# Planning and Zoning Board Agenda July 25, 2023 Room 102-7:00 P.M. 

Chair Announcement: A public hearing for zoning map amendment for 900 Graceland/1217 Thacker - the southwest corner of Graceland and Thacker, or "Site A" in the proposed Contour Place redevelopment - will not be occurring at this meeting. However, a public hearing for map amendment for "Site B," or the property at approximately 919-921 Graceland (east side of Graceland), is on this meeting agenda and will be heard.

Under "New Business," after the Board's conducting of the two public hearings, Developer Luz \& Associates will provide an update on their plans and petition for Site A.

## Call to Order and Roll Call

Approval of Minutes: July 11, 2023
Public Comment: For matters that are not on the agenda

## Pending Applications

1. Address: Citywide

Case Number: 23-043-TA (Public Hearing)
The City is proposing text amendments to the Zoning Ordinance related to accessory structure definitions and regulations, and any other amendments as may be necessary.

PINs: Citywide
Petitioner: City of Des Plaines, 1420 Miner Street, Des Plaines, IL, 60016
Owner: n/a
2. Address: Approximately 919-921 Graceland Avenue (parking lot for 1217 Thacker Street)

Case Number: 23-040-MAP (Public Hearing)
The petitioner has requested a zoning map amendment to rezone the subject property from C-3 General Commercial to R-4 Central Core Residential, and any other variations, waivers, and zoning relief as may be necessary.

PINs: 09-20-203-006-0000
Petitioner: Luz and Associates \#1, LLC, 2030 West Wabansia Ave., Chicago, IL 60611
Owner:

## New Business

1. Update from Luz \& Associates on Plan and Application for 900 Graceland/1217 Thacker ("Site A") of the Contour Place Redevelopment

City of Des Plaines, in compliance with the Americans With Disabilities Act, requests that persons with disabilities, who require certain accommodations to allow them to observe and/or participate in the meeting(s) or have questions about the accessibility of the meeting(s) or facilities, contact the ADA Coordinator at 847-391-5486 to allow the City to make reasonable accommodations for these persons. The public hearing may be continued to a further date, time and place without publication of a further published notice such as this notice.

## DES PLAINES PLANNING AND ZONING BOARD MEETING

July 11, 2023
DRAFT MINUTES
The Des Plaines Planning and Zoning Board held its regularly scheduled meeting on Tuesday, July 11, 2023, at 7:00 p.m. in Room 102 of the Des Plaines Civic Center.

Chair Szabo called the meeting to order at 7:00 p.m. and roll call was established. PRESENT: Hofherr, Saletnik, Weaver, Szabo

ABSENT: Catalano, Fowler, Veremis

ALSO PRESENT: John Carlisle, AICP, CED Director
Samantha Redman, Planner
Margie Mosele, Executive Assistant

A quorum was present.

## Call to Order and Roll Call

## APPROVAL OF MINUTES FROM June 27, 2023

A motion was made by Board Member Weaver seconded by Board Member Saletnik to approve the meeting minutes of June 27, 2023.

AYES: Weaver, Saletnik, Szabo
NAYES: None
ABSTAIN: Hofherr
***MOTION CARRIES **

## PUBLIC COMMENT ON NON-AGENDA ITEM

- None

1. Address: $\mathbf{1 0 6 5}$ Lee Street

Case Number 23-035-CU

The petitioner and contract purchaser, Krzysztof Bernatek, is proposing a conditional use to allow for auto service repair and motor vehicle sales at 1065 Lee St

$$
\text { PIN: } \quad 09-20-214-002-0000
$$

Petitioner:
Krzysztof Bernatek, 2017 De Cook Ave., Park Ridge, IL 60068

Owner/Property
Control:
Centrust Bank, 385 Waukegan Rd., Northbrook, IL 60062
Ward Number:
\#3, Alderman Sean Oskerka

Existing Zoning:
C-3, General Commercial
Surrounding Zoning: North: C-3, General Commercial
South: C-3, General Commercial
East: Railroad tracks; R-1, Single Family Residential
West: C-3, General Commercial

Surrounding Land Uses: North: Parking lot
South: Commercial building
East: Commercial buildings
West: Railroad tracks

Street Classification: Lee Street is classified as a major road under jurisdiction of the Illinois Department of Transportation (IDOT).

Comprehensive Plan: Commercial is the recommended use for this property.
Property/Zoning History:
The property currently consists of a commercial building and a gravel parking area to the east. For several decades, Midwest Automotive operated at this property until closing in 2020. In 2001, a conditional use was granted to sell four motor vehicles on the site. In 2019, an amendment to the conditional use allowed for the sale of up to ten motor vehicles on the property; however, in 2020, the conditional use for motor vehicle sales was rescinded due to a number of code violations. Specifically, vehicles were parked on the adjacent lot (parking lot for 1062 Lee), vehicles
unassociated with the business were stored in the rear parking lot, and landscaping required by the previous conditional use was never installed. Since the closure of the business in 2020, several additional code enforcement issues have emerged, including debris stored on the site and the parking of trucks unassociated with a business in the rear gravel parking area.

## Project Description:

The petitioner and contract purchaser, Krzysztof Bernatek, is proposing a conditional use to allow for auto service repair and motor vehicle sales at 1065 Lee St.

## Proposed Use and Business Operation Details

Justpol Automotive is a proposed new auto service repair business. Currently the petitioner owns Kris Touhy Auto, which consists of two automotive repair businesses accessory to gas stations at 8801 Waukegan Road in Morton Grove and 5035 West Touhy Ave in Skokie. Currently, Kris Touhy Auto provides auto service repair (including tire replacement and repair, oil changes, and other activities associated with auto service repair) within gas stations. The petitioner intends to operate their first stand-alone auto service repair business at 1065 Lee St.

Six bays in the building will be used for auto repair; the office area will be used for general administrative duties as well as a waiting room and an area to display products for sale to auto repair customers. Per the petitioner, any retail activities will be associated with the auto service repair customers. No auto body repair will occur on this property.

Motor vehicle sales are a conditional use allowed within the C-3 Zoning District if they exceed 25,000 square feet. This property is 31,326 square feet. The motor vehicle sales will consist of five spaces, as noted on the Site Plan attachment. The petitioner may choose to expand the number of spaces used for motor vehicle sales in the future, after the rear parking lot is improved; expanding the number of sale spaces will require amendment to the conditional use.

## Improvements to the Site

As discussed in the Property/Zoning History of this report, the property was previously an auto service repair business with longterm operations. Limited interior renovations are necessary to make the site suitable for the repair of vehicles in this location. Six repair bays are located within the building.

Proposed exterior improvements will include restriping and resurfacing of the parking lot, including adding two accessible spaces (as required by Section 12-98). The petitioner also plans to remove gravel from the rear parking area and pave an asphalt driveway in the back of the property leading to the dumpster enclosure and the rear overhead doors. Any unpaved areas on the property, including the remainder of the gravel parking lot in the rear, will be covered with grass, wood mulch, or other plant materials, as required by Section 12-10-6.A. Several suggested conditions of approval involve these property improvements, which per the site plan are intended to enhance the rear of the property and lessen the amount of hardscape (parking surface) in favor of increasing the amount of landscaped area.

## Impact to Neighborhood

Noise and odor associated with this site will be typical of an auto service repair use, which is the historical use of this property. The proposed hours of operation will be 8:00 a.m. to 5:00 p.m., Monday through Friday, Saturday 8:00 a.m. to 12:00 p.m. The proposed number of employees will be 10 or fewer. No additional entrances are proposed at this site; access will be provided by the existing two driveways.

A traffic study was not requested by staff, as the scale of this operation is the same as the previous use in this location and no known issues with traffic were communicated by Police or Code Enforcement surrounding the business that previously operated at this site. However, several violations were issued for the previous business, as discussed in the Property/Zoning History section of this report. Several suggested conditions of approval were written to provide assurances this conditional use will not result in additional violations if this type of use is reinstated.

## Parking

The below table provides an overview of required and provided parking for this building and uses. After improvement of the rear parking area, additional parking spaces will be added to the total; however, the petitioner does not have specific plans. If additional display spaces are requested in the future, the petitioner would be required to amend the conditional use, as specified in the suggested conditions of approval.

| Use | Requirement | Total Required | Total Proposed |
| :---: | :---: | :---: | :---: |
| Automotive service repair | 2 spaces per service bay, plus 1 space for every 200 square feet of accessory retail | 6 service bays = <br> 12 spaces <br> 1425 sq ft of office <br> = 8 spaces <br> 20 spaces | 21 spaces |
| Motor vehicle sales | 1 space for every 500 square feet of showroom and office floor area, plus 1 space for every 20 vehicle display spaces (required off street parking spaces cannot be occupied by motor vehicles for sale or for lease) | 5 vehicle display spaces No showroom or office specifically for the motor vehicle sales 0 required spaces | 5 vehicle display spaces |
| Accessible Spaces | Parking lots with 21 to 50 spaces require 2 spaces | 2 accessible spaces | 2 accessible spaces |
| Total Spaces: |  | Required <br> 20 off-street parking spaces 2 accessible spaces | Proposed <br> 21 off street parking spaces* <br> 5 display spaces for motor vehicle sales 26 total spaces |
| *Includes accessible spaces $\square$ |  |  |  |

Most vehicles will be repaired and returned to the customer within 24 hours, per the petitioner. A suggested condition of approval would require all inoperable vehicles to be placed inside the building or in the rear parking lot only in striped spaces that would comply with the dimensional requirements of the Zoning Ordinance.

An additional suggested condition of approval acknowledges issues with the former auto service repair business using the adjacent parking lot to park vehicles. This parking lot on 1062 Lee Street is owned by a separate property owner and may not be used to park or store vehicles. The suggested condition of approval requires signage indicating parking areas for the auto repair business and stating that no parking is permitted on the adjacent property.

## Standards for Conditional Use

The following is a discussion of standards for conditional uses from Section 12-3-4(E) of the Zoning Ordinance. Rationale for how the proposed amendments would satisfy the standards is
provided below and in the petitioner's response to standards. The PZB may use this rationale toward its recommendation, or the Board may make up its own.

## 1. The proposed Conditional Use is in fact a Conditional Use established within the specific Zoning district involved:

Comment: Auto service repair and motor vehicle sales (on properties greater than 25,000 square feet) are conditional uses within the C-3, General Commercial District.

PZB Additions or Modifications (if necessary): $\qquad$

## 2. The proposed Conditional Use is in accordance with the objectives of the City's Comprehensive Plan:

Comment: The 2019 Comprehensive Plan illustrates this area to be used for Commercial. This business would bring commercial activity into this area; several buildings in this corridor are vacant, and revitalization with new businesses would be beneficial to the vitality of this area of Lee Street.

PZB Additions or Modifications (if necessary):
3. The proposed Conditional Use is designed, constructed, operated, and maintained to be harmonious and appropriate in appearance with the existing or intended character of the general vicinity:
Comment: Many suggested conditions of approval are included with this case to provide assurances about the use being compliant with applicable zoning requirements, including requiring improvements to the parking lot, removal of gravel from the rear parking area, and providing landscaping around the pole sign and in front of the building or parking lot. No modifications to the exterior of the building are proposed.

PZB Additions or Modifications (if necessary): $\qquad$

## 4. The proposed Conditional Use is not hazardous or disturbing to existing neighboring uses:

Comment: As discussed in the Petitioner's Response to Standards, the business will operate Monday through Friday 8:00 a.m. to 5:00 p.m., and Saturday 8:00 a.m. to 12:00 p.m. The property is within an existing commercial area, with no residences directly adjacent. See the Petitioner's Narrative and Response to Standards for additional information about business operations. The suggested conditions of approval surrounding the location of parking, storage, disposal of materials, and landscaping are meant to provide assurances that limit any disturbance or nuisance to the neighborhood, either through the business operations or aesthetics of improvements.

PZB Additions or Modifications (if necessary): $\qquad$
5. The proposed Conditional Use is to be served adequately by essential public facilities and services, such as highways, streets, police and fire protection, drainage structures, refuse disposal, water and sewer, and schools; or, agencies responsible for establishing the Conditional Use shall provide adequately any such services:
Comment: The existing building has been adequately served by essential public facilities and services. Staff has no concerns that the proposed use will not be adequately served with essential public facilities and services. Prior to business registration approval, the petitioner must provide a waste oil agreement to the Fire Prevention Bureau and undergo an inspection of the building by the fire, building, and zoning divisions to determine compliance with this conditional use and all applicable local, state and federal regulations.

PZB Additions or Modifications (if necessary):
6. The proposed Conditional Use does not create excessive additional requirements at public expense for public facilities and services and will not be detrimental to the economic well-being of the entire community:
Comment: The proposed use would not create a burden on public facilities. This new business would be located within an existing building and provide additional business activity to this corridor.

PZB Additions or Modifications (if necessary):
7. The proposed Conditional Use does not involve uses, activities, processes, materials, equipment and conditions of operation that will be detrimental to any persons, property, or the general welfare by reason of excessive production of traffic, noise, smoke fumes, glare or odors:
Comment: Traffic generated by these uses will be consistent with the amount of traffic previously generated at this site, and staff believes the existing street network can accommodate the traffic for this use. This auto service repair use would result in the same amount of fumes, noise, and odors as other similar businesses, including the former business at this location.

The petitioner indicates in their narrative and response to standards that any hazardous materials generated by this use (oil, tires, etc.) will be properly handled and meet city, state, and federal requirements. Used tires are picked up by a third-party tire disposal company every other week, per the petitioner's response to standards. A suggested condition of approval states where used tires may be located and requires the petitioner to provide to staff a copy of this tire disposal company contract.

No underground storage tanks (UST) are proposed for this property; a previous used oil tank was located on this site and removed in 1990, per the State Fire Marshall UST Database.

PZB Additions or Modifications (if necessary):
8. The proposed Conditional Use provides vehicular access to the property designed so that it does not create an interference with traffic on surrounding public thoroughfares:
Comment: Access to the building will continue to be provided by two existing driveways along Lee Street. Traffic generated by these uses will be consistent with the amount of traffic previously generated at this site, so a traffic study was not requested by staff. Staff believes that the existing street network can accommodate the traffic for this new use, as the intensity is not increased compared to the previous use at this location.

PZB Additions or Modifications (if necessary): $\qquad$
9. The proposed Conditional Use does not result in the destruction, loss, or damage of natural, scenic, or historic features of major importance:
Comment: The subject property is within an existing building and thus would not result in the loss or damage of natural, scenic, or historic features. No new development is proposed for this site.

PZB Additions or Modifications (if necessary):

## 10. The proposed Conditional Use complies with all additional regulations in the Zoning Ordinance specific to the Conditional Use requested:

Comment: The proposed uses comply with all applicable requirements as stated in the Zoning Ordinance. Several proposed improvements and related suggested conditions of approval are proposed that would bring this property into closer conformance with requirements, including providing handicap accessible parking spaces, landscaping, and removal of non-permitted landscaping material (gravel) from the rear parking area.

PZB Additions or Modifications (if necessary):

PZB Procedure and Recommended Conditions: Under Section 12-3-4.D (Procedure for Review and Decision for Conditional Uses) of the Zoning Ordinance, the PZB has the authority to recommend that the City Council approve, approve subject to conditions, or deny the abovementioned conditional use permit. City Council has final authority on the proposal.

Consideration of the request should be based on a review of the information presented by the applicant and the findings made above, as specified in Section 12-3-4.E (Standards for Conditional Uses) of the Zoning Ordinance. If the PZB recommends and City Council ultimately approves the request, staff recommends the following conditions.

