDAY, SEPTEMBER 11, 2021



Time Period	Weekday	Weekend
8:00 AM	24	28
9:00 AM	24	28
10:00 AM	24	28
11:00 AM	24	28
12:00 AM	24	28
1:00 PM	24	28
2:00 PM	24	28
3:00 PM	24	28
4:00 PM	24	28
5:00 PM	24	28
6:00 PM	33	29
7:00 PM	33	29
8:00 PM	33	29

Table 11PROJECTED OUTLOT HOURLY PARKING DEMAND



PROJECTED PANERA BREAD	D HOURLY PARKING DEMAN	ND
Time Period	Weekday	Weekend
8:00 AM	27	27
9:00 AM	27	27
10:00 AM	27	27
11:00 AM	27	27
12:00 AM	27	27
1:00 PM	27	27
2:00 PM	27	27
3:00 PM	27	27
4:00 PM	27	27
5:00 PM	27	27
6:00 PM	39	39
7:00 PM	39	39
8:00 PM	39	39

Table 12PROJECTED PANERA BREAD HOURLY PARKING DEMAND



Time Period	Weekday	Weekend
8:00 AM	93	133
9:00 AM	93	133
10:00 AM	93	133
11:00 AM	93	133
12:00 AM	93	133
1:00 PM	93	133
2:00 PM	93	133
3:00 PM	93	133
4:00 PM	93	133
5:00 PM	93	133
6:00 PM	120	80
7:00 PM	120	80
8:00 PM	120	80

Table 13VACANT RETAIL SPACE HOURLY PARKING DEMAND



Projected Parking Demand Results

Tables 14 and **15** show the total projected parking demand of Downers Park Plaza based on the following:

- The existing hourly parking demand.
- The hourly parking demand estimated to be generated by the proposed outlot.
- The hourly parking demand estimated to be generated by the proposed Panera Bread.
- The hourly parking demand estimated to be generated by the full occupancy of Downers Park Plaza.

It should be noted that the number of parking spaces will be reduced by 101 parking spaces with the buildout of the currently under construction Panera Bread restaurant and will be reduced by 35 parking spaces with the buildout of the outlot resulting in a net parking supply of 1269 parking spaces.

The following summarizes the results of the projected parking demand:

- *Weekday Peak Parking Demand*. Downers Park Plaza is estimated to have a peak parking demand of approximately 592 vehicles (47 percent) on a Thursday at 1:00 P.M.
- *Weekend Peak Parking Demand*. Downers Park Plaza is estimated to have a peak parking demand of approximately 669 vehicles (53 percent) on a Saturday at 12:00 P.M.

Based on the projected parking demand it can be seen that the proposed parking supply will be sufficient accommodating the future parking demand, including the proposed outlot parcel.



PROJECTE	D HOURLY PARK	ING OCCUPANCY - V	VEEKDA	Y		
Time	Existing Surveys	Under Construction Panera Bread	Vacant Space	Proposed Outlot	Total	Percent Occupied
8:00 AM	147	27	93	24	291	23%
9:00 AM	216	27	93	24	360	28%
10:00 AM	324	27	93	24	468	37%
11:00 AM	392	27	93	24	536	42%
12:00 PM	409	27	93	24	553	44%
1:00 PM	448	27	93	24	592	47%
2:00 PM	409	27	93	24	553	44%
3:00 PM	371	27	93	24	515	41%
4:00 PM	373	27	93	24	517	41%
5:00 PM	349	27	93	24	493	39%
6:00 PM	353	39	120	33	545	43%
7:00 PM	283	39	120	33	475	37%
8:00 PM	243	39	120	33	435	34%
Inventory					1,269	

Table 14
PROJECTED HOURLY PARKING OCCUPANCY - WEEKDAY



Time	Existing Surveys	Under Construction Panera Bread	Vacant Space	Proposed Outlot	Total	Percent Occupied
8:00 AM	127	27	133	28	315	25%
9:00 AM	177	27	133	28	365	29%
10:00 AM	310	27	133	28	498	39%
11:00 AM	368	27	133	28	556	44%
12:00 PM	481	27	133	28	669	53%
1:00 PM	447	27	133	28	635	50%
2:00 PM	471	27	133	28	659	52%
3:00 PM	445	27	133	28	633	50%
4:00 PM	392	27	133	28	580	46%
5:00 PM	355	27	133	28	543	43%
6:00 PM	301	39	80	29	449	35%
7:00 PM	267	39	80	29	415	33%
8:00 PM	224	39	80	29	372	29%
Inventory					1,269	

Table 15 PROJECTED HOURLY PARKING OCCUPANCY - SATURDAY



6. Conclusion

Based on existing conditions and the traffic capacity analyses, the findings and recommendations of this study are outlined below:

- The volume of traffic estimated to be generated by the proposed outlot parcel will be reduced due to pass-by trips and internal capture.
- The results of the capacity analysis indicate that the traffic that will be generated by the proposed outlot parcel will not have a significant impact on the area roadways.
- The access system serving Downers Park Plaza will ensure an adequate and flexible access system is provided to accommodate the traffic that will be generated by the proposed outlot parcel.
- The site plan provides for efficient circulation and adequate stacking of 8 vehicles for the proposed drive through restaurant within the outlot parcel.
- Appropriate wayfinding signs and striping should be provided within the site directing customers to and from the entrance of the drive-through lane.
- "Do Not Enter" signs should be placed at the exit of the drive-through lane to deter opposing traffic from entering the drive-through lane from the one-way exit direction.
- Exiting movements from the drive-through lane should be under stop sign control.
- Based on field observations, the westbound lanes should be restriped at the signalized access drives serving Downers Park Plaza.



Appendix

Traffic Count Summary Sheets Site Plan CMAP 2050 Projections Letter Level of Service Criteria Capacity Analysis Summary Sheets

Traffic Count Summary Sheets

95 / 5 W. Higgins Kd., Suite 400 Rosemont, Illinois, United States 60018 (847)518-9990 kpachowicz@kloainc.com

Count Name: Old Sutton Rd with Penny Rd Site Code: Start Date: 10/13/2021 Page No: 1

		Int. Total	71	80	78	97	326	91	54	44	43	232		84	89	67	84	324	92	86	75	74	327	1209			1145	94.7	13	1.1	21	1.7	29	2.4	-
		App. Total	6	6	11	18	47	18	6	8	5	37		13	7	10	10	40	14	10	9	4	34	158	,	13.1	152	96.2	0	0.0	6	3.8	0	0.0	0
		Peds	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	1		,			,					
	on Rd ound	Right	0	0	0	0	0	0	0	+	0	.		1	0	0	1	2	0	0	0	0	0	3	1.9	0.2	3	100.0	0	0.0	0	0.0	0	0.0	0
	Old Sutton Rd Southbound	Thru	3	5	6	12	29	15	5	3	3	26		6	5	5	4	20	8	9	-	4	19	94	59.5	7.8	89	94.7	0	0.0	5	5.3	0	0.0	0
		Left	9	4	2	9	18	3	1	4	2	10		6	2	5	5	18	6	4	5	0	15	61	38.6	5.0	60	98.4	0	0.0	-	1.6	0	0.0	0
		U-Tum	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	-	0		0		0		0
		App. Total	8	12	13	17	50	11	12	4	4	31		20	29	18	26	93	31	25	24	22	102	276		22.8	267	96.7	3	1.1	5	1.8	-	0.4	0
		Peds	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0		ı				,					
	on Rd ound	Right	4	3	4	9	17	4	3	+	0	8		3	3	3	5	14	-	2	0	-	4	43	15.6	3.6	38	88.4	2	4.7	2	4.7	-	2.3	0
	Old Sutton Rd Northbound	Thru	4	5	5	3	17	5	9	3	4	18		2	13	6	12	33	10	8	14	7	39	107	38.8	8.9	105	98.1	٢	0.9	-	0.9	0	0.0	0
ata		Left	0	4	4	8	16	2	3	0	0	5		15	13	6	6	46	20	15	10	14	59	126	45.7	10.4	124	98.4	0	0.0	2	1.6	0	0.0	0
ent D		U-Tum	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
urning Movement Data		App. Total	6	21	25	21	76	23	13	15	14	65		32	42	22	28	124	35	32	21	33	121	386	,	31.9	347	89.9	6	1.6	8	2.1	25	6.5	0
ing M)	Peds	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0		ı									
Turn		Right	4	6	8	10	31	10	6	6	3	25		10	10	5	6	31	8	8	9	14	36	123	31.9	10.2	112	91.1	5	4.1	5	4.1	-	0.8	0
	Penny Rd Westbound	Thru	5	10	14	11	40	11	6	7	10	34		17	30	16	22	85	26	20	13	17	76	235	60.9	19.4	209	88.9	٢	0.4	з	1.3	22	9.4	0
		Left	0	2	3	0	5	2	1	2	1	9		5	2	1	0	8	-	4	2	2	6	28	7.3	2.3	26	92.9	0	0.0	0	0.0	2	7.1	0
		U-Turn	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	-	0		0		0		0
		App. Total	45	38	29	41	153	39	23	17	20	66		19	11	17	20	67	12	19	24	15	70	389	,	32.2	379	97.4	4	1.0	2	0.5	ю	0.8	
		Peds	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0			,			,			,		
	.Rd	Right	10	6	8	6	36	12	4	4	6	26		6	0	4	7	17	4	5	7	5	21	100	25.7	8.3	66	0.06	0	0.0	-	1.0	0	0.0	0
	Penny Rd Eastbound	Thru	33	27	20	32	112	27	19	13	13	72		13	11	13	13	50	8	13	17	10	48	282	72.5	23.3	276	97.9	٢	0.4	-	0.4	в	1.1	÷-
		Left	2	2	-	0	5	0	0	0	٢	-		0	0	0	0	0	0	-	0	0	-	7	1.8	0.6	4	57.1	3	42.9	0	0.0	0	0.0	0
		U-Tum	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
		Start Time	7:00 AM	7:15 AM	7:30 AM	7:45 AM	Hourly Total	8:00 AM	8:15 AM	8:30 AM	8:45 AM	Hourly Total	*** BREAK ***	4:00 PM	4:15 PM	4:30 PM	4:45 PM	Hourly Total	5:00 PM	5:15 PM	5:30 PM	5:45 PM	Hourly Total	Grand Total	Approach %	Total %	Lights	% Lights	Buses	% Buses	Single-Unit Trucks	% Single-Unit Trucks	Articulated Trucks	% Articulated Trucks	Bicycles on Road

% Bicycles on Road	'	0.0	0.4	0.0	I	0.3	ŀ	0.0	0.0	0.0	I	0.0	,	0.0	0.0	0.0		0.0	·	0.0	0.0	0.0		0.0	0.1
Pedestrians					0						0		•				0				•		0		
% Pedestrians				•	ı						ı								•						

9575 W. Higgins Rd., Suite 400 Rosemont, Illinois, United States 60018 (847)518-9990 kpachowicz@kloainc.com

Count Name: Old Sutton Rd with Penny Rd Site Code: Start Date: 10/13/2021 Page No: 3

								Turn	Turning Move	ovem	ent P	eak F	ement Peak Hour Data (7:15 AM))ata (j	7:15 /	(M)									
			Peni Eastt	Penny Rd Eastbound					Penny Rd Westbound	/ Rd ound					Old Sutton Rd Northbound	n Rd und					Old Sutton Rd Southbound	Rd nd			
Start Time	U-Tum	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Tum	Left	Thru	Right	Peds	App. Total	U-Tum	Left	Thru	ţ	Peds A	App. Total Int.	Int. Total
7:15 AM	0	2	27	6	0	38	0	2	10	6	0	21	0	4	5	3	0	12	0	4	5	0	0	6	80
7:30 AM	0	-	20	8	0	29	0	3	14	8	0	25	0	4	5	4	0	13	0	2	6	0	0	11	78
7:45 AM	0	0	32	6	0	41	0	0	11	10	0	21	0	8	3	9	0	17	0	6	12	0	0	18	97
8:00 AM	0	0	27	12	0	39	0	2	11	10	0	23	0	2	5	4	0	11	0	3	15	0	0	18	91
Total	0	3	106	38	0	147	0	7	46	37	0	90	0	18	18	17	0	53	0	15	41	0	0	56 3	346
Approach %	0.0	2.0	72.1	25.9			0.0	7.8	51.1	41.1	ı		0.0	34.0	34.0	32.1			0.0	26.8	73.2	0.0			
Total %	0.0	0.9	30.6	11.0		42.5	0.0	2.0	13.3	10.7		26.0	0.0	5.2	5.2	4.9	1	15.3	0.0	4.3	11.8	0.0	-	16.2	
PHF	0.000	0.375	0.828	0.792	I	0.896	0.000	0.583	0.821	0.925	1	0.900	0.000	0.563	0.900	0.708	1	0.779	0.000	0.625 (0.683 0	0.000	- 0	0.778 0.	0.892
Lights	0	0	103	37	ı	140	0	7	28	32	ı	67	0	18	18	14	ı	50	0	15	37	0		52 3	309
% Lights	•	0.0	97.2	97.4		95.2		100.0	60.9	86.5		74.4		100.0	100.0	82.4	-	94.3		100.0	90.2		- 6	92.9 8	89.3
Buses	0	3	0	0		3	0	0	-	3		4	0	0	0	t		-	0	0	0	0		0	8
% Buses		100.0	0.0	0.0		2.0		0.0	2.2	8.1		4.4		0.0	0.0	5.9		1.9		0.0	0.0			0.0	2.3
Single-Unit Trucks	0	0	0	-	,	-	0	0	0	2		2	0	0	0	-		-	0	0	4	0		4	8
% Single-Unit Trucks		0.0	0.0	2.6		0.7		0.0	0.0	5.4		2.2		0.0	0.0	5.9	ı	1.9		0.0	9.8			7.1	2.3
Articulated Trucks	0	0	e	0		с	0	0	17	0		17	0	0	0	-		-	0	0	0	0		0	21
% Articulated Trucks		0.0	2.8	0.0		2.0		0.0	37.0	0.0		18.9		0.0	0.0	5.9		1.9		0.0	0.0			0.0	6.1
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
Pedestrians			-		0						0						0						0		
% Pedestrians		•	•	•									•												

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	Keni	nic 2
	Keni	enig Lindgren O'Hara Aboona, I

Kenig Lindgren O'Hara Aboona, Inc. 9575 W. Higgins Rd., Suite 400 Rosemont, Illinois, United States 60018 (847)518-9990 kpachowicz@kloainc.com

Count Name: Old Sutton Rd with Penny Rd Site Code: Start Date: 10/13/2021 Page No: 4

		Int. Total	84	89	67	84	324			0.910	315	97.2	0	0.0	9	1.9	3	6.0	0	0.0		
		App. Total	13	7	10	10	40		12.3	0.769	39	97.5	0	0.0	+	2.5	0	0.0	0	0.0	-	
		Peds	0	0	0	0	0														0	
	ton Rd	Right	.	0	0	+	2	5.0	0.6	0.500	2	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
	Old Sutton Rd	Thru	9	5	5	4	20	50.0	6.2	0.833	19	95.0	0	0.0	-	5.0	0	0.0	0	0.0		
		Left	9	2	5	5	18	45.0	5.6	0.750	18	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
		U-Tum	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
		App. Total	20	29	18	26	93		28.7	0.802	91	97.8	0	0.0	2	2.2	0	0.0	0	0.0	-	
		Peds	0	0	0	0	0														0	
PM)	Old Sutton Rd	Right	e	e	3	5	14	15.1	4.3	0.700	14	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
(4:00	Old Su	Thru	2	13	9	12	33	35.5	10.2	0.635	32	97.0	0	0.0	÷	3.0	0	0.0	0	0.0		
Data		Left	15	13	6	6	46	49.5	14.2	0.767	45	97.8	0	0.0	÷	2.2	0	0.0	0	0.0	•	
ement Peak Hour Data (4:00 PM)		U-Tum	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
^p eak I		App. Total	32	42	22	28	124		38.3	0.738	118	95.2	0	0.0	з	2.4	3	2.4	0	0.0	•	
nent F		Peds	0	0	0	0	0														0	
loven	Penny Rd	Right	10	10	5	9	31	25.0	9.6	0.775	30	96.8	0	0.0	-	3.2	0	0.0	0	0.0	•	•
Turning Move	Pen	Thru	17	30	16	22	85	68.5	26.2	0.708	81	95.3	0	0.0	2	2.4	2	2.4	0	0.0	•	•
Turr		Left	5	2	1	0	8	6.5	2.5	0.400	7	87.5	0	0.0	0	0.0	٢	12.5	0	0.0		•
		U-Turn	0	0	0	0	0	0.0	0.0	0.000	0		0		0	•	0	•	0	•		
		App. Total	19	1	17	20	67		20.7	0.838	67	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
		Peds	0	0	0	0	0														0	
	Penny Rd	Right	9	0	4	7	17	25.4	5.2	0.607	17	100.0	0	0.0	0	0.0	0	0.0	0	0.0	•	•
	Pen	Thru	13	1	13	13	50	74.6	15.4	0.962	50	100.0	0	0.0	0	0.0	0	0.0	0	0.0	•	•
		Left	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0	•	0			
		U-Tum	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
		Start Time	4:00 PM	4:15 PM	4:30 PM	4:45 PM	Total	Approach %	Total %	PHF	Lights	% Lights	Buses	% Buses	Single-Unit Trucks	% Single-Unit Trucks	Articulated Trucks	% Articulated Trucks	Bicycles on Road	% Bicycles on Road	Pedestrians	% Pedestrians

12/15/21 13:12:11

Barrington, IL Weather: Cool and Dry Old Sutton Rd and Access Dr South of PennyRd Tuesday December 14, 2021 Passenger Vehicles Only

TURNS/TEAPAC[Ver 3.61.12] - 15-Minute Counts: All Vehicles - by Mvmt

	=====				======				/ Cars				
Begin Time	N- RT	Appro: TH	ach LT	E-X RT	Approa TH	ach LT	S- RT	Appro TH	ach LT	W-2 RT	Approa TH	ach LT	Int Total =====
<u></u> 600	0	 5	 0	0	0	 0	 1	 5	 0	0		 0	 11
615	0	13	0	0	0	0	1	3	0	0	0	0	17
630	0	10	0	0	0	1	0	3	0	0	0	0	14
645	0	14	2	0	0	0	0	4	0	0	0	0	20
700	0	13	2	0	0	0	0	5	0	0	0	0	20
715	0	13	0	0	0	0	0	12	0	0	0	0	25
730	0	13	0	0	0	0	0	13	0	0	0	0	26
745	0	11	0	0	0	0	0	5	0	0	0	0	16
800	0	18	0	0	0	0	0	4	0	0	0	0	22
815	0	12	0	0	0	0	0	11	0	0	0	0	23
830	0	14	0	0	0	0	0	4	0	0	0	0	18
845	0	9	0	0	0	0	0	11	0	0	0	0	20
1500	0	11	1	1	0	0	1	18	0	0	0	0	32
1515	0	12	0	0	0	0	0	16	0	0	0	0	28
1530	0	10	0	1	0	1	0	17	0	0	0	0	29
1545	0	15	0	0	0	0	0	24	0	0	0	0	39
1600	0	24	0	1	0	0	0	30	0	0	0	0	55
1615	0	20	1	1	0	0	0	32	0	0	0	0	54
1630	0	24	0	0	0	0	0	24	0	0	0	0	48
1645	0	14	0	0	0	0	0	28	0	0	0	0	42
1700	0	24	0	0	0	0	0	30	0	0	0	0	54
1715	0	21	0	0	0	0	0	26	0	0	0	0	47
1730	0	10	0	0	0	0	0	31	0	0	0	0	41
1745	0	15	1	0	0	0	0	21	0	0	0	0	37
===== Total	 0	345 3	= === 7	====== 4	0	===== 2	==== 3	377	0	0	0	0	===== 738

Intersection # 8 dec/oldsutton/accspenny/cars

Barrington, IL	Weather: Cool and Dry	12/15/21
Old Sutton Rd and Access	s Dr South of PennyRd	13:12:11
Tuesday December 14, 202	21 Passenger Vehicles Only	

TURNS/TEAPAC[Ver 3.61.12] - 15-Minute Counts: All Vehicles - Totals

	Intersect	tion #	8 dec/c	ldsutto	on/accspenny	y/cars			
Begin		Approa	ch Totals	 3		Exit	Totals		Int
Time	N	E	S	W	N	E	S	W	Total
===== 600	=======================================				======================================	======= 1	===== 5		===== 11
600 615	5 13	0 0	6 4	0 0	5 3	1 1	13	0 0	11
630	13	1	4	0	3	0	11	0	14
645	16	0	4	0	4	2	14	0	20
700	15	0	5	0	5	2	13	0	20
715	13	0	12	0	12	0	13	0	25
730	13	0	13	0	13	Ö	13	0	26
745	11	Ő	5	0 0	5	õ	11	0	16
800	18	Ő	4	0 0	4	0	18	Ö	22
815	12	0	11	0	11	0	12	0	23
830	14	0	4	0	4	0	14	0	18
845	9	0	11	0	11	0	9	0	20
1500	12	1	19	0	19	2	11	0	32
1515	12	0	16	0	16	0	12	0	28
1530	10	2	17	0	18	0	11	0	29
1545	15	0	24	0	24	0	15	0	39
1600	24	1	30	0	31	0	24	0	55
1615	21	1	32	0	33	1	20	0	54
1630	24	0	24	0	24	0	24	0	48
1645	14	0	28	0	28	0	14	0	42
1700	24	0	30	0	30	0	24	0	54
1715	21	0	26	0	26	0	21	0	47
1730	10	0	31	0	31	0	10	0	41
1745	16	0	21	0	21	1	15	0	37
=====	========	======	========		=========	======	=======	======	=====
Total	352	6	380	0	381	10	347	0	738

Barrington, IL	Weather: Cool and Dry	12/15/21
Old Sutton Rd and Access	Dr South of PennyRd	13:12:11
Tuesday December 14, 202	1 Passenger Vehicles Only	

TURNS/TEAPAC[Ver 3.61.12] - 15-Minute Flow Rates: by Movement

	Inter	sectio	on #	8 de	c/old	sutto	n/accs	penny	/cars				
Begin	 N-2	Approa	ach	E-2	Approa	ach	s-	Appro	ach	W-2	Approa	ach	Int
Time	RT	TH	LT	RT	ТН	LT	RT	ТН	LT	RT	ТН	LT	Total
===== 600		 20	==== 0		 0	==== 0	====== 4	 20	==== 0		 0	==== 0	===== 44
615	0	52	0	0	0	0	4	12	0	0	0	0	68
630	0	40	0	0	0	4	0	12	0	0	0	0	56
645	0	56	8	0	0	0	0	16	0	0	0	0	80
700	0	52	8	0	0	0	0	20	0	0	0	0	80
715	0	52	0	0	0	0	0	48	0	0	0	0	100
730	0	52	0	0	0	0	0	52	0	0	0	0	104
745	0	44	0	0	0	0	0	20	0	0	0	0	64
800	0	72	0	0	0	0	0	16	0	0	0	0	88
815	0	48	0	0	0	0	0	44	0	0	0	0	92
830	0	56	0	0	0	0	0	16	0	0	0	0	72
845	0	36	0	0	0	0	0	44	0	0	0	0	80
1500	0	44	 4		0	0		72	0	0	0	0	128
1515	0	48	0	0	0	0	0	64	0	0	0	0	112
1530	0	40	0	4	0	4	0	68	0	0	0	0	116
1545	0	60	0	0	0	0	0	96	0	0	0	0	156
1600	0	96	0	4	0	0	0	120	0	0	0	0	220
1615	0	80	4	4	0	0	0	128	0	0	0	0	216
1630	0	96	0	0	0	0	0	96	0	0	0	0	192
1645	0	56	0	0	0	0	0	112	0	0	0	0	168
1700	0	96	0	0	0	0	0	120	0	0	0	0	216
1715	0	84	0	0	0	0	0	104	0	0	0	0	188
1730	0	40	0	0	0	0	0	124	0	0	0	0	164
1745	0	60	4	0	0	0	0	84	0	0	0	0	148
=====	=====	=====		=====			=====	=====	====	=====		====	=====

Barrington, IL	Weather: Cool and Dry	12/15/21
Old Sutton Rd and Access	Dr South of PennyRd	13:12:11
Tuesday December 14, 202	1 Passenger Vehicles Only	

TURNS/TEAPAC[Ver 3.61.12] - 15-Minute Flow Rates: Appr/Exit Totals

	Intersect	ion #	8 dec/o	ldsutto	n/accspenny	/cars			
Begin		Approac	h Totals			Exit 1	rotals		Int
Time	N	E	S	W	N	E	S	W	Total
===== 600	20	 0	24	0	20	4	20	0	===== 44
615	52	0	16	0	12	4	52	0	68
630	40	4	12	0	12	0	44	0	56
645	64	0	16	0	16	8	56	0	80
700	60	0	20	0	20	8	52	0	80
715	52	0	48	0	48	0	52	0	100
730	52	0	52	0	52	0	52	0	104
745	44	0	20	0	20	0	44	0	64
800	72	0	16	0	16	0	72	0	88
815	48	0	44	0	44	0	48	0	92
830	56	0	16	0	16	0	56	0	72
845	36	0	44	0	44	0	36	0	80
1500	48	 4	 76	0	76	8	44	0	128
1515	48	0	64	0	64	0	48	0	112
1530	40	8	68	0	72	0	44	0	116
1545	60	0	96	0	96	0	60	0	156
1600	96	4	120	0	124	0	96	0	220
1615	84	4	128	0	132	4	80	0	216
1630	96	0	96	0	96	0	96	0	192
1645	56	0	112	0	112	0	56	0	168
1700	96	0	120	0	120	0	96	0	216
1715	84	0	104	0	104	0	84	0	188
1730	40	0	124	0	124	0	40	0	164
1745	64	0	84	0	84	4	60	0	148
=====		======		======	=========	======		======	=====

Barrington, IL	Weather: Cool and Dry	12/15/21
Old Sutton Rd and Access	3 Dr South of PennyRd	13:12:11
Tuesday December 14, 202	21 Passenger Vehicles Only	

TURNS/TEAPAC[Ver 3.61.12] - 60-Minute Volumes: by Movement

	=====	=====										===	
egin		Approa			Appro			Appro			Approa		Int
Time ====	RT	TH	LT	RT	TH	LT	RT	TH	LT 	RT	TH	LT	Total
600	0	42	2	0	0	1	2	15	0	0	0	0	62
615	0	50	4	0	0	1	1	15	0	0	0	0	71
630	0	50	4	0	0	1	0	24	0	0	0	0	79
645	0	53	4	0	0	0	0	34	0	0	0	0	91
700	0	50	2	0	0	0	0	35	0	0	0	0	87
715	0	55	0	0	0	0	0	34	0	0	0	0	89
730	0	54	0	0	0	0	0	33	0	0	0	0	87
745	0	55	0	0	0	0	0	24	0	0	0	0	79
800	0	53	0	0	0	0	0	30	0	0	0	0	83
815	0	35	0	0	0	0	0	26	0	0	0	0	61
830	0	23	0	0	0	0	0	15	0	0	0	0	38;
845	0	9	0	0	0	0	0	11	0	0	0	0	203
1500	0	48	1	2	0	1	1	75	0	0	0	0	128
1515	0	61	0	2	0	1	0	87	0	0	0	0	151
1530	0	69	1	3	0	1	0	103	0	0	0	0	177
1545	0	83	1	2	0	0	0	110	0	0	0	0	196
1600	0	82	1	2	0	0	0	114	0	0	0	0	199
1615	0	82	1	1	0	0	0	114	0	0	0	0	198
1630	0	83	0	0	0	0	0	108	0	0	0	0	191
1645	0	69	0	0	0	0	0	115	0	0	0	0	184
1700	0	70	1	0	0	0	0	108	0	0	0	0	179
1715	0	46	1	0	0	0	0	78	0	0	0	0	125
1730	0	25	1	0	0	0	0	52	0	0	0	0	78
1745	0	15	1	0	0	0	0	21	0	0	0	0	37:

Barrington, IL	Weather: Cool and Dry	12/15/21
Old Sutton Rd and Acces	s Dr South of PennyRd	13:12:11
Tuesday December 14, 20	21 Passenger Vehicles Only	

TURNS/TEAPAC[Ver 3.61.12] - 60-Minute Volumes: Appr/Exit Totals

	Intersec	tion #	8 dec/c	dsutto	n/accspenny	/cars			
Begin		Approad	h Totals	5		Exit 1	Cotals		Int
Time	N	E	S	W	N	Е	S	W	Total
<u></u>	44	1	17	0	15	 4	43	0	 62
615	54	1	16	0	15	5	51	0	71
630	54	1	24	0	24	4	51	0	79
645	57	0	34	0	34	4	53	0	91
700	52	0	35	0	35	2	50	0	87
715	55	0	34	0	34	0	55	0	89
730	54	0	33	0	33	0	54	0	87
745	55	0	24	0	24	0	55	0	79
800	53	0	30	0	30	0	53	0	83
815	35	0	26	0	26	0	35	0	61*
830	23	0	15	0	15	0	23	0	38*
845	9	0	11	0	11	0	9	0	20*
1500	49	3	76	0	77	2	49	0	128
1515	61	3	87	0	89	0	62	0	151
1530	70	4	103	0	106	1	70	0	177
1545	84	2	110	0	112	1	83	0	196
1600	83	2	114	0	116	1	82	0	199
1615	83	1	114	0	115	1	82	0	198
1630	83	0	108	0	108	0	83	0	191
1645	69	0	115	0	115	0	69	0	184
1700	71	0	108	0	108	1	70	0	179
1715	47	0	78	0	78	1	46	0	125*
1730	26	0	52	0	52	1	25	0	78*
1745	16	0	21	0	21	1	15	0	37*
					=========			======	=====

12/15/21 13:15:23

Barrington, ILWeather: Cool and DryOld Sutton Rd and Access Dr South of PennyRdTuesday December 14, 2021Single Unit Trucks Only

TURNS/TEAPAC[Ver 3.61.12] - 15-Minute Counts: All Vehicles - by Mvmt

Begin Time	N-2 RT	Appro TH	ach LT	E-2 RT	Approa TH	ach LT	S-2 RT	Approa TH	ach LT	W-2 RT	Approa TH	ach LT	Int Total
600	0	0	0	0	0	0	0	0	0	0	0	0	0
615	0	0	0	0	0	0	0	0	0	0	0	0	0
630	0	0	0	0	0	0	0	0	0	0	0	0	0
645	0	1	0	0	0	0	0	0	0	0	0	0	1
700	0	1	0	0	0	0	0	0	0	0	0	0	1
715	0	1	0	2	0	0	0	1	0	0	0	0	4
730	0	0	0	0	0	0	0	2	0	0	0	0	2
745	0	1	0	0	0	0	0	5	0	0	0	0	6
800	0	1	0	0	0	0	0	0	0	0	0	0	1
815	0	3	0	0	0	0	0	0	0	0	0	0	3
830	0	0	0	0	0	0	0	0	0	0	0	0	0
845	0	0	0	0	0	0	0	1	0	0	0	0	1
1500	0	0	0	0	0	0	0	0	0	0	0	0	0
1515	0	2	0	0	0	0	0	0	0	0	0	0	2
1530	0	1	0	0	0	1	0	2	0	0	0	0	4
1545	0	2	0	0	0	0	0	0	0	0	0	0	2
1600	0	0	0	0	0	0	0	2	0	0	0	0	2
1615	0	0	0	0	0	0	0	0	0	0	0	0	0
1630	0	0	0	0	0	0	0	1	0	0	0	0	1
1645	0	1	0	0	0	0	0	0	0	0	0	0	1
1700	0	0	0	0	0	0	0	3	0	0	0	0	3
1715	0	0	0	0	0	0	0	0	0	0	0	0	0
1730	0	0	0	0	0	0	0	1	0	0	0	0	1
1745	0	1	1	0	0	0	1	0	0	0	0	0	3
===== Total	 0		 1	====== 2	0	 1	====	18	0	0	0	 0	===== 38

Intersection # 9 dec/oldsutton/accspenny/single

Barrington, IL We	ather: Cool and Dry	12/15/21
Old Sutton Rd and Access Dr	: South of PennyRd	13:15:23
Tuesday December 14, 2021	Single Unit Trucks Only	

TURNS/TEAPAC[Ver 3.61.12] - 15-Minute Counts: All Vehicles - Totals

	Intersec	tion #	9 dec	/oldsut	ton/accspen	ny/sing	le		
Begin		Approa		 ls		Exit	Totals		 Int
Time	N	E	S	W	N	E	S	W	Total
=====			======	======	= =======	======	======	=======	= =====
600	0	0	0	0	0	0	0	0	0
615	0	0	0	0	0	0	0	0	0
630	0	0	0	0	0	0	0	0	0
645	1	0	0	0	0	0	1	0	1
700	1	0	0	0	0	0	1	0	1
715	1	2	1	0	3	0	1	0	4
730	0	0	2	0	2	0	0	0	2
745	1	0	5	0	5	0	1	0	6
800	1	0	0	0	0	0	1	0	1
815	3	0	0	0	0	0	3	0	3
830	0	0	0	0	0	0	0	0	0
845	0	0	1	0	1	0	0	0	1
1500	0	 0	0	0	0	0	0	0	0
1515	2	0	0	0	0	0	2	0	2
1530	1	1	2	0	2	0	2	0	4
1545	2	0	0	0	0	0	2	0	2
1600	0	0	2	0	2	0	0	0	2
1615	0	0	0	0	0	0	0	0	0
1630	0	0	1	0	1	0	0	0	1
1645	1	0	0	0	0	0	1	0	1
1700	0	0	3	0	3	0	0	0	- 3
1715	0	0	0	0	0	0	0	0	0
1730	0	0	1	0	1	Ő	0	Ő	1
1745	2	0	1	0	0	2	1	0	- 3
===== Total	======= 16	3	 19	 0	= <u>====</u> 20	====== 2	16	 0	= ===== 38

Barrington, IL We	eather: Cool and Dry	12/15/21
Old Sutton Rd and Access Dr	r South of PennyRd	13:15:23
Tuesday December 14, 2021	Single Unit Trucks Only	

TURNS/TEAPAC[Ver 3.61.12] - 15-Minute Flow Rates: by Movement

Intersection #	9	dec/oldsutton	/accspenny/single	
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					=====:								
Begin	N-2	Appro	ach	E-2	Approa	ach	s-i	Approa	ach	W-2	Appro	ach	Int
Time	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
==== 600	0	 0	==== 0	0	 0	==== 0	0	 0	==== 0	0	 0	==== 0	 0
615	0	0	0	0	0	0	0	0	0	0	0	0	0
630	0	0	0	0	0	0	0	0	0	0	0	0	0
645	0	4	0	0	0	0	0	0	0	0	0	0	4
700	0	4	0	0	0	0	0	0	0	0	0	0	4
715	0	4	0	8	0	0	0	4	0	0	0	0	16
730	0	0	0	0	0	0	0	8	0	0	0	0	8
745	0	4	0	0	0	0	0	20	0	0	0	0	24
800	0	4	0	0	0	0	0	0	0	0	0	0	4
815	0	12	0	0	0	0	0	0	0	0	0	0	12
830	0	0	0	0	0	0	0	0	0	0	0	0	0
845	0	0	0	0	0	0	0	4	0	0	0	0	4
1500	0	0	0	0	0	0	0	0	0	0	0	0	0
1515	0	8	0	0	0	0	0	0	0	0	0	0	8
1530	0	4	0	0	0	4	0	8	0	0	0	0	16
1545	0	8	0	0	0	0	0	0	0	0	0	0	8
1600	0	0	0	0	0	0	0	8	0	0	0	0	8
1615	0	0	0	0	0	0	0	0	0	0	0	0	0
1630	0	0	0	0	0	0	0	4	0	0	0	0	4
1645	0	4	0	0	0	0	0	0	0	0	0	0	4
1700	0	0	0	0	0	0	0	12	0	0	0	0	12
1715	0	0	0	0	0	0	0	0	0	0	0	0	0
1730	0	0	0	0	0	0	0	4	0	0	0	0	4
1745	0	4	4	0	0	0	4	0	0	0	0	0	12
=====	=====		====	=====		====	=====	=====	====	=====	=====	====	=====

Barrington, IL We	eather: Cool and Dry	12/15/21
Old Sutton Rd and Access Dr	r South of PennyRd	13:15:23
Tuesday December 14, 2021	Single Unit Trucks Only	

TURNS/TEAPAC[Ver 3.61.12] - 15-Minute Flow Rates: Appr/Exit Totals

	Intersec	tion #	9 dec/	oldsutt	on/accspen	ny/sing	le		
Begin		Approa	ch Total	 s		Exit	Totals		- Int
Time	N	E	S	W	N	E	S	W	Total
<u>====</u> 600			======= 0			-=====:	====== 0	====== 0	= =====
600 615	0	0	0	0	0	0	0	0	0
630	0	•	•	0	0	•	0	0	0
630 645	0	0	0	0	0	0	0	0	0
645 700	4	0	•	0	0	0	4	•	4
700	4	8	0	0	12	0	4	0	4
715	4	0	4 8	0	8	0	4	0	16 8
730	0	Ŭ	8 20	Ŭ	8 20	v	0		8 24
800	4	0	20	0	20	0	4	0	
800 815	4		0	Ŭ	•	•	4		4
	12	0	•	0	0	0	12	0	12
830	0	0	0	0	0	0	0	0	0
845	0	0	4	0	4	0	0	0	4
1500	0	0	0	0	0	0	0	0	0
1515	8	0	0	0	0	0	8	0	8
1530	4	4	8	0	8	0	8	0	16
1545	8	0	0	0	0	0	8	0	8
1600	0	0	8	0	8	0	0	0	8
1615	0	0	0	0	0	0	0	0	0
1630	0	0	4	0	4	0	0	0	4
1645	4	0	0	0	0	0	4	0	4
1700	0	0	12	0	12	0	0	0	12
1715	0	0	0	0	0	0	0	0	0
1730	0	0	4	0	4	0	0	0	4
1745	8	0	4	0	0	8	4	0	12
=====	========				========				= =====

Barrington, IL We	eather: Cool and Dry	12/15/21
Old Sutton Rd and Access Dr	: South of PennyRd	13:15:23
Tuesday December 14, 2021	Single Unit Trucks Only	

TURNS/TEAPAC[Ver 3.61.12] - 60-Minute Volumes: by Movement

Intersection	#	9	dec/oldsutton/	'accspenny/single	!