## Recommended Conditions of Approval:

1 No motor vehicles unassociated with the petitioner's business operations may be parked in any of the parking areas associated with the property.
2. Except for operable motor vehicles, no materials or supplies related to this use may be stored outside the building or the dumpster enclosure. Prior to business registration, all debris must be removed from the property, including the rear parking area.
3. All used tires must be located inside a building or within a permitted accessory structure. A contract indicating at minimum biweekly pickup of used tires must be provided to Community and Economic Development staff prior to approval of business registration. This tire disposal contract must be active if the auto service repair use is active on this property.
4. Any vehicles related to this use must be stored on this property, on a dust-free hard surface. Any inoperable vehicles must be located inside the building or placed in the rear parking/driveway area, in which case the rear driveway area must contain striped parking spaces that satisfy all dimensional requirements of Chapter 12-9 (Off-Street Parking and Loading).
5. Identification and directional signs must be located on site noting the locations available for customers of the proposed business at 1065 Lee and noting that parking on the adjacent parking lot at 1062 Lee is prohibited.
6. Parking on the adjacent parking lot at 1062 Lee St is strictly prohibited, until and unless the petitioner acquires or leases this property, in which case the additional parking would be an expansion, and an amended conditional use would be required.
7. Motor vehicle sales requires a state dealer license. Prior to issuance of building registration, petitioner must obtain license; the City will cooperate in prerequisite process, such as signing the Certificate of Proper Zoning.
8. No more than five motor vehicles may be displayed for sale on site at one time. Through signs, striping, or a combination, these five spaces should be identified and reserved. Additional display spaces would require an amendment to the conditional use. Sufficient spaces to meet the minimum off-street parking requirements shall be provided on the property at all times.
9. All parking areas must be paved, striped, and landscaped according to all applicable Zoning Ordinance standards. Accessible parking spaces shall be located on site to meet accessibility standards pursuant to Section 12-9-8 and Illinois Accessibility Code. The petitioner may revise the site plan approved with this conditional use to adjust striping and landscaping; provided, however, the final plan includes the minimum number of spaces for this use.
10. Three feet of landscaping must be provided around the base of the existing pole sign, pursuant to Section 12-11-4.G. Landscaping or landscape planter boxes must be added to the street-facing portion of the building or parking lot prior to business registration.
11. A parking lot permit to reflect the site plan must be issued prior to business registration. The petitioner may revise the site plan approved with this conditional use; however, the paved area in the rear, if intended to be used for any parking, must meet dimensional requirements pursuant to Chapter 12-9. This permit must indicate all gravel will be
removed from the property and be replaced by an approved landscaping material (turf, wood mulch, or other plant materials), pursuant to Section 12-10-6.

## Attachments:

Attachment 1: Location Map
Attachment 2: Site and Context Photos
Attachment 3: Project Narrative and Responses to Standards
Attachment 4: Plat of Survey
Attachment 5: Site Plan

Chair Szabo swore in petitioners, Christian Bernatek and Krzysztof Bernatek for 1065 Lee Street.
C. Bernatek stated that they are requesting two conditional use permits for Auto Repair and Auto Sales. He stated that they started their business in Park Ridge in 2005. They have since moved to two locations, one in Skokie and one in Morton Grove. They would like to merge the businesses under one roof in Des Plaines. He stated that they are mechanics, and they usually have the vehicles 1-2 days. Mr. C. Bernatek stated that they plan to resurface the front parking lot, refinish the stucco in the front, add two accessible parking spaces in the front. He plans to add landscaping. He proposes a driveway to access the two doors in the back. The rest of the area would be wood chips or other landscaping. He stated that the dumpster would be enclosed in the back. He discussed the site plan.

Chair Szabo asked where the dumpster would be located?
C. Bernatek stated they plan to put the dumpster in the back on a concrete pad. He plans to have the dumpster hidden.

Member Weaver asked about the parking space lines on the site map. He asked if the two accessible parking spots are in the front of the building. And if the alley is in the right of way and would be used for the garbage truck to get to the dumpster? He asked if he was planning to use the 8 feet of public way?
C. Bernatek stated that there would be two accessible parking spaces in the front and there would be parking on the side as well. He stated that he has 30 feet from the building allowing a driving area. The alley was used as a street in the past it dead ends into the railroad. No one uses it unless they are accessing the properties.

Member Hofherr asked how many vehicles do you anticipate inside and outside the business? He also said that the front of the business has spaces. Would the side spaces be used for employees?
K. Bernatek stated that they will have enough parking. He stated they could have between 5-10 vehicles at a time. Their goal is to have $50-75 \%$ of allowable spaces used. He stated that the

North end is designated for the front spaces. The bay doors will be used for customers and the side areas would most likely be used for employees.

Samantha Redman, Planner gave the staff report. She explained the two Conditional Use requests for 1065 Lee Street. One is for Auto Services and the other is for Motor Vehicle Sales. She gave a presentation explaining requests. The location is zoned C-3. She went over the site photos showing the bays, dumpster, and parking lots. Ms. Redman gave the background of the property. She explained the Conditional Use for Motor Vehicle Sales in C-3 requires 25,000 square feet. The petitioner has over 31,00 square feet. She stated that the parking lot will need to be resurfaced and restriped. There are already parking spaces. They could request to vacate the alley in the future. They will also need to add landscaping. They will need to add accessible parking spaces. They currently have 6 bay spaces. There is a gravel parking lot in the rear that is not allowed in Des Plaines. There are plans to remove the gravel and redo the parking lot. There is currently a driveway in the back for the dumpster and bay door. There are 11 suggested Conditions of Approval.

Chair Szabo asked if the petitioner is aware of all the recommended conditions and if they have a problem with any of them.
C. Bernatek stated that they do not have a problem with any of the conditions.

Member Weaver asked about Condition 11, stating the petitioner may revise the site plan approved with this conditional use; however, the paved area in the rear, if intended to be used for any parking, must meet dimensional requirements pursuant to Chapter 12-9. This permit must indicate all gravel will be removed from the property and be replaced by an approved landscaping material (turf, wood mulch, or other plant materials), pursuant to Section 12-10-6. Member Weaver asked that if they have the ability to remove the gravel without needing to improve the parking lot. Ms. Redman stated yes, they will need to removal the gravel but do not need to get a full parking lot permit to do this; the intent with the condition is to provide flexibility.

Chair Szabo asked the audience if anyone is in favor or opposes this request. - No responses.

A motion was made by Board Member Weaver, seconded by Board Member Hofherr to recommend that the City Council approve the Conditional Use permit with the eleven conditions drafted by staff.

AYES:<br>NAYES:<br>ABSTAIN:<br>Weaver, Hofherr, Saletnik, Szabo<br>None<br>None

***MOTION CARRIES UNANIMOUSLY ***
2. Address: $\mathbf{7 3 3}$ Lee Street

## Case Number: 23-038-TA-CU-V

The petitioner is requesting the following under the Zoning Ordinance (summarized): (i) text amendments to allow a "School - Private, Elementary and High" in the 700 block of Lee Street in the C-5 Central Business District, with a conditional use permit, where currently such schools are allowed only in the 800 block of Lee; (ii) a conditional use to operate such type of school at 733 Lee, or an amendment to the conditional use granted by Ordinance Z-024-10, whichever is necessary; (iii) a conditional use for commercially zoned assembly; and (iv) variations that address various existing structure, sign, and site conditions; the recording requirement for collective parking agreements; and proposed partial compliance with parking lot landscaping requirements.

PIN:
09-20-200-042-0000, 09-20-200-006-000

Petitioner: ICCD Academy NFP, 733 Lee St., Des Plaines, IL, 60016
(Authorized agent/representative: Mark Daniel, Daniel Law Office, 17W733 Butterfield Road, Unit F, Oakbrook Terrace, IL 60181)

Owner:
Trustee of Trust No. 16505, Parkway Bank and Trust Co., 4800 N. Harlem Ave., Harwood Heights, IL 60706
(Beneficiary: ICCD Academy, NFP)

Ward Number:
Existing Zoning:

Surrounding Zoning:
North: C-5, Central Business
South: R-4, Central Core Residential
East: R-4, Central Core Residential
West: C-5, Central Business
Surrounding Land Uses: North: Office building, City-owned library parking garage South: Financial institution (Old National Bank) and parking lot
East: Private school
West: Vacant site

Street Classifications: Lee Street is an arterial roadway (IDOT jurisdiction);
Prairie Avenue and Center Street are collectors (local jurisdiction).
Comprehensive Plan: The Comprehensive Plan illustrates this site as Higher Density Urban Mix with Residential.

## Property/Zoning History:

This subject property/zoning lot is 33,177 square feet (just greater than .75 acres) and consists of two parcels. The lot is separate from both the small triangular lot and building at 1445 Prairie (not connected), as well as the lot and building at 749 Lee (currently Old National Bank; also not connected). The building on the subject property consists of three usable floors: a basement, first floor, and second floor. In addition, there is a surface parking lot in the east (rear), currently striped with 38 parking spaces per the Plat of Survey, accessible from Center Street. In 2010, Ordinance Z-024-10 (see attached) granted the subject property a conditional use to operate a school. This approving ordinance was requested at the time by Plato Academy, which occupied the building for several years before moving to 915 Lee Street. Plato shared the building with office tenants, notably the Greek American Restaurant Association. When Plato vacated, the office use remained. The petitioner purchased the property in 2022.

The petitioner approached staff in 2022 about opening Islamic City Center of Des Plaines Academy (ICCDA). The current Zoning Ordinance does not allow private schools in the 700 block of Lee (restriction was put in place in 2018). However, staff reviewed with the General Counsel and determined that the approving conditional use ordinance was written to run with the property and could be transferred to the same use - a private school - even though the new owner/operator was different than the original petitioner. Further, Section 12-34.H. 3 states, "...a conditional use shall be deemed to relate to, and be for the benefit of, the use and lot in question, rather than the owner or operator of such use or lot." Therefore, the petitioner has been utilizing the conditional use for their operations and building, bound to the restrictions of being a legal nonconforming use (Section 12-5-5) and adherence to all conditions and limitations of the 2010 approval. The City and the petitioner entered into an agreement, dated August 30, 2022, which reinforced that all conditions and parameters of the approving ordinance would apply to ICCDA. These parameters included (i) using only portions of the floor plan illustrated in the approving ordinance for school purposes; (ii) limiting enrollment to no more than 60 students, as this was represented by Plato Academy when they received the original approval; (iii) maintaining unobstructed windows, except for uniform, non-permanent window treatments; and (iv) remaining willing to work with the City if any traffic issues arise. The City issued a business registration in September 2022 to allow school occupancy for the 2022-2023 academic year, and the school subsequently opened. They are now requesting approvals to operate in a larger portion of the building with more students, and to have non-accessory worship and religious activities ("commercially zoned assembly").

## TEXT AMENDMENT

## Request Description:

The petitioner, ICCDA, is requesting to amend Section 12-7-3.K of the Zoning Ordinance, specifically the Commercial Districts Use Matrix. Currently in the C-5 District, conditional use permits allow private schools only in the 800 block of Lee Street (currently the Little Bulgarian School/Center is in this block). This limitation was established in June 2018 (Ordinance Z-17-18). The requested text amendment would extend the possibility of private schools to the 700 block of Lee Street, but a conditional use would still be required, which means the PZB would hear and review and the City Council would have to approve any request for such school. The following are the proposed amendments (additions are bold, double-underlined; deletions are struckthrough):

## "12-7-3: COMMERCIAL DISTRICTS REGULATIONS:

***
K. Commercial Use Matrix:

TABLE 3
COMMERCIAL DISTRICTS USE MATRIX
$\mathrm{P}=$ Permitted use
$\mathrm{C}=$ Conditional use permit required

| $* * *$ |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | C-1 | $\mathrm{C}-2$ | $\mathrm{C}-3$ | $\mathrm{C}-4$ | $\mathrm{C}-5$ | $\mathrm{C}-6$ | $\mathrm{C}-7$ |
| Schools, private - elementary and high school |  |  |  |  | C 15 |  |  |
| $* * *$ |  |  |  |  |  |  |  |

Notes:
***
15. For properties with frontage lecated on the $\mathbf{7 0 0}$ block and 800 block of Lee Street only. Provided that there is an elementary or high school, the school may also operate kindergarten and pre-kindergarten programs accessory to the school.
***"

## CONDITIONAL USES / AMENDED CONDITIONAL USE

## Request Description:

The petitioner is requesting two conditional use permits: (i) a private school, as the primary principal use; and (ii) a commercially zoned assembly as a secondary principal use. In the event the requested text amendment is not approved, ICCDA requests consideration of an amendment to the original conditional use to achieve the desired expansion of school operations.

## Private school

The petitioner has operated ICCDA at the property since September 2022. They completed their first fall-to-spring main academic year in June 2023 and are currently providing summer programming. The school's mission includes a traditional academic and religious curriculum, meaning that worship activities involving students, families, and staff are intrinsic and accessory to the school. Assuming the proposed text amendment is approved, the petitioner is seeking a new conditional use to entitle ICCDA specifically and to allow the organization to expand both student enrollment and the portions of the building that may be used for school purposes (i.e., basement and the second floor). In summary, the petitioner's statement and plans request and depict the following:

- An allowance of up to 233 students, pre-K through eighth grade, exclusive of volunteers and staff
- An expanded number of classrooms (20, including art rooms and science or other labs), on both the first and second floors
- An auditorium on the second floor and prayer/worship area(s) in the basement; these areas would be part of the daily school curriculum but also serve as the proposed commercially zoned assembly area (see separate discussion later in the report).

This table outlines approximate days and times of programming in the building.

| Activity | Days/Purpose | Time |
| :--- | :--- | :--- |
| General school hours | Monday-Thursday | 8 a.m.-4 p.m. |
|  | Friday | 8 a.m.-2 p.m. |
|  | Saturday-Sunday | 9 a.m.-2 p.m. |
| General before-school program | Weekdays | $7-8$ a.m. |
|  | Monday-Thursday | $4-6: 30$ p.m. |
|  | Friday | 2-6:30 p.m. |
| General staff \& janitorial arrival | Weekdays | 5:30-7:30 a.m. |
| Planned Drop-off Period | Weekdays | $7: 30-8: 45$ a.m. |
|  | Saturday-Sunday | 8:30-9:30 a.m. |


| Planned Pick-up Period | Monday-Thursday | $3: 30-4: 30$ p.m. |
| :--- | :--- | :--- |
|  | Friday | $1: 30-2: 30$ p.m. |
|  | Saturday-Sunday | $1: 30-2: 30$ p.m. |
| Ramadan (Iftar) | Assembly* | $6-10: 30$ p.m. |

*A secondary principal use, not necessarily accessory to the school

## Drop-off and Pick-up Operations

The petitioner has provided a detailed description and graphical depiction of drop-off and pick-up of students, using the property's on-site parking lot, with vehicles entering from and exiting to Center Street. In a typical day, the combined drop-off and pick-up duration is two hours and 15 minutes, and per the provided table and description, and the periods would not overlap with staff arrival and departure. ICCDA employees would be assigned parking spaces in locations that would have the least potential conflict with the temporary lanes. The drop-off and pick-up locations within the parking lot intuitively allow the younger students and their parents the nearer positions to the door, and the plan identifies that staff from the school would be outside the building during the periods to help manage the flow.

The attached plan includes observations, data, and projections prepared with the engineering firm KLOA and grounded in the makeup of the current student population. Because of the school's tendency to enroll multiple students from a single family, the petitioner expects that the number of vehicles circulating through a pick-up or drop-off would not exceed half, or 50 percent, of the enrollment. Further, they project that approximately 15 percent of students will walk to school. Finally, the petitioner expresses willingness to work with the Police Department to the extent necessary or required. It is worth noting Police and other City staff do not support the incorporating on-street loading on any of the adjacent streets: Lee, Prairie, or Center. However, it is also worth noting that upon receiving this comment in staff review prior to the public hearing, the petitioner revised their plans to make the fullest and most deliberate possible use of their parking lot and drive aisles.

## Building Safety and Occupancy

The greatest challenge in allowing the desired student enrollment in staff's view is not the external factors surrounding parking and traffic but instead the remodeling or retrofitting the building such that classrooms and all school-occupancy spaces have sufficient hallway widths to provide means of egress. In the past, this building has been a mix of school and office occupancies; it is now proposed to be school and assembly (worship). The Building Division has worked extensively with the petitioner's architect to advise on floor plans with dimensions that could allow the occupancy to approach what the petitioner desires. However, while the attached floor plans are provided for zoning consideration, they should not be considered building permit-ready drawings. In fact, staff recommends a condition that while the maximum desired student enrollment of 233 could eventually be reached in the future under conditional use approval, the occupant load of the building cannot exceed the maximum established by the Chief Building

Official and Fire Prevention Bureau; plans may be altered, and the occupant load may be increased, if required alterations are made.

## Commercially Zoned Assembly

The petitioner describes certain activities that would be open to the public beyond ICCDA students, families, staff, and volunteers, particularly during holy periods during the calendar year. These activities are less frequent than the daily school operation, occupy only portions of the building (basement prayer areas, second-floor auditorium) and are therefore subordinate to the primary principal use; however, they are not incidental/accessory to the school, so the assembly activity is categorized as a secondary principal use and must be approved via a conditional use. No text amendment is required, as commercially zoned assemblies are already established as a conditional use in the C-5 District, without any additional prerequisites or restrictions.

The Iftar, or daily fast-breaking evening meal during the annual holy period (approximately one month) of Ramadan, is identified as the main time during the year when commercially zoned assembly would occur. In addition, the petitioner notes that on Fridays, the building would host Jumu'ah prayers, which may occasionally be open to the public-although the statement attests when open to the public, the Jumu'ah would not overlap with school activities. The Board may wish to ask the petitioner to explain how the overlap would not occur if the submitted schedule shows the school being open on Fridays. Further, the PZB may ask the petitioner to clarify how the food component of Iftar will occur (i.e., food brought from the outside versus prepared on site). Language within the petitioner's statements indicates no food would be prepared on site.

The basement prayer/library area spans two rooms and is 2,904 square feet per the submitted floor plan. It does not have fixed seating but lists a maximum occupancy of 194 people. The second-floor auditorium is 903 square feet and proposed to have a maximum occupancy of 60 people (presumably through fixed seating). Collectively, these are the proposed assembly use areas.

## Off-Street Parking (Both Uses)

The petitioner's plans show a restriped parking lot that actually increases the number of spaces from the current striping: from 38 currently to 42 . The addition stems from the ability to design the accessible parking area more efficiently because of recent updates to the Illinois Accessibility Code. Further, the property lies in the C-5 District. Section 12-91 instructs "... no off-street parking shall be required for the first two thousand five hundred $(2,500)$ square feet of a use ...in the C-5 central business district." The petitioner is proposing two principal uses - private school (primary) and commercially zoned assembly (secondary) - and the sum of both minimums will establish the overall minimum. However, Ordinance allows the 2,500-square-foot deduction from each use. The rationale is that as the central business district C-5 is different from other areas of Des Plaines because of the availability of public parking garages and public transportation, as well as residential density that lends itself to households walking and having a reduced need to drive and park.

The table on the following page breaks down the minimum requirements for both a private school and a commercially zoned assembly, which must be summed to determine the total requirement. In summary, the total requirement is 39 spaces, and 42 are proposed to be provided, after parking lot improvements (restriping, addition of landscape island), so the requirement would be met. However, the submittal does not contain a description of the projected attendance of the assembly events. The floor plans establish a maximum occupancy of 60 people in the auditorium and 194 in the basement prayer/library area, but the petitioner may not intend to have or project this many attendees. Although the petitioner expressed potential assembly occupancy in their attached Cover Statement - specifically in their proposed conditions - the PZB may wish to ask the petitioner to more clearly identify the potential number of people expected for an assembly.

| Use, <br> Required Ratio | Floor Area | Required parking |
| :--- | :--- | :--- |
| Private School (in this case <br> "Elementary School"): 1 space for <br> each classroom, plus 1 space per <br> 200 square feet of area devoted to <br> offices | Office: (all excluded because of C- <br> 5 District) <br> 20 classrooms | 20 spaces |
| Commercially zoned assembly (in <br> this case, "Place of Worship"): <br> 1 space for every 5 seats in the <br> main auditorium, sanctuary, nave or <br> similar place of assembly and other <br> rooms ... which are to be occupied <br> simultaneously. | Assuming maximum number of <br> seats in the auditorium (60): <br> 12 spaces. <br> Assuming simultaneous <br> occupancy of the prayer area: <br> 2,904 square feet $-2,500$ square <br> feet for C-5 exemption $=404$ <br> Inuare feet / 60 $=6.73$ spaces <br> (rounds up to 7) | 12 for auditorium + <br> 7 for prayer area $=$ <br> 19 spaces |
| seating, 1 space shall be provided <br> for every 60 square feet of floor <br> area. | Total Required |  |
|  | Total Proposed | $\mathbf{3 9}$ spaces |
|  |  | $\mathbf{4 2}$ spaces |

Finally, regarding the refuse/dumpster, the existing dumpster is nonconforming, as it not enclosed. The site plan shows building a dumpster enclosure, which should bring the structure into conformance. The height and materials of the enclosure are not indicated on the site plan but would be regulated by Section 12-10-11.

## VARIATIONS

## Request Description:

The petitioner is electing to seek several variations related to existing conditions of the building and property, specifically its required yards (setbacks), parking lot, on-site and off-site/parkway landscaping, and signs. For this irregular corner lot, the front yard extends from the west lot line where it abuts Lee, the rear yard extends from the east lot line (Center), and there are three side yards: from the south lot line, which borders the Old National Bank parking and drive-through area; from the north lot line, which abuts Prairie; and from the west lot line portion that does not abut Lee but instead separates the ICCDA parking lot from the Old National parking lot. Based on real estate listing information, ${ }^{1}$ the building was built originally in 1957 and renovated in 1977. Not surprising, the building is a nonconforming structure in multiple ways. While the variations requested may not be essential to entitling the operation of the school or assembly, they allow the petitioner to retain certain physical characteristics and make reasonable enhancements but not comply strictly with current Ordinance requirements. In particular, with the existing parking lot nonconforming regarding various minimum curb and landscaping uses, adding new striped spaces to it could be considered intensifying the nonconformity and requiring a full upgrade to strict adherence. Therefore, the petitioner is seeking variation to allow a partial upgrade - notably installing a landscape island down the middle of the central double-loaded parking stalls - but not installing perimeter buffer strips at the south or west lot lines. The necessary variation requests are listed in the following table:

| Section | Requirement | Proposed | Type of <br> Variation |
| :--- | :--- | :--- | :--- |
| 12-7-3.L, <br> Table 4 | 5-foot minimum side yard <br> on the north lot line <br> (Center Street) | Existing condition: <br> 2-foot minimum side yard | Standard |
| 12-9-3.A.4 | Collective parking <br> agreements shall be <br> recorded. | $\mathrm{n} / \mathrm{a}^{*}$ | Major |
| *The petitioner requested relief from having to record a collective parking agreement, <br> but their site plan shows the parking minimum would be met on site; therefore, <br> petitioner has not submitted a collective parking agreement. |  |  |  |
| Related to Parking Lot Design and Landscaping |  |  |  |
| 12-9-6.D. | Install curb at least 3.5 <br> feet from property lines at <br> the parking lot perimeter. | Existing conditions: The <br> south and west perimeters <br> would not have curb. | Major |

[^0]| 12-10-7 | Parkway landscaping/trees <br> with species and amounts <br> as specified (applies here <br> only in a small portion at <br> near the corner of Prairie <br> and Center) | Existing conditions in the <br> area where the regulation is <br> relevant. | Major |
| :--- | :--- | :--- | :--- |
| 12-10-8.B. | Install perimeter parking <br> lot landscaping at the <br> south and western edges <br> of the parking lot/lot lines | As shown in the site plan, <br> install an interior landscape <br> island but do not install <br> perimeter landscaping at the <br> south and west edges of the <br> parking lot. | Major |
| Related to the Existing Pole Sign near Center | Major |  |  |
| 12-11-4.G | Pole and monument signs <br> shall be required to <br> provide and maintain <br> landscaping at the base of <br> the sign | Existing conditions: no <br> landscaping | Major |
| 12-11-5.A. | No pole sign shall be <br> constructed closer than <br> five feet (5') from any <br> property line. | Existing conditions: sign <br> installed at lot line |  |

## Standards for Text Amendments:

The following is a discussion of standards for zoning amendments from Section 12-3-7.E of the Zoning Ordinance. Rationale for how the proposed amendments would satisfy the standards is provided here and also in the attached Petitioner's Responses to Standards for Text Amendments. The PZB may use the statements below, use the petitioner's responses, or adopt its own rationale.

1. Whether the proposed amendments are consistent with the goals, objectives, and policies of the comprehensive plan, as adopted and amended from time to time by the City Council;
Comment: Although the Comprehensive Plan illustrates the 700 block of Lee Street as "Higher Density Urban Mix with Residential," a school use can (i) provide the kind of regular, daily activity that bolsters the Central Business District and (ii) provide a nearby educational option for the many (and growing number) of nearby households.

PZB Modifications (if any): $\qquad$
2. Whether the proposed amendments are compatible with current conditions and the overall character of existing development;
Comment: The amendments appear to be compatible because they reflect existing conditions on the east side of Lee Street. On the west side, the property is vacant and ripe for redevelopment, but the amendments would not automatically entitle a school; they simply expand the possibility for the conditional use process. The City would not be bound to approve a conditional use on, for example, the 750 Lee Street property on the west side of the street.

PZB Modifications (if any): $\qquad$
3. Whether the proposed amendments are appropriate considering the adequacy of public facilities and services available;
Comment: The hub for services that private schools may need (e.g., Police, Fire) are concentrated in the Central Business District already. The 700 block is directly adjacent to the 800 block, where a conditional use for private schools is already possible.

PZB Modifications (if any):
4. Whether the proposed amendments will have an adverse effect on the value of properties throughout the jurisdiction; and
Comment: The proposed amendments are not likely to bring a wave of private schools, and they reflect existing conditions, so there is not expected to be an effect on property values.

PZB Modifications (if any):
5. Whether the proposed amendments reflect responsible standards for development and growth.
Comment: Expanding the conditional use possibility for private schools in the C-5 District merely provides another option for development but does not automatically entitle their development or operation. The City would have the opportunity to review and authority to approve or deny specific requests.

PZB Modifications (if any): $\qquad$

## Standards for Conditional Use

The following is a discussion of standards for conditional uses from Section 12-3-4(E) of the Zoning Ordinance. Rationale for how the proposed amendments may or may not satisfy the standards is provided below and in the petitioner's response to standards. For certain standards, comments are split between the consideration of the private school ("school") and the commercially zoned assembly ("assembly"). The PZB may use this rationale toward its recommendation, or the Board may make up its own.

1. The proposed Conditional Use is in fact a Conditional Use established within the specific zoning district involved:
Comment (school): This is pending the outcome of the proposed text amendment. However, the conditional use via Ordinance Z-024-10 dates to a time when private schools were an established conditional use at this subject property.

Comment (assembly): Yes, the requested use is a conditional use in the C-5 District.
PZB Modifications (if any): $\qquad$

## 2. The proposed Conditional Use is in accordance with the objectives of the City's

 Comprehensive Plan:Comment (school and assembly): The 2019 Comprehensive Plan illustrates this site to be used for high-density urban mix with residential. However, the Plan also dedicates a chapter to strategies to enhancing downtown Des Plaines and inspiring visitation and commercial activity. A daily use such as a school brings people downtown every day and builds downtown visitation into their routine, which makes it possible they will also patronize businesses downtown, such as a grocery store, retail store, restaurant, dry cleaner, doctor's office, or services establishment.

PZB Modifications (if any):
3. The proposed Conditional Use is designed, constructed, operated and maintained to be harmonious and appropriate in appearance with the existing or intended character of the general vicinity:
Comment (school and assembly): Any exterior alterations proposed with this application would, if anything, enhance the property and character of the area.

PZB Modifications (if any):

## 4. The proposed Conditional Use is not hazardous or disturbing to existing neighboring uses:

Comment (school): The petitioner has provided a thorough pick-up and drop-off plan, which utilizes their parking lot, to address the proposed increase in enrollment. Staff has not received any complaints about the current ICCDA's operation since September 2022, albeit with a notably smaller enrollment than what is proposed.

Comment (assembly): The Board may consider whether having a potential spike of additional traffic and activity during essentially one month of the year for a few hours at a time and on occasional Fridays rises to the level of being "hazardous" or "disturbing."

PZB Modifications (if any):
5. The proposed Conditional Use is to be served adequately by essential public facilities and services, such as highways, streets, police and fire protection, drainage structures, refuse disposal, water and sewer, and schools; or, agencies responsible for establishing the Conditional Use shall provide adequately any such services:
Comment (school and assembly): The existing building has been adequately served by essential public facilities and services. Staff has no concerns that the proposed use will not be adequately served with essential public facilities and services in the future.

PZB Modifications (if any):
6. The proposed Conditional Use does not create excessive additional requirements at public expense for public facilities and services and will not be detrimental to the economic well-being of the entire community:
Comment (school and assembly): While the petitioner is offering to collaborate with City staff and departments, such as Police, Fire, and Building/CED, staff does not interpret these as being obligatory activities. On the contrary, staff expects that approved conditional uses would set reasonable conditions and expectations and set the stage for long-term compliant occupancy and operation.

PZB Modifications (if any):
7. The proposed Conditional Use does not involve uses, activities, processes, materials, equipment and conditions of operation that will be detrimental to any persons, property, or the general welfare by reason of excessive production of traffic, noise, smoke fumes, glare or odors:
Comment (school and assembly): All activities are proposed to occur inside buildings, aside from those driving, walking, or otherwise getting to and from the doors of the building. All uses must be in compliance with the Environmental Performance Standards in Chapter 12 of the Zoning Ordinance.

PZB Modifications (if any):
8. The proposed Conditional Use provides vehicular access to the property designed so that it does not create an interference with traffic on surrounding public thoroughfares:
Comment (school): While the increased enrollment will inherently bring more vehicles to the area, the spikes will be short and should be managed to prevent stacking into Center Street (i.e., a queue that blocks or impedes traffic). Observations reported by the petitioner in their submittal, as well as anecdotal observations by staff, indicate that there is additional capacity on adjacent streets during daytime school hours.

Comment (assembly): The Board may consider asking the petitioner to commit to methods to encouraging carpooling, using non-motorized transportation (walking and parking), or, if driving, utilizing nearby public parking garages (i.e., Library Garage, immediately north on Prairie, or 1425 Ellinwood/Welkin garage approximately $1 / 2$ block to the north on Lee).

PZB Modifications (if any):
9. The proposed Conditional Use does not result in the destruction, loss, or damage of natural, scenic, or historic features of major importance:

Comment (school and assembly): The subject property is within an already development building and thus would not result in the loss or damage of natural, scenic, or historic features.

PZB Modifications (if any): $\qquad$
10. The proposed Conditional Use complies with all additional regulations in the Zoning Ordinance specific to the Conditional Use requested:
Comment (school and assembly): The proposed uses would comply with all applicable requirements as stated in the Zoning Ordinance.
PZB Modifications (if any):

## Variation Findings:

Variation requests are subject to the standards set forth in Section 12-3-6(H) of the Zoning Ordinance. Rationale for how the proposal addresses the standards is provided in the attached petitioner responses to standards, with some comments from staff below. The Board may use the provided responses as its rationale, modify, or adopt its own.

1. Hardship: No variation shall be granted pursuant to this subsection $H$ unless the applicant shall establish that carrying out the strict letter of the provisions of this title would create a particular hardship or a practical difficulty.
Comment: See petitioner's responses to standards.