	=====												
Begin	N-2	Appro	ach	E-2	Approa	ach	S-2	Appro	ach	W-2	Approa	ach	Int
Time	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
 600	0		 0	0		==== 0	0		==== 0	0		 0	===== 1
615	0	2	0	0	0	0	0	0	0	0	0	0	2
630	0	3	0	2	0	0	0	1	0	0	0	0	6
645	0	3	0	2	0	0	0	3	0	0	0	0	8
700	0	3	0	2	0	0	0	8	0	0	0	0	13
715	0	3	0	2	0	0	0	8	0	0	0	0	13
730	0	5	0	0	0	0	0	7	0	0	0	0	12
745	0	5	0	0	0	0	0	5	0	0	0	0	10
800	0	4	0	0	0	0	0	1	0	0	0	0	5
815	0	3	0	0	0	0	0	1	0	0	0	0	4*
830	0	0	0	0	0	0	0	1	0	0	0	0	1*
845	0	0	0	0	0	0	0	1	0	0	0	0	1*
1500	0	5	0	0	0	1	0	2	0	0	0	0	8
1515	0	5	0	0	0	1	0	4	0	0	0	0	10
1530	0	3	0	0	0	1	0	4	0	0	0	0	8
1545	0	2	0	0	0	0	0	3	0	0	0	0	5
1600	0	1	0	0	0	0	0	3	0	0	0	0	4
1615	0	1	0	0	0	0	0	4	0	0	0	0	5
1630	0	1	0	0	0	0	0	4	0	0	0	0	5
1645	0	1	0	0	0	0	0	4	0	0	0	0	5
1700	0	1	1	0	0	0	1	4	0	0	0	0	7
1715	0	1	1	0	0	0	1	1	0	0	0	0	4*
1730	0	1	1	0	0	0	1	1	0	0	0	0	4*
1745	0	1	1	0	0	0	1	0	0	0	0	0	3*
=====	=====	=====	====	=====	=====	====	=====	=====	====	=====	=====	====	=====

Barrington, IL We	eather: Cool and Dry	12/15/21
Old Sutton Rd and Access Dr	: South of PennyRd	13:15:23
Tuesday December 14, 2021	Single Unit Trucks Only	

TURNS/TEAPAC[Ver 3.61.12] - 60-Minute Volumes: Appr/Exit Totals

Intersection $#$	9	dec/oldsutton/accspenny/single
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									=
Begin		Approa	ch Total	s		Exit	Totals		Int
Time	N	E	S	W	N	E	S	W	Total
===== 600	=======================================	 0	======= 0	 0	 0	 0	 1	======= 0	= ===== 1
615	2	0	0	0	0	0	2	0	2
630	3	2	1	0	3	0	3	0	6
645	3	2	3	0	5	0	3	0	8
700	3	2	8	0	10	0	3	0	13
715	3	2	8	0	10	0	3	0	13
730	5	0	7	0	7	0	5	0	12
745	5	0	5	0	5	0	5	0	10
800	4	0	1	0	1	0	4	0	5
815	3	0	1	0	1	0	3	0	4*
830	0	0	1	0	1	0	0	0	1*
845	0	0	1	0	1	0	0	0	1*
1500	5	1	 2	0	2	0	6	0	 8
1515	5	1	4	0	4	0	6	0	10
1530	3	1	4	0	4	0	4	0	8
1545	2	0	3	0	3	0	2	0	5
1600	1	0	3	0	3	0	1	0	4
1615	1	0	4	0	4	0	1	0	5
1630	1	0	4	0	4	0	1	0	5
1645	1	0	4	0	4	0	1	0	5
1700	2	0	5	0	4	2	1	0	7
1715	2	0	2	0	1	2	1	0	4*
1730	2	0	2	0	1	2	1	0	4*
1745	2	0	1	0	0	2	1	0	3*
=====	=======				=======	=======	======	======	= =====

12/15/21 13:17:17

Barrington, ILWeather:Cool and DryOld Sutton Rd and Access DrSouth of PennyRdTuesday December 14, 2021Multi Unit Trucks Only

TURNS/TEAPAC[Ver 3.61.12] - 15-Minute Counts: All Vehicles - by Mvmt

	======									-			
Begin Time	N-2 RT	Approa TH	ach LT	E-2 RT	Approa TH	ach LT	S-2 RT	Approa TH	ach LT	W-2 RT	Appro TH	ach LT	Int Total
600	0	0	0	0	0	0	0	0	0	0	0	0	0
615	0	0	0	0	0	0	0	0	0	0	0	0	0
630	0	0	0	0	0	0	0	0	0	0	0	0	0
645	0	0	0	0	0	0	0	0	0	0	0	0	0
700	0	0	0	0	0	0	0	0	0	0	0	0	0
715	0	0	0	0	0	0	0	0	0	0	0	0	0
730	0	0	0	0	0	0	0	0	0	0	0	0	0
745	0	0	0	0	0	0	0	0	0	0	0	0	0
800	0	0	0	0	0	0	0	0	0	0	0	0	0
815	0	0	0	0	0	0	0	0	0	0	0	0	0
830	0	0	0	0	0	0	0	0	0	0	0	0	0
845	0	0	0	0	0	0	0	0	0	0	0	0	0
1500	0	0	0	0	0	0	0	0	0	0	0	0	0
1515	0	0	0	0	0	0	0	0	0	0	0	0	0
1530	0	0	0	0	0	0	0	0	0	0	0	0	0
1545	0	0	0	0	0	0	0	0	0	0	0	0	0
1600	0	0	0	0	0	0	0	0	0	0	0	0	0
1615	0	0	0	0	0	0	0	0	0	0	0	0	0
1630	0	0	0	0	0	0	0	0	0	0	0	0	0
1645	0	0	0	0	0	0	0	0	0	0	0	0	0
1700	0	0	0	0	0	0	0	0	0	0	0	0	0
1715	0	0	0	0	0	0	0	0	0	0	0	0	0
1730	0	0	0	0	0	0	0	0	0	0	0	0	0
1745	0	0	0	0	0	0	0	0	0	0	0	0	0
=====	=====			=====			======			=====	=====	====	=====
Total	0	0	0	0	0	0	0	0	0	0	0	0	0

Intersection # 10 dec/oldsutton/accspenny/multi

Barrington, IL We	eather: Cool and Dry	12/15/21
Old Sutton Rd and Access Dr	r South of PennyRd	13:17:17
Tuesday December 14, 2021	Multi Unit Trucks Only	

TURNS/TEAPAC[Ver 3.61.12] - 15-Minute Counts: All Vehicles - Totals

	Intersect	tion # 1	0 dec/c	dsutt	on/accspenn	y/multi			
Begin		Approac	h Totals	 ;		Exit 1	otals		Int
Time	N	E	S	W	N	E	S	W	Total
===== 600								0	=====
600 615	0	0	0	0	0	0	0	0	0
630	0	0	0	0	0	0	0	0	0
630 645	0	0	0	0	0	0	0	0	0
645 700	0	0	0	0	0	0	0	0	0
700	0	0	0	0	0	•	0	•	0
715	0	0	0	0	0	0	0	0	0
745	0	0	0	0	0	0	0	0	0
745 800	Ű		v	•	0	•	•	•	0
800 815	0	0	0	0	0	0	0	0	0
	0	v	0	0	0	0	0	0	0
830	0	0	0	v	0	0	0	U	0
845	0	0	0	0	0	0	0	0	0
1500	0	0	0	0	0	0	0	0	0
1515	0	0	0	0	0	0	0	0	0
1530	0	0	0	0	0	0	0	0	0
1545	0	0	0	0	0	0	0	0	0
1600	0	0	0	0	0	0	0	0	0
1615	0	0	0	0	0	0	0	0	0
1630	0	0	0	0	0	0	0	0	0
1645	0	0	0	0	0	0	0	0	0
1700	0	0	0	0	0	0	0	0	0
1715	0	0	0	0	0	0	0	0	0
1730	0	0	0	0	0	0	0	0	0
1745	0	0	0	0	0	0	0	0	0
=====	========	=======		======	========	=======	=======	======	=====
Total	0	0	0	0	0	0	0	0	0

Barrington, IL W	eather: Cool and Dry	12/15/21
Old Sutton Rd and Access Da	r South of PennyRd	13:17:17
Tuesday December 14, 2021	Multi Unit Trucks Only	

TURNS/TEAPAC[Ver 3.61.12] - 15-Minute Flow Rates: by Movement

Intersection # 10	dec/oldsutton/accspenny/multi
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Begin	N-2	Approa	ach	E-2	Approa	ach	S-2	Approa	ach	W-2	Approa	ach	Int
Time	RT	TH	LT	RT	TH	\mathbf{LT}	RT	TH	LT	RT	TH	LT	Total
<u>====</u> 600		 0	==== 0		 0	==== 0		 0			 0	 0	===== 0
615	0		0	0	0	0	0	0	0 0	0	0	0	0
630	0	0 0	0	0	0	0	0	0	0	0	0	0	0
645		•	0	•	0	0		0	0	•	•	•	0
645 700	0	0 0	0	0	•	0	0	0	•	0	0	0 0	0
	0	•	•	0	0	•	0	•	0	0	0	•	0
715	0	0	0	0 0	0	0	0	0	0	0	0	0	0
730 745		0	•	•	0	0		0	•	•	0	0	0
	0	0	0	0	0	0	0	0 0	0	0	0	0	0
800	0	0	0	0	0	0	0	•	0	0	0	0	0
815	0	0	0	0	0	0	0	0	0	0	0	0	0
830	0	0	0	0	0	0	0	0	0	0	0	0	0
845 	0	0	0	0	0	0	0	0	0	0	0	0	0
1500	0	0	0	0	0	0	0	0	0	0	0	0	0
1515	0	0	0	0	0	0	0	0	0	0	0	0	0
1530	0	0	0	0	0	0	0	0	0	0	0	0	0
1545	0	0	0	0	0	0	0	0	0	0	0	0	0
1600	0	0	0	0	0	0	0	0	0	0	0	0	0
1615	0	0	0	0	0	0	0	0	0	0	0	0	0
1630	0	0	0	0	0	0	0	0	0	0	0	0	0
1645	0	0	0	0	0	0	0	0	0	0	0	0	0
1700	0	0	0	0	0	0	0	0	0	0	0	0	0
1715	0	0	0	0	0	0	0	0	0	0	0	0	0
1730	0	0	0	0	0	0	0	0	0	0	0	0	0
1745	0	0	0	0	0	0	0	0	0	0	0	0	0
=====	=====	=====	====	=====	=====	====	=====	=====	====	=====	=====	====	=====

Barrington, IL We	ather: Cool and Dry	12/15/21
Old Sutton Rd and Access Dr	South of PennyRd	13:17:17
Tuesday December 14, 2021	Multi Unit Trucks Only	

TURNS/TEAPAC[Ver 3.61.12] - 15-Minute Flow Rates: Appr/Exit Totals

Intersection # 10 dec/oldsutton/accspenny/multi									-
Begin			ch Tota				Totals		Int
Time	N	E	S	W	N	E	S	W	Total
<u></u> 600	0	 0	0	0	0	0	 0	0	0
615	0	0	0	0	0	0	0	0	0
630	0	0	0	0	0	0	0	0	0
645	0	0	0	0	0	0	0	0	0
700	0	0	0	0	0	0	0	0	0
715	0	0	0	0	0	0	0	0	0
730	0	0	0	0	0	0	0	0	0
745	0	0	0	0	0	0	0	0	0
800	0	0	0	0	0	0	0	0	0
815	0	0	0	0	0	0	0	0	0
830	0	0	0	0	0	0	0	0	0
845	0	0	0	0	0	0	0	0	0
1500	0	0	0	0	0	0	 0	0	0
1515	0	0	0	0	0	0	0	0	0
1530	0	0	0	0	0	0	0	0	0
1545	0	0	0	0	0	0	0	0	0
1600	0	0	0	0	0	0	0	0	0
1615	0	0	0	0	0	0	0	0	0
1630	0	0	0	0	0	0	0	0	0
1645	0	0	0	0	0	0	0	0	0
1700	0	0	0	0	0	0	0	0	0
1715	0	0	0	0	0	0	0	0	0
1730	0	0	0	0	0	0	0	0	0
1745	0	0	0	0	0	0	0	0	0
=====								=======	= =====

Intersection # 10 dec/oldsutton/accspenny/multi

Barrington, IL We	eather: Cool and Dry	12/15/21
Old Sutton Rd and Access Da	r South of PennyRd	13:17:17
Tuesday December 14, 2021	Multi Unit Trucks Only	

TURNS/TEAPAC[Ver 3.61.12] - 60-Minute Volumes: by Movement

Intersection # 10	0 dec/oldsutton/	accspenny/multi
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							====						
Begin	N-2	Approa	ach	E-2	Approa	ach	s-z	Approa	ach	W-2	Approa	ach	Int
Time	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
===== 600			 0	0		 0	0		 0	0		 0	 0
615	0	0	0	0	0	0	0	0	0	0	0	0	0
630	0	0	0	0	0	0	0	0	0	0	0	0	0
645	0	0	0	0	0	0	0	0	0	0	0	0	0
700	0	0	0	0	0	0	0	0	0	0	0	0	0
715	0	0	0	0	0	0	0	0	0	0	0	0	0
730	0	0	0	0	0	0	0	0	0	0	0	0	0
745	0	0	0	0	0	0	0	0	0	0	0	0	0
800	0	0	0	0	0	0	0	0	0	0	0	0	0
815	0	0	0	0	0	0	0	0	0	0	0	0	0*
830	0	0	0	0	0	0	0	0	0	0	0	0	0*
845	0	0	0	0	0	0	0	0	0	0	0	0	0*
1500	0	0	0	0	0	0	0	0	0	0	0	0	0
1515	0	0	0	0	0	0	0	0	0	0	0	0	0
1530	0	0	0	0	0	0	0	0	0	0	0	0	0
1545	0	0	0	0	0	0	0	0	0	0	0	0	0
1600	0	0	0	0	0	0	0	0	0	0	0	0	0
1615	0	0	0	0	0	0	0	0	0	0	0	0	0
1630	0	0	0	0	0	0	0	0	0	0	0	0	0
1645	0	0	0	0	0	0	0	0	0	0	0	0	0
1700	0	0	0	0	0	0	0	0	0	0	0	0	0
1715	0	0	0	0	0	0	0	0	0	0	0	0	0*
1730	0	0	0	0	0	0	0	0	0	0	0	0	0*
1745	0	0	0	0	0	0	0	0	0	0	0	0	0*
=====	=====		====	=====		====			====			====	=====

Barrington, IL	Weather: Cool and Dry	12/15/21
Old Sutton Rd and Access	Dr South of PennyRd	13:17:17
Tuesday December 14, 2021	Multi Unit Trucks Only	

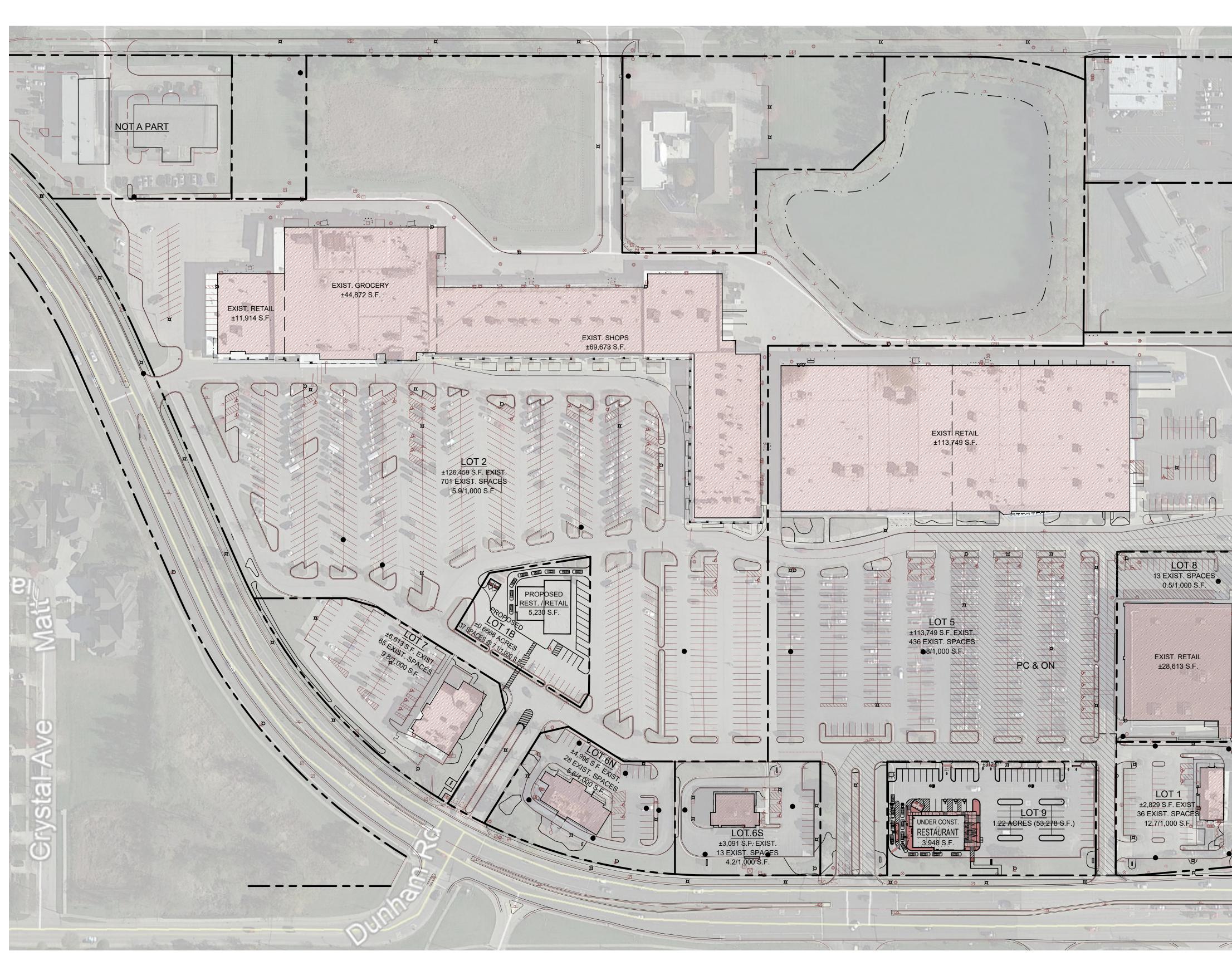
TURNS/TEAPAC[Ver 3.61.12] - 60-Minute Volumes: Appr/Exit Totals

Intersection # 10	dec/oldsutton/accspenny/multi
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	=======	======	=======	=======			======	======	=
Begin		Approa	ch Total	ls		Exit	Totals		Int
Time	N	E	S	W	N	E	S	W	Total
600	0	0	0	0	0	0	0	0	0
615	0	0	0	0	0	0	0	0	0
630	0	0	0	0	0	0	0	0	0
645	0	0	0	0	0	0	0	0	0
700	0	0	0	0	0	0	0	0	0
715	0	0	0	0	0	0	0	0	0
730	0	0	0	0	0	0	0	0	0
745	0	0	0	0	0	0	0	0	0
800	0	0	0	0	0	0	0	0	0
815	0	0	0	0	0	0	0	0	0*
830	0	0	0	0	0	0	0	0	0*
845	0	0	0	0	0	0	0	0	0*
1500	0	0	0	0	0	0	 0	0	 0
1515	0	0	0	0	0	0	0	0	0
1530	0	0	0	0	0	0	0	0	0
1545	0	0	0	0	0	0	0	0	0
1600	0	0	0	0	0	0	0	0	0
1615	0	0	0	0	0	0	0	0	0
1630	0	0	0	0	0	0	0	0	0
1645	0	0	0	0	0	0	0	0	0
1700	0	0	0	0	0	0	0	0	0
1715	0	0	0	0	0	0	0	0	0*
1730	0	0	0	0	0	0	0	0	0*
1745	0	0	0	0	0	0	0	0	0*
=====	=======	=======	=======	======	=======	======	======	======	= =====

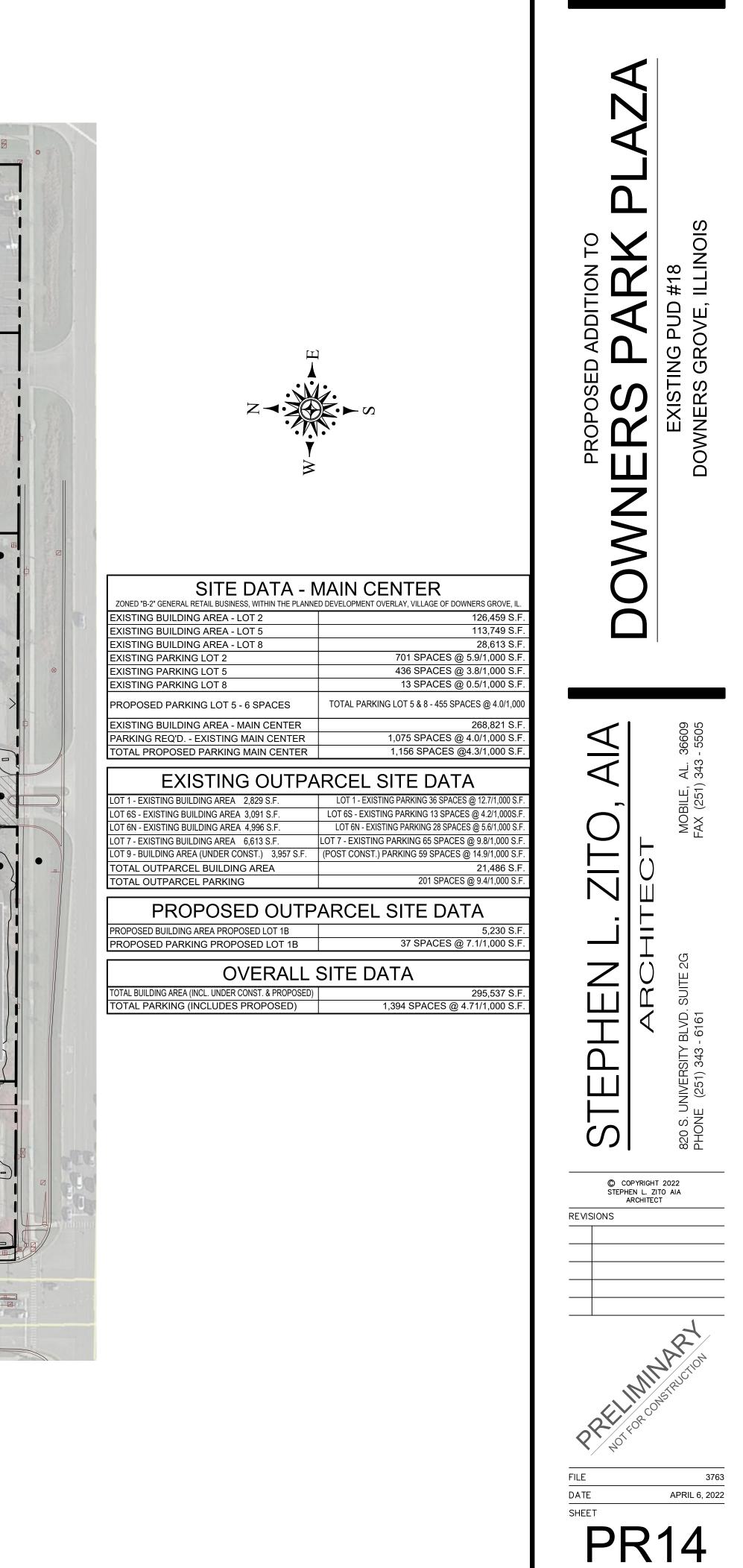
ORD 2022-9607

Site Plan





SITE PLAN



CMAP 2050 Projections Letter



433 West Van Buren Street Suite 450 Chicago, IL 60607

> 312-454-0400 cmap.illinois.gov

September 21, 2021

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

Subject: 75th Street @ Lemont Road IDOT

Dear Ms. Purguette:

In response to a request made on your behalf and dated September 21, 2021, we have developed year 2050 average daily traffic (ADT) projections for the subject location.

ROAD SEGMENT	Current ADT	Year 2050 ADT
75th St west of Lemont Rd	32,300	36,400
75th St east of Lemont Rd	31,500	35,500
Lemont Rd north of 75th St	13,400	15,100

Traffic projections are developed using existing ADT data provided in the request letter and the results from the June 2021 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 Ray

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

cc: Rios (IDOT) 2021_CY_TrafficForecast\DownersGrove\du-44-21\du-44-21.docx

Level of Service Criteria

	Signalized Intersections	
T1 . f		Average Control
Level of Service	Interpretation	Delay (seconds per vehicle)
A	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
	Unsignalized Intersections	
	Level of Service Average Total De	elay (SEC/VEH)
	A 0 ·	- 10
	B > 10	- 15
	C > 15	- 25
	D > 25	- 35
	E > 35	- 50
	F > 5	0
Source: Highwa	ay Capacity Manual, 2010.	

<u>Capacity Analysis Summary Sheets</u> Year 2021 Weekday Morning Peak Hour Conditions

Lane Group

Lanes, Volumes, Timings
<u>1: Lemont Road & Dunham Road/Middle Access Dri</u>

EBT

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WBT

EBR WBL

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EBL

ive					06/2	1/2022
*	•	1	1	1	Ļ	~
WBR	NBL	NBT	NBR	SBL	SBT	SBR
1	ľ	A		ľ	tβ	
0	147	710	12	1	430	5
0	147	710	12	1	430	5
1900	1900	1900	1900	1900	1900	1900
12	12	12	12	12	12	12

			LDIX	NDL	1001	WDIX	NDL		NDIX	ODL	001	
Lane Configurations		्र	1		र्भ	1	<u>۲</u>	≜ ⊅		ሻ	∱ î≽	
Traffic Volume (vph)	8	5	197	8	2	0	147	710	12	1	430	5
Future Volume (vph)	8	5	197	8	2	0	147	710	12	1	430	5
Ideal Flow (vphpl)	1900	1900	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)	0		105	0		85	175		0	135		0
Storage Lanes	0		1	0		1	1		0	1		0
Taper Length (ft)	60			25			165			120		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor												
Frt			0.850					0.998			0.998	
Flt Protected		0.971			0.961		0.950			0.950		
Satd. Flow (prot)	0	1845	1615	0	1674	1900	1752	3461	0	1805	3425	0
Flt Permitted		0.881			0.846		0.463			0.302		
Satd. Flow (perm)	0	1674	1615	0	1473	1900	854	3461	0	574	3425	0
Right Turn on Red			No			No			No			No
Satd. Flow (RTOR)												
Link Speed (mph)		30			30			40			40	
Link Distance (ft)		667			331			633			695	
Travel Time (s)		15.2			7.5			10.8			11.8	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	0%	0%	0%	0%	50%	0%	3%	4%	10%	0%	5%	20%
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)	0	15	221	0	11	0	165	811	0	1	489	0
Turn Type	Perm	NA	Perm	Perm	NA	Perm	pm+pt	NA		pm+pt	NA	
Protected Phases		4			8		5	2		1	6	
Permitted Phases	4		4	8		8	2			6		
Detector Phase	4	4	4	8	8	8	5	2		1	6	
Switch Phase												
Minimum Initial (s)	8.0	8.0	8.0	8.0	8.0	8.0	3.0	15.0		3.0	15.0	
Minimum Split (s)	24.0	24.0	24.0	24.0	24.0	24.0	9.5	25.0		9.5	24.0	
Total Split (s)	28.0	28.0	28.0	28.0	28.0	28.0	14.0	37.0		10.0	33.0	
Total Split (%)	37.3%	37.3%	37.3%	37.3%	37.3%	37.3%	18.7%	49.3%		13.3%	44.0%	
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	3.5	4.0		3.5	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0		0.0	2.0	
Lost Time Adjust (s)		0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	
Total Lost Time (s)		6.0	6.0		6.0	6.0	3.5	6.0		3.5	6.0	
Lead/Lag							Lag	Lead		Lag	Lead	
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	
Recall Mode	None	C-Min		None	C-Min							
Act Effct Green (s)		16.3	16.3		16.3		49.2	44.9		44.3	36.3	
Actuated g/C Ratio		0.22	0.22		0.22		0.66	0.60		0.59	0.48	

22-194 Outlot Parcel- Downers Grove sa/bsm

Lanes, Volumes, Timings 1: Lemont Road & Dunham Road/Middle Access Drive

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EBL EE	BT E	BR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
0.0	04 0	.63		0.03		0.26	0.39		0.00	0.29	
20	.8 3	4.3		20.7		3.8	5.7		6.0	13.4	
0	.0	0.0		0.0		0.0	0.0		0.0	0.0	
20				20.7		3.8	5.7		6.0	13.4	
	С	С		С		А	А		А	В	
33	.4			20.7			5.4			13.4	
	С			С			А			В	
	6			4					0		
		145				8			2		
58				251			553			615	
49	91 4	473		432		727	2073		453	1659	
	0	0		0		0	0		0	0	
	•	•		•		•			v	•	
	•	-		-					•	•	
0.0	03 0	.47		0.03		0.23	0.39		0.00	0.29	
Other											
to phase 2:NBTL	. and 6:8	SBTL	, Start of	Green							
ordinated											
ation 46.4%			IC	U Level o	of Service	A					
	EBL EE 0.0 20 0 33 33 58 45 0.0 0.0	EBL EBT E 0.04 0 20.8 3 0.0 20.8 20.8 3 0.0 20.8 33.4 C 6 18 587 6 18 587 491 4 0 0 0.03 0 0.03 0 0 0.03 Other 0 to phase 2:NBTL and 6:S ordinated 1.6	EBL EBT EBR 0.04 0.63 20.8 34.3 0.0 0.0 20.8 34.3 0.0 20.8 33.4 C 6 94 18 145 587 105 491 473 0 0 0 <td< td=""><td>EBL EBT EBR WBL 0.04 0.63 20.8 34.3 0.0 0.0 20.8 34.3 0.0 0.0 20.8 34.3 0.0 0.0 20.8 34.3 0.0 0.0 20.8 34.3 C C 33.4 0 6 94 18 145 587 105 491 473 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>EBL EBT EBR WBL WBT 0.04 0.63 0.03 20.8 34.3 20.7 0.0 0.0 0.0 20.8 34.3 20.7 0.0 0.0 0.0 20.8 34.3 20.7 0.0 0.0 0.0 20.8 34.3 20.7 C C C 33.4 20.7 C 6 94 4 18 145 15 587 251 105 491 473 432 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0.03 0.03 0.47 0.03</td><td>EBL EBT EBR WBL WBT WBR 0.04 0.63 0.03 20.8 34.3 20.7 0.0 0.0 20.8 34.3 20.7 0.0 0.0 20.8 34.3 20.7 0.0 0.0 20.8 34.3 20.7 0.0 0.0 0.0 20.8 34.3 20.7 0.0</td><td>EBL EBT EBR WBL WBT WBR NBL 0.04 0.63 0.03 0.26 20.8 34.3 20.7 3.8 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 C C C A 33.4 20.7 6 94 4 10 18 145 15 8 587 251 105 175 491 473 432 0 0 0 0 0 0 0 0 0 0.03 0.47 0.03 0.23</td><td>EBL EBT EBR WBL WBT WBR NBL NBT 0.04 0.63 0.03 0.26 0.39 20.8 34.3 20.7 3.8 5.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 C C C A A 33.4 20.7 5.4 A A 33.4 20.7 5.4 A A 33.4 20.7 5.4 A A 587 251 553 B 44 587 251 553 A44 491 473 432 727 2073 0 0 0 0 0 0 0.03 0.47 0.03 0.23<!--</td--><td>EBL EBT EBR WBL WBT WBR NBL NBT NBR 0.04 0.63 0.03 0.26 0.39 20.8 34.3 20.7 3.8 5.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.33 0.18 15 8 44 10 33 18 145 15 8 44 10 33 16 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0<!--</td--><td>EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL 0.04 0.63 0.03 0.26 0.39 0.00 20.8 34.3 20.7 3.8 5.7 6.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 6.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 6.0 C C C A A A 33.4 20.7 5.4 C C A C C C A A A A 18 145 15 8 44 2 553 105 175 135 491 473 432 727 2073 453 0 0 0 0 0 0<</td><td>EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT 0.04 0.63 0.03 0.26 0.39 0.00 0.29 20.8 34.3 20.7 3.8 5.7 6.0 13.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 6.0 13.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 6.0 13.4 C C C A A B 33.4 20.7 5.4 13.4 C C C A B B 6 94 4 10 33 0 67 18 145 15 8 44 2 122 587 251 553 615 491<</td></td></td></td<>	EBL EBT EBR WBL 0.04 0.63 20.8 34.3 0.0 0.0 20.8 34.3 0.0 0.0 20.8 34.3 0.0 0.0 20.8 34.3 0.0 0.0 20.8 34.3 C C 33.4 0 6 94 18 145 587 105 491 473 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EBL EBT EBR WBL WBT 0.04 0.63 0.03 20.8 34.3 20.7 0.0 0.0 0.0 20.8 34.3 20.7 0.0 0.0 0.0 20.8 34.3 20.7 0.0 0.0 0.0 20.8 34.3 20.7 C C C 33.4 20.7 C 6 94 4 18 145 15 587 251 105 491 473 432 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0.03 0.03 0.47 0.03	EBL EBT EBR WBL WBT WBR 0.04 0.63 0.03 20.8 34.3 20.7 0.0 0.0 20.8 34.3 20.7 0.0 0.0 20.8 34.3 20.7 0.0 0.0 20.8 34.3 20.7 0.0 0.0 0.0 20.8 34.3 20.7 0.0	EBL EBT EBR WBL WBT WBR NBL 0.04 0.63 0.03 0.26 20.8 34.3 20.7 3.8 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 C C C A 33.4 20.7 6 94 4 10 18 145 15 8 587 251 105 175 491 473 432 0 0 0 0 0 0 0 0 0 0.03 0.47 0.03 0.23	EBL EBT EBR WBL WBT WBR NBL NBT 0.04 0.63 0.03 0.26 0.39 20.8 34.3 20.7 3.8 5.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 C C C A A 33.4 20.7 5.4 A A 33.4 20.7 5.4 A A 33.4 20.7 5.4 A A 587 251 553 B 44 587 251 553 A44 491 473 432 727 2073 0 0 0 0 0 0 0.03 0.47 0.03 0.23 </td <td>EBL EBT EBR WBL WBT WBR NBL NBT NBR 0.04 0.63 0.03 0.26 0.39 20.8 34.3 20.7 3.8 5.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.33 0.18 15 8 44 10 33 18 145 15 8 44 10 33 16 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0<!--</td--><td>EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL 0.04 0.63 0.03 0.26 0.39 0.00 20.8 34.3 20.7 3.8 5.7 6.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 6.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 6.0 C C C A A A 33.4 20.7 5.4 C C A C C C A A A A 18 145 15 8 44 2 553 105 175 135 491 473 432 727 2073 453 0 0 0 0 0 0<</td><td>EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT 0.04 0.63 0.03 0.26 0.39 0.00 0.29 20.8 34.3 20.7 3.8 5.7 6.0 13.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 6.0 13.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 6.0 13.4 C C C A A B 33.4 20.7 5.4 13.4 C C C A B B 6 94 4 10 33 0 67 18 145 15 8 44 2 122 587 251 553 615 491<</td></td>	EBL EBT EBR WBL WBT WBR NBL NBT NBR 0.04 0.63 0.03 0.26 0.39 20.8 34.3 20.7 3.8 5.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.33 0.18 15 8 44 10 33 18 145 15 8 44 10 33 16 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 </td <td>EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL 0.04 0.63 0.03 0.26 0.39 0.00 20.8 34.3 20.7 3.8 5.7 6.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 6.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 6.0 C C C A A A 33.4 20.7 5.4 C C A C C C A A A A 18 145 15 8 44 2 553 105 175 135 491 473 432 727 2073 453 0 0 0 0 0 0<</td> <td>EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT 0.04 0.63 0.03 0.26 0.39 0.00 0.29 20.8 34.3 20.7 3.8 5.7 6.0 13.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 6.0 13.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 6.0 13.4 C C C A A B 33.4 20.7 5.4 13.4 C C C A B B 6 94 4 10 33 0 67 18 145 15 8 44 2 122 587 251 553 615 491<</td>	EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL 0.04 0.63 0.03 0.26 0.39 0.00 20.8 34.3 20.7 3.8 5.7 6.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 6.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 6.0 C C C A A A 33.4 20.7 5.4 C C A C C C A A A A 18 145 15 8 44 2 553 105 175 135 491 473 432 727 2073 453 0 0 0 0 0 0<	EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT 0.04 0.63 0.03 0.26 0.39 0.00 0.29 20.8 34.3 20.7 3.8 5.7 6.0 13.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 6.0 13.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20.8 34.3 20.7 3.8 5.7 6.0 13.4 C C C A A B 33.4 20.7 5.4 13.4 C C C A B B 6 94 4 10 33 0 67 18 145 15 8 44 2 122 587 251 553 615 491<

Splits and Phases: 1: Lemont Road & Dunham Road/Middle Access Drive

Ø2 (R)		Ø1	- 104	
37 s		10 s	28 s	
Ø6 (R)		Ø 5	₩ Ø8	
33 s	1	14 s	28 s	

Lanes,	Volumes	, Timing	js	

06/21/2022

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	ţ,		ሻ	¢.		۲	đ₽		٦	† †	1
Traffic Volume (vph)	36	3	7	14	2	2	15	831	9	5	618	12
Future Volume (vph)	36	3	7	14	2	2	15	831	9	5	618	12
Ideal Flow (vphpl)	1900	1900	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 (%)	12	0%	15	12	0%	12	12	0%	15	12	0%	12
Storage Length (ft)	85	0,0	0	85	0,0	0	200	0,0	0	70	0,0	160
Storage Lanes	1		0	1		0	1		0	1		1
Taper Length (ft)	75		•	75		•	130		•	175		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	1.00
Ped Bike Factor												
Frt		0.891			0.925			0.998				0.850
Flt Protected	0.950			0.950	0.020		0.950			0.950		
Satd. Flow (prot)	1656	1608	0	1805	1758	0	1805	3466	0	1805	3505	1380
Flt Permitted	0.833		•			•	0.395	• • • • •	•	0.291		
Satd. Flow (perm)	1452	1608	0	1900	1758	0	750	3466	0	553	3505	1380
Right Turn on Red			Yes			Yes		• • • • •	Yes			Yes
Satd. Flow (RTOR)		8			2			2				145
Link Speed (mph)		30			30			40			40	
Link Distance (ft)		302			294			366			633	
Travel Time (s)		6.9			6.7			6.2			10.8	
Confl. Peds. (#/hr)		0.0			•			•.=				
Confl. Bikes (#/hr)												
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	9%	14%	2%	0%	0%	0%	0%	4%	0%	0%	3%	17%
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)	39	11	0	15	4	0	16	904	0	5	665	13
Turn Type	pm+pt	NA		pm+pt	NA		pm+pt	NA		pm+pt	NA	Perm
Protected Phases	7	4		3	8		5	2			6	
Permitted Phases	4			8			2			6		6
Detector Phase	7	4		3	8		5	2		1	6	6
Switch Phase												
Minimum Initial (s)	3.0	8.0		3.0	8.0		3.0	15.0		3.0	15.0	15.0
Minimum Split (s)	9.5	23.0		9.5	23.0		9.5	25.0		9.5	24.0	24.0
Total Split (s)	10.0	23.0		10.0	23.0		10.0	32.0		10.0	32.0	32.0
Total Split (%)	13.3%	30.7%		13.3%	30.7%		13.3%	42.7%		13.3%	42.7%	42.7%
Yellow Time (s)	3.5	4.0		3.5	4.0		3.5	4.0		3.5	4.0	4.0
All-Red Time (s)	0.0	2.0		0.0	2.0		0.0	2.0		0.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	3.5	6.0		3.5	6.0		3.5	6.0		3.5	6.0	6.0
Lead/Lag	Lag	Lead		Lag	Lead		Lag	Lead		Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None		None	C-Min		None	C-Min	C-Min
Act Effct Green (s)	9.8	8.0		8.0	8.0		63.7	59.3		62.8	59.3	59.3

22-194 Outlot Parcel- Downers Grove sa/bsm

2: Lemont Road &	Signaliz	ed Aco	cess D	rive/So	outh A	ccess	Drive				06/2	1/2022
	۶	-	$\mathbf{\hat{v}}$	4	←	*	1	Ť	1	1	ţ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.19	0.06		0.08	0.02		0.02	0.33		0.01	0.24	0.01
Control Delay	27.8	21.2		26.9	25.5		3.0	5.7		0.6	2.0	0.0
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	0.0
Total Delay	27.8	21.2		26.9	25.5		3.0	5.7		0.6	2.0	0.0
LOS	С	С		С	С		А	А		А	А	A
Approach Delay		26.4			26.6			5.7			1.9	
Approach LOS		С			С			А			А	
Queue Length 50th (ft)	16	1		7	1		1	62		0	6	0
Queue Length 95th (ft)	36	16		19	9		8	195		m1	60	m0
Internal Link Dist (ft)		222			214			286			553	
Turn Bay Length (ft)	85			85			200			70		160
Base Capacity (vph)	219	370		210	400		738	2743		575	2773	1122
Starvation Cap Reductn	0	0		0	0		0	0		0	0	0
Spillback Cap Reductn	0	0		0	0		0	0		0	0	0
Storage Cap Reductn	0	0		0	0		0	0		0	0	0
Reduced v/c Ratio	0.18	0.03		0.07	0.01		0.02	0.33		0.01	0.24	0.01
Intersection Summary												
··· //··	Other											
Cycle Length: 75												
Actuated Cycle Length: 75												
Offset: 2 (3%), Referenced	to phase 2:I	NBTL and	I 6:SBTL,	Start of (Green							
Natural Cycle: 70												
Control Type: Actuated-Coo	ordinated											
Maximum v/c Ratio: 0.33	•											
Intersection Signal Delay: 5					tersection							
Intersection Capacity Utiliza	tion 41.9%			IC	U Level c	of Service	A					
Analysis Period (min) 15 m Volume for 95th percen												

Splits and Phases: 2: Lemont Road & Signalized Access Drive/South Access Drive

Ø2 (R)	Ø1	<u>→</u> _{Ø4}	√ Ø3
32 s	10 s	23 s	10 s
Ø6 (R)	▲ ø5	₩ Ø8	▶ Ø7
32 s	10 s	23 s	10 s

Intersection							
Int Delay, s/veh	0.5						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	•
Lane Configurations	۰¥		∱ î≽		<u>۲</u>	^	•
Traffic Vol, veh/h	6	12	704	14	29	430	1
Future Vol, veh/h	6	12	704	14	29	430)
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	-	-	-	100	-	
Veh in Median Storage	, # 1	-	0	-	-	0	J
Grade, %	0	-	0	-	-	0	J
Peak Hour Factor	97	97	97	97	97	97	
Heavy Vehicles, %	3	14	7	4	50	0)
Mvmt Flow	6	12	726	14	30	443	5

Major/Minor	Minor1	М	ajor1	N	lajor2	
Conflicting Flow All	1015	370	0	0	740	0
Stage 1	733	-	-	-	-	-
Stage 2	282	-	-	-	-	-
Critical Hdwy	6.86	7.18	-	-	5.1	-
Critical Hdwy Stg 1	5.86	-	-	-	-	-
Critical Hdwy Stg 2	5.86	-	-	-	-	-
Follow-up Hdwy	3.53	3.44	-	-	2.7	-
Pot Cap-1 Maneuver	233	594	-	-	609	-
Stage 1	434	-	-	-	-	-
Stage 2	738	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver		594	-	-	609	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	434	-	-	-	-	-
Stage 2	702	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	12.9	0	0.7
HCM LOS	В		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	- 474	609	-
HCM Lane V/C Ratio	-	- 0.039	0.049	-
HCM Control Delay (s)	-	- 12.9	11.2	-
HCM Lane LOS	-	- E	В	-
HCM 95th %tile Q(veh)	-	- 0.1	0.2	-

Intersection													
Int Delay, s/veh	0												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations						1		_ ≜ î≽			^		
Traffic Vol, veh/h	0	0	0	0	0	1	0	854	11	0	639	0	
Future Vol, veh/h	0	0	0	0	0	1	0	854	11	0	639	0	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	0	-	-	-	-	-	-	
Veh in Median Storage	, # -	3	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92	
Heavy Vehicles, %	0	0	0	0	0	0	0	4	9	0	3	0	
Mvmt Flow	0	0	0	0	0	1	0	928	12	0	695	0	

Major/Minor		Minor1		N	lajor1		Ma	ajor2			
Conflicting Flow All		-	-	470	-	0	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	0	545	0	-	-	0	-	0	
Stage 1		0	0	-	0	-	-	0	-	0	
Stage 2		0	0	-	0	-	-	0	-	0	
Platoon blocked, %						-	-		-		
Mov Cap-1 Maneuver		-	0	545	-	-	-	-	-	-	
Mov Cap-2 Maneuver		-	0	-	-	-	-	-	-	-	
Stage 1		-	0	-	-	-	-	-	-	-	
Stage 2		-	0	-	-	-	-	-	-	-	
Approach		WB			NB			SB			
HCM Control Delay, s		11.6			0			0			
HCM LOS		В									
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBT								
Capacity (veh/h)	-	- 545	-								
HCM Lane V/C Ratio	-	- 0.002	-								
HCM Control Delay (s)	-	- 11.6	-								
HCM Lane LOS	-	- B	-								

0

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HCM 95th %tile Q(veh)

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		***	朴朴			1
Traffic Vol, veh/h	0	1327	873	17	0	4
Future Vol, veh/h	0	1327	873	17	0	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	-	-	-	-	-	0
Veh in Median Storage	e, # -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	0	3	2	12	0	25
Mvmt Flow	0	1412	929	18	0	4

Major/Minor	Major1	Ν	/lajor2	Ν	linor2	
Conflicting Flow All	-	0	-	0	-	474
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.6
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	4.15
Pot Cap-1 Maneuver	0	-	-	-	0	414
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	414
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		13.8	
HCM LOS	-		-		В	
NA'		EDT				
Minor Lane/Major Mvm	nt	EBT	WBT	WBR S		
Capacity (veh/h)		-	-	-	414	
HCM Lane V/C Ratio		-	-	-	0.01	
HCM Control Delay (s)		-	-	-	13.8	
HCM Lane LOS		-	-	-	В	
HCM 95th %tile Q(veh))	-	-	-	0	

Intersection Capacity Utilization 6: Internal Drive & Middle Access Drive

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Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	<u>۲</u>	1		र्च	4Î		
Volume (vph)	49	23	16	70	98	43	
Pedestrians							
Ped Button							
Pedestrian Timing (s)							
Free Right		No				No	
deal Flow	1900	1900	1900	1900	1900	1900	
₋ost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Vinimum Green (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Refr Cycle Length (s)	120	120	120	120	120	120	
/olume Combined (vph)	49	23	0	86	141	0	
ane Utilization Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Furning Factor (vph)	0.95	0.85	0.95	0.99	0.95	0.85	
Saturated Flow (vph)	1805	1615	0	1882	1813	0	
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	
Pedestrian Frequency (%)	0.00			0.00	0.00		
Protected Option Allowed	No			No	No		
Reference Time (s)		1.7				0.0	
Adj Reference Time (s)		8.0				0.0	
Permitted Option							
Adj Saturation A (vph)	120		0	493	1813		
Reference Time A (s)	48.9		0.0	20.9	9.3		
Adj Saturation B (vph	NA		NA	NA	1813		
Reference Time B (s)	NA		NA	NA	9.3		
Reference Time (s)	11/1		117.1	20.9	9.3		
Adj Reference Time (s)				24.9	13.3		
Split Option				24.0	10.0		
Ref Time Combined (s)	3.3		0.0	5.5	9.3		
Ref Time Seperate (s)	3.3		1.1	4.4	9.5 6.5		
Reference Time (s)	3.3		5.5	5.5	9.3		
	3.3 8.0		9.5	9.5	9.3 13.3		
Adj Reference Time (s)							
Summary	EB		NB SB	Co	mbined		
Protected Option (s)	NA		NA				
Permitted Option (s)	Err		24.9				
Split Option (s)	8.0		22.8				
Vinimum (s)	8.0		22.8		30.8		
Right Turns	EBR						
Adj Reference Time (s)	8.0						
Cross Thru Ref Time (s)	13.3						
Dncoming Left Ref Time (s)	0.0						
Combined (s)	21.3						
ntersection Summary							
Intersection Capacity Utilization	n		25.7%		U Level o	of Service	A A

Reference Times and Phasing Options do not represent an optimized timing plan.

Intersection Capacity Utilization 7: Internal Drive & South Access Drive

	≯	\mathbf{i}	•	t	ţ	~
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	5	1		र्भ	ţ,	
Volume (vph)	55	42	112	31	19	102
Pedestrians						
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1900	1900	1900	1900	1900	1900
Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Minimum Green (s)	4.0	4.0	4.0	4.0	4.0	4.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	55	42	0	143	121	0
Lane Utilization Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Factor (vph)	0.95	0.85	0.95	0.96	0.87	0.85
Saturated Flow (vph)	1805	1615	0.95	1826	1660	0.05
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.0	0.0	0.0	0.0	0.00	0.0
Protected Option Allowed	No	0.4		No	No	0.0
Reference Time (s)		3.1				0.0
Adj Reference Time (s)		8.0				0.0
Permitted Option	400		0		4000	
Adj Saturation A (vph)	120		0	144	1660	
Reference Time A (s)	54.8		0.0	118.8	8.7	
Adj Saturation B (vph	NA		NA	NA	1660	
Reference Time B (s)	NA		NA	NA	8.7	
Reference Time (s)				118.8	8.7	
Adj Reference Time (s)				122.8	12.7	
Split Option						
Ref Time Combined (s)	3.7		0.0	9.4	8.7	
Ref Time Seperate (s)	3.7		7.4	2.0	1.4	
Reference Time (s)	3.7		9.4	9.4	8.7	
Adj Reference Time (s)	8.0		13.4	13.4	12.7	
Summary	EB		NB SB	Co	mbined	
Protected Option (s)	NA		NA			
Permitted Option (s)	Err		122.8			
Split Option (s)	8.0		26.1			
Minimum (s)	8.0		26.1		34.1	
			20.1		J 4 .1	
Right Turns	EBR					
Adj Reference Time (s)	8.0					
Cross Thru Ref Time (s)	12.7					
Oncoming Left Ref Time (s)	0.0					
Combined (s)	20.7					
. ,						
Intersection Summary			00 50/			<u> </u>
Intersection Capacity Utilization	n		28.5%	IC	U Level of	of Service

Reference Times and Phasing Options do not represent an optimized timing plan.

<u>Capacity Analysis Summary Sheets</u> Year 2021 Weekday Evening Peak Hour Conditions

Lane Group Lane Configurations Traffic Volume (vph) Future Volume (vph) Ideal Flow (vphpl) Lane Width (ft) Grade (%) Storage Length (ft) Storage Lanes Taper Length (ft) Lane Util. Factor Ped Bike Factor

Frt

Flt Protected Satd. Flow (prot) Flt Permitted Satd. Flow (perm) **Right Turn on Red** Satd. Flow (RTOR) Link Speed (mph) Link Distance (ft) Travel Time (s) Confl. Peds. (#/hr) Confl. Bikes (#/hr) Peak Hour Factor Growth Factor Heavy Vehicles (%) Bus Blockages (#/hr) Parking (#/hr) Mid-Block Traffic (%) Shared Lane Traffic (%) Lane Group Flow (vph)

Turn Type

Protected Phases

Permitted Phases

Minimum Split (s)

Detector Phase

Switch Phase Minimum Initial (s)

Total Split (s)

Total Split (%)

Yellow Time (s)

All-Red Time (s)

Lost Time Adjust (s)

Total Lost Time (s)

Lead-Lag Optimize?

Lead/Lag

Recall Mode

06/21/2022

Lanes, Volumes, Timings

1: Lemont Road & Dunham Road/Middle Access Drive

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EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
	र्भ	1		र्भ	1	5	≜ †}		5	†î≽	
7	19	155	37	17	5	167	620	43	10	705	11
7	19	155	37	17	5	167	620	43	10	705	11
1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
12	12	12	12	12	12	12	12	12	12	12	12
	0%			0%			0%			0%	
0		105	0		85	175		0	135		0
0		1	0		1	1		0	1		0
60			25			165			120		
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	0.95
		0.850			0.850		0.990			0.998	
	0.987			0.967		0.950			0.950		
0	1875	1615	0	1837	1615	1805	3536	0	1805	3568	0
	0.926			0.785		0.336			0.379		
0	1759	1615	0	1492	1615	638	3536	0	720	3568	0
		No			No			No			No
	30			30			40			40	
	667			331			633			695	
	15.2			7.5			10.8			11.8	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
0%	0%	0%	0%	0%	0%	0%	1%	2%	0%	1%	0%
0	0	0	0	0	0	0	0	0	0	0	0
	00/			00/			00/			00/	
	0%			0%			0%			0%	

 Act Effct Green (s)
 13.5
 13.5

 Actuated g/C Ratio
 0.18
 0.18

 22-194 Outlot Parcel- Downers Grove sa/bsm
 13.5
 13.5

0

4

4

8.0

22.5

26.0

4.0

2.0

None

34.7%

Perm

26

NA

4

4

8.0

22.5

26.0

4.0

2.0

0.0

6.0

None

34.7%

158

4

4

8.0

22.5

26.0

4.0

2.0

0.0

6.0

None

34.7%

Perm

0

8

8

8.0

22.5

26.0

4.0

2.0

None

34.7%

Perm

55

NA

8

8

8.0

22.5

26.0

4.0

2.0

0.0

6.0

None

13.5

0.18

34.7%

5

8

8

8.0

22.5

26.0

4.0

2.0

0.0

6.0

None

13.5

0.18

34.7%

Perm

170

5

2

5

3.0

9.5

14.0

3.5

0.0

0.0

3.5

Lag

Yes

None

52.0

0.69

18.7%

pm+pt

677

NA

2

2

15.0

22.5

39.0

4.0

2.0

0.0

6.0

Lead

Yes

C-Min

47.7

0.64

52.0%

0

10

1

6

1

3.0

9.5

10.0

3.5

0.0

0.0

3.5

Lag

Yes None

47.4

0.63

13.3%

pm+pt

730

NA

6

6

15.0

22.5

35.0

4.0

2.0

0.0

6.0

Lead

C-Min 39.5

0.53

Yes

46.7%

0

Lanes, Volumes, Timings 1: Lemont Road & Dunham Road/Middle Access Drive

Burnhammitteu	a/ Wilda	10 / 1000		10						
> →	\mathbf{r}	4	←	•	1	Ť	1	1	ţ	~
EBL EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
0.08	0.55		0.21	0.02	0.31	0.30		0.02	0.39	
24.2	34.4		26.4	22.8	3.8	2.5		4.9	12.3	
0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	
24.2	34.4		26.4	22.8	3.8	2.5		4.9	12.3	
	С		С	С	А	А		А	В	
			26.1			2.8			12.2	
С			С			А			В	
10			22	2		-		1		
28	115		48	10	22	18		6	173	
587			251			553			615	
469	430		397	430	639	2249		558	1879	
0	0		0	0	0	0		0	0	
•	•		0	0		0		0	0	
	-					-		-	-	
0.06	0.37		0.14	0.01	0.27	0.30		0.02	0.39	
Other										
to phase 2:NBTL an	d 6:SBTL	., Start of G	ireen							
ordinated										
ation 52.0%		ICL	J Level o	of Service	A					
	EBL EBT 0.08 24.2 0.0 24.2 C 33.0 C 33.0 C 10 28 587 469 0 0 0 0.06 0 Other 0	EBL EBT EBR 0.08 0.55 24.2 34.4 0.0 0.0 24.2 34.4 0.0 0.0 24.2 34.4 C C 33.0 C 10 68 28 115 587 105 469 430 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0.06 0.37 Other to phase 2:NBTL and 6:SBTL ordinated 0.4	EBL EBT EBR WBL 0.08 0.55 24.2 34.4 0.0 0.0 24.2 34.4 0.0 0.0 24.2 34.4 C C 33.0 0 C C 33.0 0 0 10 68 28 115 587 587 105 469 430 0 0 0 <td>EBL EBT EBR WBL WBT 0.08 0.55 0.21 24.2 34.4 26.4 0.0 0.0 0.0 0.0 26.1 C C C C 10 33.0 26.1 C C 10 10 68 22 28 115 48 587 251 105 105 105 105 10 <td< td=""><td>EBL EBT EBR WBL WBT WBR 0.08 0.55 0.21 0.02 24.2 34.4 26.4 22.8 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 C C C C 33.0 26.1 22 2 33.0 26.1 22 2 10 68 22 2 28 115 48 10 587 251 105 85 469 430 397 430 0 0 0 0 0 0 0 0 0 0 0 0 0 0.37 0.14 0.01</td><td>EBL EBT EBR WBL WBT WBR NBL 0.08 0.55 0.21 0.02 0.31 24.2 34.4 26.4 22.8 3.8 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 C C C A 3.3 3.8 C C C C A 3.3 10 68 22 2 12 28 115 48 10 22 587 251 105 85 175 469 430 397 430 639 0 0 0 0 0 0 0.06 0.37 0.14 0.01 0.27</td><td>EBL EBT EBR WBL WBT WBR NBL NBT 0.08 0.55 0.21 0.02 0.31 0.30 24.2 34.4 26.4 22.8 3.8 2.5 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 C C C A A 33.0 26.1 2.8 2.8 2.8 C C C A A 10 68 22 2 12 32 28 115 48 10 22 18 587 251 553 553 553 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>EBL EBT EBR WBL WBT WBR NBL NBT NBR 0.08 0.55 0.21 0.02 0.31 0.30 24.2 34.4 26.4 22.8 3.8 2.5 0.00 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 C C C A A 33.0 26.1 2.8 2.8 1.5 10 68 22 2 12 32 28 115 48 10 22 18 587 251 553 553 553 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0.06 0.3</td><td>EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL 0.08 0.55 0.21 0.02 0.31 0.30 0.02 24.2 34.4 26.4 22.8 3.8 2.5 4.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 4.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 4.9 C C C A A A 33.0 26.1 2.8 1 1 6 587 251 553 135 135 135 469 430 397 430 639 2249 558 0 0 0 0 0 0 0 0 0</td><td>EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT 0.08 0.55 0.21 0.02 0.31 0.30 0.02 0.39 24.2 34.4 26.4 22.8 3.8 2.5 4.9 12.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 4.9 12.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 4.9 12.3 C C C C A A B 33.0 26.1 2.8 1.8 12.2 1 96 12.3 12.2 1 96 173 553 615 135 135 146 173 587 251 553 615 135 105 85 175 135 135 1469 40 0</td></td<></td>	EBL EBT EBR WBL WBT 0.08 0.55 0.21 24.2 34.4 26.4 0.0 0.0 0.0 0.0 26.1 C C C C 10 33.0 26.1 C C 10 10 68 22 28 115 48 587 251 105 105 105 105 10 0 <td< td=""><td>EBL EBT EBR WBL WBT WBR 0.08 0.55 0.21 0.02 24.2 34.4 26.4 22.8 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 C C C C 33.0 26.1 22 2 33.0 26.1 22 2 10 68 22 2 28 115 48 10 587 251 105 85 469 430 397 430 0 0 0 0 0 0 0 0 0 0 0 0 0 0.37 0.14 0.01</td><td>EBL EBT EBR WBL WBT WBR NBL 0.08 0.55 0.21 0.02 0.31 24.2 34.4 26.4 22.8 3.8 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 C C C A 3.3 3.8 C C C C A 3.3 10 68 22 2 12 28 115 48 10 22 587 251 105 85 175 469 430 397 430 639 0 0 0 0 0 0 0.06 0.37 0.14 0.01 0.27</td><td>EBL EBT EBR WBL WBT WBR NBL NBT 0.08 0.55 0.21 0.02 0.31 0.30 24.2 34.4 26.4 22.8 3.8 2.5 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 C C C A A 33.0 26.1 2.8 2.8 2.8 C C C A A 10 68 22 2 12 32 28 115 48 10 22 18 587 251 553 553 553 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>EBL EBT EBR WBL WBT WBR NBL NBT NBR 0.08 0.55 0.21 0.02 0.31 0.30 24.2 34.4 26.4 22.8 3.8 2.5 0.00 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 C C C A A 33.0 26.1 2.8 2.8 1.5 10 68 22 2 12 32 28 115 48 10 22 18 587 251 553 553 553 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0.06 0.3</td><td>EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL 0.08 0.55 0.21 0.02 0.31 0.30 0.02 24.2 34.4 26.4 22.8 3.8 2.5 4.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 4.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 4.9 C C C A A A 33.0 26.1 2.8 1 1 6 587 251 553 135 135 135 469 430 397 430 639 2249 558 0 0 0 0 0 0 0 0 0</td><td>EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT 0.08 0.55 0.21 0.02 0.31 0.30 0.02 0.39 24.2 34.4 26.4 22.8 3.8 2.5 4.9 12.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 4.9 12.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 4.9 12.3 C C C C A A B 33.0 26.1 2.8 1.8 12.2 1 96 12.3 12.2 1 96 173 553 615 135 135 146 173 587 251 553 615 135 105 85 175 135 135 1469 40 0</td></td<>	EBL EBT EBR WBL WBT WBR 0.08 0.55 0.21 0.02 24.2 34.4 26.4 22.8 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 C C C C 33.0 26.1 22 2 33.0 26.1 22 2 10 68 22 2 28 115 48 10 587 251 105 85 469 430 397 430 0 0 0 0 0 0 0 0 0 0 0 0 0 0.37 0.14 0.01	EBL EBT EBR WBL WBT WBR NBL 0.08 0.55 0.21 0.02 0.31 24.2 34.4 26.4 22.8 3.8 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 C C C A 3.3 3.8 C C C C A 3.3 10 68 22 2 12 28 115 48 10 22 587 251 105 85 175 469 430 397 430 639 0 0 0 0 0 0 0.06 0.37 0.14 0.01 0.27	EBL EBT EBR WBL WBT WBR NBL NBT 0.08 0.55 0.21 0.02 0.31 0.30 24.2 34.4 26.4 22.8 3.8 2.5 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 C C C A A 33.0 26.1 2.8 2.8 2.8 C C C A A 10 68 22 2 12 32 28 115 48 10 22 18 587 251 553 553 553 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EBL EBT EBR WBL WBT WBR NBL NBT NBR 0.08 0.55 0.21 0.02 0.31 0.30 24.2 34.4 26.4 22.8 3.8 2.5 0.00 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 C C C A A 33.0 26.1 2.8 2.8 1.5 10 68 22 2 12 32 28 115 48 10 22 18 587 251 553 553 553 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0.06 0.3	EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL 0.08 0.55 0.21 0.02 0.31 0.30 0.02 24.2 34.4 26.4 22.8 3.8 2.5 4.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 4.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 4.9 C C C A A A 33.0 26.1 2.8 1 1 6 587 251 553 135 135 135 469 430 397 430 639 2249 558 0 0 0 0 0 0 0 0 0	EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT 0.08 0.55 0.21 0.02 0.31 0.30 0.02 0.39 24.2 34.4 26.4 22.8 3.8 2.5 4.9 12.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 4.9 12.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 24.2 34.4 26.4 22.8 3.8 2.5 4.9 12.3 C C C C A A B 33.0 26.1 2.8 1.8 12.2 1 96 12.3 12.2 1 96 173 553 615 135 135 146 173 587 251 553 615 135 105 85 175 135 135 1469 40 0

Splits and Phases: 1: Lemont Road & Dunham Road/Middle Access Drive

Splits and Fliases.	IE ALLES	SDIIVE		
Ø2 (R)		Ø1	↓ 04	
39 s		10 s	26 s	
Ø6 (R)		Ø5	₩ Ø8	
35 s	14 s		26 s	

Lanes, Volumes,	Timings
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2: Lemont Road & Signalized Access Drive/South Access Drive

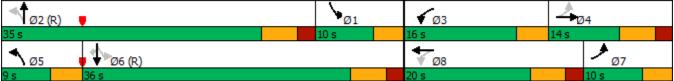
06/01/0000
06/21/2022

	۶	-	\mathbf{F}	4	+	*	•	Ť	1	1	ţ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	۲	eî.		ľ	4Î		۲.	≜ ⊅		۲.	<u></u>	1
Traffic Volume (vph)	66	11	42	190	7	17	55	747	65	21	807	69
Future Volume (vph)	66	11	42	190	7	17	55	747	65	21	807	69
Ideal Flow (vphpl)	1900	1900	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)	85		0	85		0	200		0	70		160
Storage Lanes	1		0	1		0	1		0	1		1
Taper Length (ft)	75			75			130			175		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	1.00
Ped Bike Factor												
Frt		0.881			0.892			0.988				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1805	1674	0	1805	1695	0	1805	3534	0	1805	3574	1615
Flt Permitted	0.000			0.000			0.236			0.337		
Satd. Flow (perm)	0	1674	0	0	1695	0	448	3534	0	640	3574	1615
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		43			18			14				145
Link Speed (mph)		30			30			40			40	
Link Distance (ft)		302			294			366			633	
Travel Time (s)		6.9			6.7			6.2			10.8	
Confl. Peds. (#/hr)												
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%	0%	0%	0%	0%	0%	0%	1%	0%	0%	1%	0%
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)	68	54	0	196	25	0	57	837	0	22	832	71
Turn Type	pm+pt	NA		pm+pt	NA		pm+pt	NA		pm+pt	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4			8			2			6		6
Detector Phase	7	4		3	8		5	2		1	6	6
Switch Phase												
Minimum Initial (s)	3.0	8.0		3.0	8.0		3.0	15.0		3.0	15.0	15.0
Minimum Split (s)	9.5	14.0		9.5	14.0		9.0	24.0		9.5	24.0	24.0
Total Split (s)	10.0	14.0		16.0	20.0		9.0	35.0		10.0	36.0	36.0
Total Split (%)	13.3%	18.7%		21.3%	26.7%		12.0%	46.7%		13.3%	48.0%	48.0%
Yellow Time (s)	3.5	4.0		3.5	4.0		3.5	4.0		3.5	4.0	4.0
All-Red Time (s)	0.0	2.0		0.0	2.0		0.0	2.0		0.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	3.5	6.0		3.5	6.0		3.5	6.0		3.5	6.0	6.0
Lead/Lag	Lag	Lag		Lead	Lead		Lead	Lead		Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None		None	C-Min		None	C-Min	C-Min
Act Effct Green (s)	12.7	8.0		11.9	8.3		43.7	41.2		42.3	39.8	39.8
Actuated g/C Ratio	0.17	0.0		0.16	0.5		0.58	0.55		42.5	0.53	0.53
	0.17	0.11		0.10	0.11		0.00	0.00		0.00	0.00	0.00

22-194 Outlot Parcel- Downers Grove sa/bsm

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
v/c Ratio	0.22	0.25		0.69	0.12		0.16	0.43		0.05	0.44	0.08
Control Delay	28.0	16.6		43.5	18.7		12.1	13.4		5.5	8.2	0.0
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	0.
Total Delay	28.0	16.6		43.5	18.7		12.1	13.4		5.5	8.2	0.
LOS	С	В		D	В		В	В		А	А	
Approach Delay		22.9			40.7			13.4			7.6	
Approach LOS		С			D			В			А	
Queue Length 50th (ft)	21	5		86	3		11	117		3	173	
Queue Length 95th (ft)	63	36		#167	24		36	215		m7	74	
nternal Link Dist (ft)		222			214			286			553	
Turn Bay Length (ft)	85			85			200			70		16
Base Capacity (vph)	309	216		300	331		361	1949		464	1898	92
Starvation Cap Reductn	0	0		0	0		0	0		0	0	
Spillback Cap Reductn	0	0		0	0		0	0		0	0	
Storage Cap Reductn	0	0		0	0		0	0		0	0	
Reduced v/c Ratio	0.22	0.25		0.65	0.08		0.16	0.43		0.05	0.44	0.0
ntersection Summary												
J 1	Other											
Cycle Length: 75												
Actuated Cycle Length: 75												
Offset: 6 (8%), Referenced t	to phase 2:I	VBTL and	16:SBTL,	Start of (Green							
Natural Cycle: 60												
Control Type: Actuated-Coo	rdinated											
Vaximum v/c Ratio: 0.69												
ntersection Signal Delay: 14					tersectior		_					
ntersection Capacity Utiliza	tion 56.6%			IC	U Level o	of Service	В					
Analysis Period (min) 15												
# 95th percentile volume e	exceeds cap	oacity, qu cycles.	eue may	be longer								

Splits and Phases: 2: Lemont Road & Signalized Access Drive/South Access Drive



Intersection						
Int Delay, s/veh	1.6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	۰¥		∱ î≽		<u>۲</u>	- † †
Traffic Vol, veh/h	19	107	614	18	75	707
Future Vol, veh/h	19	107	614	18	75	707
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	-	-	-	100	-
Veh in Median Storage	, # 1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	1	11	0	2	0	0
Mvmt Flow	20	111	640	19	78	736

Major/Minor	Minor1	М	ajor1	N	lajor2	
Conflicting Flow All	1174	330	0	0	659	0
Stage 1	650	-	-	-	-	-
Stage 2	524	-	-	-	-	-
Critical Hdwy	6.82	7.12	-	-	4.1	-
Critical Hdwy Stg 1	5.82	-	-	-	-	-
Critical Hdwy Stg 2	5.82	-	-	-	-	-
Follow-up Hdwy	3.51	3.41	-	-	2.2	-
Pot Cap-1 Maneuver	186	640	-	-	939	-
Stage 1	484	-	-	-	-	-
Stage 2	561	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	r 171	640	-	-	939	-
Mov Cap-2 Maneuve	r 305	-	-	-	-	-
Stage 1	484	-	-	-	-	-
Stage 2	514	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	13.6	0	0.9
HCM LOS	В		

Minor Lane/Major Mvmt	NBT	NBRWE	3Ln1	SBL	SBT
Capacity (veh/h)	-	-	549	939	-
HCM Lane V/C Ratio	-	- 0	.239	0.083	-
HCM Control Delay (s)	-	-	13.6	9.2	-
HCM Lane LOS	-	-	В	Α	-
HCM 95th %tile Q(veh)	-	-	0.9	0.3	-

Intersection Capacity Utilization 6: Internal Drive & Middle Access Drive

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		•	'	•	•		
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	<u> </u>	1		र्च	4		
Volume (vph)	49	23	16	70	98	43	
Pedestrians							
Ped Button							
Pedestrian Timing (s)							
Free Right		No				No	
Ideal Flow	1900	1900	1900	1900	1900	1900	
Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Minimum Green (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Refr Cycle Length (s)	120	120	120	120	120	120	
Volume Combined (vph)	49	23	0	86	141	0	
Lane Utilization Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Factor (vph)	0.95	0.85	0.95	0.99	0.95	0.85	
Saturated Flow (vph)	1805	1615	0	1882	1813	0	
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	
Pedestrian Frequency (%)	0.00			0.00	0.00		
Protected Option Allowed	No			No	No		
Reference Time (s)		1.7				0.0	
Adj Reference Time (s)		8.0				0.0	
Permitted Option							
Adj Saturation A (vph)	120		0	493	1813		
Reference Time A (s)	48.9		0.0	20.9	9.3		
Adj Saturation B (vph	NA		NA	NA	1813		
Reference Time B (s)	NA		NA	NA	9.3		
Reference Time (s)				20.9	9.3		
Adj Reference Time (s)				24.9	13.3		
Split Option							
Ref Time Combined (s)	3.3		0.0	5.5	9.3		
Ref Time Seperate (s)	3.3		1.1	4.4	6.5		
Reference Time (s)	3.3		5.5	5.5	9.3		
Adj Reference Time (s)	8.0		9.5	9.5	13.3		
•							
Summary	EB		NB SB	Coi	nbined		
Protected Option (s)	NA		NA				
Permitted Option (s)	Err		24.9				
Split Option (s)	8.0		22.8				
Minimum (s)	8.0		22.8		30.8		
Right Turns	EBR						
Adj Reference Time (s)	8.0						
Cross Thru Ref Time (s)	13.3						
Oncoming Left Ref Time (s)	0.0						
Combined (s)	21.3						
. ,	21.0						
Intersection Summary							
Intersection Capacity Utilization	n		25.7%	IC	U Level o	of Service	;

Reference Times and Phasing Options do not represent an optimized timing plan.