PZB Modifications (if any): $\qquad$
2. Unique Physical Condition: The subject lot is exceptional as compared to other lots subject to the same provision by reason of a unique physical condition, including presence of an existing use, structure, or sign, whether conforming or nonconforming; irregular or substandard shape or size; exceptional topographical features; or other extraordinary physical conditions peculiar to and inherent in the subject lot that amount to more than a mere inconvenience to the owner and that
relate to or arise out of the lot rather than the personal situation of the current owner of the lot.
Comment: The subject property is an irregular shape, having a lot line fronting on three different streets while also being a corner lot. In staff's view, this is truly unique. See petitioner's responses to standards for more.

PZB Modifications (if any):
3. Not Self-Created: The aforesaid unique physical condition is not the result of any action or inaction of the owner or its predecessors in title and existed at the time of the enactment of the provisions from which a variance is sought or was created by natural forces or was the result of governmental action, other than the adoption of this title.
Comment: The petitioners did not create the unique shape and dimensions of the lot. See petitioner's responses to standards for more.

PZB Modifications (if any): $\qquad$
4. Denied Substantial Rights: The carrying out of the strict letter of the provision from which a variance is sought would deprive the owner of the subject lot of substantial rights commonly enjoyed by owners of other lots subject to the same provision.
Comment: See petitioner's responses to standards.

PZB Modifications (if any):
5. Not Merely Special Privilege: The alleged hardship or difficulty is neither merely the inability of the owner or occupant to enjoy some special privilege or additional right not available to owners or occupants of other lots subject to the same provision, nor merely the inability of the owner to make more money from the use of the subject lot.
Comment: See petitioner's responses to standards.

PZB Modifications (if any):
6. Title And Plan Purposes: The variation would not result in a use or development of the subject lot that would be not in harmony with the general and specific purposes for which this title and the provision from which a variation is sought were enacted or the general purpose and intent of the comprehensive plan.
Comment: See petitioner's responses to standards.
PZB Modifications (if any):
7. No Other Remedy: There is no means other than the requested variation by which the alleged hardship or difficulty can be avoided or remedied to a degree sufficient to permit a reasonable use of the subject lot.
Comment: See petitioner's responses to standards.
PZB Modifications (if any): $\qquad$
8. Minimum Required: The requested variation is the minimum measure of relief necessary to alleviate the alleged hardship or difficulty presented by the strict application of this title.
Comment: See petitioner's responses to standards.
PZB Modifications (if any): $\qquad$

PZB Procedure and Recommended Conditions: Because of the multiple requests, staff recommends the Board take multiple motions: (i) recommendation on the proposed text amendment; (ii) recommendation on the proposed conditional use for private school/amended conditional use through Z-024-10; (iii) recommendation on the proposed commercially zoned assembly; (iv) a final vote on the standard variation regarding the required side yard; and (v) a recommendation on all other requested variations, which the Board could consider with one motion or individually.

## TEXT AMENDMENT

Pursuant to Section 12-3-7(E) of the Zoning Ordinance, the PZB may vote to recommend approval, approval with modifications, or denial of the proposed text amendment. The City Council has final authority over the request.

## CONDITIONAL USE / AMENDED CONDITIONAL USE FOR PRIVATE SCHOOL

Pursuant to Section 12-3-4(E) of the Zoning Ordinance, the PZB may vote to recommend approval, approval with modifications, or denial of the conditional use. The City Council has final authority over the request.

The petitioner suggested conditions in their attached Cover Application Statements. The Board may review them, but staff does not recommend their verbatim use, with particular concerns about (i) the reference to 36 parking spaces, when the minimum requirement (with both uses active) is 39 , and (ii) a temporary occupancy allowance through 2028 pending hallway-width changes. Instead, should the PZB recommend approval of the conditional use, staff suggests the following conditions:

## Recommended Conditions of Approval

1. Notwithstanding the desired maximum number of users, the occupancy load for the building and all rooms utilized by the use shall not exceed the maximum set by the Fire Department and Chief Building Official. This maximum may be increased only through permitted construction and alterations; provided, however, the total attendees shall not exceed the numerical limit set through this conditional use approval. Every room or space that is an assembly occupancy shall have the occupant load of that room or space posted in a conspicuous location, near an exit.
2. The petitioner shall complete the parking lot restriping and landscape project shown on the site plan within 12 months of approval.
3. No on-site food service shall occur unless a code-compliant commercial-grade kitchen were to be installed.
4. Any building or use expansion shall require the Petitioner to obtain a conditional use amendment.

## CONDITIONAL USE FOR COMMERCIALLY ZONED ASSEMBLY

Pursuant to Section 12-3-4(E) of the Zoning Ordinance, the PZB may vote to recommend approval, approval with modifications, or denial of the conditional use. The City Council has final authority over the request.
However, should the PZB recommend approval of the conditional use, staff suggests the following conditions:

## Recommended Conditions of Approval

1. Notwithstanding the desired maximum number of users, the occupancy load for the building and all rooms utilized by the use shall not exceed the maximum set by the Fire Department and Chief Building Official. This maximum may be increased only through permitted construction and alterations; provided, however, the total attendees shall not exceed the numerical limit set through this conditional use approval.
2. Commercially zoned assembly activities, or those worship activities not accessory to the private school, shall occur at different times.
3. The petitioner shall complete the parking lot restriping and landscape project shown on the site plan within 12 months of approval.
4. No on-site food service shall occur unless a code-compliant commercial-grade kitchen were to be installed.
5. Any building or use expansion shall require the Petitioner to obtain a conditional use amendment.
6. The petitioner will publicize on its website and actively distribute to its audience a map of nearby public parking garages, with summary instructions and directions on how to access and any hourly or time restrictions.

## VARIATIONS

The petitioner is requesting one standard variation and multiple major variations. Pursuant to Section 12-3-6.F of the Zoning Ordinance, the PZB may vote to approve, approve with modifications, or deny the Standard Variation to reduce the required side yard.

Then the Board may consider pursuant to Section 12-3-6.G a vote to recommend approval, approval with modifications, or denial of the Major Variations. The City Council has final authority over the request. Staff does not recommend conditions for the variations.

## Attachments:

Attachment 1: Location and Aerial Map
Attachment 2: Site and Context Photos
Attachment 3: Plat of Survey
Attachment 4: Ordinance Z-024-10 ${ }^{2}$
Attachment 5: Responses to Standards for Text Amendment
Attachment 6: Responses to Standards for Conditional Use
Attachment 7: Responses to Standards for Variation
Attachment 8: Application Cover Statements, Operational Plan (collectively the Project Narrative)
Attachment 9: Stacking, Circulation, and Pick-Up/Drop-Off Plan (with projections and data) Attachment 10: Site Plan
Attachment 11: Floor Plans
Chair Szabo swore in Mark Daniel, Attorney for the petitioner, Jose Pareja, Architect for the petitioner and Nayeem Syed, President of the School and Board and petitioner for the project. Mr. Syed gave some background on the school. He stated that they want to expand the building and school. They want to have the Islamic school and academy. Prayer is part of the curriculum. To operate the school and maintain the building, they cannot afford to maintain the building with the existing number of students and need more enrollment. They think there will be more apartments occupied and stores shopped at in this area by the new occupants of the building.

Mark Daniel stated that they are in this process later than they hoped with opening the school. They hope to have PZB recommendation after going through the history. This was an office building that was previously occupied by the Greek American Restaurant Association. All the first floor was used for school services. There were assumptions made prior to the office building being purchased that caused a fire drill with the city to allow a temporary certificate of occupancy. They knew they would have to convert the second floor a bit, but they entered a temporary occupancy with the city to cap the students at 60 . He gave a memo for KLOA that were consulted about student drop off and traffic counts. They did this during a busier time of year when more students were in cars. At the end of the year, parents and kids bring more things

[^1]home in cars and there is less walking. KLOA had a projected vehicle count the last 2 days of school. There was less in the afternoon because ICCD has a half day program.

He stated that they want to preserve the pole sign. It turns in towards the property, so it does not obstruct the sidewalk. They intend to reface and paint the sign. There is a city improvement adjacent to the sign. There is a landscaping improvement that abuts the parking lot too.

Mr. Daniels stated there is a prior conditional use for a school, but it was for the first floor only. Every variation we are asking for existed in 2010 . The parking lot, sign, and property conditions are all existing with these variations. In 2022, there were reductions agreed to. From the petitioner's perspective, it is a reduction. ICCD had a conditional use for only part of the first floor. They are looking to accomplish a few things. The first thing is to get the school entitled for the whole building. It is a two-story school with a worship area in the lower level. On the second floor, there is a large classroom, and they want to create a larger auditorium. Otherwise, it is all classrooms, computer labs, art labs, kitchen/eating area. Those are all generally on the first floor. As far as the auditorium is concerned and how they phase things, in 2022 they didn't have a lot of choices. They didn't want to appeal city staff's decisions, they needed staff's help otherwise the students would have lost their school.

Mr. Daniel stated the conditional use is phrased as either new permit or amending the permit. This is a fallback. They are asking for a text amendment. Schools are only allowed on the block with the Little Bulgarian School. They are hoping the City will add schools to the permitted uses on this block. They anticipate building up over time. All these numbers are dependent on permitting, life safety, etc. These numbers on the screen are permit issues that we are dealing with. Those are estimations. They may not get to 233 , but it might be 228. It depends on how permitting goes.

He stated the text amendment is common sense. A lot of schools have a pre-k and a kindergarten program. In the code we propose that you add specifically that language - that if they have an elementary school, they can operate pre-k and K in the same place. Right now, ICCD operates pre-K, K and $1-8$. That is the text amendment. They changed "located on" to "frontage". The amendment is consistent with the comprehensive plan. They have reached out to a consultant that showed there is a vacancy rate of $22 \%$ for certain office types in this area. This is an office building. This building is Class A Office but once rehabbed it probably falls into the Class B category. The occupancy in Class B are greater and the sublets are less available.

Mr. Daniels said the office use is slow to recover. The petitioner views this case as a way to get folks downtown. You can expect a good number of families to use downtown associated with this school. The C-5 and R-4 districts are focused on multifamily residential. They have townhomes directly to the south and the other side of the street. They have condos and apartments in every direction. It makes sense to have supportive uses in C-5. Some of the kids will want to go to a private school and it makes sense as a supportive use for those residents.

Typically, you try to locate schools on collectors or arterials. In the past in planning, in a subdivision, you would take land for a school. Because all the land is built up, that doesn't happen often, larger schools can be on arterials and smaller schools on collectors. Lee St is an
important arterial in town and Prairie Ave is a collector. As far as the amendment is concerned, the amendment is reflective of the use that has been there since 2010. There is a collection of uses downtown that include a lot of institutional uses. They have a history of schools across the street with St. Mary's. St. Mary's Church is still there. At the bottom of the map [referring to slide] Plato Academy moved. Little Bulgarian School is nearby, as well as the history center and the library. This area is used to this type of traffic during the day. Those big parking lots are for people to park downtown. Some of the surface parking is under private ownership too.

Mr. Daniels stated as far as trends in the area, you have your retail situated along the Metra line, with service uses along Lee St. They are not interrupting a service corridor -Lexington Townhouses and the bank are neighbors (they have been terrific to work with for our applicant). This is a good adaptive re-use of a building, even if it was a new school today. To the extent the students use the library, they have end of the day classes where one class is engaged in library enrichment and that supports the property value. More traffic leads to more service traffic in the area. Those greater ADTs are supportive of retail uses.

Mr. Daniel stated that this text amendment is responsible planning - it is still a conditional use. You evaluate each case on its merits. They are at the end of the block, not technically defined as a through or corner lot, but it looks like both. They fall through some cracks in the definition of code, but they are at the end of the block. It might be a different story if we were not at the end of the block or closer to Little Bulgarian. That is the core responsibility of keeping this use as a conditional use with this text amendment. Schools are one of the most important assets in Des Plaines.

Mr. Daniel said they use the "up to 233 number" for students, but Allen (building official) will have a big say in that. In terms of occupancy, they are aiming for use of the entire building. Parking modifications they are looking at are fairly minimal. The handicap parking is outdated and oversized. They can increase parking to 42 spaces, we have 38 right now. They would restripe the lot. The plan in the packet shows a landscape island in the middle of the parking lot between two rows of parking. With respect to the landscape island, we would like to stripe that first. If staff demands landscape on the island, they will do that. We will have phasing of modifications to the building over time. Ultimately, they will have a larger auditorium. The main entrance - there will be a slight change here. They will not be using the entrance at all. The Lee St entrance will be the accessible route to the building; appropriate plans will be made for that. If there is an accessibility challenge, they believe most parents will take them through the opposite side of the building. For the conditional use for the school and assembly - they will not be operating simultaneous. If school is in progress, you will not have commercial district assembly. The assembly use is different from the school and will not operate simultaneously.

He touched on the student loading areas. There are notes in the staff report too. The bank has been a great neighbor, they have used the parking for non-bank hour parking. They confirmed with Old National that they still have the relationship to use it during non-banking hours. The fifth request is asking to waive the collective parking agreement. It is a large property, capable of further development. Their plans show they can load and unload and park in full compliance with the ordinance. With the morning and afternoon loading, we will satisfy the code standards.

The most common use of Old National will be during Ramadan, the 30-day period that gets earlier and earlier every year per the calendar. Iftar is the dinner that breaks fast; these events can occur with the school or outside people. You can have people worship in the basement and people like me who will remain in the auditorium and not pray. That would be the most intensive use. That goes from 6:30 to 10:30. It is later in the summer months and ends earlier in the winter months (it is timed by the sunset).

Mr. Daniels stated as far as the use of Old Second, the school has already had assembly uses where they have used the lot and worked well. However, they meet the parking requirements and do not need the collective parking requirements, but they wanted to put this in just in case we come up shy with the parking requirements. There is a direct route through the bank parking lot to the building. It extends along the dumpster in the plan. As far as the conditional use standards are concerned, there are two bases: the first is the 2010 ordinance, possibly being amended. For more clarity, they think we could have a new conditional use. The other conditional use is the assembly use. They are in the position where they would meet higher density needs downtown. You talk about the importance of institutions in the comprehensive plan. The older churches are all included in the comprehensive plan and all these private schools in the area do contribute too.

He stated there is history of schools here, with Plato in this location and in the last year with us in this building. They did use KLOA to do projections/traffic although they have not had issues. Center Street is either residential or institutional. You do have a rear exit for Old National and a small house that might be used for business on Center Street, but it is similar to streets near Elmhurst, on the right a public school and the left a private school. I asked staff to ask the police department to help with street drop offs. The street is not that busy for drop offs. The police and KLOA agreed that drop off should be done on site instead. They can pull in all the traffic from center and have a wide enough drive aisle and load vehicles into the property and have the students exit the vehicles according to a loading plan. Certainly, they can handle a large amount of traffic with three lanes and capacity on Prairie. Approaching the school is one lane, expanding to two towards the library.

Mr. Daniels said you could have between 60-200 people based on occupancies, but there is a difference between building and zoning. For school assembly, nothing out of the ordinary. He said he is Catholic, he went to a Catholic middle school, we worshipped and prayed in the school. It is no different here, but it is on different floors. He mentioned the ADA route. There is a clothes donation box they would like to keep open for the safety of donations and not enclose with the dumpster. In the top right, they note no use of Prairie (referring to site plan on slide). They have a deferred landscape curb that we will install once staff have told us to do it. They want to first get a handle of student loading before landscaping. For student loading we do want to meet with staff and the police annually, so they know our plan and ebb and flow.

The pole sign was mentioned - down the road, it will be a monument sign. Old National has a monument on its building. They would not want to put it on our driveway. There was a parking space that we eliminated during planning, to aid pedestrian traffic. They have the option for a right in/right out if needed.