Intersection Capacity Utilization 7: Internal Drive & South Access Drive

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	5	1		र्भ	¢.	-
Volume (vph)	55	42	112	31	19	102
Pedestrians						
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1900	1900	1900	1900	1900	1900
Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Minimum Green (s)	4.0	4.0	4.0	4.0	4.0	4.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	55	42	0	143	121	0
Lane Utilization Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Factor (vph)	0.95	0.85	0.95	0.96	0.87	0.85
Saturated Flow (vph)	1805	1615	0.95	1826	1660	0.05
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.0	0.0	0.0	0.0	0.00	0.0
Protected Option Allowed	No	0.4		No	No	0.0
Reference Time (s)		3.1				0.0
Adj Reference Time (s)		8.0				0.0
Permitted Option	400		0		4000	
Adj Saturation A (vph)	120		0	144	1660	
Reference Time A (s)	54.8		0.0	118.8	8.7	
Adj Saturation B (vph	NA		NA	NA	1660	
Reference Time B (s)	NA		NA	NA	8.7	
Reference Time (s)				118.8	8.7	
Adj Reference Time (s)				122.8	12.7	
Split Option						
Ref Time Combined (s)	3.7		0.0	9.4	8.7	
Ref Time Seperate (s)	3.7		7.4	2.0	1.4	
Reference Time (s)	3.7		9.4	9.4	8.7	
Adj Reference Time (s)	8.0		13.4	13.4	12.7	
Summary	EB		NB SB	Co	mbined	
Protected Option (s)	NA		NA			
Permitted Option (s)	Err		122.8			
Split Option (s)	8.0		26.1			
Minimum (s)	8.0		26.1		34.1	
			20.1		J 4 .1	
Right Turns	EBR					
Adj Reference Time (s)	8.0					
Cross Thru Ref Time (s)	12.7					
Oncoming Left Ref Time (s)	0.0					
Combined (s)	20.7					
. ,						
Intersection Summary			00 50/			<u> </u>
Intersection Capacity Utilization	n		28.5%	IC	U Level of	of Service

Reference Times and Phasing Options do not represent an optimized timing plan.

Intersection	
Int Delay, s/veh 0	
Movement EBL EBT EBR WBL WBT WBR NBL NBT NBR S	BL SBT SBR
Lane Configurations 7 1	ተተተ
Traffic Vol, veh/h 0 0 0 0 0 7 0 860 92	0 1039 0
Future Vol, veh/h 0 0 0 0 7 0 860 92	0 1039 0
Conflicting Peds, #/hr 0 0 0 0 0 0 0 0 0	0 0 0
Sign Control Stop Stop Stop Stop Stop Free Free Free Fr	e Free Free
RT Channelized None None None	None
Storage Length 0	
Veh in Median Storage, # - 3 0 0 -	- 0 -
Grade, % - 0 0 0 -	- 0 -
Peak Hour Factor 96 96 96 96 96 96 96 96 96 96	6 96 96
Heavy Vehicles, % 0 0 0 0 0 0 0 1 1	0 1 0
Mvmt Flow 0 0 0 0 0 7 0 896 96	0 1082 0

Minor1		Μ	lajor1		Ма	ajor2				
-	-	496	-	0	0	-	-	0		
-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-		
-	-	6.9	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-		
-	-		-	-	-	-	-	-		
	0	525		-	-		-			
		-		-	-		-			
0	0	-	0	-	-	0	-	0		
				-	-		-			
-		525	-	-	-	-	-	-		
-		-	-	-	-	-	-	-		
-		-	-	-	-	-	-	-		
-	0	-	-	-	-	-	-	-		
WB			NB			SB				
12			0			0				
В										
3T NBRWBLn1	SBT									
525	-									
0.014	-									
12	-									
B	-									
0	-									
	- - - - - - - - - 0 0 0 0 0 0 0 0 0 0 0		496 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - -	$\begin{array}{cccccccccccccccccccccccccccccccccccc$						

Intersection						
Int Delay, s/veh	0.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		***	朴朴			1
Traffic Vol, veh/h	0	1432	1303	114	0	76
Future Vol, veh/h	0	1432	1303	114	0	76
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
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	1	2	0	0	0
Mvmt Flow	0	1507	1372	120	0	80

Major/Minor	Major1	I	Major2	M	linor2	
Conflicting Flow All	-	0	-	0	-	746
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.1
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.9
Pot Cap-1 Maneuver	0	-	-	-	0	309
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	-	309
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		20.7	
HCM LOS			-		С	
	.1	FDT				
Minor Lane/Major Mvn	nt	EBT	WBT	WBR S		
Capacity (veh/h)		-	-	-	309	
HCM Lane V/C Ratio		-	-		0.259	
HCM Control Delay (s)	-	-	-	20.7	
HCM Lane LOS	`	-	-	-	С	
HCM 95th %tile Q(veh	1)	-	-	-	1	

<u>Capacity Analysis Summary Sheets</u> Year 2021 Saturday Midday Peak Hour Conditions

Lanes, Volumes, Timings 1: Lemont Road & Dunham Road/Middle Access Drive

	Jannar		u, mia a		000 2.							
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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		र्भ	1		र्स	1	۲	A⊅		۲	đβ	
Traffic Volume (vph)	11	32	146	86	21	9	146	609	40	16	536	23
Future Volume (vph)	11	32	146	86	21	9	146	609	40	16	536	23
Ideal Flow (vphpl)	1900	1900	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)	0		105	0		85	175		0	135		0
Storage Lanes	0		1	0		1	1		0	1		0
Taper Length (ft)	60			25			165			120		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor												
Frt			0.850			0.850		0.991			0.994	
Flt Protected		0.988			0.961		0.950			0.950		
Satd. Flow (prot)	0	1836	1599	0	1826	1615	1787	3507	0	1805	3535	0
Flt Permitted	-	0.911		-	0.738		0.415		-	0.380		-
Satd. Flow (perm)	0	1693	1599	0	1402	1615	781	3507	0	722	3535	0
Right Turn on Red	•		No	•		No			No			No
Satd. Flow (RTOR)												
Link Speed (mph)		30			30			40			40	
Link Distance (ft)		667			331			633			695	
Travel Time (s)		15.2			7.5			10.8			11.8	
Confl. Peds. (#/hr)		10.2			1.0			10.0			11.0	
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 (%)	9%	0%	1%	0%	0%	0%	1%	2%	2%	0%	1%	13%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)	Ŭ	Ū	Ŭ	Ū	Ű	Ŭ	Ű	Ŭ	Ū	Ŭ	Ű	Ű
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)		0,0			0,0			0,0			0,0	
Lane Group Flow (vph)	0	44	152	0	112	9	152	676	0	17	582	0
Turn Type	Perm	NA	Perm	Perm	NA	Perm	pm+pt	NA	Ű	pm+pt	NA	Ű
Protected Phases		4			8	1 01111	5	2		1 1	6	
Permitted Phases	4		4	8	Ű	8	2	_		6	Ű	
Detector Phase	4	4	4	8	8	8	5	2		1	6	
Switch Phase				•	Ū	Ţ	· ·	_		·	•	
Minimum Initial (s)	8.0	8.0	8.0	8.0	8.0	8.0	3.0	15.0		3.0	15.0	
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	9.5	22.5		9.5	22.5	
Total Split (s)	27.0	27.0	27.0	27.0	27.0	27.0	13.0	38.0		10.0	35.0	
Total Split (%)	36.0%	36.0%	36.0%	36.0%	36.0%	36.0%	17.3%	50.7%		13.3%	46.7%	
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	3.5	4.0		3.5	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0		0.0	2.0	
Lost Time Adjust (s)	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Lost Time (s)		6.0	6.0		6.0	6.0	3.5	6.0		3.5	6.0	
Lead/Lag		0.0	0.0		0.0	0.0	Lag	Lead		Lag	Lead	
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	
Recall Mode	None	None	None	None	None	None	None	C-Min		None	C-Min	
Act Effct Green (s)		13.3	13.3		13.3	13.3	52.1	47.9		48.1	40.1	
Actuated g/C Ratio		0.18	0.18		0.18	0.18	0.69	0.64		0.64	0.53	
		0.10	0.10		0.10	0.10	0.03	0.04		0.04	0.00	

22-194 Outlot Parcel- Downers Grove sa/bsm

Lanes, Volumes, Timings 1: Lemont Road & Dunham Road/Middle Access Drive

											00/21/2022		
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EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
	0.15	0.54		0.45	0.03	0.24	0.30		0.03	0.31			
	25.4	34.4		32.5	23.3	3.7	3.5		4.7	11.2			
	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0			
	25.4	34.4		32.5	23.3	3.7	3.5		4.7	11.2			
	С	С		С	С	А	А		А	В			
	32.4			31.8			3.5			11.0			
	С			С			А			В			
	17			47	4	15	41		2				
	41	112		87	14	22	41		9	131			
	587			251			553			615			
						175							
	474	447		392	452	704	2238		566	1888			
	0	0		0	0	0	0		0	0			
	0	•		0	0				0	0			
	-			-			-			-			
	0.09	0.34		0.29	0.02	0.22	0.30		0.03	0.31			
Other													
5													
ced to phase 2	:NBTL a	and 6:SB	TL, Start o	of Green									
oordinated													
zation 49.5%			IC	U Level o	of Service	A							
	EBL	EBL EBT 0.15 25.4 0.0 25.4 C 32.4 C 32.4 C 17 41 587 474 0 0 0 0.09 0 Other 0 ordinated 11.3	EBL EBT EBR 0.15 0.54 25.4 34.4 0.0 0.0 25.4 34.4 C C 32.4 C 17 65 41 112 587 105 474 447 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 0.09 0.34 0 0 0 0 0 0 0 0 0 <	EBL EBT EBR WBL 0.15 0.54 25.4 34.4 0.0 0.0 25.4 34.4 0.0 0.0 25.4 34.4 C C 32.4 32.4 C 17 65 41 112 587 105 474 447 0	EBL EBT EBR WBL WBT 0.15 0.54 0.45 25.4 34.4 32.5 0.0 0.0 0.0 25.4 34.4 32.5 C C C 32.4 31.8 C C C C 17 65 47 41 112 87 587 251 105 105 474 447 392 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td>EBL EBT EBR WBL WBT WBR 0.15 0.54 0.45 0.03 25.4 34.4 32.5 23.3 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 C C C C 32.4 31.8 C C 17 65 47 4 41 112 87 14 587 251 85 474 447 392 452 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0.09 0.34 0.29 0.02 0.02 0.02 0.02</td> <td>EBL EBT EBR WBL WBT WBR NBL 0.15 0.54 0.45 0.03 0.24 25.4 34.4 32.5 23.3 3.7 0.0 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 3.7 C C C A 32.5 23.3 3.7 C C C C A 32.4 31.8 - C C C C - C - - 17 65 47 4 15 - - - 41 112 87 14 22 -</td> <td>EBL EBT EBR WBL WBT WBR NBL NBT 0.15 0.54 0.45 0.03 0.24 0.30 25.4 34.4 32.5 23.3 3.7 3.5 0.0 0.0 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 3.7 3.5 0.0 0.0 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 3.7 3.5 C C C C A A 32.4 31.8 3.5 S C A 17 65 47 4 15 41 41 112 87 14 22 41 587 251 553 105 474 423 238 0 0 0 0 0 0 0 0 0 0 0 0 0<</td> <td>EBL EBT EBR WBL WBT WBR NBL NBT NBR 0.15 0.54 0.45 0.03 0.24 0.30 25.4 34.4 32.5 23.3 3.7 3.5 0.0 0.0 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 3.7 3.5 C C C C A A 32.4 31.8 3.5 C C A 17 65 47 4 15 41 41 112 87 14 22 41 587 251 553 553 553 553 105 85 175 54 704 2238 0</td> <td>EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL 0.15 0.54 0.45 0.03 0.24 0.30 0.03 25.4 34.4 32.5 23.3 3.7 3.5 4.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 3.7 3.5 4.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 3.7 3.5 4.7 C C C C A A A 32.4 31.8 3.5 4.7 2 17 65 47 4 15 41 2 41 112 87 14 22 41 9 587 251 553 15 35 474 447</td> <td>EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT 0.15 0.54 0.45 0.03 0.24 0.30 0.03 0.31 25.4 34.4 32.5 23.3 3.7 3.5 4.7 11.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 3.7 3.5 4.7 11.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 3.7 3.5 4.7 11.2 C C C C A A B 32.4 31.8 3.5 11.0 C C C K H 15 41 2 72 41 112 87 14 22 41 9 131 587</td>	EBL EBT EBR WBL WBT WBR 0.15 0.54 0.45 0.03 25.4 34.4 32.5 23.3 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 C C C C 32.4 31.8 C C 17 65 47 4 41 112 87 14 587 251 85 474 447 392 452 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0.09 0.34 0.29 0.02 0.02 0.02 0.02	EBL EBT EBR WBL WBT WBR NBL 0.15 0.54 0.45 0.03 0.24 25.4 34.4 32.5 23.3 3.7 0.0 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 3.7 C C C A 32.5 23.3 3.7 C C C C A 32.4 31.8 - C C C C - C - - 17 65 47 4 15 - - - 41 112 87 14 22 -	EBL EBT EBR WBL WBT WBR NBL NBT 0.15 0.54 0.45 0.03 0.24 0.30 25.4 34.4 32.5 23.3 3.7 3.5 0.0 0.0 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 3.7 3.5 0.0 0.0 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 3.7 3.5 C C C C A A 32.4 31.8 3.5 S C A 17 65 47 4 15 41 41 112 87 14 22 41 587 251 553 105 474 423 238 0 0 0 0 0 0 0 0 0 0 0 0 0<	EBL EBT EBR WBL WBT WBR NBL NBT NBR 0.15 0.54 0.45 0.03 0.24 0.30 25.4 34.4 32.5 23.3 3.7 3.5 0.0 0.0 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 3.7 3.5 C C C C A A 32.4 31.8 3.5 C C A 17 65 47 4 15 41 41 112 87 14 22 41 587 251 553 553 553 553 105 85 175 54 704 2238 0	EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL 0.15 0.54 0.45 0.03 0.24 0.30 0.03 25.4 34.4 32.5 23.3 3.7 3.5 4.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 3.7 3.5 4.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 3.7 3.5 4.7 C C C C A A A 32.4 31.8 3.5 4.7 2 17 65 47 4 15 41 2 41 112 87 14 22 41 9 587 251 553 15 35 474 447	EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT 0.15 0.54 0.45 0.03 0.24 0.30 0.03 0.31 25.4 34.4 32.5 23.3 3.7 3.5 4.7 11.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 3.7 3.5 4.7 11.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 25.4 34.4 32.5 23.3 3.7 3.5 4.7 11.2 C C C C A A B 32.4 31.8 3.5 11.0 C C C K H 15 41 2 72 41 112 87 14 22 41 9 131 587		

Splits and Phases:	1: Lemont Road & Dunham Road/Middle Access Drive									
Ø2 (R)		Ø1	÷04							
38 s		10 s	27 s							
Ø6 (R)		Ø5	∲ Ø8							
35 s	13	S	27 s							

Lanes,	Volumes,	Timings

06/21/2022

	٦	+	\mathbf{F}	4	+	•	•	1	1	1	ţ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	4Î		ሻ	eî 👘		ሻ	¥⊅		۲.	^	1
Traffic Volume (vph)	100	12	48	227	20	39	66	656	104	21	686	61
Future Volume (vph)	100	12	48	227	20	39	66	656	104	21	686	61
Ideal Flow (vphpl)	1900	1900	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)	85	• / •	0	85	• / •	0	200	• • •	0	70	• / •	160
Storage Lanes	1		0	1		0	1		0	1		1
Taper Length (ft)	75		•	75		•	130		•	175		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	1.00
Ped Bike Factor	1.00		1.00		1.00			0.00	0.00		0.00	1.00
Frt		0.881			0.901			0.980				0.850
Flt Protected	0.950	0.001		0.950	0.001		0.950	0.000		0.950		0.000
Satd. Flow (prot)	1770	1648	0	1805	1712	0	1805	3478	0	1805	3574	1615
Flt Permitted	0.833	1010	Ū	0.716		Ŭ	0.336	0110	Ŭ	0.303		
Satd. Flow (perm)	1552	1648	0	1360	1712	0	638	3478	0	576	3574	1615
Right Turn on Red	.002	1010	Yes	1000		Yes	000	0110	Yes	0.0		Yes
Satd. Flow (RTOR)		50	100		41	100		26	100			233
Link Speed (mph)		30			30			40			40	200
Link Distance (ft)		302			294			366			633	
Travel Time (s)		6.9			6.7			6.2			10.8	
Confl. Peds. (#/hr)		0.0			0.7			0.2			10.0	
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 (%)	2%	0%	2%	0%	0%	0%	0%	2%	0%	0%	1%	0%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)	•	•	•	Ū	,	•	Ţ	Ţ	•		•	
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)		• / •			• / •			• / •			• / •	
Lane Group Flow (vph)	104	63	0	236	62	0	69	791	0	22	715	64
Turn Type	pm+pt	NA	Ű	pm+pt	NA	Ű	pm+pt	NA	Ű	pm+pt	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4			8	Ŭ		2	_		6	Ŭ	6
Detector Phase	7	4		3	8		5	2		1	6	6
Switch Phase				Ţ	•		Ţ	_		·	•	
Minimum Initial (s)	3.0	8.0		3.0	8.0		3.0	15.0		3.0	15.0	15.0
Minimum Split (s)	9.5	14.0		9.5	14.0		9.0	24.0		9.5	24.0	24.0
Total Split (s)	10.6	14.0		18.4	21.8		9.0	33.0		9.6	33.6	33.6
Total Split (%)	14.1%	18.7%		24.5%	29.1%		12.0%	44.0%		12.8%	44.8%	44.8%
Yellow Time (s)	3.5	4.0		3.5	4.0		3.5	4.0		3.5	4.0	4.0
All-Red Time (s)	0.0	2.0		0.0	2.0		0.0	2.0		0.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	3.5	6.0		3.5	6.0		3.5	6.0		3.5	6.0	6.0
Lead/Lag	Lag	Lead		Lag	Lead		Lag	Lead		Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None		None	C-Min		None	C-Min	C-Min
Act Effct Green (s)	15.1	8.0		17.1	8.6		48.8	43.0		47.9	39.7	39.7
Actuated g/C Ratio	0.20	0.11		0.23	0.0		0.65	0.57		0.64	0.53	0.53
	0.20	0.11		0.20	0.11		0.00	0.01		5.07	0.00	0.00

22-194 Outlot Parcel- Downers Grove sa/bsm

2: Lemont Road &	Signaliz	ed Acc	cess D	rive/So	buth A	ccess I	Jrive				06/2	1/2022
	۶	-	\mathbf{F}	4	+	•	٠	1	1	1	Ŧ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.31	0.29		0.64	0.27		0.14	0.39		0.05	0.38	0.07
Control Delay	23.2	16.6		32.6	18.0		7.9	11.6		3.3	7.4	0.2
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	0.0
Total Delay	23.2	16.6		32.6	18.0		7.9	11.6		3.3	7.4	0.2
LOS	С	В		С	В		А	В		А	А	A
Approach Delay		20.7			29.5			11.3			6.7	
Approach LOS		С			С			В			А	
Queue Length 50th (ft)	37	6		90	9		11	88		3	83	0
Queue Length 95th (ft)	67	39		141	42		30	192		m4	105	0
Internal Link Dist (ft)		222			214			286			553	
Turn Bay Length (ft)	85			85			200			70		160
Base Capacity (vph)	342	220		483	393		500	2006		470	1889	963
Starvation Cap Reductn	0	0		0	0		0	0		0	0	0
Spillback Cap Reductn	0	0		0	0		0	0		0	0	0
Storage Cap Reductn	0	0		0	0		0	0		0	0	0
Reduced v/c Ratio	0.30	0.29		0.49	0.16		0.14	0.39		0.05	0.38	0.07
ntersection Summary												
21	Other											
Cycle Length: 75												
Actuated Cycle Length: 75												
Offset: 5 (7%), Referenced t	o phase 2:1	NBTL and	I 6:SBTL,	Start of (Green							
Natural Cycle: 60												
Control Type: Actuated-Coo	rdinated											
Maximum v/c Ratio: 0.64												
Intersection Signal Delay: 12					tersectior		_					
ntersection Capacity Utiliza	tion 57.4%			IC	U Level o	of Service	В					
Analysis Period (min) 15 m Volume for 95th percen												

Splits and Phases: 2: Lemont Road & Signalized Access Drive/South Access Drive

Ø2 (R)	Ø1	404	√ ₀	03	
33 s	9.6 s	14 s	18.4 s		
●	▲ Ø5	₩ø8			
33.6 s	9 s	21.8 s		10.6 s	

Intersection						
Int Delay, s/veh	1.9					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	۰¥		∱ î≽		<u>آ</u>	^
Traffic Vol, veh/h	22	105	619	10	102	553
Future Vol, veh/h	22	105	619	10	102	553
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	-	-	-	100	-
Veh in Median Storage	,#1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	2	0	0	2	0	0
Mvmt Flow	23	109	645	10	106	576

Major/Minor	Minor1	М	ajor1	N	lajor2	
Conflicting Flow All	1150	328	0	0	655	0
Stage 1	650	-	-	-	-	-
Stage 2	500	-	-	-	-	-
Critical Hdwy	6.84	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	192	674	-	-	942	-
Stage 1	481	-	-	-	-	-
Stage 2	575	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	170	674	-	-	942	-
Mov Cap-2 Maneuver	303	-	-	-	-	-
Stage 1	481	-	-	-	-	-
Stage 2	510	-	-	-	-	-
Annraach			ND		CD.	

Approach	WB	NB	SB
HCM Control Delay, s	13.5	0	1.4
HCM LOS	В		

Minor Lane/Major Mvmt	NBT	NBRWE	3Ln1	SBL	SBT
Capacity (veh/h)	-	-	556	942	-
HCM Lane V/C Ratio	-	- 0	.238	0.113	-
HCM Control Delay (s)	-	-	13.5	9.3	-
HCM Lane LOS	-	-	В	Α	-
HCM 95th %tile Q(veh)	-	-	0.9	0.4	-

Intersection												
Int Delay, s/veh	0.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations						1		- † 1,-			^	
Traffic Vol, veh/h	0	0	0	0	0	16	0	810	104	0	961	0
Future Vol, veh/h	0	0	0	0	0	16	0	810	104	0	961	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	0	-	-	-	-	-	-
Veh in Median Storage	e, # -	3	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	1	1	0	1	0
Mvmt Flow	0	0	0	0	0	17	0	880	113	0	1045	0

Major/Minor		Minor1		Ν	lajor1		Ma	ajor2			
Conflicting Flow All		-	-	497	-	0	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	0	524	0	-	-	0	-	0	
Stage 1		0	0	-	0	-	-	0	-	0	
Stage 2		0	0	-	0	-	-	0	-	0	
Platoon blocked, %						-	-		-		
Mov Cap-1 Maneuver		-	0	524	-	-	-	-	-	-	
Mov Cap-2 Maneuver		-	0	-	-	-	-	-	-	-	
Stage 1		-	0	-	-	-	-	-	-	-	
Stage 2		-	0	-	-	-	-	-	-	-	
Approach		WB			NB			SB			
HCM Control Delay, s		12.1			0			0			
HCM LOS		В									
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBT								
Capacity (veh/h)	-	- 524	-								
HCM Lane V/C Ratio	-	- 0.033	-								
HCM Control Delay (s)	-	- 12.1	-								

В

0.1

-

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HCM Lane LOS

HCM 95th %tile Q(veh)

Intersection						
Int Delay, s/veh	0.8					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		***	朴朴			1
Traffic Vol, veh/h	0	1210	1066	159	0	111
Future Vol, veh/h	0	1210	1066	159	0	111
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage	, # -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	98	98	98	98	98	98
Heavy Vehicles, %	0	1	1	0	0	0
Mvmt Flow	0	1235	1088	162	0	113

Major/Minor	Major1	I	Major2	M	linor2					
Conflicting Flow All	-	0	-	0	-	625				
Stage 1	-	-	-	-	-	-				
Stage 2	-	-	-	-	-	-				
Critical Hdwy	-	-	-	-	-	7.1				
Critical Hdwy Stg 1	-	-	-	-	-	-				
Critical Hdwy Stg 2	-	-	-	-	-	-				
Follow-up Hdwy	-	-	-	-	-	3.9				
Pot Cap-1 Maneuver	0	-	-	-	0	370				
Stage 1	0	-	-	-	0	-				
Stage 2	0	-	-	-	0	-				
Platoon blocked, %		-	-	-						
Mov Cap-1 Maneuver		-	-	-	-	370				
Mov Cap-2 Maneuver	· -	-	-	-	-	-				
Stage 1	-	-	-	-	-	-				
Stage 2	-	-	-	-	-	-				
Approach	EB		WB		SB					
HCM Control Delay, s	0		0		19					
HCM LOS	-				С					
Minor Long/Major Mur	mt .	EBT	WBT		DI n1					
Minor Lane/Major Mvr	ш	EBI	VVBI	WBR S						
Capacity (veh/h)		-	-	-	370					
HCM Lane V/C Ratio	1	-	-		0.306					
HCM Control Delay (s	5)	-	-	-	19					
HCM Lane LOS	-)	-	-	-	C					
HCM 95th %tile Q(veh	1)	-	-	-	1.3					

Intersection Capacity Utilization 6: Internal Drive & Middle Access Drive

	induito /	100000					
	≯	\mathbf{F}	1	Ť	Ļ	~	
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	۲.	1		ન્	eî.		
Volume (vph)	57	31	27	106	141	89	
Pedestrians							
Ped Button							
Pedestrian Timing (s)							
Free Right		No				No	
Ideal Flow	1900	1900	1900	1900	1900	1900	
Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Minimum Green (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Refr Cycle Length (s)	120	120	120	120	120	120	
Volume Combined (vph)	57	31	0	133	230	0	
Lane Utilization Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Factor (vph)	0.95	0.85	0.95	0.99	0.94	0.85	
Saturated Flow (vph)	1805	1615	0	1881	1790	0	
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	
Pedestrian Frequency (%)	0.00			0.00	0.00		
Protected Option Allowed	No			No	No		
Reference Time (s)		2.3				0.0	
Adj Reference Time (s)		8.0				0.0	
Permitted Option							
Adj Saturation A (vph)	120		0	460	1790		
Reference Time A (s)	56.8		0.0	34.7	15.4		
Adj Saturation B (vph	NA		NA	NA	1790		
Reference Time B (s)	NA		NA	NA	15.4		
Reference Time (s)				34.7	15.4		
Adj Reference Time (s)				38.7	19.4		
Split Option							
Ref Time Combined (s)	3.8		0.0	8.5	15.4		
Ref Time Seperate (s)	3.8		1.8	6.7	9.5		
Reference Time (s)	3.8		8.5	8.5	15.4		
Adj Reference Time (s)	8.0		12.5	12.5	19.4		
Summary	EB		NB SB	Co	mbined		
Protected Option (s)	NA		NA				
Permitted Option (s)	Err		38.7				
Split Option (s)	8.0		31.9				
Minimum (s)	8.0		31.9		39.9		
Right Turns	EBR						
Adj Reference Time (s)	8.0						
Cross Thru Ref Time (s)	19.4						
Oncoming Left Ref Time (s)	0.0						
Combined (s)	27.4						
	_ 1.7						
Intersection Summary							
Intersection Capacity Utilizati	on		33.3%	IC	U Level of	of Service	Ą

Reference Times and Phasing Options do not represent an optimized timing plan.