Mr. Daniel discussed the hours of the day - Uses will not be simultaneous for the school and worship. The prayer will generally be between 12:30 and 2:30. The school closes for an hour before this prayer happens because they need time for people to get into the building. Classes would end and there would not be an after-school program. He mentioned Iftar during Ramadan. As far as the hours during the day, these are estimated. For the purposes of this hearing, they are showing they can handle student loading without relying on Old National. Our analysis is only based on our property - right in, right out and two lanes with 20 ft vehicles. When preparing this slide, he used what he learned in facility planning. They say you should unload in groups of 3 . KLOA says it might be easier to load in 6-7. They can fit 6-7 in the lot, have those pull out, and pull the next 6-7 in. They have 11 cars behind the 6 or 7 actively loading. 6-7 come in, children exit the vehicle, once they are clear, the students pull out. They can be directed to a "reserve space" if needed. Any spaced with a $D$ is s drop space [referring to site plan on screen]

He explained how they stick with the 2-3 minute drop off. If half the kids are released at one time and not another, how do we guarantee parents arrive at the same time? There are apps on your phone where ICCD can at any given moment tell the parent when to pick up their child. The parents then come in at that time. If you have children in the same grade, one is in the later grade, you can load them all in the cars. Right now, they park in the spaces and take the kids out. They will not be doing that with the 200 students. This is handled by teachers and volunteers. Where do they park? The E spaces. A lot of the teachers and volunteers have kids at the school. The table here is an interval for the 6-7 cars [referring to slide]. During the noon period, people may be able to park on site. In the afternoon drop off, it is not a peak hour, and it is 50 minutes in the worst-case scenario.

Mark Daniel said they don't share plans too publicly of schools, they are on file with staff. The auditorium is on this slide [Phased Auditorium Expansion Slide]. The capacity of 233 is based on this whole area being an auditorium and not classroom space. We are setting a cap for the analysis. The other assembly space is in the lower level. There are a few numbers there, 52 and 142 [worship and reflection slide]. The use of the area - there are bookcases along the back wall. We anticipate 145-165 people, even though the building occupancy is higher. There is no food or service in this area. People worshiping would move upstairs, this area downstairs is only for reflection. It is a more passive use. The basic standards for conditional use - there is no disturbance from a school in this area. You might see students walking to the library, but there are crosswalks and sidewalks to this area. No demand on public services. They will not interfere with the PACE bus stop. No offensive activities. This was planned for these uses from a parking perspective. The office use can generate traffic and parking demand. You can see the stacking and movement. They are getting cars off the street where no traffic will be blocked.

He stated they are preserving the building because they are asking for variations for the existing building. The 42 parking spaces is more than the school and assembly uses. He makes the note here that if you are willing to allow us to stripe the landscape island in the parking lot, they will install when the city demands it. They need to re-stripe to get to 42 spaces.

He said for the conditional use for a commercial district assembly, there is not much difference in the styles of assembly. [Reading the Conditional Sue for Commercial District Assembly Slide]. A
lot of the same planning occurs that is discussed with the school. Nothing hazardous. Similar conclusions to the school. For the record - they would like the school conditional use to run with the land. For the commercial district assembly, they are planning and contemplating where it will occur; they are ok with this running with the school because the new use could have a different type of assembly use. The Islamic Community Center is something many people from this school belong to; this is not a replacement for the mosque. Please note the Iftar timeframe towards the end - people start to leave around 9:30. 10:30 is when it ends. The time it is most busy is summer solstice.

KLOA is not here tonight to speak, but they will continue working with the petitioner. If they did not get approval by council, they will get an agreement from Old National to get a collective parking agreement and talk about daytime loading and unloading. KLOA will help with that, and they will help with the student loading plan. They use a lot of care in our student loading. Everyone has a radio. Teachers and students advance based on the time in that app. Teachers check students in and out, it is a very meticulous careful process. You have intervals where you have these cars coming in. These are accounted for by groups of classes. PreK and K come in first.

On the variations sought, it is similar. They ask you to preserve what they have. There is hardship with the existing building. They did not plan the site. Prairie was widened after the building was constructed and that is why they are short on setbacks and landscaping. They have multiple front yards, but the code will not define it as a through lot because it is offset. Existing conditions are what we are dealing with. They are not increasing the non-conformity in any respect.
Jose is the architect and will answer any questions. It is important to note the one issue staff will discuss during permitting is the dumpster location. In this photo [on screen] where the cement pad is to the entrance of the property, that is where the dumpsters are now (unscreened). The dumpster in the plan they are proposing is going to be about midway along the parking spaces [on screen]. The relocation south will not be an issue for any reviewer of the plan for substantial conformity.

He has worked with the applicant continuously since April and in July, August, September. The building is a good building for a school of this sort and capable of interior remodeling.
Something to remember about schools - children don't forget the area they went to school; they remember all the locations and when they are older, they go back even if they are in a different location. It puts downtown in the minds of hundreds of students over the years. I am happy to answer questions.

Mr. Syed, Petitioner stated they need to use the entire building and they want to work with the city to have a good relationship and make this happen.

John Carlisle, CED Director, gave the staff report. He explained that the petitioners, ICCDA, is requesting to amend Section 12-7-3.K of the Zoning Ordinance, specifically the Commercial Districts Use Matrix. Currently in the C-5 District, conditional use permits allow private schools only in the 800 block of Lee Street (currently the Little Bulgarian School/Center is in this block).

This limitation was established in June 2018 (Ordinance Z-17-18). The requested text amendment would extend the possibility of private schools to the 700 block of Lee Street, but a conditional use would still be required, which means the PZB would hear, and review and the City Council would have to approve any request for such school. Mr. Carlisle went over the Location and Map including Lot Area, Previous and Existing Owners and the Building Exterior. He explained the Site Photos with her proposed Textament. He explained the Site Plan including trash enclosure, parking plan and landscape island. He explained the Existing Aerial and Parking Requirements. Mr. Carlisle explained Principal and Accessory Uses for the property. There is also a Primary Principal use which is the school and a Secondary Principal Use which is the Assembly and an Accessory Use which is for religious functions related to the school. He discussed Commercially Zoned Assembly, maximum occupancy and parking requirements.

Mr. Carlisle discussed the Four Recommended Conditions of Approval for the CONDITIONAL USE / AMENDED CONDITIONAL USE FOR PRIVATE SCHOOL

1. Notwithstanding the desired maximum number of users, the occupancy load for the building and all rooms utilized by the use shall not exceed the maximum set by the Fire Department and Chief Building Official. This maximum may be increased only through permitted construction and alterations; provided, however, the total attendees shall not exceed the numerical limit set through this conditional use approval. Every room or space that is an assembly occupancy shall have the occupant load of that room or space posted in a conspicuous location, near an exit.
2. The petitioner shall complete the parking lot restriping and landscape project shown on the site plan within 12 months of approval.
3. No on-site food service shall occur unless a code-compliant commercial-grade kitchen were to be installed.
4. Any building or use expansion shall require the Petitioner to obtain a conditional use amendment.

Mr. Carlisle discussed the six Recommended Conditions of Approval for the CONDITIONAL USE FOR COMMERCIALLY ZONED ASSEMBLY

1. Notwithstanding the desired maximum number of users, the occupancy load for the building and all rooms utilized by the use shall not exceed the maximum set by the Fire Department and Chief Building Official. This maximum may be increased only through permitted construction and alterations; provided, however, the total attendees shall not exceed the numerical limit set through this conditional use approval.
2. Commercially zoned assembly activities, or those worship activities not accessory to the private school, shall occur at different times.
3. The petitioner shall complete the parking lot restriping and landscape project shown on the site plan within 12 months of approval.
4. No on-site food service shall occur unless a code-compliant commercial-grade kitchen were to be installed.
5. Any building or use expansion shall require the Petitioner to obtain a conditional use amendment.
6. The petitioner will publicize on its website and actively distribute to its audience a map of nearby public parking garages, with summary instructions and directions on how to access and any hourly or time restrictions.

Chair Szabo asked how many spaces are the Welkin development and the library?
John Carlisle stated he believe the Welkin is 79, but is not certain, and he is not sure recollect about the library. I

Member Saltenik asked the petitioner about the motivation for the landscaping variation. Why not put in the landscape buffer in the parking area?

Mark Daniel stated the history with parking in the property is that parents would park in the spaces and pull through. They have the circulation plan, but it will allow the school to have some flexibility to figure out how the site flows and provide the option to discuss.

Member Saletnik asked if there is still a lack of confidence about the current scheme working, then why do they want to have flexibility to change it? Why the reluctance?

Mark Daniel stated they don't have a problem installing it, that is not the issue. They will not have enough demand for a few years that would require that.

Member Weaver said I am very happy with the plan for the building. I am certainly fine with having the Islamic School there. You put a lot of thought in how to make it work and the growth plan. However, one thing bothers him and maybe this comes from the City. In a number of number of materials there is a discussion about people in this high-density urban development walking places. Some portion of the students will walk to the location. Yet, Member Weaver finds this plan, which he sees over and over again in suburban planning, is really hostile to pedestrians and walking. The only place you can safely walk in this area are the city sidewalks of Center St, Prairie Ave, Lee St, and that one green stripe you have. If you look at the Old National Site, you have to walk through parking and traffic to go into the bank. The whole bank is centered on the parking lot. They have a door on Lee St, but they have blocked the door. You are supposed to walk through this. Adults going to the bank, no big deal and hope we don't get hit. Here, we are dealing with children. The site is devoid of places to walk. There is no connection to Center St. If someone drops their kids off on Center St or Prairie, they have to walk through the vehicular entrance to the parking areas. It seems really hostile to pedestrian movement, not terribly safe, and we think that the problem is that cars are the solution and use a Spot Hero plan for loading/unloading. You are assuming in our suburban downtown that you have to drive. This is not limited to your plan. There is a lot of good thought done with this, he wishes the school well, but we are guaranteeing no one will walk. Member Weaver is disturbed by that and maybe that is the direction the City points people to.

Mark Daniel stated for zoning purposes, they want to show they can take in all the traffic. They don't talk about our $25 \%$ walking. In the submittal, you will see the table with far fewer vehicles coming in the morning and afternoon periods. That relies on $50 \%$ have multiple children in the family, $25 \%$ walking. For the purposes of zoning, they had to show it could handle traffic
without creating a nuisance. I understand the walkability concern. He stated, in our experience, the parents pay attention to the app. I can't tell you it will pour rain one afternoon and everyone needs a car. You have the worst-case scenario presented. They are showing what would happen if they were all driving.

Member Weaver said the accessible path, you have people going through the back door to the school. The entrance is in the back, theoretically, if you had a wheelchair, you would have to go through the front. Over time, the school will find they need to lock the door because they can't monitor it.

Mark Daniel stated that it has to be monitored. It must be open by federal law.
Member Weaver asked - Is that a paid employee or a volunteer?
Mark Daniel said there is a collection of administrative office people and volunteers.
Mr. Syed stated they have an armed security guard on site, and he will monitor the building.
Member Weaver said this is the high price of making people arrive with cars in the back. It is unfortunate. Shopping centers are also very hostile to pedestrians.

Mark Daniel stated they have a walking aisle on two sides of the parking lot.
Member Weaver said I do think the City ordinance drives you to do this. I don't see a way out of this. You are using every sq ft for vehicular circulation. How would the sidewalk at the top connect to Center Street? There is the most minimum space for walking. It solves your required minimums; the result of the required minimums is that you end up with almost no pedestrian space.

Mark Daniel: There is a city improvement along the Center Street lot line that is pretty thick.
Member Weaver said you have a retaining wall there.
John Carlisle stated the petitioner amended their floor plans with the Lee Street to make it the accessible route to public transportation. You may want to ask the petitioner how the walkers are arriving on foot. They might cross Lee Street to get to that door.

Chair Szabo asked where the retaining wall on Center Street is? And asked if they could put a cut in there somewhere and have a stair go up where the residence used to be with the former bike shop.

Mark Daniel stated that if you look at the main entrance and the gym - the gym extends on the east side of the building. If you exit going westbound, there is a doorway going to the sidewalk, door 2 and 3.

Member Weaver stated that it has a huge, sloped step and concrete. And that is definitely not an accessible route.

Mark Daniel said it has to be the shortest route to the bus station.

Member Weaver stated chances are since you don't have high school students, no one is getting off a PACE bus, but some people with limitations to their walking abilities could potentially come through that side. There is a lot of difficulty getting to the back of the building, whether crossing Lee Street, the parking lot, the Old National Bank. There is no way for someone with mobility impairments to get them in.

Mark Daniel stated the requirement would be that it needs to be a level grade. The access issue we wanted to avoid impact to that bus stop. The standards do avoid having us change Lee Street. As we sit with Staff and the Police Department, we can have a parent monitor the Lee Street entrance. The parents can monitor that doorway. We are trying to show that we can meet the standard.

Member Weaver said I don't see a way to accomplish walkability for this project. I don't want to vote it down for that. I am disappointed in a lot of places approach to walkability. I have no problems with the school. I think the walkability here is poor and a lot of poor walkability in Des Plaines.

Chair Szabo stated I think it is important to voice your concerns in the record. Any other questions from the board? Anyone in the audience with questions or in favor or objecting. Can I see a show of hands for people objecting? [no hands]

Chair Szabo swore in Daniel Cartalucca, neighbor of the property. He said we are the little triangular building on the corner. We are able to get that re-zoned in the past for the residential use. Tom Weaver and Mr. Cartalucca discussed walkability in the area. We live next door to the building and have since 1993. That greyed out corner on the site plan would be a perfect location for a cut in the wall and make stairs to where Prairie meets Center, with the landscape area there. There used to be a bus bench there and people would use that to step into the parking lot. There is already an existing sidewalk along that building to that location. If they did a staircase there, it would allow people to come from the library rather than walk toward the vehicular entrance. It seems like that would be a logical place. We watched the old brick veneer crumble for a few years, that wall could be dodgy, but it would be a good location for the stairs. We are neighbors of this project and the previous Plato Academy and we are in favor.

Mr. Paeja, Architect for the project stated looking at the area, from the paving it leads to the sidewalk. No pedestrian would be crossing vehicular traffic if that was done. We want anyone who needs to use the ramp to not have to go through the building to leave. That is a way to have people access the street without having them transverse traffic, but that is on city property.

Chair Szabo stated that if the owner is in favor, that would be a big plus.
Daniel Cartalucca: Plato was there, the kids would use the library and playground and would climb that wall. It would be safer to have that here.

Chair Szabo swore in Azif Hussain. He stated I am in favor of the school and the mosque, but with a few exceptions. Security is extremely bad. My three kids went to the school last year. I have given $\$ 50,000$ to the school myself. I am very disappointed. Before they make a plan for the mosque, they must have a good security program. Anyone can go to the basement. Doors are
locked all the time upstairs. There is no security often at the site and it is a dangerous situation. The owner of the building has sent me an email about how this would be unsafe, he offers to send the email to the board. You can go anywhere in the building. I have asked several times for a security officer.

There are many issues with the parking lot besides security. He is in favor of the school and mosque with security improvements, with a separate door from the mosque so no one can enter from school to mosque, mosque to school. Many members of the school agreed it is a safety concern and no one has done anything about it. I can take a camera and show you that you can go anywhere in the building.

Chair Szabo stated a possible solution for security might be some kind of closed-circuit camera system to see who is coming and going even if they are not at their posts. That is something the petitioner can discuss with the City.

Mr. Hussain stated I believe there should be a separate entrance for the mosque and the school. It could be a dangerous situation and it needs to be addressed before the school can be in the same building as the mosque.

Chair Szabo swore in Irfan Mohammed. He stated that he is one of the founders of the school. As a board member and parent, we cannot compromise. We are new and we are not sure how to get into the Des Plaines system. We have security doors and alarms and have cameras. We are still figuring out how to make it one entrance/exit and be reasonable to everyone. He is glad you have opened the Prairie entrance. School is segregated from walkers. We haven't seen anyone come without our permission. The school knows who is coming and going, everyone must have an appointment to come into the building. That is the policy. Door 2 and 3, it is possible to separate entrances/exits to the school and mosque.

Mr. Daniel stated they have a computerized door and have a camera already installed. They have a prayer hall open to the public and for the school. There is always room to improve and they are enforcing security with a security guard. The school is planning to have new security for next year.

Mark Daniel wanted to note for the record that they had no problem with conditions recommend by staff.

A motion was made by Board Member Weaver, seconded by Board Member Hofherr to recommend that the City Council the changes to the Text Amendment that involve the 700 Block of Lee Street as drafted by staff.

| AYES: | Weaver, Hofherr, Saletnik, Szabo |
| :--- | :--- |
| NAYES: | None |
| ABSTAIN: | None |

## ***MOTION CARRIES UNANIMOUSLY **

A motion was made by Board Member Weaver, seconded by Board Member Hofherr to recommend that the City Council amend the Conditional Use Permit for the Private School Use with the four recommend conditions of approval drafted by staff.

AYES:
NAYES:
ABSTAIN:

Weaver, Hofherr, Saletnik, Szabo
None
None
***MOTION CARRIES UNANIMOUSLY **
A motion was made by Board Member Weaver, seconded by Board Member Hofherr to recommend that the City Council approves the Conditional Use for the Commercially Zoned Assembly with the six conditions of approval drafted by staff.


A motion was made by Board Member Weaver, seconded by Board Member Hofherr to APPROVE the required minimum side yard on Center Street from five feet to two feet.

| AYES: | Weaver, Hofherr, Saletnik, Szabo |
| :--- | :--- |
| NAYES: | None |
| ABSTAIN: | None |

***MOTION CARRIES UNANIMOUSLY ***
A motion was made by Board Member Weaver, seconded by Board Member Hofherr to recommend that the City Council approves the five Major Variations involving 12-9-6.d, 12-10-7, 12-10-8.b, 12-11-4.g and 12-11-5.a .

| AYES: | Weaver, Hofherr, Saletnik, Szabo |
| :--- | :--- |
| NAYES: | None |

ABSTAIN: None

## ***MOTION CARRIES UNANIMOUSLY **

Member Weaver stated that he left out the major variation for the collective parking agreement. He encourages ICCD to keep working with the Old National Bank. He thinks it would be great if you can make good use of all the extra asphalt that is available after hours.

Mark Daniel asked if they could leave that pending and work something out with Old National Bank, could they avoid a reapplication?

John Carlisle stated that the board has made their motion and City Council can make other recommendations.

Chair Szabo asked that minutes include the recommendation in this meeting to add a walkway off Center Street at the corner of Prairie and Center., so they can utilize the sidewalk that runs behind 1445 Prairie Avenue. Strongly recommended.

## ADJOURNMENT

The next scheduled Planning \& Zoning Board meeting is Tuesday July 25, 2023.

Chairman Szabo adjourned the meeting by voice vote at $9: 10$ p.m.
Sincerely,
Margie Mosele, Executive Assistant/Recording Secretary
cc: City Officials, Aldermen, Planning \& Zoning Board, Petitioners

## MEMORANDUM

Date: July 21, 2023
To: $\quad$ Planning and Zoning Board (PZB)
From: Jonathan Stytz, AICP, Senior Planner JS
Cc: John T. Carlisle, AICP, Director of Community and Economic Development 9
Subject: Zoning Text Amendments Regarding Accessory Structures

Issue: The petitioner is proposing the following text amendments to the Zoning Ordinance: (i) modify Sections 12-3-11 and 12-8-1.C to create separate allowances for detached parking structures based on use, provided that certain larger garages would be subject to building design requirements; (ii) modify Section 12-8-1.C to increase the maximum size for accessory structures that are not detached garages and carports (e.g., sheds, gazebos, pergolas); and (iii) modify Section 12-13-3 to revise the Accessory Structure definition to clarify the types and characteristics of the structures that are included in this definition.

## PIN: Citywide

## Petitioner:

Case Number:
Request Description:

City of Des Plaines, 1420 Miner Street, Des Plaines, IL 60016
\#23-043-TA
The City of Des Plaines is proposing amending the Zoning Ordinance to clarify regulations for detached parking structures based on use, to increase the maximum area for accessory structures except detached garages and carports, and to amend the accessory structure definition.

## Background

Chapter 8 of the Zoning Ordinance, "Accessory, Temporary, and Specific Use Regulations," was created to identify and differentiate regulations for both uses and structures that are either: (i) incidental and subordinate to a principal use or structure in the same zoning lot (e.g., detached garages and sheds); (ii) temporary in duration and construction (e.g., tents and yard sales); or (iii) are sensitive uses requiring tailored regulations (e.g., cannabis business establishments and residential care homes). The scope of the proposed amendments focus on the first of these-accessory structures-which are currently defined in Section 12-13-3 as follows:

ACCESSORY STRUCTURE: A structure which is detached from a principal structure and is located on the same zoning lot and incidental and subordinate to the principal structure. Accessory structures are characterized by having a solid roof, and include, but are not limited to, detached garages, sheds, greenhouses, and gazebos. Accessory structures may not exceed the height of the principal structure.

As identified in the definition, an accessory use is intended to be incidental to the principal use or structure served (i.e., accompanying but not a major part of the property). For example, a detached garage is incidental to a single-family residence (e.g., provides covered parking for the residents) but a garage is smaller in area and height than the residence and not occupied as much. Due to the incidental nature of accessory structures, the Zoning Ordinance does not permit the construction of an accessory structure without the prior construction of a principal use or structure. Zoning also requires that accessory structures are (i) operated and maintained under the same ownership and on the same lot, or adjoining lots, as the principal use or structure and (ii) subordinate in height, area, bulk, and location to the principal use served.

Section 12-8-1.C also identifies the general bulk regulations for accessory structures in all zoning districts with specific height, setback, location, size, and quantity restrictions. There are two main categories of accessory structures identified: (i) detached garages and carports; and (ii) other accessory structures (e.g., sheds, pergolas, gazebos, etc.). These categories share regulations related to height, setbacks/minimum distance from lot lines (with some exceptions), and location, but differ in regard to quantity of structures and size permitted. In regard to quantity, the Zoning Ordinance allows for up to two accessory structures on any property; however, only one garage (attached or detached) is permitted. In the case of a property with a detached garage or carport, one other accessory structure is permitted. In regard to size, a detached garage or carport can be up to 720 square feet in area-on all residentially zoned lots, regardless of their use-while other accessory structures are limited to 150 square feet in size.

## Accessory Structure Definition

The current accessory structure definition describes an accessory structure's incidental and subordinate relation to a principal use, how these uses are characterized (e.g., having a solid roof), and provides a nonexhaustive list of types of accessory structures (e.g., detached garages, sheds, greenhouses, and gazebos). However, the definition does not list many of the most common types of accessory structures-such as pergolas or carports-and does not fully encompass all of the characteristics of accessory structuresespecially structures such as pergolas which can have semi-open roofs-even though it is intended. As such, staff is proposing to amend the definition to clarify that both flat and semi-open roofed-structures are all classified as accessory structures. The proposed amendments also add pergolas and carports to the list of accessory structures specifically identified in the definition. While the list is still non-exhaustive and is intended to remain so, the addition of these two accessory structures helps to further clarify what is classified as an accessory structure, especially commonly-installed accessory structures such as a pergola.

## Accessory Structure Bulk Regulations

The current bulk regulations in Section 12-8-1.C appear to contemplate only (i) a single- or two-family dwelling or (ii) a non-residential lot. They do not consider the possibility for detached garages serving townhouses or multifamily. As such, staff is proposing to differentiate regulations for accessory structures based on the principal use of the property. The proposed amendments split subsection C of Section 12-8-1 into three separate portions: (i) Single-Family Residential and Two-Family Residential uses; (ii) Townhouse Residential and Multifamily Residential uses; and (iii) Non-Residential uses. In addition, some regulations are reorganized into table format.

- Single-Family Residential and Two-Family Residential Uses: Aside from one proposed change, staff intends to retain the existing bulk accessory structure regulations in Section 12-8-1.C for these types of uses given that these regulations are appropriate for lower density residential developments. The proposed change intends to increase the size allowance for accessory structures-excluding detached garages and carports - to 200 square feet. Staff's observance and attached Accessory Structure Research indicates that many pre-fabricated accessory structures like sheds, gazebos, and pergolas are greater than 150 square feet (the current size restriction) but are below 200 square feet (proposed size restriction). As such, the proposed amendments adjust the size allowance for these types of structures.
- Townhouse (Single-Family Attached) Residential and Multi-Family Residential Uses: Staff proposes to create a new subpoint and table to regulate accessory structures for higher density residential uses. The table splits accessory structures into three separate categories: (i) single-story detached garages and carports; (ii) multiple-story detached parking garages; and (iii) other accessory structures (e.g., sheds). The allowance for both single-story and multi-story garage structures provides flexibility for both existing and proposed residential developments. They also could encourage denser off-street parking designs with a smaller overall footprint than a surface lot.
- Single-Story Detached Garage or Carport Structures: The proposed height and setback regulations for a single-story detached garage or carport would mirror the existing height and setback regulations for accessory structures in Section 12-8-1.C. However, the amendments would not restrict the number of single-story detached garage and carport structures permitted on a single lot. Instead, it would restrict the collective area of all garage and carport structures on site to 25 percent of the total lot area or less. For detached garage and carport structures that exceed 720 square feet in area, the Building Design Review standards in Section 12-3-11 of the Zoning Ordinance would apply.
- Multiple-Story Detached Parking Garage Structures: Similar to single-story detached garages and carports, multiple-story detached parking garages would (i) be limited by the collective area of all multiple-story detached parking garage structures - not to exceed 25 percent of the total lot area-instead of by a specific number of structures and (ii) would also be subject to the Building Design Review standards in Section 12-3-11 of the Zoning Ordinance if in excess of 720 square feet in size. However, multiple-story detached parking garage structures would have higher minimum setback requirements than other accessory structures given their greater height allowance of 45 feet (compared to the maximum height of 15 feet for all other accessory structures including single-story-story detached garages and carports). The greater height allowance is necessary to allow a parking garage structure with multiple stories but also appropriate given that the maximum height allowance for principal structures in the R-3 Townhouse Residential district is also 45 feet. Given this height allowance, the proposed amendments would require multiple-story detached parking garages to be located behind the front building line of the principal structure and a minimum of ten feet from all other property lines in order to provide a greater separation between this structure and property lines. The amendments also set a requirement that any such garage would have to be shorter than any principal structures served to retain the spirit of an "accessory" structure.
- Other Accessory Structures: All other accessory structures-excluding detached garages and carports, so for example, sheds, pergolas, and gazebos-would follow the existing height, setback, and quantity standards in Section 12-8-1.C; the rules would be unchanged except to allow a maximum area of 200 square feet in size.
- Non-Residential Uses: Staff proposes to create a second new subpoint and table to regulate accessory structures for non-residential uses. The table setup is identical to the proposed table for the townhouse residential and multifamily residential uses with the three separate accessory structure categories-single-story-story detached garages and carports; multiple-story detached parking garages; and other accessory structures-but with two main differences. Section 12-8-1.C of the Zoning Ordinance currently has a separate section devoted to bulk regulations for detached garages and carports on lots in non-residential zoning districts, which allows for a larger detached garage or carport area based on whether the subject lot is less than 20,000 square feet in size or more. In addition, it requires said detached garage or carport structures to be setback a minimum of ten feet from all side and rear property lines. Staff intends to keep these distinctions given the varying sizes of non-residential lots throughout Des Plaines and the varying uses that operate or could operate at these locations.
- Single-Story Detached Garage or Carport Structures: The proposed bulk regulations for a single-story detached garage or carport would match the existing standards in Section 12-81.C regarding height (maximum of 15 feet), setbacks (minimum of 10 feet), and size (maximum of 920 square feet on lots 20,000 square feet or more in size and a maximum of 720 square feet on lots less than 20,000 square feet). A maximum of one single-story detached garage or carport structure would be permitted on a lot with a non-residential use to match the existing standards.
- Multiple-Story Detached Parking Garage Structures: The standards for multiple-story detached parking garage structures would match the height (maximum 45 feet), setbacks (minimum 10 feet), and size ( 25 percent of the total lot area, regardless of the specific lot size) -as proposed for townhouse residential and multi-family residential uses-but with three distinctions. The first distinction deals directly with the location of the subject lot. When located on a lot that abuts a residential zoning lot, the height of multiple-story detached parking garage cannot exceed the maximum height of the abutting residential district. For example, this type of structure located on a lot next to a R-1 Single Family Residential district would be limited to $2 \frac{1}{2}$ stories or 35 feet in height, which is the maximum height allowance in that residential district. The second distinction relates to Building Design Review Standards in Section 12-311 of the Zoning Ordinance. While the proposed amendments require that all single-story detached garages or carports and multiple-story detached parking garages in excess of 720 square feet must comply with the Building Design Review Standards, this is not a requirement for these types of structures on lots with non-residential uses. The final distinction relates to the maximum quantity allowed. A maximum of one multiple-story detached parking garage structure would be permitted on a lot with a non-residential use to match the existing standards.
- Other Accessory Structures: All other accessory structures-excluding detached garages and carports-would follow the existing height, setback, and quantity standards in Section 12-81.C, but would be allowed to be up to 200 square feet in size.


## Proposed Amendments

The full proposed amendments are attached and are summarized below:
Section 12-3-11, Building Design Review: Revise the list of activities that trigger the adherence to the Building Design standards to include certain accessory structures mentioned in Section 12-8-1.C.

Section 12-8-1, Accessory Uses and Structures: Split subsection C of this section into three portions with specific regulations in each:

- (i) Single-family Residential and Two-family Residential uses
- Indent existing bulk regulation standards; and
- Amend the maximum size allowance for accessory structures-excluding detached garages and carports-to 200 square feet.
- (ii) Townhouse Residential and Multifamily Residential
- Create new table and specific bulk regulations for three different accessory structure types: (i) single-story detached garages and carports; (ii) multiple-story detached parking garages; and (iii) other accessory structures (e.g., sheds).
- (iii) Non-residential uses
- Create new table and specific bulk regulations for three different accessory structure types: (i) single-story detached garages and carports; (ii) multiple-story detached parking garages; and (iii) other accessory structures (e.g., sheds).

Section 12-13-3, Definition of Terms: Amend the Accessory Structure definition to include structures with semi-open roofs (such as pergolas) and add additional items to the non-exhaustive list of accessory structure examples.

## Standards for Zoning Text Amendment:

The following is a discussion of standards for zoning amendments from Section 12-3-7.E of the Zoning Ordinance. The PZB may recommend the City Council approve, approve with modifications, or deny the amendments. The PZB may adopt the following rationale for how the proposed amendments would satisfy the standards, or the Board may use its own.

1. Whether the proposed amendment is consistent with the goals, objectives, and policies of the comprehensive plan, as adopted and amended from time to time by the City Council;

These amendments help clarify and expand on the bulk regulations for accessory structures throughout the City by creating separate regulations for all use categories that are tailored to the scale and intention of those uses. They also provide additional options for existing and proposed developments in regard to storage, off-street parking, and overall site design-especially in denser areas of the City-which the Comprehensive Plan intends to capitalize on to achieve better and more sustainable developments.

PZB Modifications (if any): $\qquad$
2. Whether the proposed amendment is compatible with current conditions and the overall character of existing development;

The proposed amendments allow for further flexibility for various accessory structures regardless of the lot size, use, and location. The amendments focus on promoting denser parking structures to reduce impervious coverage on lots with either residential or non-residential uses. However, they also provide additional clarification on the specific standards for accessory structures based on their type and use, which is something that the current zoning ordinance does not fully identify. The amendments are tailored to minimize impacts of storage and parking structures on neighboring properties regardless of their location.

PZB Modifications (if any):
3. Whether the proposed amendment is appropriate considering the adequacy of public facilities and services available to this subject property;

The proposed amendments would allow for additional options for both storage and parking on properties throughout the City that may require additional public facilities and services for an individual site based on their use and design. However, these amendments would still require site plan review and adherence to applicable municipal codes to ensure that any improvements are compliant and are adequately serviced.