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Intersection Capacity Utilization 7: Internal Drive & South Access Drive

≯	\mathbf{r}	1	1	Ļ	∢	
EBL	EBR	NBL	NBT	SBT	SBR	
۲	1					
90	47	138	43	24	148	
	No				No	
1900	1900	1900	1900	1900	1900	
4.0	4.0	4.0	4.0	4.0	4.0	
4.0	4.0	4.0	4.0	4.0	4.0	
120	120	120	120	120	120	
90	47	0	181	172	0	
1.00	1.00	1.00	1.00	1.00	1.00	
0.95	0.85	0.95	0.96	0.87	0.85	
1805	1615	0	1828	1655	0	
0.0	0.0	0.0	0.0	0.0	0.0	
0.00			0.00	0.00		
No			No	No		
	3.5				0.0	
	8.0				0.0	
120		0	148	1655		
89.8		0.0	147.1	12.5		
NA		NA	NA	1655		
NA		NA	NA	12.5		
			147.1	12.5		
			151.1	16.5		
6.0		0.0	11.9	12.5		
6.0		9.2	2.7	1.7		
6.0		11.9	11.9	12.5		
10.0		15.9	15.9	16.5		
FR			Co	mhined		
			00	Indined		
				10.2		
10.0		32.4		42.3		
EBR						
8.0						
16.5						
0.0						
24.5						
n		35.3%	IC	U Level o	of Service	
• •		epresent a				
	1900 4.0 4.0 120 90 1.00 0.95 1805 0.0 0.00 0.00 No 120 89.8 NA NA 120 89.8 NA NA ET 120 89.8 NA NA ET 120 89.8 NA NA ET 10.0 10.0 10.0 EBR 8.0 10.0 10.0	90 47 90 47 90 47 1900 1900 4.0 4.0 4.0 4.0 120 120 90 47 1.00 1.00 0.95 0.85 1805 1615 0.0 0.0 0.00 No 3.5 8.0 120 89.8 NA NA NA NA NA NA NA NA EBR 8.0 16.5 0.0 24.5	No 90 47 138 No 1900 1900 1900 1900 1900 1900 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 120 90 47 0 1.00 1.00 120 120 120 120 90 47 0 1.00 1.00 1.00 1.00 1.00 1.00 0.00 0.10 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.00 0.0 0.0 0.0 0.0 0.00 0.0 0.0 0.0 0.0 120 0 89.8 0.0 0.0 89.8 0.0 11.9 10.0 15.9 EB NB SB NA NA NA NA NA 8.0 16.5 0.0 2.4 <td>No 138 43 1900 1900 1900 1900 1900 1900 1900 1900 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 120 120 120 120 90 47 0 181 1.00 1.00 1.00 1.00 0.95 0.85 0.95 0.96 1805 1615 0 1828 0.0 0.0 0.0 0.0 0.00 0.00 0.00 0.00 No 3.5 8.0 147.1 120 0 148 89.8 0.0 147.1 NA NA NA NA 147.1 NA NA NA 147.1 120 0.0 11.9 11.9 10.0 32.4 147.1 10.0 32.</td> <td>90 47 138 43 24 90 47 138 43 24 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 120 120 120 120 120 90 47 0 181 172 1.00 1.00 1.00 1.00 1.00 0.95 0.85 0.95 0.96 0.87 1805 1615 0 1828 1655 0.0 0.0 0.0 0.0 0.0 0.00 0.0 0.0 0.0 0.0 120 0 148 1655 89.8 0.0 147.1 12.5 120 0 148 1655 NA NA NA 12.5</td> <td>No No No 1900 1900 1900 1900 1900 1900 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 120 120 120 120 120 120 90 47 0 181 172 0 1.00 1.00 1.00 1.00 1.00 1.00 90 47 0 181 172 0 1.00 1.00 1.00 1.00 1.00 1.00 0.95 0.85 0.95 0.96 0.87 0.85 1805 1615 0 1828 1655 0 0.0 0.0 0.0 0.0 0.0 0.0 120 0 148 1655 NA NA NA 12.5 NA</td>	No 138 43 1900 1900 1900 1900 1900 1900 1900 1900 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 120 120 120 120 90 47 0 181 1.00 1.00 1.00 1.00 0.95 0.85 0.95 0.96 1805 1615 0 1828 0.0 0.0 0.0 0.0 0.00 0.00 0.00 0.00 No 3.5 8.0 147.1 120 0 148 89.8 0.0 147.1 NA NA NA NA 147.1 NA NA NA 147.1 120 0.0 11.9 11.9 10.0 32.4 147.1 10.0 32.	90 47 138 43 24 90 47 138 43 24 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 120 120 120 120 120 90 47 0 181 172 1.00 1.00 1.00 1.00 1.00 0.95 0.85 0.95 0.96 0.87 1805 1615 0 1828 1655 0.0 0.0 0.0 0.0 0.0 0.00 0.0 0.0 0.0 0.0 120 0 148 1655 89.8 0.0 147.1 12.5 120 0 148 1655 NA NA NA 12.5	No No No 1900 1900 1900 1900 1900 1900 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 120 120 120 120 120 120 90 47 0 181 172 0 1.00 1.00 1.00 1.00 1.00 1.00 90 47 0 181 172 0 1.00 1.00 1.00 1.00 1.00 1.00 0.95 0.85 0.95 0.96 0.87 0.85 1805 1615 0 1828 1655 0 0.0 0.0 0.0 0.0 0.0 0.0 120 0 148 1655 NA NA NA 12.5 NA

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<u>Capacity Analysis Summary Sheets</u> Year 2027 No-Build Weekday Morning Peak Hour Conditions

Lanes, Volumes, Timings 1: Lemont Road & Dunham Road/Middle Access Drive

Lane Group EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT SBR Lane Configurations 4 r 4 r 4 r 4 r 7 8 14 3 453 5 Taffic Volume (vph) 8 5 197 10 2 2 147 738 14 3 453 5 Future Volume (vph) 1900 135 0		≯	+	*	4	Ļ	*	•	†	1	ŕ	Ļ	~
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Lane Configurations		र्स	1		ដ	1	5	≜ 16		5	4 16	
Future Volume (vph) 8 5 197 10 2 2 147 738 14 3 453 5 Ideal Flow (vphp) 1900		8			10					14			5
Ideal Flow (vphpl) 1900 <td></td>													
Lane Width (ft) 12 13 14 10 <th13< th=""> 10 11</th13<>	(,,,,												
Grade (%) 0% 0% 0% 0% 0% Storage Length (ft) 0 105 0 85 175 0 135 0 Storage Length (ft) 60 1 0 1 1 0 1 1 0 1 1 0 1 0													
Storage Length (ft) 0 105 0 85 175 0 135 0 Storage Lanes 0 1 0 1 1 0 1 1 0 1 1 0 1 0 1 0													
Storage Lanes 0 1 0 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1 1 0 1 1 0 1 1 0 1 0 1 1 1 10 10	· · · ·	0	• , •	105	0	• • • •	85	175	• / •	0	135	• / •	0
Taper Length (ft) 60 25 165 120 Lane Util. Factor 1.00 1.00 1.00 1.00 1.00 1.00 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.950 0.950 0.950 0.950 Satd. Flow (prot) 0 1.845 1615 0 162 1615 1752 3457 0 1805 3426 0 Fit Permitted 0.880 0.835 0.446 0.286 0 8345 1615 1752 3457 0 543 3426 0 Right Turn on Red No													
Lane Util. Factor 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.95 0.95 1.00 0.95 0.95 Ped Bike Factor 0.850 0.850 0.997 0.998 0.950 Fitt 0.850 0.955 0.950 0.950 0.950 Satd. Flow (prot) 0 1845 1615 0 1692 1615 1752 3457 0 1805 3426 0 Satd. Flow (perm) 0 1672 1615 0 1473 1615 823 3457 0 543 3426 0 Satd. Flow (perm) 0 1672 1615 0 1473 1615 823 3457 0 543 3426 0 Satd. Flow (perm) 0 1675 331 633 695 57 Travel Time (s) 15.2 7.5 10.8 11.8 11.8 2 100% 100% 100% 100% 100% 100% <				•			•			•	120		
Ped Bike Factor Image: Price of the probability o			1 00	1 00		1 00	1 00		0.95	0.95		0.95	0.95
Frt 0.850 0.957 0.997 0.998 Fit Protected 0.971 0.959 0.950 0.950 Satd. Flow (prot) 0 1845 1615 0 1692 1615 1752 3457 0 1805 3426 0 Fit Permitted 0.880 0.835 0.446 0.286 0 833 3457 0 543 3426 0 Right Turn on Red No No No No No No No No Satd. Flow (RTOR) 30 30 40 40 40 Link Distance (ft) 667 331 633 695 11.8 Confl. Pads. (#/n) 11.8 Confl. Pads. (#/n) 11.8 11.8 11.8 11.8 100% 1		1.00			1.00				0.00	0.00		0.00	0.00
Fit Protected 0.971 0.959 0.950 0.950 Satd. Flow (prot) 0 1845 1615 0 1692 1615 1752 3457 0 1805 3426 0 Flt Permitted 0.880 0.835 0.446 0.286 0 2345 0 543 3426 0 Satd. Flow (perm) 0 1672 1615 0 1473 1615 823 3457 0 543 3426 0 Right Turn on Red No No No No No No No Link Speed (mph) 30 30 40 40 40 40 Link Distance (ft) 667 331 633 695 11.8 Confl. Pads. (#hr) 10.8 11.8 Confl. Pads. (#hr) 11.8 Confl. Pads. (#hr) 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100%				0 850			0 850		0 997			0 998	
Satd. Flow (prot) 0 1845 1615 0 1692 1615 1752 3457 0 1805 3426 0 Fit Permitted 0.880 0.835 0.446 0.286 0.286 0 23457 0 543 3426 0 Satd. Flow (perm) 0 1672 1615 0 1473 1615 823 3457 0 543 3426 0 Right Turn on Red No No No No No No No No Link Speed (mph) 30 30 40 40 40 40 Link Distance (ft) 667 331 633 695 5 5 10.8 11.8 Confl. Bikes (#hr) 10.8 11.8 10.8 10.8 10.8 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89			0 971	0.000		0 959	0.000	0 950	0.001		0 950	0.000	
Fit Permitted 0.880 0.835 0.446 0.286 Satd. Flow (perm) 0 1672 1615 0 1473 1615 823 3457 0 543 3426 0 Right Turn on Red No No No No No No No Link Speed (mph) 30 30 40 40 40 Link Distance (ft) 667 331 633 695 Travel Time (s) 15.2 7.5 10.8 11.8 Confl. Bikes (#hr) 667 331 633 695 Peak Hour Factor 0.89		0		1615	0		1615		3457	0		3426	0
Satd. Flow (perm) 0 1672 1615 0 1473 1615 823 3457 0 543 3426 0 Right Turn on Red No No No No No No No Link Speed (mph) 30 30 30 40 40 40 Link Speed (mph) 667 331 633 695 11.8 Confl. Peds. (#/nr) 11.8 Confl. Peds. (#/nr) 11.8 Confl. Sikes (#/nr) 11.8 Confl. Sikes (#/nr) 100% 0		v		1010	v		1010		0101	Ū		0120	Ũ
Right Turn on Red No No No No No Satd. Flow (RTOR) Link Speed (mph) 30 30 40 40 40 Link Speed (mph) 30 331 633 695 5 Travel Time (s) 15.2 7.5 10.8 11.8 5 Confl. Peds. (#hrr) Confl. Bikes (#hrr) 0.89		0		1615	0		1615		3457	0		3426	0
Satd. Flow (RTOR) 30 30 40 40 Link Speed (mph) 30 30 40 40 Link Distance (ft) 667 331 633 695 Travel Time (s) 15.2 7.5 10.8 11.8 Confl. Peds. (#/hr) Confl. Bikes (#/hr) 7.5 10.8 11.8 Confl. Bikes (#/hr) 0.89 <td></td> <td>v</td> <td>1012</td> <td></td> <td>v</td> <td>1110</td> <td></td> <td>020</td> <td>0101</td> <td></td> <td>010</td> <td>0120</td> <td></td>		v	1012		v	1110		020	0101		010	0120	
Link Speed (mph) 30 30 40 40 Link Distance (ft) 667 331 633 695 Travel Time (s) 15.2 7.5 10.8 11.8 Confl. Peds. (#/hr) 7.5 10.8 11.8 Confl. Bikes (#/hr) 7.5 10.8 0.89				110			110			110			110
Link Distance (ft) 667 331 633 695 Travel Time (s) 15.2 7.5 10.8 11.8 Confl. Peds. (#/hr) Confl. Bikes (#/hr) Velocity Velocity Velocity Peak Hour Factor 0.89			30			30			40			40	
Travel Time (s) 15.2 7.5 10.8 11.8 Confl. Peds. (#/hr) Confl. Bikes (#/hr) Ventor													
Confl. Peds. (#/hr) Confl. Bikes (#/hr) Peak Hour Factor 0.89	()												
Confl. Bikes (#/hr) Peak Hour Factor 0.89 0.80 0	()		10.2			7.0			10.0			11.0	
Peak Hour Factor 0.89 0.80 0.80													
Growth Factor100% </td <td></td> <td>0.89</td>		0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Heavy Vehicles (%) 0% 0% 0% 50% 0% 3% 4% 10% 0% 5% 20% Bus Blockages (#/hr) 0													
Bus Blockages (#/hr) 0 15 221 0 13 2 165 845 0 3 515 0 Turn Type Perm NA Perm Perm NA Perm Pm+pt NA Pm+pt NA Pm+pt NA Pm+pt NA Pm Protected Phases 4 4 8 8 5 2 1 6 Switch Phase 2 6 2 1 6 2 1 6 2 1 6 3.0 15.0 3.0 <td></td>													
Parking (#/hr) Mid-Block Traffic (%) 0% 0% 0% 0% Mid-Block Traffic (%) 0 15 0 13 2 165 845 0 3 515 0 Lane Group Flow (vph) 0 15 221 0 13 2 165 845 0 3 515 0 Turn Type Perm NA Perm Perm NA Perm pm+pt NA Protected Phases 4 8 5 2 1 6 Permitted Phases 4 4 8 8 5 2 1 6 Detector Phase 4 4 8 8 5 2 1 6 Switch Phase 4 4 8 8 5 2 1 6 Minimum Initial (s) 8.0 8.0 8.0 8.0 3.0 15.0 3.0 15.0 Minimum Split (s) 24.0 24.0 24.0 24.0 9.5 25.0 9.5 24.0													
Mid-Block Traffic (%) 0% 0% 0% 0% Shared Lane Traffic (%) 0 15 221 0 13 2 165 845 0 3 515 0 Lane Group Flow (vph) 0 15 221 0 13 2 165 845 0 3 515 0 Turn Type Perm NA Perm Perm NA Perm pm+pt NA pm+pt NA Protected Phases 4 4 8 5 2 1 6 Permitted Phases 4 4 8 8 5 2 1 6 Detector Phase 4 4 8 8 5 2 1 6 Switch Phase													
Shared Lane Traffic (%) Lane Group Flow (vph) 0 15 221 0 13 2 165 845 0 3 515 0 Turn Type Perm NA Perm Perm NA Perm pm+pt NA Protected Phases 4 8 5 2 1 6 Permitted Phases 4 4 8 8 2 6 Detector Phase 4 4 8 8 5 2 1 6 Switch Phase 4 4 8 8 8 5 2 1 6 Minimum Initial (s) 8.0 8.0 8.0 8.0 3.0 15.0 3.0 15.0 Minimum Split (s) 24.0 24.0 24.0 24.0 24.0 9.5 25.0 9.5 24.0			0%			0%			0%			0%	
Turn Type Perm NA Perm NA Perm pm+pt NA pm+pt NA Protected Phases 4 8 5 2 1 6 Permitted Phases 4 4 8 8 2 6 Detector Phase 4 4 8 8 5 2 1 6 Switch Phase 4 4 8 8 5 2 1 6 Minimum Initial (s) 8.0 8.0 8.0 8.0 3.0 15.0 3.0 15.0 Minimum Split (s) 24.0 24.0 24.0 24.0 9.5 25.0 9.5 24.0	Shared Lane Traffic (%)												
Turn Type Perm NA Perm NA Perm pm+pt NA pm+pt NA Protected Phases 4 8 5 2 1 6 Permitted Phases 4 4 8 8 2 6 Detector Phase 4 4 8 8 5 2 1 6 Switch Phase 4 4 8 8 5 2 1 6 Switch Phase 4 8 8 8 5 2 1 6 Minimum Initial (s) 8.0 8.0 8.0 8.0 3.0 15.0 3.0 15.0 Minimum Split (s) 24.0 24.0 24.0 24.0 9.5 25.0 9.5 24.0	()	0	15	221	0	13	2	165	845	0	3	515	0
Permitted Phases 4 4 8 8 2 6 Detector Phase 4 4 8 8 5 2 1 6 Switch Phase 8.0 8.0 8.0 8.0 3.0 15.0 3.0 15.0 Minimum Initial (s) 24.0 24.0 24.0 24.0 9.5 25.0 9.5 24.0		Perm	NA	Perm	Perm	NA	Perm	pm+pt	NA		pm+pt	NA	
Detector Phase 4 4 4 8 8 5 2 1 6 Switch Phase	Protected Phases		4			8		5	2		1	6	
Switch Phase Minimum Initial (s) 8.0 8.0 8.0 8.0 8.0 3.0 15.0 3.0 15.0 Minimum Split (s) 24.0 24.0 24.0 24.0 24.0 24.0 9.5 25.0 9.5 24.0	Permitted Phases	4		4	8		8	2			6		
Minimum Initial (s) 8.0 8.0 8.0 8.0 8.0 8.0 3.0 15.0 3.0 15.0 Minimum Split (s) 24.0 24.0 24.0 24.0 24.0 24.0 9.5 25.0 9.5 24.0	Detector Phase	4	4	4	8	8	8	5	2		1	6	
Minimum Split (s) 24.0 24.0 24.0 24.0 24.0 24.0 9.5 25.0 9.5 24.0	Switch Phase												
	Minimum Initial (s)	8.0	8.0	8.0	8.0	8.0	8.0	3.0	15.0		3.0	15.0	
Total Split (s) 28.0 28.0 28.0 28.0 28.0 28.0 14.0 37.0 10.0 33.0	Minimum Split (s)	24.0	24.0	24.0	24.0	24.0	24.0	9.5	25.0		9.5	24.0	
	Total Split (s)	28.0	28.0	28.0	28.0	28.0	28.0	14.0	37.0		10.0	33.0	
Total Split (%) 37.3% 37.3% 37.3% 37.3% 37.3% 18.7% 49.3% 13.3% 44.0%	Total Split (%)	37.3%	37.3%	37.3%	37.3%	37.3%	37.3%	18.7%	49.3%		13.3%	44.0%	
Yellow Time (s) 4.0 4.0 4.0 4.0 4.0 4.0 3.5 4.0 3.5 4.0	Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	3.5	4.0		3.5	4.0	
All-Red Time (s) 2.0 2.0 2.0 2.0 2.0 2.0 0.0 2.0 0.0 2.0	All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0		0.0	2.0	
Lost Time Adjust (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Lost Time Adjust (s)		0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	
Total Lost Time (s) 6.0 6.0 6.0 6.0 3.5 6.0 3.5 6.0	Total Lost Time (s)		6.0	6.0		6.0	6.0	3.5	6.0		3.5	6.0	
Lead/Lag Lead Lag Lead	Lead/Lag							Lag	Lead		Lag	Lead	
Lead-Lag Optimize? Yes Yes Yes Yes													
Recall Mode None None None None None None C-Min None C-Min		None	None	None	None	None	None						
Act Effct Green (s) 16.3 16.3 16.3 16.3 49.2 44.9 44.3 36.3	Act Effct Green (s)			16.3		16.3			44.9		44.3	36.3	
Actuated g/C Ratio 0.22 0.22 0.22 0.22 0.22 0.66 0.60 0.59 0.48	Actuated g/C Ratio		0.22	0.22		0.22	0.22	0.66	0.60		0.59	0.48	

22-194 Outlot Parcel- Downers Grove sa/bsm

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Lanes, '	Volumes,	Timings
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1: Lemont Road & Dunham Road/Middle Access Drive

	٨	→	\mathbf{r}	4	+	•	•	t	1	1	ţ	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio		0.04	0.63		0.04	0.01	0.26	0.41		0.01	0.31	
Control Delay		20.8	34.3		20.8	20.0	3.2	5.1		6.0	13.5	
Queue Delay		0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay		20.8	34.3		20.8	20.0	3.2	5.1		6.0	13.5	
LOS		С	С		С	В	А	А		А	В	
Approach Delay		33.4			20.7			4.8			13.5	
Approach LOS		С			С			А			В	
Queue Length 50th (ft)		6	94		5	1	10	89		0	69	
Queue Length 95th (ft)		18	145		16	5	11	51		4	129	
Internal Link Dist (ft)		587			251			553			615	
Turn Bay Length (ft)			105			85	175			135		
Base Capacity (vph)		490	473		432	473	709	2071		437	1659	
Starvation Cap Reductn		0	0		0	0	0	0		0	0	
Spillback Cap Reductn		0	0		0	0	0	0		0	0	
Storage Cap Reductn		0	0		0	0	0	0		0	0	
Reduced v/c Ratio		0.03	0.47		0.03	0.00	0.23	0.41		0.01	0.31	
Intersection Summary												
Area Type:	Other											
Cycle Length: 75												
Actuated Cycle Length: 75												
Offset: 0 (0%), Referenced	I to phase 2:	NBTL and	d 6:SBTL	Start of	Green							

Natural Cycle: 60 Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.63

Intersection Signal Delay: 11.3 Intersection Capacity Utilization 49.2% Analysis Period (min) 15

Intersection LOS: B ICU Level of Service A

Splits and Phases: 1: Lemont Road & Dunham Road/Middle Access Drive

Ø2 (R)	Ø1	-	₽ 04
37 s	10 s	28	Bs
Ø6 (R)	↑ ø5		Ø8
33 s	14 s	28	3 s

Lanes, Volumes, Timings	
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2: Lemont Road & Signalized Access Drive/South Access Drive

06/21/2022

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	٦ ۲	eî.		<u>۲</u>	eî.		<u>۲</u>	A		۲.	<u></u>	1
Traffic Volume (vph)	36	3	7	40	2	25	15	838	41	23	625	12
Future Volume (vph)	36	3	7	40	2	25	15	838	41	23	625	12
Ideal Flow (vphpl)	1900	1900	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)	85		0	85		0	200		0	70		160
Storage Lanes	1		0	1		0	1		0	1		1
Taper Length (ft)	75			75			130			175		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	1.00
Ped Bike Factor												
Frt		0.891			0.860			0.993				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1656	1608	0	1805	1634	0	1805	3453	0	1805	3505	1380
Flt Permitted							0.387			0.265		
Satd. Flow (perm)	1743	1608	0	1900	1634	0	735	3453	0	504	3505	1380
Right Turn on Red	-		Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		8			27			7				145
Link Speed (mph)		30			30			40			40	
Link Distance (ft)		302			294			366			633	
Travel Time (s)		6.9			6.7			6.2			10.8	
Confl. Peds. (#/hr)		0.0			•			•.=				
Confl. Bikes (#/hr)												
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	9%	14%	2%	0%	0%	0%	0%	4%	0%	0%	3%	17%
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)	39	11	0	43	29	0	16	945	0	25	672	13
Turn Type	pm+pt	NA		pm+pt	NA		pm+pt	NA		pm+pt	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4			8			2			6		6
Detector Phase	7	4		3	8		5	2		1	6	6
Switch Phase												-
Minimum Initial (s)	3.0	8.0		3.0	8.0		3.0	15.0		3.0	15.0	15.0
Minimum Split (s)	9.5	23.0		9.5	23.0		9.5	25.0		9.5	24.0	24.0
Total Split (s)	10.0	23.0		10.0	23.0		10.0	32.0		10.0	32.0	32.0
Total Split (%)	13.3%	30.7%		13.3%	30.7%		13.3%	42.7%		13.3%	42.7%	42.7%
Yellow Time (s)	3.5	4.0		3.5	4.0		3.5	4.0		3.5	4.0	4.0
All-Red Time (s)	0.0	2.0		0.0	2.0		0.0	2.0		0.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	3.5	6.0		3.5	6.0		3.5	6.0		3.5	6.0	6.0
Lead/Lag	Lag	Lead		Lag	Lead		Lag	Lead		Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None		None	C-Min		None	C-Min	C-Min
Act Effct Green (s)	8.7	8.0		11.8	8.1		59.6	55.7		59.8	57.5	57.5
Actuated g/C Ratio	0.12	0.11		0.16	0.11		0.79	0.74		0.80	0.77	0.77
	0.12	0.11		0.10	0.11		0.13	0.74		0.00	0.11	0.11

22-194 Outlot Parcel- Downers Grove sa/bsm

Lanes, Volumes, ² 2: Lemont Road 8	•	ed Aco	cess D	rive/So	outh A	ccess	Drive				06/2	1/2022
	۶	+	\mathbf{F}	4	+	*	≺	1	1	*	ţ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.20	0.06		0.15	0.14		0.02	0.37		0.05	0.25	0.01
Control Delay	29.0	21.2		24.4	15.1		4.8	8.5		1.9	2.7	0.0
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	0.0
Total Delay	29.0	21.2		24.4	15.1		4.8	8.5		1.9	2.7	0.0
LOS	С	С		С	В		А	А		А	А	A
Approach Delay		27.3			20.7			8.4			2.6	
Approach LOS		С			С			А			А	
Queue Length 50th (ft)	17	1		19	1		1	50		0	8	0
Queue Length 95th (ft)	35	16		38	23		9	211		m3	64	m0
Internal Link Dist (ft)		222			214			286			553	
Turn Bay Length (ft)	85			85			200			70		160
Base Capacity (vph)	203	370		295	391		686	2566		518	2687	1092
Starvation Cap Reductn	0	0		0	0		0	0		0	0	0
Spillback Cap Reductn	0	0		0	0		0	0		0	0	0
Storage Cap Reductn	0	0		0	0		0	0		0	0	0
Reduced v/c Ratio	0.19	0.03		0.15	0.07		0.02	0.37		0.05	0.25	0.01
Intersection Summary												
Area Type:	Other											
Cycle Length: 75												
Actuated Cycle Length: 75												
Offset: 2 (3%), Reference	d to phase 2:	NBTL and	d 6:SBTL,	Start of (Green							
Natural Cycle: 70												
Control Type: Actuated-Co	pordinated											
Maximum v/c Ratio: 0.37												
Intersection Signal Delay:					tersectior							
Intersection Capacity Utiliz	zation 43.4%			IC	U Level o	of Service	A					
Analysis Period (min) 15					·							
m Volume for 95th perce	entile queue i	s metered	d by upstr	eam sign	al.							

Splits and Phases: 2: Lemont Road & Signalized Access Drive/South Access Drive

Ø2 (R)	Ø1		√ Ø3	
32 s	10 s	23 s	10 s	
Ø6 (R)	▲ ø5	₹Ø8	▶ _{Ø7}	
32 s	10 s	23 s	10 s	

Intersection							
Int Delay, s/veh	0.5						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	•
Lane Configurations	۰¥		∱ î≽			- † †	
Traffic Vol, veh/h	7	15	731	17	35	454	ł
Future Vol, veh/h	7	15	731	17	35	454	ŀ
Conflicting Peds, #/hr	0	0	0	0	0	0)
Sign Control	Stop	Stop	Free	Free	Free	Free	;
RT Channelized	-	None	-	None	-	None	ļ
Storage Length	0	-	-	-	100	-	-
Veh in Median Storage	e, # 1	-	0	-	-	0)
Grade, %	0	-	0	-	-	0)
Peak Hour Factor	97	97	97	97	97	97	1
Heavy Vehicles, %	3	14	7	4	50	0)
Mvmt Flow	7	15	754	18	36	468	5

Major/Minor	Minor1	М	lajor1	N	lajor2	
Conflicting Flow All	1069	386	0	0	772	0
Stage 1	763	-	-	-	-	-
Stage 2	306	-	-	-	-	-
Critical Hdwy	6.86	7.18	-	-	5.1	-
Critical Hdwy Stg 1	5.86	-	-	-	-	-
Critical Hdwy Stg 2	5.86	-	-	-	-	-
Follow-up Hdwy	3.53	3.44	-	-	2.7	-
Pot Cap-1 Maneuver	215	579	-	-	588	-
Stage 1	418	-	-	-	-	-
Stage 2	717	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	· 202	579	-	-	588	-
Mov Cap-2 Maneuver	· 320	-	-	-	-	-
Stage 1	418	-	-	-	-	-
Stage 2	673	-	-	-	-	-
A I					00	

Approach	WB	NB	SB
HCM Control Delay, s	13.2	0	0.8
HCM LOS	В		

Minor Lane/Major Mvmt	NBT	NBRWBLn	1 SBL	SBT
Capacity (veh/h)	-	- 46	0 588	-
HCM Lane V/C Ratio	-	- 0.04	9 0.061	-
HCM Control Delay (s)	-	- 13.	2 11.5	-
HCM Lane LOS	-	-	3 B	-
HCM 95th %tile Q(veh)	-	- 0.	2 0.2	-

Intersection													
Int Delay, s/veh	0												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations						1		_ ≜ î≽			* **		
Traffic Vol, veh/h	0	0	0	0	0	1	0	893	12	0	672	0	
Future Vol, veh/h	0	0	0	0	0	1	0	893	12	0	672	0	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	0	-	-	-	-	-	-	
Veh in Median Storage	e, # -	3	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92	
Heavy Vehicles, %	0	0	0	0	0	0	0	4	9	0	3	0	
Mvmt Flow	0	0	0	0	0	1	0	971	13	0	730	0	

Major/Minor		Minor1		Μ	lajor1		Ma	ajor2			
Conflicting Flow All		-	-	492	-	0	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	0	528	0	-	-	0	-	0	
Stage 1		0	0	-	0	-	-	0	-	0	
Stage 2		0	0	-	0	-	-	0	-	0	
Platoon blocked, %						-	-		-		
Mov Cap-1 Maneuver		-	0	528	-	-	-	-	-	-	
Mov Cap-2 Maneuver		-	0	-	-	-	-	-	-	-	
Stage 1		-	0	-	-	-	-	-	-	-	
Stage 2		-	0	-	-	-	-	-	-	-	
Approach		WB			NB			SB			
HCM Control Delay, s		11.8			0			0			
HCM LOS		В									
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBT								
Capacity (veh/h)	-	- 528	-								
HCM Lane V/C Ratio	-	- 0.002	-								
HCM Control Delay (s)	-	- 11.8	-								
HCM Lane LOS	-	- B	-								
HCM 95th %tile Q(veh)	-	- 0	-								

Intersection											
Int Delay, s/veh	0.2										
Movement	EBL	EBT	WBT	WBR	SBL	SBR	ł				
Lane Configurations		^	朴朴			1	t –				
Traffic Vol, veh/h	0	1363	884	43	0	28	}				
Future Vol, veh/h	0	1363	884	43	0	28	}				
Conflicting Peds, #/hr	0	0	0	0	0	0)				
Sign Control	Free	Free	Free	Free	Stop	Stop)				
RT Channelized	-	None	-	None	-	None	;				
Storage Length	-	-	-	-	-	0)				
Veh in Median Storage	e, # -	0	0	-	0	-	-				
Grade, %	-	0	0	-	0	-	-				
Peak Hour Factor	94	94	94	94	94	94	Ļ				
Heavy Vehicles, %	0	3	2	12	0	25	5				
Mvmt Flow	0	1450	940	46	0	30)				

Major/Minor	Major1	ľ	Major2	Mi	nor2	
Conflicting Flow All	-	0	-	0	-	493
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.6
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	4.15
Pot Cap-1 Maneuver	0	-	-	-	0	402
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	-	402
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		14.7	
HCM LOS					В	
Minor Long/Major Myr	ot	EBT	WBT		01 m 1	
Minor Lane/Major Mvn	III	CDI	VVDI	WBR SE		
Capacity (veh/h)		-	-	- 0	402	
HCM Lane V/C Ratio	\	-	-		.074	
HCM Control Delay (s HCM Lane LOS)	-	-		14.7 B	
	.)	-	-	-	в 0.2	
HCM 95th %tile Q(veh	1)	-	-	-	0.2	

Synchro 11 Report

Intersection Capacity Utilization 6: Internal Drive & Middle Access Drive

	۶	\mathbf{i}	1	Ť	ţ	∢_	
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	ľ	1		÷٩	eî 🗧		
Volume (vph)	13	9	7	11	11	7	
Pedestrians							
Ped Button							
Pedestrian Timing (s)							
Free Right		No				No	
Ideal Flow	1900	1900	1900	1900	1900	1900	
Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Minimum Green (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Refr Cycle Length (s)	120	120	120	120	120	120	
Volume Combined (vph)	13	9	0	18	18	0	
Lane Utilization Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Factor (vph)	0.95	0.85	0.95	0.98	0.94	0.85	
Saturated Flow (vph)	1805	1615	0	1863	1789	0	
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	
Pedestrian Frequency (%)	0.00			0.00	0.00		
Protected Option Allowed	No			No	No		
Reference Time (s)		0.7				0.0	
Adj Reference Time (s)		8.0				0.0	
Permitted Option							
Adj Saturation A (vph)	120		0	265	1789		
Reference Time A (s)	13.0		0.0	8.2	1.2		
Adj Saturation B (vph	NA		0	0	1789		
Reference Time B (s)	NA		8.5	9.2	1.2		
Reference Time (s)				8.2	1.2		
Adj Reference Time (s)				12.2	8.0		
Split Option							
Ref Time Combined (s)	0.9		0.0	1.2	1.2		
Ref Time Seperate (s)	0.9		0.5	0.7	0.7		
Reference Time (s)	0.9		1.2	1.2	1.2		
Adj Reference Time (s)	8.0		8.0	8.0	8.0		
Summary	EB		NB SB	Co	mbined		
Protected Option (s)	NA		NA				
Permitted Option (s)	Err		12.2				
Split Option (s)	8.0		16.0				
Minimum (s)	8.0		12.2		20.2		
Right Turns	EBR						
Adj Reference Time (s)	8.0						
Cross Thru Ref Time (s)	8.0						
Oncoming Left Ref Time (s)	0.0						
Combined (s)	16.0						
Intersection Summary							
Intersection Capacity Utilization	on		16.8%	IC	U Level o	of Service	A

06/21/2022

Reference Times and Phasing Options do not represent an optimized timing plan.

Intersection Capacity Utilization 7: Internal Drive & South Access Drive

	۶	\mathbf{r}	1	Ť	Ļ	-	
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	5	1		र्स	4		
/olume (vph)	14	53	51	4	4	16	
edestrians							
ed Button							
edestrian Timing (s)							
ree Right		No				No	
deal Flow	1900	1900	1900	1900	1900	1900	
ost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
1inimum Green (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Refr Cycle Length (s)	120	120	120	120	120	120	
/olume Combined (vph)	14	53	0	55	20	0	
ane Utilization Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Furning Factor (vph)	0.95	0.85	0.95	0.95	0.88	0.85	
Saturated Flow (vph)	1805	1615	0	1812	1672	0	
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	
Pedestrian Frequency (%)	0.00			0.00	0.00		
Protected Option Allowed	No			No	No		
Reference Time (s)		3.9				0.0	
dj Reference Time (s)		8.0				0.0	
Permitted Option							
Adj Saturation A (vph)	120		0	127	1672		
Reference Time A (s)	14.0		0.0	52.0	1.4		
dj Saturation B (vph	NA		0	0	1672		
Reference Time B (s)	NA		11.4	11.6	1.4		
Reference Time (s)				11.6	1.4		
dj Reference Time (s)				15.6	8.0		
Split Option							
Ref Time Combined (s)	0.9		0.0	3.6	1.4		
Ref Time Seperate (s)	0.9		3.4	0.3	0.3		
Reference Time (s)	0.9		3.6	3.6	1.4		
dj Reference Time (s)	8.0		8.0	8.0	8.0		
ummary	EB		NB SB	Co	mbined		
Protected Option (s)	NA		NA				
Permitted Option (s)	Err		15.6				
Split Option (s)	8.0		16.0				
linimum (s)	8.0		15.6		23.6		
light Turns	EBR						
dj Reference Time (s)	8.0						
Cross Thru Ref Time (s)	8.0						
Discording Left Ref Time (s)	0.0						
Combined (s)	16.0						
. ,							
tersection Summary			10 70/		المنتعال	f Comde	Λ
tersection Capacity Utilization		1	19.7%			of Service	e A

06/21/2022

Intersection Capacity Utilization 19.7% ICU Level of Serv Reference Times and Phasing Options do not represent an optimized timing plan.