PZB Modifications (if any):
4. Whether the proposed amendment will have an adverse effect on the value of properties throughout the jurisdiction; and

It is not anticipated that the proposed amendments will have any adverse effect on surrounding properties. Instead, the flexibility provided with these amendments encourages reinvestment in properties and can lead to new uses or improvements to existing uses that benefits the City and its residents.

PZB Modifications (if any):

## 5. Whether the proposed amendment reflects responsible standards for development and growth.

The proposed text amendments facilitate a path towards responsible standards for development and growth for all uses and properties by establishing a clear and streamlined permitting path for additional parking and storage options that promote better design of both residential and non-residential developments.

PZB Modifications (if any): $\qquad$

PZB Procedure and Recommendation: Under Section 12-3-7 of the Zoning Ordinance, the PZB has the authority to recommend that the City Council approve, approve with modifications, or deny the abovementioned amendments. The Board should clearly state any modifications so that its recommended language can be incorporated in the approving ordinance passed on to the Council, which has final authority on the proposal.

## Attachments:

Attachment 1: Accessory Structure Research ${ }^{1}$
Attachment 2: Photos of Detached Garages Serving Multifamily Development (The Parker, Park Ridge, IL) ${ }^{2}$ Attachment 3: Proposed Amendments

[^2]Analysis of Average Dimensions of Sheds, Pergolas, and Gazebos

|  |  |  |  <br> ○○ $000000000 \infty m 00000$ n 0 <br>  <br> $00000000000 \infty m 00000$ No <br>  <br>  |
| :---: | :---: | :---: | :---: |










## Accessory Structures: Proposed Amendments

Additions are bold, double-underlined. Deletions are struck through.
"Section 12-3-11: Building Design Rules
C. Applicability: Building design review plans that contain the information set forth in section 12-14-9, "Minimum Submission Requirements For Building Design Review", of this title, and any other information that may be requested by the Zoning Administrator, shall be submitted to the Department of Community and Economic Development with any development review application for the following construction or alteration activities:

1. New construction of a principal structure or certain accessory structures pursuant to

## Section 12-8-1;

"Section 12-8-1: Accessory Uses and Structures
C. The bulk standards for accessory structures shall be as set forth below:

1. Single-family detached and two-family dwelling uses:
a) The maximum height of an accessory structure shall be 15 feet.
b) The minimum front yard setback for an accessory structure shall be the front building line of the principal structure.
c) The minimum side and rear yard setbacks for an accessory structure shall be five feet. However, a detached accessory garage or carport for a residential use in the R-1 and R-2 Residential Districts may be located on the rear lot line where the rear lot line abuts an alley.
d) The maximum number of accessory structures permitted for any singlefamily or two-family dwelling use shall be two; however, there shall be no more than one garage or carport (attached or detached) per residential dwelling.
e) The maximum area of a detached garage or carport shall be 720 square feet or less. The maximum area of an accessory structure other than a detached garage or carport shall be one hundred fifty (150) $\underline{\underline{\mathbf{2 0 0}}}$ square feet or less.

Additions are bold, double-underlined. Deletions are struck through.
2. Townhouse (single-family attached) and multiple-family residential uses:

| Type | Single-Story Detached Garages and Carports | Multiple-Story Detached Parking Garages | Other Accessory Structures |
| :---: | :---: | :---: | :---: |
| Maximum height | $\underline{\underline{15} \text { feet }}$ | 45 feet; provided, however, the height must be less than all principal structures served | 15 feet |
| Minimum front yard setback | The front building line of the principal structure. | The front building line of the principal structure. | The front building line of the principal structure. |
| $\begin{array}{ll} \text { Minimum } & \text { side } \\ \text { yard setback } \end{array}$ | 5 feet | $\underline{\underline{10} \text { feet }}$ | 5 feet |
| Minimum rear yard setback | $\underline{\underline{\text { feet }}}$ | $\underline{\underline{10} \text { feet }}$ | 5 feet |
| Minimum corner side yard setback | $\underline{\underline{10} \text { feet }}$ | $\underline{\underline{10} \text { feet }}$ | $\underline{\underline{10} \text { feet }}$ |
| Maximum quantity | N/A | N/A | Two |
| Maximum size | 25\% of the total lot area; provided, however, if greater than 720 square feet, Building Design Review regulations will apply | 25\% of the total lot area; provided, however, if greater than $\mathbf{7 2 0}$ square feet, Building Design Review regulations will apply | 200 square feet |

Additions are bold, double-underlined. Deletions are struck through.
3. Non-residential uses on non-residential zoning lots

| Type | Single-Story Detached Garages and Carports | Multiple-Story Detached Parking Garages | Other Accessory Structures |
| :---: | :---: | :---: | :---: |
| Maximum height | $\underline{\underline{15} \text { feet }}$ | 45 feet; provided, however, where the zoning lot abuts a residential zoning lot, the structure may not exceed the maximum height of the abutting residential district | $\underline{\underline{15} \text { feet }}$ |
| Minimum front yard setback | The front building line of the principal structure. | The front building line of the principal structure. | The front building line of the principal structure. |
| Minimum side yard setback | $\underline{\underline{10} \text { feet }}$ | $\underline{\underline{10} \text { feet }}$ | 5 feet |
| Minimum rear yard setback | $\underline{\underline{10} \text { feet }}$ | $\underline{\underline{10} \text { feet }}$ | $\underline{\underline{5} \text { feet }}$ |
| Maximum quantity | One | One | Two |
| $\begin{aligned} & \text { Maximum size } \\ & \text { (lots less than 20,000 } \end{aligned}$ square feet in area) | $\underline{\underline{720} \text { square feet }}$ | $\underline{\underline{25 \%} \text { of the total }}$ | $\underline{\underline{200} \text { square feet }}$ |
| Maximum size <br> (lots 20,000 square feet or more in area) | 960 square feet | $\frac{25 \% \text { of the total }}{\text { lot area }}$ | $\underline{\underline{200} \text { square feet }}$ |

Additions are bold, double-underlined. Deletions are struck through.

ACCESSORY STRUCTURE: A structure which is detached from a principal structure and is located on the same zoning lot and incidental and subordinate to the principal structure. Accessory structures are characterized by having a solid or semi-open roof, and include, but are not limited to, detached garages, carports, pergolas, sheds, greenhouses, and gazebos. Accessory structures may not exceed the height of the principal structure.

*     * 


## MEMORANDUM

Date: July 21, 2023
To: Planning and Zoning Board (PZB)
From: $\quad$ Samantha Redman, Planner sce
Cc: John T. Carlisle, AICP, Director of Community and Economic Development ${ }^{T C}$
Subject: Zoning Map Amendment from C-3 to R-4 at Approximately 919 and 921 Graceland Avenue (Former Contour Saws Parking Lot)

PIN:

Petitioner:

Owner/Property
Control:

Case Number:

Ward Number: \#2, Alderman Colt Moylan
Existing Zoning: C-3, General Commercial
Surrounding Zoning: North: R-4, Central Core Residential
South: Railroad and C-3, General Commercial
East: C-3, General Commercial
West: M-2, General Manufacturing
Surrounding Land Uses: North: Multi-family residential building
South: Railroad and commercial office buildings
East: Commercial buildings
West: Former Contour Saws manufacturing building
Street Classification: Graceland Avenue is classified as a minor arterial road.

Comprehensive Plan: Industrial is the recommended use for this property.
Property/Zoning History: The property was formerly the parking lot associated with the Contour Saws manufacturing facility located to the northwest. The Contour Saws building was built in the 1960s and operated in this location until 2020. Historic aerials indicate the site has been developed as a parking lot since the early 1960s, and
the use has never changed. ${ }^{1}$ Between 1938 and 1960, zoning for the property changed from commercial to light industrial and back to the current commercial zoning. However, no commercial use has ever been associated with this property. The property is currently owned by Contour Saws and is vacant.

## Project Description:

The petitioner is Luz and Associates, which is the contract purchaser of the subject property, along with the main Contour Saws building property on the other side of Graceland. They are proposing a zoning map amendment from C3, General Commercial to R-4, Central Core Residential. The amendment would allow for a contemplated multifamily residential building at this site, one of two that are proposed for the former Contour Saws facility.

## Zoning Map Amendment Overview

The purpose of a zoning map amendment is to determine whether an existing zoning district is suitable for a location and, if not, which zoning district would be more suitable, given the context of the neighborhood, city goals, and local, state, and national development trends.

Although a specific project can be considered alongside any zoning application, zoning change deliberation often looks at a property at a larger scale within the neighborhood and city. However, a Site Plan Review, as required by Section 12-3-2, was performed for the conceptual project at this site. The Site Plan Review contributes to the overall assessment of a zoning map amendment, demonstrating the feasibility of a specific project with this zoning. Refer to the Site Plan Review section of this report and associated attachments.

## C-3 Zoning and Suitability of the Site for Proposed R-4 Zoning

The C-3, General Commercial zoning district is intended to accommodate a diversity of businesses. Out of all of the commercial districts, C-3 permits the largest number of different uses, allowing for 37 uses permitted by right (meaning no zoning entitlement process) and 28 conditional uses. A broad variety of uses are allowed, including retail, office, restaurants, and other commercial services.

However, this site has never been developed with a commercial use, despite having the most permissive commercial zoning for decades. Even with the closure of Contour Saws in 2020, the site remains an unoccupied, surface parking lot. The Comprehensive Plan envisions this area for manufacturing uses; however, the plan was written in 2019 prior to the unanticipated closure of Contour Saws in 2020.

Considering this site has never successfully been developed into a commercial use, the zoning map amendment process allows the City to determine if another type of use would be more suitable. This site is uniquely situated near many amenities and services necessary to support residential development. Few available properties exist in Des Plaines with the transit, recreational, and commercial opportunities available within walking distance, making this site an ideal location for additional residential versus commercial or manufacturing development. Within a half-mile of the property (an approximate $8-15$ minute

[^3]walk for the average person ${ }^{2}$ ), the following services are available. Refer to Amenities and Services Map attachment for further details.

| Service | Des Plaines Metra Station platform; Pace <br> Bus Stops for Lines 226, 230, and 250, <br> and PULSE |
| :--- | :--- |
| Transit | Restaurants, retail/personal services <br> including dentist, optometrist, urgent care, <br> private gym, and salons |
| Downtown Commercial Area |  |
| Schools (private and public) | Central Elementary School, Willows <br> Academy, Little Bulgarian School, <br> Islamic City Center of Des Plaines <br> Academy |
| Parks | Centennial Park, Central Park, Paroubeck <br> Park, Potowatomie Park |
| Public Buildings | Library, City Hall |

A change to the zoning would be necessary to allow residential uses on this property. No new residential uses are permitted within the C-3 zoning district in this location. An analysis of the various options for residential zoning districts is necessary to determine what is best suited for this site. Below is a table of residential zoning districts and the residential uses permitted within them.

| Residential Districts Use Matrix |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Use | $\boldsymbol{R}-\mathbf{1}$ | $\boldsymbol{R}-\mathbf{2}$ | $\boldsymbol{R} \mathbf{- 3}$ | $\boldsymbol{R}-\mathbf{4}$ |
| Single Family Detached | P | $\mathrm{C}^{*}$ | $\mathrm{C}^{*}$ | $\mathrm{C}^{*}$ |
| Townhouse | Not <br> permitted | Not <br> permitted | P | P |
| Two-family (duplex) | Not <br> permitted | P | Not <br> permitted | Not <br> permitted |
| Multi-Family | Not <br> permitted | Not <br> permitted | P | P |

[^4][^5]The R-3, Townhouse Residential and R-4, Central Core Residential districts provide the option to increase the number of units on this parcel without requiring subdivision. Comparatively, a townhouse or multi-family development would supply a greater number of units in the same amount of space, creating a more efficient and economical option for this location. The main difference between the R-3 and R-4 districts are the bulk standards. The table below provides a comparison.

| R-3 Versus R-4 Bulk Standards |  |  |
| :---: | :---: | :---: |
| Bulk Controls | R-3 | R-4 |
| Maximum height | 45 ft | 80 ft |
| Minimum front yard | 25 ft | 12 ft |
| Minimum side yard | Buildings 35 ft . and under: 5 ft . Over 35 ft : 10 ft . | Buildings 35 ft . and under: 5 ft . Over 35 ft : 10 ft . |
| Minimum rear yard | Buildings 35 ft . and under: 25 ft . or $20 \%$ of lot depth, whichever is less <br> Buildings over 35 ft : 30 ft. | Buildings 40 ft . and under: 25 ft . or $20 \%$ of lot depth, whichever is less Buildings over 40 $\mathrm{ft} .: 25 \mathrm{ft}$., plus 2 ft . for every 10 ft . over 40 ft . |
| Minimum lot width | 45 ft . | 45 ft . |
| Minimum lot area | 2800 sq. ft. per dwelling unit | $\begin{aligned} & 40,700 \text { sq. ft (. } 93 \\ & \text { acres). }{ }^{1} \end{aligned}$ |

1. The minimum lot area for a zoning lot in the "R-4 Central Core Residential District" shall be either 10,000 square feet or shall be determined by the total sum of the required minimum lot area of each dwelling unit on the zoning lot in accordance with the table in Section 12-7-2.J.

R-3 and R-4 zoning districts both allow for multifamily residential development. However, R-3 requires 2,800 square feet of space per dwelling unit, allowing a maximum of 19 units on this 53,731-square-foot (1.23-acre) property. Compared to R-3, the R-4 district allows for a significantly larger number of residential units, requiring smaller lot areas per unit and allowing for a taller building.

## Demographic Trends and Accommodating an Aging Population

The existing housing stock throughout the city is predominantly single-family residential and the Comprehensive Plan states it is a goal to maintain this stock of high-quality single family residential property within the city. However, the detached single family housing type is an increasingly unaffordable product for many existing and future residents. In comparison, townhouses and multifamily provide additional housing stock at a more financially attainable scale due to the smaller size and reduced maintenance cost.

An important goal of 2019 Comprehensive Plan is providing avenues to allow residents to age-in-place and improve accessibility. As of 2015, the percentage of Des Plaines residents 50 or older was $40.2 \%$, compared to the regional average of $31.4 \% .^{3}$ According to the U.S. Census Bureau, this percentage is likely to grow, with one in five Americans at retirement age by 2030. ${ }^{4}$ Households approaching retirement are frequently interested in downsizing to limit maintenance costs and reduce monthly housing costs to meet limitations of fixed incomes. Supplying a diverse housing stock in this area provides the option for seniors to continue living within the city. A residential development in this location would be close enough to facilities and services for an aging population to independently complete activities of daily living, with many amenities available within walking or transit distance.

In terms of accessibility, it is relevant to note that multifamily housing developments, either private or public, with four or more units are required to meet accessibility requirements outlined in the Fair Housing Act. ${ }^{5}$ This includes provisions requiring certain units to have accessible access, routes, and usable private and common spaces for individuals with disabilities. Note buildings separated by a firewall, such as townhouses, are not subject to these accessibility requirements. ${ }^{6}$ Additionally, the International Building Code (IBC) requires buildings of a certain size to have at least one elevator and it must be able to accommodate an ambulance stretcher (IBC 2015 Section 3002.4). Overall, multi-family residential developments over a certain size versus single-family detached or attached residences provide a greater likelihood of providing the accessibility needs of an aging population and provide additional housing opportunities for individuals with disabilities regardless of age.

With these considerations regarding the location of the property near other R-4 zoned, multi-family properties, the proximity to numerous private and public services, and the goals of the Comprehensive Plan focused on providing diversity of housing stock and providing accessible options for residents, senior or otherwise, the R-4 zoning district is a suitable fit for this property.

[^6]
## Site Plan Review

## Proposed Project Overview

The petitioner proposes a four story, 56-unit multi-family residential development and associated parking lot and private park space. Note the proposed development is one of two for the former Contour Saws properties; the site to the north will be reviewed and considered as a separate application.

This type of development is a permitted use in the proposed R-4 Central Core Residential district if it follows all bulk regulations and other standards. The below diagram illustrates staff's interpretation of where the required yards are located for this property, as noted in Section 12-7-2 and defined in Section 12-13-3.