Capacity Analysis Summary Sheets Year 2027 No-Build Weekday Evening Peak Hour Conditions

Lanes, Volumes, Timings 1: Lemont Road & Dunham Road/Middle Access Drive

	Durmar		u, IVII u u	10 / 100	000 2.							
	٦	-	\mathbf{r}	4	+	•	1	Ť	1	1	ŧ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		र्भ	1		र्स	1	ሻ	¥⊅		5	A	
Traffic Volume (vph)	7	19	155	42	19	8	167	645	46	14	733	11
Future Volume (vph)	7	19	155	42	19	8	167	645	46	14	733	11
Ideal Flow (vphpl)	1900	1900	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)	0		105	0		85	175		0	135		0
Storage Lanes	0		1	0		1	1		0	1		0
Taper Length (ft)	60			25			165		-	120		-
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor								0.00				0.00
Frt			0.850			0.850		0.990			0.998	
Flt Protected		0.987			0.966		0.950			0.950		
Satd. Flow (prot)	0	1875	1615	0	1835	1615	1805	3536	0	1805	3568	0
Flt Permitted	·	0.925			0.778		0.322		•	0.365		·
Satd. Flow (perm)	0	1758	1615	0	1478	1615	612	3536	0	694	3568	0
Right Turn on Red	Ū		No	Ū		No	0.2		No		0000	No
Satd. Flow (RTOR)			110			110			110			110
Link Speed (mph)		30			30			40			40	
Link Distance (ft)		667			331			633			695	
Travel Time (s)		15.2			7.5			10.8			11.8	
Confl. Peds. (#/hr)		10.2			7.5			10.0			11.0	
Confl. Bikes (#/hr)												
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	1%	2%	0%	1%	0%
Bus Blockages (#/hr)	0 /0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)	0	0	0	0	0	U	U	U	0	0	U	Ū
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)		070			070			070			070	
Lane Group Flow (vph)	0	26	158	0	62	8	170	705	0	14	759	0
Turn Type	Perm	NA	Perm	Perm	NA	Perm	pm+pt	NA	U	pm+pt	NA	Ū
Protected Phases	1 Unit	4	i onn	1 Onn	8	1 Onn	5	2		1 pint pt	6	
Permitted Phases	4		4	8	0	8	2	L		6	U	
Detector Phase	4	4	4	8	8	8	5	2		1	6	
Switch Phase				Ű	Ű	Ű	Ű	-			Ű	
Minimum Initial (s)	8.0	8.0	8.0	8.0	8.0	8.0	3.0	15.0		3.0	15.0	
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	9.5	22.5		9.5	22.5	
Total Split (s)	26.0	26.0	26.0	26.0	26.0	26.0	14.0	39.0		10.0	35.0	
Total Split (%)	34.7%	34.7%	34.7%	34.7%	34.7%	34.7%	18.7%	52.0%		13.3%	46.7%	
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	3.5	4.0		3.5	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0		0.0	2.0	
Lost Time Adjust (s)	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Lost Time (s)		6.0	6.0		6.0	6.0	3.5	6.0		3.5	6.0	
Lead/Lag		0.0	0.0		0.0	0.0	Lag	Lead		Lag	Lead	
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	
Recall Mode	None	None	None	None	None	None	None	C-Min		None	C-Min	
Act Effct Green (s)	NULLE	13.5	13.5	NULLE	13.5	13.5	52.0	47.7		47.4	39.5	
Actuated g/C Ratio		0.18	0.18		0.18	0.18	0.69	0.64		0.63	0.53	
		0.10	0.10		0.10	0.10	0.09	0.04		0.05	0.00	

22-194 Outlot Parcel- Downers Grove sa/bsm

Lanes, Volumes, Timings 1: Lemont Road & Dunham Road/Middle Access Drive

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio		0.08	0.55		0.23	0.03	0.32	0.31		0.03	0.40	
Control Delay		24.2	34.4		27.0	23.0	3.5	2.0		4.9	12.5	
Queue Delay		0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay		24.2	34.4		27.0	23.0	3.5	2.0		4.9	12.5	
LOS		С	С		С	С	А	А		А	В	
Approach Delay		33.0			26.5			2.3			12.3	
Approach LOS		С			С			А			В	
Queue Length 50th (ft)		10	68		25	3	2	4		2	101	
Queue Length 95th (ft)		28	115		53	13	21	21		8	182	
Internal Link Dist (ft)		587			251			553			615	
Turn Bay Length (ft)			105			85	175			135		
Base Capacity (vph)		468	430		394	430	624	2248		543	1879	
Starvation Cap Reductn		0	0		0	0	0	0		0	0	
Spillback Cap Reductn		0	0		0	0	0	0		0	0	
Storage Cap Reductn		0	0		0	0	0	0		0	0	
Reduced v/c Ratio		0.06	0.37		0.16	0.02	0.27	0.31		0.03	0.40	
Intersection Summary												
	Other											
Cycle Length: 75												
Actuated Cycle Length: 75					_							
Offset: 0 (0%), Referenced	to phase 2:	NBTL and	d 6:SBTL	, Start of	Green							
Natural Cycle: 55												
Control Type: Actuated-Coc	ordinated											
Maximum v/c Ratio: 0.55												
Intersection Signal Delay: 1					tersection							
Intersection Capacity Utiliza	ation 53.2%			IC	U Level	of Service	A					
Amelyoin Devied (min) 1E												

Analysis Period (min) 15

Splits and Phases:	1: Lemont Road & Dunham Road/Middle Access Drive								
Ø2 (R)			Ø1		₩ 04				
39 s			10 s		26 s				
Ø6 (R)		1	ð5		- 1 Ø8				
35 s		14 s			26 s				

Lanes,	Volumes,	Timings	

2: Lemont Road & Signalized Access Drive/South Access Drive

		06/2	21/2022
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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ef 👘		<u>۲</u>	ef 👘		<u>۲</u>	∱1 ≽		- ሽ	- ††	1
Traffic Volume (vph)	66	11	42	232	8	33	55	759	94	38	823	69
Future Volume (vph)	66	11	42	232	8	33	55	759	94	38	823	69
Ideal Flow (vphpl)	1900	1900	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)	85		0	85		0	200		0	70		160
Storage Lanes	1		0	1		0	1		0	1		1
Taper Length (ft)	75			75			130			175		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	1.00
Ped Bike Factor												
Frt		0.881			0.879			0.983				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1805	1674	0	1805	1670	0	1805	3517	0	1805	3574	1615
Flt Permitted	0.000		-	0.000			0.224		-	0.314		
Satd. Flow (perm)	0	1674	0	0	1670	0	426	3517	0	597	3574	1615
Right Turn on Red	•		Yes			Yes		••••	Yes			Yes
Satd. Flow (RTOR)		43	100		34	100		21	100			145
Link Speed (mph)		30			30			40			40	110
Link Distance (ft)		302			294			366			633	
Travel Time (s)		6.9			6.7			6.2			10.8	
Confl. Peds. (#/hr)		0.5			0.7			0.2			10.0	
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%	0%	0%	0%	0%	0%	0%	1%	0%	0%	1%	0%
Bus Blockages (#/hr)	0	0 /0	0	0	0	0	0	0	0	0	0	070
Parking (#/hr)	0	U	0	0	U	0	0	U	0	0	0	U
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)		070			070			070			070	
Lane Group Flow (vph)	68	54	0	239	42	0	57	879	0	39	848	71
Turn Type	pm+pt	NA	0	pm+pt	NA	0	pm+pt	NA	U	pm+pt	NA	Perm
Protected Phases	ρπ+ρι 7	4		9111+pt 3	8		- μπ+μι 5	2		μιι+μι 1	6	I GIIII
Permitted Phases	4	4		8	0		2	2		6	0	6
Detector Phase	7	4		3	8		5	2		1	6	6
Switch Phase	1	4		3	0		5	Z		1	0	0
Minimum Initial (s)	3.0	8.0		3.0	8.0		3.0	15.0		3.0	15.0	15.0
Minimum Split (s)	9.5	14.0		9.5	14.0		9.0	24.0		9.5	24.0	24.0
,	9.5	14.0		9.5	20.0		9.0	24.0 35.0		9.5	36.0	36.0
Total Split (s)												
Total Split (%)	13.3%	18.7%		21.3%	26.7%		12.0%	46.7%		13.3%	48.0%	48.0%
Yellow Time (s)	3.5	4.0		3.5	4.0		3.5	4.0		3.5	4.0	4.0
All-Red Time (s)	0.0	2.0		0.0	2.0		0.0	2.0		0.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	3.5	6.0		3.5	6.0		3.5	6.0		3.5	6.0	6.0
Lead/Lag	Lag	Lag		Lead	Lead		Lead	Lead		Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None		None	C-Min		None	C-Min	C-Min
Act Effct Green (s)	9.7	8.0		12.1	8.7		41.5	39.0		42.3	39.6	39.6
Actuated g/C Ratio	0.13	0.11		0.16	0.12		0.55	0.52		0.56	0.53	0.53

22-194 Outlot Parcel- Downers Grove sa/bsm

Lanes, Volumes, Timings
2: Lemont Road & Signalized Access Drive/South Access Drive

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
v/c Ratio	0.29	0.25		0.82	0.19		0.17	0.48		0.09	0.45	0.08
Control Delay	31.8	16.6		54.8	16.0		13.3	15.3		5.8	8.3	0.6
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	0.0
Total Delay	31.8	16.6		54.8	16.0		13.3	15.3		5.8	8.3	0.6
LOS	С	В		D	В		В	В		А	А	A
Approach Delay		25.0			49.0			15.1			7.6	
Approach LOS		С			D			В			А	
Queue Length 50th (ft)	28	5		108	3		15	166		5	177	1
Queue Length 95th (ft)	64	36		#221	30		36	227		m11	74	3
Internal Link Dist (ft)		222			214			286			553	
Turn Bay Length (ft)	85			85			200			70		160
Base Capacity (vph)	238	216		300	339		338	1838		443	1886	921
Starvation Cap Reductn	0	0		0	0		0	0		0	0	(
Spillback Cap Reductn	0	0		0	0		0	0		0	0	(
Storage Cap Reductn	0	0		0	0		0	0		0	0	C
Reduced v/c Ratio	0.29	0.25		0.80	0.12		0.17	0.48		0.09	0.45	0.08
ntersection Summary												
<u>, , , , , , , , , , , , , , , , , , , </u>	Other											
Cycle Length: 75												
Actuated Cycle Length: 75												
Offset: 6 (8%), Referenced	to phase 2:	NBTL and	I 6:SBTL,	Start of (Green							
Natural Cycle: 60												
Control Type: Actuated-Coc	ordinated											
Maximum v/c Ratio: 0.82												
Intersection Signal Delay: 1					tersectior							
Intersection Capacity Utiliza	tion 60.2%			IC	U Level o	of Service	В					
Analysis Period (min) 15												
95th percentile volume e			eue may	be longer	ſ.							
Queue shown is maximu n Volume for 95th percen												

Splits and Phases: 2: Lemont Road & Signalized Access Drive/South Access Drive

	Ø1	√ Ø3	<u>⊸</u> _{Ø4}
35 s	10 s	16 s	14 s
▲ ø5 🖕 🗣 ø6 (R)		€ Ø8	▶ Ø7
9 s 36 s		20 s	10 s

Intersection						
Int Delay, s/veh	1.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	۰¥		∱ î≽		- ሽ	- † †
Traffic Vol, veh/h	21	121	639	21	87	737
Future Vol, veh/h	21	121	639	21	87	737
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	-	-	-	100	-
Veh in Median Storage	e, # 1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	1	11	0	2	0	0
Mvmt Flow	22	126	666	22	91	768

Major/Minor	Minor1	Μ	ajor1	N	lajor2	
Conflicting Flow All	1243	344	0	0	688	0
Stage 1	677	-	-	-	-	-
Stage 2	566	-	-	-	-	-
Critical Hdwy	6.82	7.12	-	-	4.1	-
Critical Hdwy Stg 1	5.82	-	-	-	-	-
Critical Hdwy Stg 2	5.82	-	-	-	-	-
Follow-up Hdwy	3.51	3.41	-	-	2.2	-
Pot Cap-1 Maneuver	168	626	-	-	916	-
Stage 1	469	-	-	-	-	-
Stage 2	534	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuve	r 151	626	-	-	916	-
Mov Cap-2 Maneuve	r 286	-	-	-	-	-
Stage 1	469	-	-	-	-	-
Stage 2	481	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	14.4	0	1
HCM LOS	В		

Minor Lane/Major Mvmt	NBT	NBRW	/BLn1	SBL	SBT
Capacity (veh/h)	-	-	532	916	-
HCM Lane V/C Ratio	-	-	0.278	0.099	-
HCM Control Delay (s)	-	-	14.4	9.4	-
HCM Lane LOS	-	-	В	Α	-
HCM 95th %tile Q(veh)	-	-	1.1	0.3	-

Movement EBL EBT EBR WBL WBT WBR NBT NBR SBL SBT SBR Lane Configurations	Intersection													
Lane Configurations Image: configuration for the system Image: configuration for	Int Delay, s/veh	0												
Traffic Vol, veh/h 0 0 0 0 8 0 900 100 0 1097 0 Future Vol, veh/h 0 0 0 0 8 0 900 100 0 1097 0 Future Vol, veh/h 0 0 0 0 8 0 900 100 0 1097 0 Conflicting Peds, #/hr 0 <	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Future Vol, veh/h 0 0 0 0 0 8 0 900 100 0 1097 0 Conflicting Peds, #/hr 0 <	Lane Configurations						1		∱ î≽			^		
Conflicting Peds, #/hr 0	Traffic Vol, veh/h	0	0	0	0	0	8	0	900	100	0	1097	0	
Sign ControlStopStopStopStopStopStopStopFree <td>Future Vol, veh/h</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>8</td> <td>0</td> <td>900</td> <td>100</td> <td>0</td> <td>1097</td> <td>0</td> <td></td>	Future Vol, veh/h	0	0	0	0	0	8	0	900	100	0	1097	0	
RT Channelized - - None - No	Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Storage Length - - - 0 -	Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
Veh in Median Storage, # 3 - 0 <td>RT Channelized</td> <td>-</td> <td>-</td> <td>None</td> <td>-</td> <td>-</td> <td>None</td> <td>-</td> <td>-</td> <td>None</td> <td>-</td> <td>-</td> <td>None</td> <td></td>	RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Grade, % - 0 0 0 0 -	Storage Length	-	-	-	-	-	0	-	-	-	-	-	-	
	Veh in Median Storage	e, # -	3	-	-	0	-	-	0	-	-	0	-	
	Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor 96 96 96 96 96 96 96 96 96 96 96 96 96	Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96	
Heavy Vehicles, % 0 0 0 0 0 0 0 1 1 0 1 0	Heavy Vehicles, %	0	0	0	0	0	0	0	1	1	0	1	0	
	Mvmt Flow	0	0	0	0	0	8	0	938	104	0	1143	0	

Major/Minor		Minor1		N	lajor1		Ма	ajor2		
Conflicting Flow All		-	-	521	-	0	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	0	505	0	-	-	0	-	0
Stage 1		0	0	-	0	-	-	0	-	0
Stage 2		0	0	-	0	-	-	0	-	0
Platoon blocked, %						-	-		-	
Mov Cap-1 Maneuver		-	0	505	-	-	-	-	-	-
Mov Cap-2 Maneuver		-	0	-	-	-	-	-	-	-
Stage 1		-	0	-	-	-	-	-	-	-
Stage 2		-	0	-	-	-	-	-	-	-
Approach		WB			NB			SB		
HCM Control Delay, s		12.2			0			0		
HCM LOS		В								
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBT							
Capacity (veh/h)	-	- 505	-							
HCM Lane V/C Ratio	-	- 0.017	-							
HCM Control Delay (s)	-	- 12.2	-							
HCM Lane LOS	-	- B	-							
HCM 95th %tile Q(veh)	-	- 0.1	-							

Intersection						
Int Delay, s/veh	0.8					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		^	朴朴			1
Traffic Vol, veh/h	0	1468	1322	153	0	105
Future Vol, veh/h	0	1468	1322	153	0	105
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
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	1	2	0	0	0
Mvmt Flow	0	1545	1392	161	0	111

Major/Minor	Major1	Ν	/lajor2	Ν	/linor2	
Conflicting Flow All	-	0	-	0	-	777
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.1
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.9
Pot Cap-1 Maneuver	0	-	-	-	0	295
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	-	295
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		24.3	
HCM LOS					С	
Minor Lane/Major Mvr	nt	EBT	WBT	WBR S	RIn1	
	III	EDI	VVDI			
Capacity (veh/h) HCM Lane V/C Ratio		-	-	-	295 0.375	
	۱	-	-			
HCM Control Delay (s HCM Lane LOS)	-	-	-	24.3	
		-	-	-	C 1.7	
HCM 95th %tile Q(veh	1)	-	-	-	1.7	

Intersection Capacity Utilization 6: Internal Drive & Middle Access Drive

	≯	\rightarrow	1	†	Ŧ	~	
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	1	1		Ę	et.		
Volume (vph)	51	28	22	74	112	47	
Pedestrians							
Ped Button							
Pedestrian Timing (s)							
Free Right		No				No	
deal Flow	1900	1900	1900	1900	1900	1900	
₋ost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Vinimum Green (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Refr Cycle Length (s)	120	120	120	120	120	120	
/olume Combined (vph)	51	28	0	96	159	0	
ane Utilization Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Furning Factor (vph)	0.95	0.85	0.95	0.99	0.96	0.85	
Saturated Flow (vph)	1805	1615	0	1878	1816	0	
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	
Pedestrian Frequency (%)	0.00			0.00	0.00		
Protected Option Allowed	No			No	No		
Reference Time (s)		2.1				0.0	
Adj Reference Time (s)		8.0				0.0	
Permitted Option							
Adj Saturation A (vph)	120		0	417	1816		
Reference Time A (s)	50.9		0.0	27.6	10.5		
Adj Saturation B (vph	NA		NA	NA	1816		
Reference Time B (s)	NA		NA	NA	10.5		
Reference Time (s)				27.6	10.5		
Adj Reference Time (s)				31.6	14.5		
Split Option							
Ref Time Combined (s)	3.4		0.0	6.1	10.5		
Ref Time Seperate (s)	3.4		1.5	4.7	7.4		
Reference Time (s)	3.4		6.1	6.1	10.5		
Adj Reference Time (s)	8.0		10.1	10.1	14.5		
Summary	EB		NB SB	Co	mbined		
Protected Option (s)	NA		NA				
Permitted Option (s)	Err		31.6				
Split Option (s)	8.0		24.6				
Minimum (s)	8.0		24.6		32.6		
Right Turns	EBR						
*							
dj Reference Time (s) Cross Thru Ref Time (s)	8.0 14.5						
()							
Dncoming Left Ref Time (s)	0.0 22.5						
Combined (s)	22.3						
ntersection Summary	n		27.2%		U Level o		e A

06/21/2022

Reference Times and Phasing Options do not represent an optimized timing plan.

Intersection Capacity Utilization 7: Internal Drive & South Access Drive

	•	7		+	•	
EBL	EBR	NBL	NBT	SBT	SBR	
۲.	1		स्	f,		
59	84	159	37	26	114	
	No				No	
1900	1900	1900	1900	1900	1900	
4.0	4.0	4.0	4.0	4.0	4.0	
4.0	4.0	4.0	4.0	4.0	4.0	
120	120	120	120	120	120	
59	84	0	196	140	0	
1.00	1.00	1.00	1.00	1.00	1.00	
		0.95	0.96	0.88	0.85	
		0	1823		0	
	2.0					
110	62		110		0.0	
	10.2				0.0	
120		0	1/1	1668		
		-				
11/1						
			17 1.4	17.1		
30		0.0	12.0	10.1		
0.0		10.9	10.9	14.1		
EB		NB SB	Со	mbined		
NA		NA				
Err		171.4				
8.0		31.0				
8.0		31.0		39.0		
FBR						
27.3						
n		00 = 01				
		32.5%			of Service	A
	59 1900 4.0 4.0 120 59 1.00 0.95 1805 0.0 0.00 No 120 58.8 NA 120 58.8 NA NA 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9	59 84 59 84 59 84 1900 1900 4.0 4.0 4.0 4.0 120 120 59 84 1.00 1.00 0.95 0.85 1805 1615 0.0 0.0 0.00 0.0 NO 6.2 10.2 10.2 120 58.8 NA NA S3.9 3.9 3.9 3.9 3.9 3.9 8.0 EB NA Err 8.0 8.0 EBR 10.2 14.1 0.0 24.3	No 1900 1900 1900 1900 1900 1900 4.0 4.0 4.0 4.0 4.0 4.0 120 120 120 59 84 0 1.00 1.00 1.00 0.95 0.85 0.95 1805 1615 0 0.0 0.0 0.0 0.00 0.0 0.0 0.00 0.0 0.0 0.00 0.0 0.0 0.00 0.0 0.0 0.00 0.0 0.0 0.00 0.0 0.0 0.00 0.0 0.0 120 0 0 58.8 0.0 0 3.9 0.0 3.9 3.9 10.6 3.9 3.9 10.6 3.9 3.9 31.0 31.0 8.0 31.0 31.0 8.0	59 84 159 37 1900 1900 1900 1900 1900 1900 1900 1900 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 120 120 120 120 59 84 0 196 1.00 1.00 1.00 1.00 0.95 0.85 0.95 0.96 1805 1615 0 1823 0.0 0.0 0.0 0.0 0.00 0.00 0.00 0.00 No 6.2 10.2 141 58.8 0.0 167.4 NA NA NA NA NA NA NA NA 167.4 NA NA NA 167.4 3.9 10.6 2.3 3.9 3.9 10.2 14.1	No 37 26 1900 1900 1900 1900 1900 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 120 120 120 120 120 59 84 0 196 140 1.00 1.00 1.00 1.00 1.00 0.95 0.85 0.95 0.96 0.88 1805 1615 0 1823 1668 0.0 0.0 0.0 0.0 0.0 0.00 0.00 0.00 0.00 0.00 No No No No 6.2 10.2 0 141 1668 58.8 0.0 167.4 10.1 NA NA NA 10.1 171.4 14.1 167.4 10.1 167.4 10.1 171.4 14.1 3.9 12.9	No No No 1900 1900 1900 1900 1900 1900 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 120 120 120 120 120 120 59 84 0 196 140 0 1.00 1.00 1.00 1.00 1.00 1.00 0.95 0.85 0.95 0.96 0.88 0.85 1805 1615 0 1823 1668 0 0.0 0.0 0.0 0.0 0.0 0.0 10.2 0 141 1668 58.8 0.0 167.4 10.1 NA NA NA NA 1668 NA 10.1 120 0 141 1668 16.9 14.1 1668 58.8 0.0 167.4 10.1 11.1

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Capacity Analysis Summary Sheets Year 2027 No-Build Saturday Midday Peak Hour Conditions

Lanes, Volumes, Timings 1: Lemont Road & Dunham Road/Middle Access Drive

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		र्भ	1		र्भ	1	5	≜ †⊅		5	A	
Traffic Volume (vph)	11	32	146	95	23	13	146	636	43	21	567	23
Future Volume (vph)	11	32	146	95	23	13	146	636	43	21	567	23
Ideal Flow (vphpl)	1900	1900	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)	0		105	0		85	175	- / -	0	135		0
Storage Lanes	0		1	0		1	1		0	1		0
Taper Length (ft)	60			25		•	165		•	120		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor	1.00				1.00	1.00		0.00	0.00		0.00	0.00
Frt			0.850			0.850		0.990			0.994	
Flt Protected		0.988	0.000		0.961	0.000	0.950	0.000		0.950	0.001	
Satd. Flow (prot)	0	1836	1599	0	1826	1615	1787	3504	0	1805	3536	0
Flt Permitted	U	0.908	1000	U	0.738	1010	0.397	0004	U	0.361	0000	U
Satd. Flow (perm)	0	1687	1599	0	1402	1615	747	3504	0	686	3536	0
Right Turn on Red	U	1007	No	U	1402	No	171	5504	No	000	0000	No
Satd. Flow (RTOR)			INU			NO			NO			NO
Link Speed (mph)		30			30			40			40	
Link Distance (ft)		667			331			633			695	
Travel Time (s)		15.2			7.5			10.8			11.8	
Confl. Peds. (#/hr)		15.2			7.5			10.0			11.0	
, ,												
Confl. Bikes (#/hr) Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.06	0.06	0.96
Growth Factor	100%	100%		100%			100%			0.96	0.96	
	9%		100% 1%		100%	100% 0%	100%	100% 2%	100% 2%	100% 0%	100%	100%
Heavy Vehicles (%)		0%		0%	0%						1%	13%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)		00/			00/			00/			00/	
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)	0		450	0	400		450	700	0	00	045	0
Lane Group Flow (vph)	0	44	152	0	123	14	152	708	0	22	615	0
Turn Type	Perm	NA	Perm	Perm	NA	Perm	pm+pt	NA		pm+pt	NA	
Protected Phases		4		0	8	0	5	2		1	6	
Permitted Phases	4		4	8	_	8	2	•		6	•	
Detector Phase	4	4	4	8	8	8	5	2		1	6	
Switch Phase								45.0			45.0	
Minimum Initial (s)	8.0	8.0	8.0	8.0	8.0	8.0	3.0	15.0		3.0	15.0	
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	9.5	22.5		9.5	22.5	
Total Split (s)	27.0	27.0	27.0	27.0	27.0	27.0	13.0	38.0		10.0	35.0	
Total Split (%)	36.0%	36.0%	36.0%	36.0%	36.0%	36.0%	17.3%	50.7%		13.3%	46.7%	
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	3.5	4.0		3.5	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0		0.0	2.0	
Lost Time Adjust (s)		0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	
Total Lost Time (s)		6.0	6.0		6.0	6.0	3.5	6.0		3.5	6.0	
Lead/Lag							Lag	Lead		Lag	Lead	
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	
Recall Mode	None	None	None	None	None	None	None	C-Min		None	C-Min	
Act Effct Green (s)		13.3	13.3		13.3	13.3	52.0	46.1		47.5	39.5	
Actuated g/C Ratio		0.18	0.18		0.18	0.18	0.69	0.61		0.63	0.53	

22-194 Outlot Parcel- Downers Grove sa/bsm

Lanes, Volumes, Timings 1: Lemont Road & Dunham Road/Middle Access Drive

		itoat		071000	535 DH	VC					00/2	
	٨	→	*	4	Ļ	•	•	†	*	1	ţ	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio		0.15	0.54		0.50	0.05	0.25	0.33		0.04	0.33	
Control Delay		25.4	34.4		33.9	23.6	3.8	3.5		5.0	11.8	
Queue Delay		0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay		25.4	34.4		33.9	23.6	3.8	3.5		5.0	11.8	
LOS		С	С		С	С	А	А		А	В	
Approach Delay		32.4			32.8			3.5			11.6	
Approach LOS		С			С			А			В	
Queue Length 50th (ft)		17	65		52	5	11	28		2	77	
Queue Length 95th (ft)		41	112		94	19	25	48		11	139	
Internal Link Dist (ft)		587			251			553			615	
Turn Bay Length (ft)			105			85	175			135		
Base Capacity (vph)		472	447		392	452	677	2151		540	1860	
Starvation Cap Reductn		0	0		0	0	0	0		0	0	
Spillback Cap Reductn		0	0		0	0	0	0		0	0	
Storage Cap Reductn		0	0		0	0	0	0		0	0	
Reduced v/c Ratio		0.09	0.34		0.31	0.03	0.22	0.33		0.04	0.33	
Intersection Summary												
Area Type:	Other											
Cycle Length: 75												
Actuated Cycle Length: 7												
Offset: 11 (15%), Referen	nced to phase 2:	NBTL a	and 6:SB	FL, Start o	of Green							
Natural Cycle: 55												
Control Type: Actuated-C	oordinated											
Maximum v/c Ratio: 0.54												
Intersection Signal Delay:					tersectior		-					
Intersection Capacity Utili	zation 51.0%			IC	U Level o	of Service	A					
Analysis Period (min) 15												

Splits and Phases: 1: Lemont Road & Dunham Road/Middle Access Drive

Ø2 (R)	\ \	Ø1	14
38 s	10 s	27 s	
● ● Ø6 (R)	▲ ø5	₽	18
35 s	13 s	27 s	

Lanes,	Volumes,	Timings	

2: Lemont Road & Signalized Access Drive/South Access Drive

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1	4Î		<u>ک</u>	4Î		<u>ار ا</u>	A⊅		1	<u></u>	1
Traffic Volume (vph)	100	12	48	282	22	69	66	656	150	48	699	61
Future Volume (vph)	100	12	48	282	22	69	66	656	150	48	699	61
Ideal Flow (vphpl)	1900	1900	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)	85		0	85		0	200		0	70		160
Storage Lanes	1		0	1		0	1		0	1		1
Taper Length (ft)	75			75			130			175		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	1.00
Ped Bike Factor												
Frt		0.881			0.886			0.972				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1648	0	1805	1683	0	1805	3453	0	1805	3574	1615
Flt Permitted	0.833			0.716			0.314			0.260		
Satd. Flow (perm)	1552	1648	0	1360	1683	0	597	3453	0	494	3574	1615
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		50			72			41				233
Link Speed (mph)		30			30			40			40	
Link Distance (ft)		302			294			366			633	
Travel Time (s)		6.9			6.7			6.2			10.8	
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 (%)	2%	0%	2%	0%	0%	0%	0%	2%	0%	0%	1%	0%
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)	104	63	0	294	95	0	69	839	0	50	728	64
Turn Type	pm+pt	NA		pm+pt	NA		pm+pt	NA		pm+pt	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4			8			2			6		6
Detector Phase	7	4		3	8		5	2		1	6	6
Switch Phase												
Minimum Initial (s)	3.0	8.0		3.0	8.0		3.0	15.0		3.0	15.0	15.0
Minimum Split (s)	9.5	14.0		9.5	14.0		9.0	24.0		9.5	24.0	24.0
Total Split (s)	10.6	14.0		18.4	21.8		9.0	33.0		9.6	33.6	33.6
Total Split (%)	14.1%	18.7%		24.5%	29.1%		12.0%	44.0%		12.8%	44.8%	44.8%
Yellow Time (s)	3.5	4.0		3.5	4.0		3.5	4.0		3.5	4.0	4.0
All-Red Time (s)	0.0	2.0		0.0	2.0		0.0	2.0		0.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	3.5	6.0		3.5	6.0		3.5	6.0		3.5	6.0	6.0
Lead/Lag	Lag	Lead		Lag	Lead		Lag	Lead		Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None		None	C-Min		None	C-Min	C-Min
Act Effct Green (s)	15.4	8.0		20.8	8.9		44.6	37.7		44.6	36.3	36.3
Actuated g/C Ratio	0.21	0.11		0.28	0.12		0.59	0.50		0.59	0.48	0.48
	÷ '	÷		0.20	<u>-</u>		0.00	0.00		0.00	0.10	

22-194 Outlot Parcel- Downers Grove sa/bsm

Lanes, Volumes, Timings
2: Lemont Road & Signalized Access Drive/South Access Drive

Z. Lemont Road &	Olynaliz		JC33 DI	100/00	Juin /	00033	DIIVC				00/2	
	٨	+	*	4	+	•	•	Ť	1	1	Ļ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.30	0.29		0.64	0.36		0.16	0.48		0.13	0.42	0.07
Control Delay	22.2	16.6		29.7	15.7		9.7	15.0		4.6	8.9	0.2
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	0.0
Total Delay	22.2	16.6		29.7	15.7		9.7	15.0		4.6	8.9	0.2
LOS	С	В		С	В		А	В		А	А	A
Approach Delay		20.1			26.3			14.6			8.0	
Approach LOS		С			С			В			А	
Queue Length 50th (ft)	34	6		110	10		13	141		8	87	0
Queue Length 95th (ft)	64	39		168	49		32	213		10	113	1
Internal Link Dist (ft)		222			214			286			553	
Turn Bay Length (ft)	85			85			200			70		160
Base Capacity (vph)	349	220		523	411		443	1756		402	1727	901
Starvation Cap Reductn	0	0		0	0		0	0		0	0	0
Spillback Cap Reductn	0	0		0	0		0	0		0	0	0
Storage Cap Reductn	0	0		0	0		0	0		0	0	0
Reduced v/c Ratio	0.30	0.29		0.56	0.23		0.16	0.48		0.12	0.42	0.07
Intersection Summary												
Area Type:	Other											
Cycle Length: 75												
Actuated Cycle Length: 75												
Offset: 5 (7%), Referenced	I to phase 2:	NBTL and	d 6:SBTL,	Start of (Green							
Natural Cycle: 60												
Control Type: Actuated-Co	ordinated											
Maximum v/c Ratio: 0.64												
Intersection Signal Delay: 7					tersectior							
Intersection Capacity Utilization	ation 61.9%			IC	U Level o	of Service	В					
Analysis Period (min) 15												

Splits and Phases: 2: Lemont Road & Signalized Access Drive/South Access Drive

Ø2 (R)		Ø1	A ₁₀₄	√ Ø3		
33 s	9).6s	14 s	18.4 s		
Ø6 (R)		Ø 5	₩ Ø8		▶ Ø7	
33.6 s		9 s	21.8 s		10.6 s	

Intersection						
Int Delay, s/veh	2.1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	۰¥				<u>ک</u>	^
Traffic Vol, veh/h	24	116	649	11	118	587
Future Vol, veh/h	24	116	649	11	118	587
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	-	-	-	100	-
Veh in Median Storage	e, # 1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	2	0	0	2	0	0
Mvmt Flow	25	121	676	11	123	611

Major/Minor	Minor1	M	ajor1	Ν	lajor2	
Conflicting Flow All	1234	344	0	0	687	0
Stage 1	682	-	-	-	-	-
Stage 2	552	-	-	-	-	-
Critical Hdwy	6.84	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	169	658	-	-	916	-
Stage 1	464	-	-	-	-	-
Stage 2	541	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	146	658	-	-	916	-
Mov Cap-2 Maneuver	280	-	-	-	-	-
Stage 1	464	-	-	-	-	-
Stage 2	469	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	14.3	0	1.6
HCM LOS	В		

Minor Lane/Major Mvmt	NBT	NBRW	/BLn1	SBL	SBT
Capacity (veh/h)	-	-	534	916	-
HCM Lane V/C Ratio	-	-	0.273	0.134	-
HCM Control Delay (s)	-	-	14.3	9.5	-
HCM Lane LOS	-	-	В	А	-
HCM 95th %tile Q(veh)	-	-	1.1	0.5	-

Intersection												
Int Delay, s/veh	0.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations						1		_ ≜ î≽			^	
Traffic Vol, veh/h	0	0	0	0	0	17	0	855	183	0	1029	0
Future Vol, veh/h	0	0	0	0	0	17	0	855	183	0	1029	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	0	-	-	-	-	-	-
Veh in Median Storage	e, # -	3	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	1	1	0	1	0
Mvmt Flow	0	0	0	0	0	18	0	929	199	0	1118	0

	Minor1		N	lajor1		Ma	ajor2				
	-	-	564	-	0	0	-	-	0		
	-	-	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-		
	-	-	6.9	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-		
	-	-		-	-	-	-	-	-		
	0	0	474		-	-		-			
	0	0	-		-	-		-			
	0	0	-	0	-	-	0	-	0		
					-	-		-			
	-	0	474	-	-	-	-	-	-		
	-		-	-	-	-	-	-	-		
	-		-	-	-	-	-	-	-		
	-	0	-	-	-	-	-	-	-		
	WB			NB			SB				
	12.9			0			0				
	В										
NBT	NBRWBLn1	SBT									
-	- 474	-									
-	- 0.039	-									
_	- 12.9										
	NBT		- - - - - - - - - - - - - - - - - - - 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 12.9 12.9 B 12.9 B 12.9 NBT NBRWBLn1 SBT - 0 0.039	- 564 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 0 <tr td=""> <!--</td--><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></tr>	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
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В

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HCM Lane LOS

sa/bsm

HCM 95th %tile Q(veh)

Intersection						
Int Delay, s/veh	1.3					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		^	朴朴			1
Traffic Vol, veh/h	0	1243	1073	219	0	155
Future Vol, veh/h	0	1243	1073	219	0	155
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	98	98	98	98	98	98
Heavy Vehicles, %	0	1	1	0	0	0
Mvmt Flow	0	1268	1095	223	0	158

Major/Minor	Major1	Ν	/lajor2	Mi	nor2	
Conflicting Flow All	-	0	-	0	-	659
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.1
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.9
Pot Cap-1 Maneuver	0	-	-	-	0	352
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	-	352
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		23.3	
HCM LOS					С	
Minor Lane/Major Mvr	nt	EBT	WBT	WBR SE	Din 1	
	m	EDI	VVDI			
Capacity (veh/h) HCM Lane V/C Ratio		-	-	-	352 .449	
	.)	-	-		23.3	
HCM Control Delay (s HCM Lane LOS	5)	-	-		23.3 C	
HCM 95th %tile Q(vel	-)	-	-	-	2.2	
	1)	-	-	-	2.2	

Intersection Capacity Utilization 6: Internal Drive & Middle Access Drive

	≯	\mathbf{i}	•	t	ţ	~
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	1	1		<u>بالماريم</u>	4	
Volume (vph)	59	37	36	116	155	95
Pedestrians		•••				
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1900	1900	1900	1900	1900	1900
Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Minimum Green (s)	4.0	4.0	4.0	4.0	4.0	4.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	59	37	0	152	250	0
Lane Utilization Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Factor (vph)	0.95	0.85	0.95	0.99	0.94	0.85
	0.95 1805	1615		0.99 1878	0.94 1792	
Saturated Flow (vph)	0.0	0.0	0 0.0	0.0	0.0	0 0.0
Ped Intf Time (s)		0.0	0.0			0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	No	<u> </u>		No	No	~ ~
Reference Time (s)		2.7				0.0
Adj Reference Time (s)		8.0				0.0
Permitted Option						
Adj Saturation A (vph)	120		0	406	1792	
Reference Time A (s)	58.8		0.0	45.0	16.7	
Adj Saturation B (vph	NA		NA	NA	1792	
Reference Time B (s)	NA		NA	NA	16.7	
Reference Time (s)				45.0	16.7	
Adj Reference Time (s)				49.0	20.7	
Split Option						
Ref Time Combined (s)	3.9		0.0	9.7	16.7	
Ref Time Seperate (s)	3.9		2.4	7.3	10.4	
Reference Time (s)	3.9		9.7	9.7	16.7	
Adj Reference Time (s)	8.0		13.7	13.7	20.7	
-						
Summary	EB		NB SB	Co	mbined	
Protected Option (s)	NA		NA			
Permitted Option (s)	Err		49.0			
Split Option (s)	8.0		34.5			
Minimum (s)	8.0		34.5		42.5	
Right Turns	EBR					
Adj Reference Time (s)	8.0					
Cross Thru Ref Time (s)	20.7					
Oncoming Left Ref Time (s)	0.0					
Combined (s)	28.7					
. ,						
Intersection Summary						
Intersection Capacity Utilization	n		35.4%	IC	U Level of	of Service

Reference Times and Phasing Options do not represent an optimized timing plan.

06/21/2022

Intersection Capacity Utilization 7: Internal Drive & South Access Drive

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	-	*)	I	*	-
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	1	7		्रम्	- f	101
Volume (vph)	95	115	212	57	31	161
Pedestrians						
Ped Button						
Pedestrian Timing (s)		N				N
Free Right	1000	No	1000	1000	1000	No
Ideal Flow	1900	1900	1900	1900	1900	1900
Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Minimum Green (s)	4.0	4.0	4.0	4.0	4.0	4.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	95	115	0	269	192	0
Lane Utilization Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Factor (vph)	0.95	0.85	0.95	0.96	0.87	0.85
Saturated Flow (vph)	1805	1615	0	1825	1661	0
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	No			No	No	
Reference Time (s)		8.5				0.0
Adj Reference Time (s)		12.5				0.0
Permitted Option						
Adj Saturation A (vph)	120		0	144	1661	
Reference Time A (s)	94.7		0.0	224.5	13.9	
Adj Saturation B (vph	NA		NA	NA	1661	
Reference Time B (s)	NA		NA	NA	13.9	
Reference Time (s)				224.5	13.9	
Adj Reference Time (s)				228.5	17.9	
Split Option						
Ref Time Combined (s)	6.3		0.0	17.7	13.9	
Ref Time Seperate (s)	6.3		14.1	3.6	2.2	
Reference Time (s)	6.3		17.7	17.7	13.9	
Adj Reference Time (s)	10.3		21.7	21.7	17.9	
Summary	EB		NB SB	Co	mbined	
Protected Option (s)	NA		NA			
Permitted Option (s)	Err		228.5			
Split Option (s)	10.3		39.6			
Minimum (s)	10.3		39.6		49.9	
Right Turns	EBR					
Adj Reference Time (s)	12.5					
Cross Thru Ref Time (s)	17.9					
Oncoming Left Ref Time (s)	0.0					
Combined (s)	30.4					
Intersection Summary						
Intersection Capacity Utilizatio	n		41.6%	IC	U Level o	of Service
Peference Times and Phasing		do not ro				

Intersection Capacity Utilization41.6%ICU Level of ServiceReference Times and Phasing Options do not represent an optimized timing plan.

06/21/2022

<u>Capacity Analysis Summary Sheets</u> Year 2027 Projected Weekday Morning Peak Hour Conditions

Lanes,	Vo	lume	s,	Т	imin	igs		
		_	-	-	_	-	_	 -

1: Lemont Road & Dunham Road/Middle Access Drive

06/21/2022

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		र्भ	1		ب	1	۲ ۲	≜ î≽		٦	∱ î≽	
Traffic Volume (vph)	8	5	197	25	2	20	147	724	35	15	445	5
Future Volume (vph)	8	5	197	25	2	20	147	724	35	15	445	5
Ideal Flow (vphpl)	1900	1900	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)	0		105	0		85	175		0	135		0
Storage Lanes	0		1	0		1	1		0	1		0
Taper Length (ft)	60			25			165			120		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor												
Frt			0.850			0.850		0.993			0.998	
Flt Protected		0.971			0.955		0.950			0.950		
Satd. Flow (prot)	0	1845	1615	0	1756	1615	1752	3438	0	1805	3425	0
Flt Permitted	Ŭ	0.874	1010	v	0.776	1010	0.452	0100	v	0.283	0120	Ŭ
Satd. Flow (perm)	0	1661	1615	0	1427	1615	834	3438	0	538	3425	0
Right Turn on Red	U	1001	No	U	1741	No	004	0400	No	000	0420	No
Satd. Flow (RTOR)			110			110			110			
Link Speed (mph)		30			30			40			40	
Link Distance (ft)		667			331			633			695	
Travel Time (s)		15.2			7.5			10.8			11.8	
Confl. Peds. (#/hr)		10.2			7.5			10.0			11.0	
Confl. Bikes (#/hr)												
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	0%	0%	0%	0%	50%	0%	3%	4%	10%	0%	5%	20%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)	Ŭ	Ŭ	Ŭ	Ŭ	Ű	Ű	Ű	Ŭ	Ū	Ŭ	Ű	Ű
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)		070			070			070			070	
Lane Group Flow (vph)	0	15	221	0	30	22	165	852	0	17	506	0
Turn Type	Perm	NA	Perm	Perm	NA	Perm	pm+pt	NA	Ű	pm+pt	NA	Ű
Protected Phases		4			8		5	2		1	6	
Permitted Phases	4	·	4	8	Ū	8	2	_		6	•	
Detector Phase	4	4	4	8	8	8	5	2		1	6	
Switch Phase	· ·		· ·	-	-	-	-				-	
Minimum Initial (s)	8.0	8.0	8.0	8.0	8.0	8.0	3.0	15.0		3.0	15.0	
Minimum Split (s)	24.0	24.0	24.0	24.0	24.0	24.0	9.5	25.0		9.5	24.0	
Total Split (s)	28.0	28.0	28.0	28.0	28.0	28.0	14.0	37.0		10.0	33.0	
Total Split (%)	37.3%	37.3%	37.3%	37.3%	37.3%	37.3%	18.7%	49.3%		13.3%	44.0%	
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	3.5	4.0		3.5	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0		0.0	2.0	
Lost Time Adjust (s)		0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	
Total Lost Time (s)		6.0	6.0		6.0	6.0	3.5	6.0		3.5	6.0	
Lead/Lag		0.0	0.0		0.0	0.0	Lag	Lead		Lag	Lead	
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	
Recall Mode	None	None	None	None	None	None	None	C-Min		None	C-Min	
Act Effct Green (s)	NOTIC	16.3	16.3	TUNC	16.3	16.3	49.2	44.9		44.3	36.3	
Actuated g/C Ratio		0.22	0.22		0.22	0.22	0.66	0.60		0.59	0.48	
		0.22	0.22		0.22	0.22	0.00	0.00		0.00	0.40	

22-194 Outlot Parcel- Downers Grove sa/bsm

Lanes, Volumes, Timings 1: Lemont Road & Dunham Road/Middle Access Drive

	Durman	TRout	/ Wildu		555 DI	10						
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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
v/c Ratio		0.04	0.63		0.10	0.06	0.26	0.41		0.04	0.31	
Control Delay		20.8	34.3		22.0	21.3	3.3	5.2		6.0	13.5	
Queue Delay		0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay		20.8	34.3		22.0	21.3	3.3	5.2		6.0	13.5	
LOS		С	С		С	С	А	А		А	В	
Approach Delay		33.4			21.7			4.9			13.3	
Approach LOS		С			С			А			В	
Queue Length 50th (ft)		6	94		11	8	10	77		1	67	
Queue Length 95th (ft)		18	145		28	23	11	51		10	127	
Internal Link Dist (ft)		587			251			553			615	
Turn Bay Length (ft)			105			85	175			135		
Base Capacity (vph)		487	473		418	473	715	2058		434	1656	
Starvation Cap Reductn		0	0		0	0	0	0		0	0	
Spillback Cap Reductn		0	0		0	0	0	0		0	0	
Storage Cap Reductn		0	0		0	0	0	0		0	0	
Reduced v/c Ratio		0.03	0.47		0.07	0.05	0.23	0.41		0.04	0.31	
Intersection Summary												
Area Type:	Other											
Cycle Length: 75												
Actuated Cycle Length: 75												
Offset: 0 (0%), Referenced	d to phase 2:	NBTL and	d 6:SBTL	, Start of (Green							
Natural Cycle: 60												
Control Type: Actuated-Co	ordinated											
Maximum v/c Ratio: 0.63												
Intersection Signal Delay:					tersectior							
Intersection Capacity Utiliz	ation 49.5%			IC	U Level o	of Service	A					
Analysis Period (min) 15												

Splits and Phases: 1: Lemont Road & Dunham Road/Middle Access Drive

	Ø1	404	
37 s	10 s	28 s	
Ø6 (R)	Ø 5	₹ø8	
33 s	14 s	28 s	

Lanes,	Volumes, ⁻	Timings	
		-	

2: Lemont Road &	Signalized A	ccess Drive/South	Access Drive

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	¢Î		5	eî 👘		5	A⊅		۲	<u></u>	1
Traffic Volume (vph)	36	3	7	43	2	25	15	845	48	23	632	12
Future Volume (vph)	36	3	7	43	2	25	15	845	48	23	632	12
Ideal Flow (vphpl)	1900	1900	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)	85		0	85		0	200		0	70		160
Storage Lanes	1		0	1		0	1		0	1		1
Taper Length (ft)	75			75			130			175		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	1.00
Ped Bike Factor												
Frt		0.891			0.860			0.992				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1656	1608	0	1805	1634	0	1805	3451	0	1805	3505	1380
Flt Permitted							0.383			0.259		
Satd. Flow (perm)	1743	1608	0	1900	1634	0	728	3451	0	492	3505	1380
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		8			27			8				145
Link Speed (mph)		30			30			40			40	
Link Distance (ft)		302			294			366			633	
Travel Time (s)		6.9			6.7			6.2			10.8	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	9%	14%	2%	0%	0%	0%	0%	4%	0%	0%	3%	17%
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)	39	11	0	46	29	0	16	961	0	25	680	13
Turn Type	pm+pt	NA		pm+pt	NA		pm+pt	NA		pm+pt	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4			8			2			6		6
Detector Phase	7	4		3	8		5	2		1	6	6
Switch Phase												
Minimum Initial (s)	3.0	8.0		3.0	8.0		3.0	15.0		3.0	15.0	15.0
Minimum Split (s)	9.5	23.0		9.5	23.0		9.5	25.0		9.5	24.0	24.0
Total Split (s)	10.0	23.0		10.0	23.0		10.0	32.0		10.0	32.0	32.0
Total Split (%)	13.3%	30.7%		13.3%	30.7%		13.3%	42.7%		13.3%	42.7%	42.7%
Yellow Time (s)	3.5	4.0		3.5	4.0		3.5	4.0		3.5	4.0	4.0
All-Red Time (s)	0.0	2.0		0.0	2.0		0.0	2.0		0.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	3.5	6.0		3.5	6.0		3.5	6.0		3.5	6.0	6.0
Lead/Lag	Lag	Lead		Lag	Lead		Lag	Lead		Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None		None	C-Min		None	C-Min	C-Min
Act Effct Green (s)	8.7	8.0		11.8	8.1		59.6	55.7		59.8	57.5	57.5
Actuated g/C Ratio	0.12	0.11		0.16	0.11		0.79	0.74		0.80	0.77	0.77

22-194 Outlot Parcel- Downers Grove sa/bsm

2: Lemont Road &	Signaliz	ed Aco	cess Dr	rive/So	outh A	ccess	Drive				06/2	1/2022
	۶	-	\mathbf{F}	∢	+	•	1	Ť	۲	1	ţ	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.20	0.06		0.16	0.14		0.02	0.37		0.05	0.25	0.01
Control Delay	29.0	21.2		24.6	15.1		4.9	8.5		2.1	2.8	0.0
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	0.0
Total Delay	29.0	21.2		24.6	15.1		4.9	8.5		2.1	2.8	0.0
LOS	С	С		С	В		А	А		А	А	A
Approach Delay		27.3			20.9			8.5			2.7	
Approach LOS		С			С			А			А	
Queue Length 50th (ft)	17	1		20	1		1	52		0	8	0
Queue Length 95th (ft)	35	16		40	23		9	215		m4	70	mO
Internal Link Dist (ft)		222			214			286			553	
Turn Bay Length (ft)	85			85			200			70		160
Base Capacity (vph)	203	370		295	391		681	2564		509	2686	1091
Starvation Cap Reductn	0	0		0	0		0	0		0	0	0
Spillback Cap Reductn	0	0		0	0		0	0		0	0	0
Storage Cap Reductn	0	0		0	0		0	0		0	0	0
Reduced v/c Ratio	0.19	0.03		0.16	0.07		0.02	0.37		0.05	0.25	0.01
Intersection Summary												
Area Type:	Other											
Cycle Length: 75												
Actuated Cycle Length: 75												
Offset: 2 (3%), Referenced	to phase 2:I	NBTL and	6:SBTL,	Start of (Green							
Natural Cycle: 70												
Control Type: Actuated-Coc	ordinated											
Maximum v/c Ratio: 0.37												
Intersection Signal Delay: 7					tersectior							
Intersection Capacity Utiliza	tion 43.9%			IC	U Level o	of Service	А					
Analysis Period (min) 15 m Volume for 95th percen												

Splits and Phases: 2: Lemont Road & Signalized Access Drive/South Access Drive

Ø2 (R)	Ø1		√ Ø3	
32 s	10 s	23 s	10 s	
Ø6 (R)	▲ ø5	₹Ø8	▶ _{Ø7}	
32 s	10 s	23 s	10 s	

Intersection							
Int Delay, s/veh	0.6						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	•
Lane Configurations	۰¥		≜ î≽		<u>۲</u>	- † †	•
Traffic Vol, veh/h	7	18	735	17	39	458	;
Future Vol, veh/h	7	18	735	17	39	458	3
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	-	-	-	100	-	-
Veh in Median Storage	9, # 1	-	0	-	-	0)
Grade, %	0	-	0	-	-	0)
Peak Hour Factor	97	97	97	97	97	97	1
Heavy Vehicles, %	3	14	7	4	50	0)
Mymt Flow	7	19	758	18	40	472	,

Major/Minor	Minor1	Μ	lajor1	N	lajor2	
Conflicting Flow All	1083	388	0	0	776	0
Stage 1	767	-	-	-	-	-
Stage 2	316	-	-	-	-	-
Critical Hdwy	6.86	7.18	-	-	5.1	-
Critical Hdwy Stg 1	5.86	-	-	-	-	-
Critical Hdwy Stg 2	5.86	-	-	-	-	-
Follow-up Hdwy	3.53	3.44	-	-	2.7	-
Pot Cap-1 Maneuver	210	578	-	-	586	-
Stage 1	416	-	-	-	-	-
Stage 2	709	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuve	r 196	578	-	-	586	-
Mov Cap-2 Maneuve	r 315	-	-	-	-	-
Stage 1	416	-	-	-	-	-
Stage 2	661	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	13.1	0	0.9
HCM LOS	В		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT	
Capacity (veh/h)	-	- 468	586	-	
HCM Lane V/C Ratio	-	- 0.055	0.069	-	
HCM Control Delay (s)	-	- 13.1	11.6	-	
HCM Lane LOS	-	- B	В	-	
HCM 95th %tile Q(veh)	-	- 0.2	0.2	-	

Intersection												
Int Delay, s/veh	0											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations						1		∱ î,			^	
Traffic Vol, veh/h	0	0	0	0	0	1	0	907	12	0	682	0
Future Vol, veh/h	0	0	0	0	0	1	0	907	12	0	682	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	0	-	-	-	-	-	-
Veh in Median Storage,	, # -	3	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	4	9	0	3	0
Mvmt Flow	0	0	0	0	0	1	0	986	13	0	741	0

Major/Minor		Minor1		Ν	lajor1		Ma	ajor2			
Conflicting Flow All		-	-	500	-	0	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	0	522	0	-	-	0	-	0	
Stage 1		0	0	-	0	-	-	0	-	0	
Stage 2		0	0	-	0	-	-	0	-	0	
Platoon blocked, %						-	-		-		
Mov Cap-1 Maneuver		-	0	522	-	-	-	-	-	-	
Mov Cap-2 Maneuver		-	0	-	-	-	-	-	-	-	
Stage 1		-	0	-	-	-	-	-	-	-	
Stage 2		-	0	-	-	-	-	-	-	-	
Approach		WB			NB			SB			
HCM Control Delay, s		11.9			0			0			
HCM LOS		В									
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBT								
Capacity (veh/h)	-	- 522	-								
HCM Lane V/C Ratio	-	- 0.002	-								
HCM Control Delay (s)	-	- 11.9	-								
HCM Lane LOS	-	- B	-								
HCM 95th %tile Q(veh)		- 0									

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		***	朴朴			1
Traffic Vol, veh/h	0	1363	887	20	0	34
Future Vol, veh/h	0	1363	887	20	0	34
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	0	3	2	12	0	25
Mvmt Flow	0	1450	944	21	0	36

Major/Minor	Major1	Ν	Major2	М	inor2	
Conflicting Flow All	-	0	-	0	-	483
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.6
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	4.15
Pot Cap-1 Maneuver	0	-	-	-	0	408
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	-	408
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		14.7	
HCM LOS					В	
Minor Long/Major Mur	~ t	EBT		WBR S		
Minor Lane/Major Mvr	nt	EBI	WBT			
Capacity (veh/h)		-	-	-	408	
HCM Lane V/C Ratio	`	-	-).089	
HCM Control Delay (s)	-	-	-	14.7	
HCM Lane LOS		-	-	-	B	
HCM 95th %tile Q(veh	1)	-	-	-	0.3	

Intersection Capacity Utilization 6: Internal Drive & Middle Access Drive

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	۲	1		र्भ	eî.	
Volume (vph)	43	12	7	18	11	40
Pedestrians			•			.•
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1900	1900	1900	1900	1900	1900
Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Minimum Green (s)	4.0	4.0	4.0	4.0	4.0	4.0
Refr Cycle Length (s)	120	120	120	120	120	120
	43	120		25	51	0
Volume Combined (vph)			0			
Lane Utilization Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Factor (vph)	0.95	0.85	0.95	0.99	0.88	0.85
Saturated Flow (vph)	1805	1615	0	1873	1676	0
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	No			No	No	
Reference Time (s)		0.9				0.0
Adj Reference Time (s)		8.0				0.0
Permitted Option						
Adj Saturation A (vph)	120		0	352	1676	
Reference Time A (s)	42.9		0.0	8.5	3.7	
Adj Saturation B (vph	NA		0	0	1676	
Reference Time B (s)	NA		8.5	9.6	3.7	
Reference Time (s)			0.0	8.5	3.7	
Adj Reference Time (s)				12.5	8.0	
Split Option				12.0	0.0	
	2.9		0.0	1.6	3.7	
Ref Time Combined (s)						
Ref Time Seperate (s)	2.9		0.5	1.1	0.8	
Reference Time (s)	2.9		1.6	1.6	3.7	
Adj Reference Time (s)	8.0		8.0	8.0	8.0	
Summary	EB		NB SB	Со	mbined	
Protected Option (s)	NA		NA			
Permitted Option (s)	Err		12.5			
Split Option (s)	8.0		16.0			
Minimum (s)	8.0		12.5		20.5	
			12.5		20.5	
Right Turns	EBR					
Adj Reference Time (s)	8.0					
Cross Thru Ref Time (s)	8.0					
Oncoming Left Ref Time (s)	0.0					
Combined (s)	16.0					
Intersection Summary						
Intersection Canacity Litilization			17 1%	10		of Comilao

ICU Level of Service

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Intersection Capacity Utilization 17.1% ICU Level of Serv Reference Times and Phasing Options do not represent an optimized timing plan.

06/21/2022

Intersection Capacity Utilization 7: Internal Drive & South Access Drive

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Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	ľ	1		र्च	4Î		
Volume (vph)	21	53	51	4	4	19	
Pedestrians							
Ped Button							
Pedestrian Timing (s)							
Free Right		No				No	
Ideal Flow	1900	1900	1900	1900	1900	1900	
Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Minimum Green (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Refr Cycle Length (s)	120	120	120	120	120	120	
Volume Combined (vph)	21	53	0	55	23	0	
Lane Utilization Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Factor (vph)	0.95	0.85	0.95	0.95	0.88	0.85	
Saturated Flow (vph)	1805	1615	0	1812	1665	0	
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	
Pedestrian Frequency (%)	0.00			0.00	0.00		
Protected Option Allowed	No			No	No		
Reference Time (s)		3.9				0.0	
Adj Reference Time (s)		8.0				0.0	
Permitted Option							
Adj Saturation A (vph)	120		0	127	1665		
Reference Time A (s)	20.9		0.0	52.0	1.7		
Adj Saturation B (vph	NA		0.0	02.0	1665		
Reference Time B (s)	NA		11.4	11.6	1.7		
Reference Time (s)	101			11.6	1.7		
Adj Reference Time (s)				15.6	8.0		
Split Option				10.0	0.0		
Ref Time Combined (s)	1.4		0.0	3.6	1.7		
Ref Time Seperate (s)	1.4		3.4	0.3	0.3		
Reference Time (s)	1.4		3.6	3.6	1.7		
Adj Reference Time (s)	8.0		8.0	8.0	8.0		
,							
Summary Protoctod Option (s)	EB		NB SB		mbined		
Protected Option (s)	NA Err		NA 15.6				
Permitted Option (s) Split Option (s)	8.0		15.0 16.0				
,	8.0 8.0		15.6		23.6		
/linimum (s)	0.0		10.0		23.0		
Right Turns	EBR						
Adj Reference Time (s)	8.0						
Cross Thru Ref Time (s)	8.0						
Oncoming Left Ref Time (s)	0.0						
Combined (s)	16.0						
ntersection Summary							
Intersection Capacity Utilization			19.7%	IC	U Level o	of Service	A

06/21/2022

Intersection Capacity Utilization 19.7% Reference Times and Phasing Options do not represent an optimized timing plan.

Capacity Analysis Summary Sheets Year 2027 Projected Weekday Evening Peak Hour Conditions

Lanes,	Vo	lumes, ⁻	Timings	

1: Lemont Road & Dunham Road/Middle Access Drive

06/21/2022

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		र्स	1		र्स	*	<u>۲</u>	A⊅		۲	∱ β	
Traffic Volume (vph)	7	19	155	56	19	24	167	633	66	11	727	24
Future Volume (vph)	7	19	155	56	19	24	167	633	66	11	727	24
Ideal Flow (vphpl)	1900	1900	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)	0		105	0		85	175		0	135		0
Storage Lanes	0		1	0		1	1		0	1		0
Taper Length (ft)	60			25		-	165		-	120		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor								0.00				0.00
Frt			0.850			0.850		0.986			0.995	
Flt Protected		0.987	0.000		0.964	0.000	0.950	0.000		0.950	0.000	
Satd. Flow (prot)	0	1875	1615	0	1832	1615	1805	3521	0	1805	3557	0
Flt Permitted	Ū	0.922	1010	Ū	0.763	1010	0.319	0021	Ū	0.361	0007	Ū
Satd. Flow (perm)	0	1752	1615	0	1450	1615	606	3521	0	686	3557	0
Right Turn on Red	U	1102	No	U	1400	No	000	0021	No	000	0007	No
Satd. Flow (RTOR)			110			110			110			
Link Speed (mph)		30			30			40			40	
Link Distance (ft)		667			331			633			695	
Travel Time (s)		15.2			7.5			10.8			11.8	
Confl. Peds. (#/hr)		10.2			1.5			10.0			11.0	
Confl. Bikes (#/hr)												
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	1%	2%	0%	1%	0%
Bus Blockages (#/hr)	0 /0	070	0 /0	070	0 /0	070	070	0	2 /0	0 /0	0	070
Parking (#/hr)	U	0	U	0	U	0	U	U	0	U	0	U
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)		0 /0			0 /0			070			0 /0	
Lane Group Flow (vph)	0	26	158	0	76	24	170	713	0	11	766	0
Turn Type	Perm	NA	Perm	Perm	NA	Perm	pm+pt	NA	0	pm+pt	NA	0
Protected Phases	I CIIII	4	I CIIII	I GIIII	8	I GIIII	5 pint pi	2		1 pini pi	6	
Permitted Phases	4	4	4	8	0	8	2	2		6	0	
Detector Phase	4	4	4	8	8	8	5	2		1	6	
Switch Phase	T	T	-	0	0	0	J	2		1	0	
Minimum Initial (s)	8.0	8.0	8.0	8.0	8.0	8.0	3.0	15.0		3.0	15.0	
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	9.5	22.5		9.5	22.5	
Total Split (s)	22.5	22.5	22.5	22.5	26.0	22.0	14.0	39.0		10.0	35.0	
Total Split (%)	34.7%	34.7%	34.7%	34.7%	34.7%	34.7%	18.7%	52.0%		13.3%	46.7%	
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	3.5	4.0		3.5	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0		0.0	2.0	
Lost Time Adjust (s)	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Lost Time (s)		6.0	6.0		6.0	6.0	3.5	6.0		3.5	6.0	
Lead/Lag		0.0	0.0		0.0	0.0		Lead			Lead	
Lead-Lag Optimize?							Lag Yes	Yes		Lag Yes	Yes	
Recall Mode	None	None	None	None	Nono	None		C-Min		None	C-Min	
	NOTE			None	None	None	None					
Act Effct Green (s)		13.5	13.5		13.5	13.5	52.0	47.7		47.4	39.6	
Actuated g/C Ratio		0.18	0.18		0.18	0.18	0.69	0.64		0.63	0.53	

22-194 Outlot Parcel- Downers Grove sa/bsm

Lanes, Volumes	, Timings
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1: Lemont Road & Dunham Road/Middle Access Drive

06/21/2022

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio		0.08	0.55		0.29	0.08	0.32	0.32		0.02	0.41	
Control Delay		24.2	34.4		28.1	24.2	3.5	2.1		4.8	12.5	
Queue Delay		0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay		24.2	34.4		28.1	24.2	3.5	2.1		4.8	12.5	
LOS		С	С		С	С	А	А		А	В	
Approach Delay		33.0			27.2			2.3			12.4	
Approach LOS		С			С			А			В	
Queue Length 50th (ft)		10	68		31	9	2	4		1	102	
Queue Length 95th (ft)		28	115		62	27	21	21		7	183	
Internal Link Dist (ft)		587			251			553			615	
Turn Bay Length (ft)			105			85	175			135		
Base Capacity (vph)		467	430		386	430	620	2240		539	1876	
Starvation Cap Reductn		0	0		0	0	0	0		0	0	
Spillback Cap Reductn		0	0		0	0	0	0		0	0	
Storage Cap Reductn		0	0		0	0	0	0		0	0	
Reduced v/c Ratio		0.06	0.37		0.20	0.06	0.27	0.32		0.02	0.41	
Intersection Summary												
Area Type: 0	Other											
Cycle Length: 75												
Actuated Cycle Length: 75												
Offset: 0 (0%), Referenced to	o phase 2:	NBTL and	d 6:SBTL	, Start of	Green							
Natural Cycle: 55												
Control Type: Actuated-Coor	rdinated											
Maximum v/c Ratio: 0.55												
Intersection Signal Delay: 10				In	tersectior	n LOS: B						
Intersection Capacity Utilizat	ion 54.2%			IC	U Level o	of Service	А					
Analysis Period (min) 15												

Analysis Period (min) 15

Splits and Phases: 1: Lemont Road & Dunham Road/Middle Access Drive

Ø2 (R)		Ø1	↓ _{Ø4}	
39 s		10 s	26 s	
● ● Ø6 (R)	•	Ø5	4 Ø8	
35 s	14	1 s	26 s	

Lanes, '	Volumes,	Timings

2: Lemont Road &	Signalized	Access	Drive/South	Access Drive

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	٦ ۲	4Î		<u>۲</u>	el 🕴		<u>۲</u>	∱ ⊅		٦	<u></u>	1
Traffic Volume (vph)	66	11	42	236	8	33	55	767	102	38	831	69
Future Volume (vph)	66	11	42	236	8	33	55	767	102	38	831	69
Ideal Flow (vphpl)	1900	1900	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)	85		0	85		0	200		0	70		160
Storage Lanes	1		0	1		0	1		0	1		1
Taper Length (ft)	75			75			130			175		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	1.00
Ped Bike Factor												
Frt		0.881			0.879			0.982				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1805	1674	0	1805	1670	0	1805	3514	0	1805	3574	1615
Flt Permitted	0.000			0.000			0.220			0.305		
Satd. Flow (perm)	0	1674	0	0	1670	0	418	3514	0	580	3574	1615
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		43			34			22				145
Link Speed (mph)		30			30			40			40	
Link Distance (ft)		302			294			366			633	
Travel Time (s)		6.9			6.7			6.2			10.8	
Confl. Peds. (#/hr)												
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%	0%	0%	0%	0%	0%	0%	1%	0%	0%	1%	0%
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)	68	54	0	243	42	0	57	896	0	39	857	71
Turn Type	pm+pt	NA		pm+pt	NA		pm+pt	NA		pm+pt	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4			8			2			6		6
Detector Phase	7	4		3	8		5	2		1	6	6
Switch Phase												
Minimum Initial (s)	3.0	8.0		3.0	8.0		3.0	15.0		3.0	15.0	15.0
Minimum Split (s)	9.5	14.0		9.5	14.0		9.0	24.0		9.5	24.0	24.0
Total Split (s)	10.0	14.0		16.0	20.0		9.0	35.0		10.0	36.0	36.0
Total Split (%)	13.3%	18.7%		21.3%	26.7%		12.0%	46.7%		13.3%	48.0%	48.0%
Yellow Time (s)	3.5	4.0		3.5	4.0		3.5	4.0		3.5	4.0	4.0
All-Red Time (s)	0.0	2.0		0.0	2.0		0.0	2.0		0.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	3.5	6.0		3.5	6.0		3.5	6.0		3.5	6.0	6.0
Lead/Lag	Lag	Lag		Lead	Lead		Lead	Lead		Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None		None	C-Min		None	C-Min	C-Min
Act Effct Green (s)	9.7	8.0		12.1	8.7		41.5	39.0		42.3	39.6	39.6
Actuated g/C Ratio	0.13	0.11		0.16	0.12		0.55	0.52		0.56	0.53	0.53
	55											

22-194 Outlot Parcel- Downers Grove sa/bsm

Lanes, Volumes,	Timings
2: Lemont Road 8	Signalized Access Drive/South Access Drive

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
v/c Ratio	0.29	0.25		0.84	0.19		0.17	0.49		0.09	0.45	0.08
Control Delay	31.8	16.6		56.4	16.0		13.3	15.4		6.1	8.6	0.7
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	0.0
Total Delay	31.8	16.6		56.4	16.0		13.3	15.4		6.1	8.6	0.7
LOS	С	В		Е	В		В	В		А	А	A
Approach Delay		25.0			50.4			15.2			7.9	
Approach LOS		С			D			В			А	
Queue Length 50th (ft)	28	5		110	3		15	171		6	181	(
Queue Length 95th (ft)	64	36		#226	30		36	233		m12	78	4
Internal Link Dist (ft)		222			214			286			553	
Turn Bay Length (ft)	85			85			200			70		160
Base Capacity (vph)	238	216		300	339		334	1837		435	1886	921
Starvation Cap Reductn	0	0		0	0		0	0		0	0	(
Spillback Cap Reductn	0	0		0	0		0	0		0	0	(
Storage Cap Reductn	0	0		0	0		0	0		0	0	(
Reduced v/c Ratio	0.29	0.25		0.81	0.12		0.17	0.49		0.09	0.45	0.08
ntersection Summary												
71	Other											
Cycle Length: 75												
Actuated Cycle Length: 75					_							
Offset: 6 (8%), Referenced t	to phase 2:	VBTL and	6:SBTL,	Start of (Green							
Natural Cycle: 60												
Control Type: Actuated-Coo	rdinated											
Maximum v/c Ratio: 0.84												
Intersection Signal Delay: 17					tersection		_					
ntersection Capacity Utiliza	tion 60.9%			IC	U Level o	of Service	В					
Analysis Period (min) 15		.,										
# 95th percentile volume e			eue may	be longer								
Queue shown is maximu n Volume for 95th percen												

Splits and Phases: 2: Lemont Road & Signalized Access Drive/South Access Drive

<1 ø2 (R) ■	Ø1	√ Ø3	A 104			
35 s	10 s	16 s	14 s			
▲ ø5 🖕 🗣 ø6 (R)		₹_Ø8	<u>∕</u> ≉ _{∅7}			
9 s 36 s		20 s	10 s			

Intersection						
Int Delay, s/veh	1.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	۰¥		∱ î≽			- † †
Traffic Vol, veh/h	21	125	643	21	91	741
Future Vol, veh/h	21	125	643	21	91	741
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	-	-	-	100	-
Veh in Median Storage	,#1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	1	11	0	2	0	0
Mvmt Flow	22	130	670	22	95	772

Major/Minor	Minor1	Μ	lajor1	Ν	lajor2	
Conflicting Flow All	1257	346	0	0	692	0
Stage 1	681	-	-	-	-	-
Stage 2	576	-	-	-	-	-
Critical Hdwy	6.82	7.12	-	-	4.1	-
Critical Hdwy Stg 1	5.82	-	-	-	-	-
Critical Hdwy Stg 2	5.82	-	-	-	-	-
Follow-up Hdwy	3.51	3.41	-	-	2.2	-
Pot Cap-1 Maneuver	164	625	-	-	912	-
Stage 1	467	-	-	-	-	-
Stage 2	528	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	r 147	625	-	-	912	-
Mov Cap-2 Maneuve	r 282	-	-	-	-	-
Stage 1	467	-	-	-	-	-
Stage 2	473	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	14.5	0	1
HCM LOS	В		

Minor Lane/Major Mvmt	NBT	NBRWBLr	1 SBL	SBT
Capacity (veh/h)	-	- 53	2 912	-
HCM Lane V/C Ratio	-	- 0.28	6 0.104	-
HCM Control Delay (s)	-	- 14	5 9.4	-
HCM Lane LOS	-	-	B A	-
HCM 95th %tile Q(veh)	-	- 1	2 0.3	-

06/21/2022

Intersection													
Int Delay, s/veh	0												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations						1		_ ≜ î≽			* **		
Traffic Vol, veh/h	0	0	0	0	0	8	0	916	100	0	1109	0	
Future Vol, veh/h	0	0	0	0	0	8	0	916	100	0	1109	0	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	0	-	-	-	-	-	-	
Veh in Median Storage	e, # -	3	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96	
Heavy Vehicles, %	0	0	0	0	0	0	0	1	1	0	1	0	
Mvmt Flow	0	0	0	0	0	8	0	954	104	0	1155	0	

	Minor1		Μ	lajor1		Ма	ajor2				
	-	-	529	-	0	0	-	-	0		
	-	-	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-		
	-	-	6.9	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-		
	-	-		-	-	-	-	-	-		
			499		-	-		-			
		•	-		-	-		-			
	0	0	-	0	-	-	0	-	0		
					-	-		-			
	-		499	-	-	-	-	-	-		
	-		-	-	-	-	-	-	-		
	-		-	-	-	-	-	-	-		
	-	0	-	-	-	-	-	-	-		
	WB			NB			SB				
	12.3			0			0				
	В										
NBT	NBRWBLn1	SBT									
-	- 499	-									
-	- 0.017	-									
-	- 12.3	-									
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Intersection						
Int Delay, s/veh	0.9					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		***	朴朴			1
Traffic Vol, veh/h	0	1468	1325	157	0	112
Future Vol, veh/h	0	1468	1325	157	0	112
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
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	1	2	0	0	0
Mvmt Flow	0	1545	1395	165	0	118

Major/Minor M	Major1	Ν	/lajor2	Ν	linor2	
Conflicting Flow All	-	0	-	0	-	780
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.1
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.9
Pot Cap-1 Maneuver	0	-	-	-	0	294
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	294
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		25.2	
HCM LOS	-				D	
	1	EDT			- 1	
Minor Lane/Major Mvm	π	EBT	WBT	WBR S		
Capacity (veh/h)		-	-	-	294	
HCM Lane V/C Ratio		-	-	-	0.401	
HCM Control Delay (s)		-	-	-	25.2	
HCM Lane LOS		-	-	-	D	
HCM 95th %tile Q(veh)		-	-	-	1.9	

Intersection Capacity Utilization 6: Internal Drive & Middle Access Drive

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Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	ň	1		ન	eî.		
Volume (vph)	70	26	22	82	118	77	
Pedestrians							
Ped Button							
Pedestrian Timing (s)							
Free Right		No				No	
Ideal Flow	1900	1900	1900	1900	1900	1900	
Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Minimum Green (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Refr Cycle Length (s)	120	120	120	120	120	120	
Volume Combined (vph)	70	26	0	104	195	0	
Lane Utilization Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Factor (vph)	0.95	0.85	0.95	0.99	0.94	0.85	
Saturated Flow (vph)	1805	1615	0	1880	1787	0	
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	
Pedestrian Frequency (%)	0.00			0.00	0.00		
Protected Option Allowed	No			No	No		
Reference Time (s)		1.9				0.0	
Adj Reference Time (s)		8.0				0.0	
Permitted Option							
Adj Saturation A (vph)	120		0	445	1787		
Reference Time A (s)	69.8		0.0	28.0	13.1		
Adj Saturation B (vph	NA		NA	NA	1787		
Reference Time B (s)	NA		NA	NA	13.1		
Reference Time (s)				28.0	13.1		
Adj Reference Time (s)				32.0	17.1		
Split Option							
Ref Time Combined (s)	4.7		0.0	6.6	13.1		
Ref Time Seperate (s)	4.7		1.5	5.2	7.9		
Reference Time (s)	4.7		6.6	6.6	13.1		
Adj Reference Time (s)	8.7		10.6	10.6	17.1		
Summary	EB		NB SB		mbined		
Protected Option (s)	NA		NA	0			
Permitted Option (s)	Err		32.0				
Split Option (s)	8.7		27.7				
Minimum (s)	8.7		27.7		36.4		
()							
Right Turns	EBR						
Adj Reference Time (s)	8.0						
Cross Thru Ref Time (s)	17.1						
Oncoming Left Ref Time (s)	0.0						
Combined (s)	25.1						
Intersection Summary							
Intersection Capacity Utilization	on		30.3%		U Level o	of Service	A

Reference Times and Phasing Options do not represent an optimized timing plan.

06/21/2022

Intersection Capacity Utilization 7: Internal Drive & South Access Drive

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Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	٦	1		र्भ	f,		
Volume (vph)	67	84	159	37	26	118	
Pedestrians							
Ped Button							
Pedestrian Timing (s)							
Free Right		No				No	
Ideal Flow	1900	1900	1900	1900	1900	1900	
Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Minimum Green (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Refr Cycle Length (s)	120	120	120	120	120	120	
Volume Combined (vph)	67	84	0	196	144	0	
Lane Utilization Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Factor (vph)	0.95	0.85	0.95	0.96	0.88	0.85	
Saturated Flow (vph)	1805	1615	0	1823	1666	0	
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	
Pedestrian Frequency (%)	0.00			0.00	0.00		
Protected Option Allowed	No			No	No		
Reference Time (s)		6.2				0.0	
Adj Reference Time (s)		10.2				0.0	
Permitted Option							
Adj Saturation A (vph)	120		0	141	1666		
Reference Time A (s)	66.8		0.0	167.4	10.4		
Adj Saturation B (vph	NA		NA	NA	1666		
Reference Time B (s)	NA		NA	NA	10.4		
Reference Time (s)				167.4	10.4		
Adj Reference Time (s)				171.4	14.4		
Split Option							
Ref Time Combined (s)	4.5		0.0	12.9	10.4		
Ref Time Seperate (s)	4.5		10.6	2.3	1.9		
Reference Time (s)	4.5		12.9	12.9	10.4		
Adj Reference Time (s)	8.5		16.9	16.9	14.4		
Summary	EB		NB SB	Co	mbined		
Protected Option (s)	NA		NA				
Permitted Option (s)	Err		171.4				
Split Option (s)	8.5		31.3				
Minimum (s)	8.5		31.3		39.7		
Right Turns	EBR						
Adj Reference Time (s)	10.2						
Cross Thru Ref Time (s)	14.4						
Oncoming Left Ref Time (s)	0.0						
Combined (s)	24.6						
Intersection Summary							
Intersection Capacity Utilization	20		33.1%			of Service	
Reference Times and Phasing		do not re					
Telefence Times and FlidSill(y options		pieselii i		eu uning	μαπ.	

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06/21/2022

Capacity Analysis Summary Sheets Year 2027 Projected Saturday Midday Peak Hour Conditions

Actuated g/C Ratio

06/21/2022

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Lanes, Volumes,	Timings
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1: Lemont Road & Dunham Road/Middle Access Drive

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		् 4	1		୍ କ	1	<u> </u>	≜ ⊅		`	- † Þ	
Traffic Volume (vph)	11	32	146	112	23	38	146	616	70	33	559	23
Future Volume (vph)	11	32	146	112	23	38	146	616	70	33	559	23
Ideal Flow (vphpl)	1900	1900	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)	0		105	0		85	175		0	135		0
Storage Lanes	0		1	0		1	1		0	1		0
Taper Length (ft)	60			25			165			120		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor												
Frt			0.850			0.850		0.985			0.994	
Flt Protected		0.988			0.960		0.950			0.950		
Satd. Flow (prot)	0	1836	1599	0	1824	1615	1787	3486	0	1805	3536	0
Flt Permitted		0.904			0.732		0.402			0.357		
Satd. Flow (perm)	0	1680	1599	0	1391	1615	756	3486	0	678	3536	0
Right Turn on Red			No			No			No			No
Satd. Flow (RTOR)												
Link Speed (mph)		30			30			40			40	
Link Distance (ft)		667			331			633			695	
Travel Time (s)		15.2			7.5			10.8			11.8	
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 (%)	9%	0%	1%	0%	0%	0%	1%	2%	2%	0%	1%	13%
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)	0	44	152	0	141	40	152	715	0	34	606	0
Turn Type	Perm	NA	Perm	Perm	NA	Perm	pm+pt	NA		pm+pt	NA	
Protected Phases		4			8		5	2		1	6	
Permitted Phases	4		4	8		8	2			6		
Detector Phase	4	4	4	8	8	8	5	2		1	6	
Switch Phase												
Minimum Initial (s)	8.0	8.0	8.0	8.0	8.0	8.0	3.0	15.0		3.0	15.0	
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	9.5	22.5		9.5	22.5	
Total Split (s)	27.0	27.0	27.0	27.0	27.0	27.0	13.0	38.0		10.0	35.0	
Total Split (%)	36.0%	36.0%	36.0%	36.0%	36.0%	36.0%	17.3%	50.7%		13.3%	46.7%	
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	3.5	4.0		3.5	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0		0.0	2.0	
Lost Time Adjust (s)		0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	
Total Lost Time (s)		6.0	6.0		6.0	6.0	3.5	6.0		3.5	6.0	
Lead/Lag							Lag	Lead		Lag	Lead	
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	
Recall Mode	None	None	None	None	None	None	None	C-Min		None	C-Min	
Act Effct Green (s)		13.3	13.3		13.3	13.3	52.0	46.0		47.5	39.4	
		0.40	0.40		0.40	0.40	0.00	0.04		0.00	0.50	

0.18

0.18

0.69

0.61

22-194 Outlot Parcel- Downers Grove sa/bsm

0.18

0.18

Synchro 11 Report

0.53

0.63

06/21/2022

Lanes, Volumes, Timings 1: Lemont Road & Dunham Road/Middle Access Drive

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio		0.15	0.54		0.57	0.14	0.25	0.33		0.07	0.33	
Control Delay		25.4	34.3		36.8	25.3	3.8	3.5		5.1	11.8	
Queue Delay		0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay		25.4	34.3		36.8	25.3	3.8	3.5		5.1	11.8	
LOS		С	С		D	С	А	А		А	В	
Approach Delay		32.3			34.3			3.5			11.5	
Approach LOS		С			С			А			В	
Queue Length 50th (ft)		17	65		61	16	11	28		3	75	
Queue Length 95th (ft)		41	111		106	38	24	48		14	137	
Internal Link Dist (ft)		587			251			553			615	
Turn Bay Length (ft)			105			85	175			135		
Base Capacity (vph)		470	447		389	452	682	2138		535	1857	
Starvation Cap Reductn		0	0		0	0	0	0		0	0	
Spillback Cap Reductn		0	0		0	0	0	0		0	0	
Storage Cap Reductn		0	0		0	0	0	0		0	0	
Reduced v/c Ratio		0.09	0.34		0.36	0.09	0.22	0.33		0.06	0.33	
Intersection Summary												
	Other											
Cycle Length: 75												
Actuated Cycle Length: 75				-								
Offset: 11 (15%), Referenced	d to phase 2:	NBTL a	and 6:SB ⁻	FL, Start o	of Green							
Natural Cycle: 55												
Control Type: Actuated-Coor	dinated											
Maximum v/c Ratio: 0.57												
Intersection Signal Delay: 12					tersectior							
Intersection Capacity Utilizati	ion 51.7%			IC	U Level o	of Service	A					

Analysis Period (min) 15

Splits and Phases: 1: Lemont Road & Dunham Road/Middle Access Drive

Ø2 (R)	> ø	1 404	
38 s	10 s	27 s	
● ● Ø6 (R)	▲ ø5		
35 s	13 s	27 s	

Lanes, Volumes, Ti	mings
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2: Lemont Road & Signalized Access Drive/South Access Drive

06/21/2022

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	<u>۲</u>	¢Î		<u>۲</u>	eî.		<u>۲</u>	A		۲.	<u></u>	1
Traffic Volume (vph)	100	12	48	287	22	69	66	663	157	48	708	61
Future Volume (vph)	100	12	48	287	22	69	66	663	157	48	708	61
Ideal Flow (vphpl)	1900	1900	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)	85		0	85		0	200		0	70		160
Storage Lanes	1		0	1		0	1		0	1		1
Taper Length (ft)	75			75			130			175		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	1.00
Ped Bike Factor												
Frt		0.881			0.886			0.971				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1648	0	1805	1683	0	1805	3450	0	1805	3574	1615
Flt Permitted	0.833			0.716			0.308			0.251		
Satd. Flow (perm)	1552	1648	0	1360	1683	0	585	3450	0	477	3574	1615
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		50			72			43				233
Link Speed (mph)		30			30			40			40	
Link Distance (ft)		302			294			366			633	
Travel Time (s)		6.9			6.7			6.2			10.8	
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 (%)	2%	0%	2%	0%	0%	0%	0%	2%	0%	0%	1%	0%
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)	104	63	0	299	95	0	69	855	0	50	738	64
Turn Type	pm+pt	NA		pm+pt	NA		pm+pt	NA		pm+pt	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4			8			2			6		6
Detector Phase	7	4		3	8		5	2		1	6	6
Switch Phase												
Minimum Initial (s)	3.0	8.0		3.0	8.0		3.0	15.0		3.0	15.0	15.0
Minimum Split (s)	9.5	14.0		9.5	14.0		9.0	24.0		9.5	24.0	24.0
Total Split (s)	10.6	14.0		18.4	21.8		9.0	33.0		9.6	33.6	33.6
Total Split (%)	14.1%	18.7%		24.5%	29.1%		12.0%	44.0%		12.8%	44.8%	44.8%
Yellow Time (s)	3.5	4.0		3.5	4.0		3.5	4.0		3.5	4.0	4.0
All-Red Time (s)	0.0	2.0		0.0	2.0		0.0	2.0		0.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	3.5	6.0		3.5	6.0		3.5	6.0		3.5	6.0	6.0
Lead/Lag	Lag	Lead		Lag	Lead		Lag	Lead		Lag	Lead	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None		None	C-Min		None	C-Min	C-Min
Act Effct Green (s)	15.5	8.0		21.0	8.9		44.4	37.5		44.4	36.1	36.1
Actuated g/C Ratio	0.21	0.11		0.28	0.12		0.59	0.50		0.59	0.48	0.48

22-194 Outlot Parcel- Downers Grove sa/bsm

06/21/2022

Lanes, Volumes, Timings
2: Lemont Road & Signalized Access Drive/South Access Drive

Z. Lemont Road C	x Olghaliz		JC33 DI	100/00	Juin /	00000					00/2	
	٨	→	*	4	+	•	•	Ť	1	*	ţ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c Ratio	0.30	0.29		0.65	0.36		0.16	0.49		0.13	0.43	0.07
Control Delay	21.9	16.6		29.7	15.7		9.8	15.3		4.8	9.1	0.2
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	0.0
Total Delay	21.9	16.6		29.7	15.7		9.8	15.3		4.8	9.1	0.2
LOS	С	В		С	В		А	В		А	А	A
Approach Delay		19.9			26.3			14.9			8.1	
Approach LOS		В			С			В			А	
Queue Length 50th (ft)	34	6		111	10		13	145		8	92	0
Queue Length 95th (ft)	64	39		170	49		32	220		11	118	1
Internal Link Dist (ft)		222			214			286			553	
Turn Bay Length (ft)	85			85			200			70		160
Base Capacity (vph)	353	220		523	411		435	1747		392	1719	897
Starvation Cap Reductn	0	0		0	0		0	0		0	0	0
Spillback Cap Reductn	0	0		0	0		0	0		0	0	0
Storage Cap Reductn	0	0		0	0		0	0		0	0	0
Reduced v/c Ratio	0.29	0.29		0.57	0.23		0.16	0.49		0.13	0.43	0.07
Intersection Summary												
Area Type:	Other											
Cycle Length: 75												
Actuated Cycle Length: 7												
Offset: 5 (7%), Reference	ed to phase 2:	NBTL and	d 6:SBTL,	Start of	Green							
Natural Cycle: 60												
Control Type: Actuated-C	oordinated											
Maximum v/c Ratio: 0.65												
Intersection Signal Delay:					tersectior		_					
Intersection Capacity Utili	zation 62.6%			IC	U Level o	of Service	В					
Analysis Period (min) 15												

Splits and Phases: 2: Lemont Road & Signalized Access Drive/South Access Drive

Ø2 (R)		Ø1	 Ø4	√ Ø3		
33 s	9	9.6 s	14 s	18.4 s		
Ø6 (R)		▲ <u>Ø</u> 5	₩ Ø8		▶ 07	
33.6 s		9 s	21.8 s		10.6 s	

Intersection						
Int Delay, s/veh	2.1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	۰¥		∱ î≽			- † †
Traffic Vol, veh/h	24	121	654	11	122	591
Future Vol, veh/h	24	121	654	11	122	591
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	-	-	-	100	-
Veh in Median Storage	, # 1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	2	0	0	2	0	0
Mvmt Flow	25	126	681	11	127	616

Major/Minor	Minor1	M	ajor1	N	lajor2		
Conflicting Flow All	1249	346	0	0	692	0	
Stage 1	687	-	-	-	-	-	
Stage 2	562	-	-	-	-	-	
Critical Hdwy	6.84	6.9	-	-	4.1	-	
Critical Hdwy Stg 1	5.84	-	-	-	-	-	
Critical Hdwy Stg 2	5.84	-	-	-	-	-	
Follow-up Hdwy	3.52	3.3	-	-	2.2	-	
Pot Cap-1 Maneuver	165	656	-	-	912	-	
Stage 1	461	-	-	-	-	-	
Stage 2	534	-	-	-	-	-	
Platoon blocked, %			-	-		-	
Mov Cap-1 Maneuve	r 142	656	-	-	912	-	
Mov Cap-2 Maneuve	r 275	-	-	-	-	-	
Stage 1	461	-	-	-	-	-	
Stage 2	460	-	-	-	-	-	

Approach	WB	NB	SB
HCM Control Delay, s	14.4	0	1.6
HCM LOS	В		

Minor Lane/Major Mvmt	NBT	NBRWB	Ln1	SBL	SBT
Capacity (veh/h)	-	- :	534	912	-
HCM Lane V/C Ratio	-	- 0.1	283	0.139	-
HCM Control Delay (s)	-	- 1	4.4	9.6	-
HCM Lane LOS	-	-	В	Α	-
HCM 95th %tile Q(veh)	-	-	1.2	0.5	-

Intersection												
Int Delay, s/veh	0.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations						1		- † 1,-			^	
Traffic Vol, veh/h	0	0	0	0	0	17	0	869	183	0	1043	0
Future Vol, veh/h	0	0	0	0	0	17	0	869	183	0	1043	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	0	-	-	-	-	-	-
Veh in Median Storage	e, # -	3	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	1	1	0	1	0
Mvmt Flow	0	0	0	0	0	18	0	945	199	0	1134	0

Minor1		М	lajor1		Ма	ajor2			
-	-	572	-	0	0	-	-	0	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	6.9	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-		-	-	-	-	-	-	
		468		-	-		-		
		-		-	-		-		
0	0	-	0	-	-	0	-	0	
				-	-		-		
-		468	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	
-	0	-	-	-	-	-	-	-	
WB			NB			SB			
13			0			0			
В									
IBT NBRWBLn1	SBT								
468	-								
0.039	-								
13	-								
B	-								
0.1	-								
	- - - - - - - - - 0 0 0 0 0 0 0 0 0 0 0	 	572 6.9 0 - 0 - 0 - 0 - 0 - 0 - -	- - 572 - - - - - - - - - - - 6.9 - - - - - - - - - - - 3.3 - - - - - - - 3.3 - 0 0 468 0 0 0 - 0 - 0 - - - 0 - - - 0 - - - 0 - - - 0 - - - 0 - - - 0 - - - 0 - - - 0 - - - 13 0 - - - 13 - - - 13 - -	- - 572 - 0 - - - - - - - 6.9 - - - - 6.9 - - - - 3.3 - - - - 3.3 - - - - 3.3 - - - 0 0 468 0 - 0 0 - 0 - - - 0 468 - - - - 0 - - - - - 0 - - - - - 0 - - - - - 0 - - - - - 0 - - - - - 0 - - - - - 0 - - - - - 13 0 -	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Intersection						
Int Delay, s/veh	1.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		^	朴朴			1
Traffic Vol, veh/h	0	1243	1076	223	0	163
Future Vol, veh/h	0	1243	1076	223	0	163
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage	e, # -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	98	98	98	98	98	98
Heavy Vehicles, %	0	1	1	0	0	0
Mvmt Flow	0	1268	1098	228	0	166

Major/Minor M	Major1	Ν	Major2	Μ	inor2	
Conflicting Flow All	-	0	-	0	-	663
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.1
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.9
Pot Cap-1 Maneuver	0	-	-	-	0	350
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	350
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
	0		0		24.3	
HCM Control Delay, s HCM LOS	U		U		24.3 C	
					U	
Minor Lane/Major Mvm	t	EBT	WBT	WBR SI	BLn1	
Capacity (veh/h)		-	-	-	350	
HCM Lane V/C Ratio		-	-	- ().475	
HCM Control Delay (s)		-	-	-	24.3	
HCM Lane LOS		-	-	-	С	

2.5

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HCM 95th %tile Q(veh)

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Intersection Capacity Utilization 6: Internal Drive & Middle Access Drive

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Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	<u>۳</u>	1		<u>स</u>	ef 👘		
Volume (vph)	93	42	36	123	155	137	
Pedestrians							
Ped Button							
Pedestrian Timing (s)							
Free Right		No				No	
Ideal Flow	1900	1900	1900	1900	1900	1900	
Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Minimum Green (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Refr Cycle Length (s)	120	120	120	120	120	120	
Volume Combined (vph)	93	42	0	159	292	0	
Lane Utilization Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Factor (vph)	0.95	0.85	0.95	0.99	0.93	0.85	
Saturated Flow (vph)	1805	1615	0	1878	1766	0	
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	
Pedestrian Frequency (%)	0.00			0.00	0.00		
Protected Option Allowed	No			No	No		
Reference Time (s)		3.1				0.0	
Adj Reference Time (s)		8.0				0.0	
Permitted Option							
Adj Saturation A (vph)	120		0	421	1766		
Reference Time A (s)	92.7		0.0	45.3	19.8		
Adj Saturation B (vph	NA		NA	NA	NA		
Reference Time B (s)	NA		NA	NA	NA		
Reference Time (s)				45.3	19.8		
Adj Reference Time (s)				49.3	23.8		
Split Option							
Ref Time Combined (s)	6.2		0.0	10.2	19.8		
Ref Time Seperate (s)	6.2		2.4	7.8	10.5		
Reference Time (s)	6.2		10.2	10.2	19.8		
Adj Reference Time (s)	10.2		14.2	14.2	23.8		
Summary	EB		NB SB	0	mbined		
Protected Option (s)	NA		NA 40.2				
Permitted Option (s)	Err		49.3				
Split Option (s)	10.2		38.0		40.0		
Minimum (s)	10.2		38.0		48.2		
Right Turns	EBR						
Adj Reference Time (s)	8.0						
Cross Thru Ref Time (s)	23.8						
Oncoming Left Ref Time (s)	0.0						
Combined (s)	31.8						
Intersection Summary							
Intersection Capacity Utilization	on		40.1%		ULevel	of Service	A
Deference Times and Descing				-			Λ

Reference Times and Phasing Options do not represent an optimized timing plan.

06/21/2022

Intersection Capacity Utilization 7: Internal Drive & South Access Drive

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	۲	1		स	¢Î	
Volume (vph)	102	115	212	57	31	166
Pedestrians						
Ped Button						
Pedestrian Timing (s)						
Free Right		No				No
Ideal Flow	1900	1900	1900	1900	1900	1900
Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Minimum Green (s)	4.0	4.0	4.0	4.0	4.0	4.0
Refr Cycle Length (s)	120	120	120	120	120	120
Volume Combined (vph)	102	115	0	269	197	0
Lane Utilization Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Factor (vph)	0.95	0.85	0.95	0.96	0.87	0.85
Saturated Flow (vph)	1805	1615	0	1825	1660	0
Ped Intf Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Frequency (%)	0.00			0.00	0.00	
Protected Option Allowed	No			No	No	
Reference Time (s)	110	8.5		110	110	0.0
Adj Reference Time (s)		12.5				0.0
Permitted Option						0.0
Adj Saturation A (vph)	120		0	144	1660	
Reference Time A (s)	101.7		0.0	224.5	14.2	
Adj Saturation B (vph	NA		NA	NA	1660	
Reference Time B (s)	NA		NA	NA	14.2	
Reference Time (s)	11/1		11/1	224.5	14.2	
Adj Reference Time (s)				228.5	18.2	
Split Option				220.0	10.2	
Ref Time Combined (s)	6.8		0.0	17.7	14.2	
Ref Time Seperate (s)	0.0 6.8		14.1	3.6	2.2	
• • • • • •	6.8		14.1	3.0 17.7	14.2	
Reference Time (s) Adj Reference Time (s)	10.8		21.7	21.7	14.2	
Auj Relefence Time (S)	10.0		21.7	21.7	10.2	
Summary	EB		NB SB	Со	mbined	
Protected Option (s)	NA		NA			
Permitted Option (s)	Err		228.5			
Split Option (s)	10.8		39.9			
Minimum (s)	10.8		39.9		50.7	
Right Turns	EBR					
Adj Reference Time (s)	12.5					
Cross Thru Ref Time (s)	18.2					
Oncoming Left Ref Time (s)	0.0					
Combined (s)	30.8					
Intersection Summary						
Intersection Capacity Utilization	on		42.3%	IC	U Level o	of Service
Reference Times and Phasing		do not re				

Intersection Capacity Utilization 42.3% ICU Level of Servi Reference Times and Phasing Options do not represent an optimized timing plan. 06/21/2022

ORD 2022-9607

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VILLAGE OF DOWNERS GROVE PLAN COMMISSION MEETING

September 12, 2022, 7:00 P.M.

22-PLC-0026: A PETITION SEEKING AN AMENDMENT TO PLANNED DEVELOPMENT #18, A SPECIAL USE FOR A RESTAURANT WITH A DRIVE-THROUGH, AND A FINAL PLAT OF SUBDIVISION WITH AN EXCEPTION TO LOT FRONTAGE. THE PROPERTY IS CURRENTLY ZONED B-2/P.D. #18, GENERAL RETAIL BUSINESS/PLANNED UNIT DEVELOPMENT #18. THE PROPERTY IS LOCATED AT THE NORTHEAST CORNER OF LEMONT ROAD AND 75TH STREET, COMMONLY KNOWN AS 7221-7451 LEMONT ROAD, DOWNERS GROVE, IL (PIN: 09-29-110-002 TO -008, -013 TO -016), PMAT, DDP, LLC, OWNERS AND PETITIONER.

Mr. Jason Reibert, introduced himself as a part of Gulf State Construction Services. He noted that this project was part of an ongoing redevelopment plan at this shopping center. Mr. Reibert shared that the scope of work included a new 5,000SF restaurant and retail building on a new outlot on the west side of the Downers Park Plaza and to the east of Burger King and 3 Corners Grill & Tap. He also shared that the new outlot to the south was previously approved and under construction. Mr. Reibert noted that the proposed lot was located in an area of parking away from retail parking allowing for a redevelopment opportunity. He then noted that no new access points would be proposed. Additionally, he stated that the parking study found that the internal circulation would not be negatively impacted and that there would be sufficient parking available. Mr. Reibert noted that there were existing utilities and drainage on the site. He then shared the elevations and highlighted that similar architecture would complement the existing buildings in the shopping center. Mr. Reibert explained that the proposal included a restaurant with a drive-through window. He also noted that the proposed outlot would meet the subdivision requirements. Mr. Reibert shared that the one item that would require an exception is the street frontage since access to Lemont Street was not possible. He noted that to address a lack of access a cross access agreement would be granted on lot 7. Mr. Reibert concluded his presentation by stating that the criteria for each entitlement request was met.

Chairman Rickard thanked Mr. Reibert, and asked the Commission to present questions.

Commissioner Dmytryszyn asked for more clarification on the internal traffic patterns with the proposal and upcoming Panera building. Mr. Reibert explained that the outlot location was chosen because this area of parking was rarely used. Additionally, the outlot would be directly located adjacent to the main access point off of Lemont Street. As such, this existing access point would help funnel the traffic toward the new outlot.

Chairman Rickard invited for any additional public comment.

Mr. Haran Rashes shared that he lived directly north of Lemont Road. He stated that he was opposed to the petition because of the additional traffic that would be produced and its impact on

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pedestrians. Mr. Rashes shared that he found the traffic study inaccurate and disagreed with the results. He acknowledged that he understood that Lemont Road was under county jurisdiction but noted that he had concerns over the lack of pedestrian signage and crosswalks. Mr. Rashes stated that crossing Lemont Road was not safe.

Mr. Scott Richards, asked why new development was being clustered in the Downers Park Plaza. Chairman Rickard shared that the petitioner could respond that but it sounded like the location was based on the underutilization of the existing parking lot.

Chairman Rickard then invited staff to make their presentation.

Ms. Flora Leon, Senior Planner, summarized the request stating that the petitioner was requesting approval for a planned unit development amendment, special use for a drive-through, and a final plat of subdivision with an exception to lot frontage. Providing a location map she noted the subject site was located east along Lemont Road. The existing zoning district was B-2/P.D. #18 or General Retail Business with an overlay of Planned Unit Development #18. Ms. Leon noted that the required noticing was provided and staff received one phone call asking for information on the future tenants.

Ms. Leon then provided an overall shopping center site plan for reference. She noted that the proposed outlot was located just east of 3 Corners Grill & Tap and Burger King. The proposed future building would include two tenants. She then provided the proposed outlot site plan. Ms. Leon highlighted that as shown on the site plan the outlot did not have frontage along Lemont Street. She noted that the request for the subdivision included a request to deviate from the street frontage requirement. This said, Ms. Leon stated that no change would be occurring to the access of the shopping center along Lemont Street. She then shared that the new outlot would have three entrances and one would be dedicated for the proposed drive-through. Ms. Leon reminded the Plan Commission that the special use request was for this newly proposed drive-through. She went on to share that the trash enclosure would include the required screening and that a pedestrian connection would lead pedestrians onto the existing sidewalk on Lemont Street with permission of the owners at the 3 Corners Grill & Tap. On this note, Ms. Leon explained that staff would also be open to having the petitioner provide a connection out to the sidewalks on Lemont Street via the Burger King lot. If the Plan Commission agreed with this option when making a motion they would simply need to amend the conditions of approval items 3 and 4.

Ms. Leon then shared the elevations of the proposed building and explained that the materials included EIFS and face brick. She then shared that the proposal met the goals of the Comprehensive Plan and that the criteria for a Planned Unit Development, Special Use, and a Subdivision with an Exception were all met. She noted that if the Plan Commission agreed a draft motion could be found on pages 6 and 7 of the staff report.

Commissioner Rector asked for clarification on modifying the conditions of approval. Specifically she asked if the connection had to be designated now. Ms. Leon explained that the conditions of approval, items 3 and 4, could be reworked to allow flexibility for the connection to be established on Lot 7 or 6N.

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Commissioner Rector asked if the Village had any oversight over the crosswalks on Lemont Street. Ms. Leon offered that staff would work with the Public Work Traffic Manger to see if they could reach out to the County to express those concerns.

Commissioner Rector noted that regardless of whether this project happens that concerns needs to be addressed. Mr. Zawila added that that concern was noted on the record and that staff would follow up with Public Works on this matter.

Chairman Rickard noted that if the drive-through ended up on the southern building the stacking would not work and so this design is locked in for the most part. Ms. Leon agreed and stated that the site plan is really the only configuration that worked for the site.

Mr. Reibert explained that while he understood the concern over the crosswalks on Lemont, their scope of work really ends once they are able to make the connection to the sidewalk on Lemont Street. He then explained that the outlot location was chosen because it is centrally located and it is an area seldomly used in the shopping mall. He also noted that this was the only location where they would not negatively impact the existing parking areas of businesses like Shop & Save.

Commissioner Toth, agreed that this area of parking is rarely used and the proposed use would fit in well with the existing mix of users.

Commissioner Dmytryszyn agreed that the area of parking was rarely used and noted that great projects are happening at this shopping center. He mentioned that he did have concerns over the interior traffic patterns and that the data for volume of traffic in the traffic report seemed light.

Commissioner Rector stated she would rather leave the condition of approval for the connection on Lot 7.

Commissioner Roche asked for clarification on which lot was in questions. Mr. Zawila explained lot 7 was 3 Corner Grill & Tap and lot 6N was the Burger King. Commissioner Rector noted that the connection made more sense on lot 7.

Mr. Zawila added that staff offered this evening that either lot 7 or 6N would work for this proposal just in case the petitioner and owner of lot 7 cannot come to an agreement. He noted that this was another option for the conditions. If the condition remains with only making mention of lot 7; then the petitioner would need to come back to plan commission if this connection needs to occur on lot 6N instead. Commissioner Rector agreed that lot 6N should be added in.

WITH RESPECT TO FILE 22-PLC-0026 AND BASED ON THE PETITIONER'S SUBMITTAL, THE STAFF REPORT, AND THE TESTIMONY PRESENTED, COMMSSIONER RECTOR MADE A MOTION THAT THE PETITIONER HAS MET THE STANDARDS OF APPROVAL FOR AN AMENDMENT TO PLANNED DEVELOPMENT #18, A SPECIAL USE FOR A RESTAURANT WITH A DRIVE-THROUGH, AND A FINAL PLAT OF SUBDIVISION WITH AN EXCEPTION TO LOT

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FRONTAGE 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 22-PLC-0026, SUBJECT TO THE FOLLOWING CONDITIONS:

- 1. THE PLANNED UNIT DEVELOPMENT, SPECIAL USE, AND A PLAT OF SUBDIVISION WITH AN EXCEPTION TO CREATE A NEW OUTLOT WITHOUT STREET FRONTAGE SHALL SUBSTANTIALLY CONFORM TO THE STAFF REPORT; AND DRAWINGS PREPARED BY WOOLPERT ENGINEERING SUBMITTED ON 8/24/222, AND BY ZITO RUSSELL ARCHITECTS UPDATED ON 8/3/22, EXCEPT AS SUCH PLANS MAY BE MODIFIED TO CONFORM TO THE VILLAGE CODES AND ORDINANCES.
- 2. A PERPETUAL CROSS ACCESS AND PARKING EASEMENT IS PROVIDED BETWEEN LOTS 2-A AND LOT 1-B AND IS SHOWN ON THE PLAT OF SUBDIVISION.
- 3. THE PEDESTRIAN CONNECTION SHALL BE SECURED WITH THE APPROVAL OF THE PROPERTY OWNER AT 7231 OR 7301 LEMONT ROAD.
- 4. A PEDESTRIAN EASEMENT SHALL BE PROVIDED ON LOT 7 (7231 LEMONT ROAD) OR LOT 6N (7301) FOR THE BENEFIT OF PUBLIC ACCESS TO LOT 1-B.
- 5. THE PEDESTRIAN CONNECTION ON LOT 1-B MUST BE CLEARLY DIFFERENTIATED THROUGH THE USE OF ELEVATION CHANGES, A DIFFERENT PAVING MATERIAL OR OTHER EQUALLY EFFECTIVE METHODS.
- 6. THE PHOTOMETRIC PLAN SHALL CONFORM TO THE VILLAGE ZONING ORDINANCE.
- 7. ALL SIGNAGE SHALL BE PERMITTED SEPARATELY AND CONFORM TO THE VILLAGE'S SIGN ORDINANCE.
- 8. A FINAL PLAT OF SUBDIVISION WILL BE REQUIRED PRIOR TO PERMIT ISSUANCE.

SECOND BY COMMISSIONER TOTH. ROLL CALL:

AYE: COMMISSIONERS RECTOR, TOTH, DMYTRYSZYN, MAURER, ROCHE, PATEL, AND CHAIRMAN RICKARD

MOTION PASSED. VOTE: 7-0

/s/ Village Staff Recording Secretary (As transcribed by MP-3 audio)