The table on the following page compares the R-4 district regulations with the proposed development on the subject property.

| R-4 -Central Core Residential District Bulk Standards |  |  |
| :--- | :---: | :---: |
| Bulk Controls | Required | Proposed |
| Maximum height | $80 \mathrm{ft} .^{1}$ | 48 ft. |
| Minimum front yard | 12 ft. | 15 ft. |
| Minimum side yard | 5 ft. | 5 ft. |
| Minimum rear yard | 25 ft. | $25 \mathrm{ft}{ }^{1}$ |
| Minimum lot width | $50 \mathrm{ft}$. |  |
| Minimum lot area | 40,700 sq. $\mathrm{ft}{ }^{2}$ <br> (refer to Footnote 2 and associated <br> table below) | $53,731.42 \mathrm{sq}. \mathrm{ft}$. |

Note:

1. Off-street parking spaces are permitted to be located in any required yard, including the rear yard, per Section 12-9-6.C.
2. The minimum lot area for a zoning lot in the "R-4 Central Core Residential District" shall be either 10,000 square feet or shall be determined by the total sum of the required minimum lot area of each dwelling unit on the zoning lot in accordance with the following table, whichever is greater:

| Number Of Bedrooms | Minimum Lot Area (Square Feet) |
| :---: | :---: |
| Efficiency dwelling unit | 600 |
| 1 bedroom | 700 sq. ft. minimum required lot area <br> 41 units proposed <br> $=$ <br> $28,700 \mathrm{sq}$. ft. of lot area required |
| 2 bedrooms | 800 sq. ft. minimum required lot area 15 units <br> $=$ <br> $12,000 \mathrm{sq}$. ft. of lot area required |
| Total Required Lot Area: | $40,700 \mathrm{sq} \mathrm{ft}$ |

## Site Plan Review Standards

Pursuant to Section 12-3-7.D. 2 of the Zoning Ordinance, a Site Plan Review is required for all map amendment requests to assess how the request meets the characteristics identified in Section 12-3-2, which are listed below along with staff's assessment of each in relation to the current Site Plan provided by the petitioner, located in the Site Plan attachment.

Note many of the provided plans include an entrance/exit from the alley. However, the developer has chosen to remove this proposed driveway in favor of one entrance entering and exiting. The Site Plan attachment provides the most up to date plan; this plan was used to complete the Site Plan Review below. All other updated plans, including an updated traffic study, will be provided with any future Planning and Zoning Board and City Council packets and will be uploaded onto the desplaines.org/contourplace when available.

| Site Plan Review |  |
| :---: | :---: |
| Item | Analysis (based on Proposal) |
| The arrangement of structures on the site | - Places the building along the street frontage rather than the parking lot. By placing a building along a street rather than the parking lot, the design presents better cohesion with the buildings surrounding it by placing the building at approximately the same distance from the property line as adjacent multi-family buildings. <br> - A more efficient design would involve the placement of parking in a parking garage underneath the building, rather than surface parking. However, it is unknown the expense and the impact on economic viability for this project if this site design change were required. Taking into consideration the current use (vacant surface parking lot), the proposed development provides a substantially more efficient use of the property. |
| The arrangement of open space and landscape improvements | - Landscaping is provided around the building in excess of requirements along the front yard and perimeter parking lot landscaping meets zoning requirements. In addition, a private park space is proposed, as noted on the plans. Refer to Landscape Plan attachment. <br> - Staff advises the movement of the shade tree shown on the landscape plan from the corner between Oakwood Avenue and the alley to improve visibility for vehicles and pedestrians entering and exiting the driveway. The tree will need to be located elsewhere on the property and staff will confirm the landscape plan includes the required amount of parking lot landscaping at time of building permit. |


| The adequacy of the <br> proposed circulation <br> system on the site | Curb cut closed onto Graceland, pushing traffic to <br> Oakwood Ave. and the alley. The traffic study <br> provided with this application demonstrates that <br> proposed traffic will not have a significant impact <br> on the area roadways. It is important to note the <br> existing parking lot includes over one hundred <br> parking spaces and the Contour Saws facility <br> likely generated a greater amount of traffic for <br> employees and deliveries than proposed with this <br> residential development. The Board may seek to <br> ask the petitioner if they anticipate any significant <br> changes to traffic with the updated site plan <br> (eliminating the entrance/exit of the parking lot |
| :--- | :--- |
| into the alley) not reflected in the traffic impact |  |
| study. |  |


| The adequacy of the proposed landscaping design on the site | - All required landscaping in terms of perimeter and interior parking lot landscaping and landscaping of required yards is fulfilled. <br> - Private park space provided in the southwestern area of the property with accessible walking path to the building and from Oakwood Ave. |
| :---: | :---: |
| The design, location, and installation of proposed site illumination | - Photometric plan demonstrates conformance with Section 12-12-10, with no more than 0.2 foot candles spilling over the property line in any location, well within the limits of the zoning ordinance. <br> - The parking lot is properly illuminated, with at least 0.1 footcandles in any parking area, meeting requirements of Section 12-9-6.G. |
| The correlation of the proposed site plan with adopted land use policies, goals, and objectives of the comp. plan | - Does not fit the manufacturing use illustrated by the Comprehensive Plan; however, the 2019 plan was written on the assumption that the Contour Saw facility will continue operating. <br> - The proposed plan supports the following goals (refer to "Demographic Trends and Accommodating an Aging Population" and "C-3 Zoning and Suitability of the Site for Proposed R-4 Zoning" sections of this report for further details): <br> o Goal 4.1. Ensure the City has several housing options to fit diverse needs. <br> o Goal 4.3 Provide new housing at different price points <br> o Goal 4.5 - Plan for and identify policies and tools that ensure accessibility <br> - In addition to housing goals, the proposed development meets economic goals of the city by providing additional property tax revenue compared to the existing use of the site. Refer to the Tax Projections attachment. |


#### Abstract

Summary of Public Outreach In an effort to improve community engagement and transparency surrounding new, large developments within Des Plaines, the City provided numerous opportunities for residents to review the proposal and provide input. To provide regular project updates, a webpage on the city website was created: desplaines.org/contourplace. On June 6, 2023, the Planning and Zoning Board hosted a public workshop to provide the developer, board, and the public an opportunity to review plans and provide input into the proposed development at this location and the former Contour Saws facility to the north of this property. After this meeting, the project webpage was updated to include a public input form to continue gathering community comments on the plans. Refer to Public Comment attachment for all public comments.


## Standards for Zoning Map Amendment:

The following is a discussion of standards for zoning map amendments from Section 12-3-7.E of the Zoning Ordinance. Rationale for how well the proposal addresses the standards is provided below and in the attached petitioner responses to standards. The Board may use the provided responses as written as its rationale, modify, or adopt its own.

## 1. Whether the proposed amendment is consistent with the goals, objectives, and policies of the comprehensive plan, as adopted and amended from time to time by the City Council;

The Comprehensive Plan was written in 2019 when the Contour Saws facility was still operating. Due to the manufacturing facility's longstanding operations in Des Plaines, the Comprehensive Plan did not envision this area to be used for anything else. However, the proposed amendment and development would meet several goals from the Housing chapter of the Comprehensive Plan, including: Goal 4.1. Ensure the City has several housing options to fit diverse needs; Goal 4.3 Provide new housing at different price points; and Goal 4.5 Plan for and identify policies and tools that ensure accessibility. Refer to "Demographic Trends and Accommodating an Aging Population" and "C-3 Zoning and Suitability of the Site for Proposed R-4 Zoning" sections of this report for further details. In addition to housing goals, the proposed development meets economic goals of the city by providing additional property tax revenue compared to the existing use of the site. Refer to the Tax Projections attachment.

PZB Modifications (if any): $\qquad$

## 2. Whether the proposed amendment is compatible with current conditions and the overall character of existing development;

The subject property is adjacent to R-4 zoning to the north and is close to several similar multifamily developments. The area is in close proximity to numerous services within walking, biking or transit distance, Refer to Amenities and Services Map attachment. Any proposed development would need to meet all building material and design requirements outlined in Section 12-3-11 - Building Design Review, including requirements for face brick which will be similar in design to the adjacent multi-family residential buildings in this neighborhood.

PZB Modifications (if any):
3. Whether the proposed amendment is appropriate considering the adequacy of public facilities and services available to this subject property;
An engineering and utility plan was prepared with this application. Based on the provided site plan, City engineering staff did not indicate any concerns with the adequacy of public facilities or services being available to meet the needs of this proposed development.

A traffic impact study was provided with this application to assess impacts of the proposed development (Refer to Traffic Study attachment). The study indicated the traffic generated by this use would not create a significant impact on the surrounding street network. The Board may seek to ask the petitioner if they anticipate any significant changes to traffic with the updated site plan (eliminating the entrance/exit of the parking lot into the alley) not reflected in the traffic impact study.

It is important to note the previous use of this property was an employee parking lot with over one hundred parking spaces, while the proposed residential development provides 65 parking spaces as well as a loading and unloading zone. At minimum, this development brings less potential for vehicles to be travelling in and out of the site at peak hours versus one hundred employees of a manufacturing facility. Parking meets the off-street parking requirements of Section 12-9-7, providing 65 spaces which is in excess of the minimum required amount.

PZB Modifications (if any):
4. Whether the proposed amendment will have an adverse effect on the value of properties throughout the jurisdiction; and

The proposed map amendment would allow for residential uses on a property that has been zoned commercial for decades and, throughout its history, existed as a surface parking lot for employees of a now closed manufacturing facility. A building that provides additional residential options for the area and required to follow the Building Design Standards outlined in the Zoning Ordinance creates a more appealing urban design for the neighborhood versus an unoccupied surface parking lot.

PZB Modifications (if any):
5. Whether the proposed amendment reflects responsible standards for development and growth.

The current use of this property is a surface parking lot for a manufacturing use that is unlikely to be filled with another similar manufacturing business. Despite the commercial zoning, the property has remained unimproved for several years, and remains vacant and in disrepair. Providing a residential use for the property, particularly a use that capitalizes on the close proximity to downtown Des Plaines and the various amenities associated with the area, would present a more efficient and useful way to use this property. As discussed in the Demographic Trends and Accommodating an Aging Population section, the City needs to promote opportunities that increase housing stock for a diversity of populations in the area, both in the short term and long term. Amending the zoning district for this property, regardless of the proposed project, provides an additional opportunity to construct a multifamily development in an area with similar residences and with the necessary services to support this type of use.

PZB Modifications (if any):

PZB Procedure and Recommended Conditions: Under Section 12-3-7.D (Procedure for Review and Decision for Amendments) of the Zoning Ordinance, the PZB has the authority to recommend that the City Council approve, approve subject to conditions, or deny the above-mentioned zoning map amendment. City Council has final authority on the proposal.

Consideration of the request should be based on a review of the information presented by the applicant and the findings made above, as specified in Section 12-3-7.E (Standards for Amendments) of the Zoning Ordinance. If the PZB recommends and City Council ultimately approves the request, staff recommends the following conditions.

## Attachments:

Attachment 1: Location Map
Attachment 2: Site and Context Photos
Attachment 3: Project Narrative and Responses to Standards
Attachment 4: Amenities and Services Map
Attachment 5: Plat of Survey
Attachment 6: Site Plan
Attachment 7: Architectural Plans and Site Plan
Attachment 8: Landscape Plans
Attachment 9: Engineering Plans
Attachment 10: Photometric Plan
Attachment 11: Traffic Impact Study
Attachment 12: Property Tax Projections
Attachment 13: Public Comments

## GISConsortium




Public Notice Sign 1, facing property northeast


View of existing parking lot facing alley to northeast; degraded pavement
Attachment 2


Public Notice Sign 2, facing property southeast


View of parking lot and adjacement multifamily development as well as existing Contour Saw facility facing northwest

# Graceland and Thacker Development East Side of Graceland Avenue (Site B) 


#### Abstract

NARRATIVE

The subject property contains approximately $53,472 \mathrm{sq}$. ft . of land and is improved with a surface parking lot with approximately 145 spaces. The exiting parking lot has no landscaping and was used in connection with Contours Saw, Inc.'s operations at the site across Graceland from the parking lot. The property is currently zoned C-3.

The Applicant for the rezoning proposes to redevelop the property with a four-story building containing 56 residential units, comprised of 41 one-bedroom units and 15 two-bedroom units. Sixty-four surface parking spaces will be located on-site, including three ADA spaces and two EV spaces. The proposed building's height will be 50 feet. Drop-off/Loading Zone will be provided adjacent to the proposed building's front door. The parking lot will be accessed via two driveways, one accessed from the 20 ft . public alley immediately adjacent to the rear of the site and a second from Oakwood Avenue. The façade materials will be primarily face brick, with fiber cement panels used on some sections.


ACOSTA EZGUR, LLC
1030 West Chicago Avenue, Third Floor - Chicago, Illinois 60642 - 312-327-3350 o - 312-327-3315 f

## STANDARDS FOR MAP AMENDMENTS

1. The proposed amendment is consistent with the goals, objectives, and policies of the comprehensive plan, as adopted February 2019.

The proposed rezoning will allow for the construction of multi-family housing near multi-modal facilities and Downtown, as the subject site is approximately five blocks from the Miner St. Metra Station and Downtown. It also will promote the development of multi-family units that would increase the housing diversity and provide housing for individuals and couples, and also aging residents that seek to continue an independent lifestyle while minimizing maintenance and ownership obligations. In addition, the supply of additional housing will assist in decreasing affordability concerns due to increased supply.
2. The proposed amendment is compatible with current conditions and the overall character of existing development in the immediate vicinity of the subject property.

The subject property is adjacent to an R-4 district to the north that extends north along Graceland and is generally developed with three, four and five-story multi-family buildings.
3. The proposed amendment is appropriate considering the adequacy of public facilities and services available to this subject property.

There are sufficient public facilities in terms of utilities to accommodate R-4 development, with stormwater detention being required for new developments per the Des Plaines municipal code. The existing streets can accommodate the anticipated traffic, which traffic may also be reduced due to the proximity of public transportation via Metra, the existing bike corridor along Thacker and the proposed bike corridor along Graceland. In terms of public open space, Central Park is located approximately three blocks east.
4. The proposed amendment will not have an adverse effect on the value of properties throughout the jurisdiction.

Because the proposed amendment will allow for development of multi-family residential of a scale compatible with adjacent properties and in a location where sufficient public facilities exist and resulting traffic can be accommodated, it will not have an adverse impact on property values within the City. In addition, the increase in tax base will help alleviate future tax increases on other properties and the increased
resident population will support existing area businesses, both of which will positively impact the property value of other properties.
5. The proposed amendment reflects responsible standards for development and growth.

The proposed amendment is consistent with responsible standard for development and growth by promoting increase density at a location where it can be accommodated that is proximate to public transit and non-vehicular travel paths, such as bike corridors. It increases the utilization of existing municipal infrastructure without taxing such infrastructure and does so while enhancing the municipal tax base.

## REAL PROPERTY TAX BASE IMPACT

The 2021 real property taxes for the property were $\$ 43,958.09$. The anticipated real property taxes for the property after completion and occupancy of the proposed development will be \$224,000 (2023 dollars).






Owner/Developer:
Luz and Associates \#1 LLC
Architect:
Graceland and Oakwood
Des Plaines, Illinois
Issued for PZB Hearing | July 18, 2023 Attachment 7


Zoning Map \& Location Map

## FitzGerald

| Gross Floor Area Dwelling Area | = 14,537 sf per floor |
| :---: | :---: |
|  | = 9,090 sf per floor |
| Per Floor: |  |
| Resi | Units |
| Ratio | Count |
| 2 Br 27\% | 3 |
| 1 Br 73\% | 8 |
| Total | 11 |



Levels 2-4 Plan



southeast elevation

$50^{\circ}=0$

-


NORTHWEST ELEVATION



Materials










$$
\begin{gathered}
\text { Graceland and Thacker Development - Site B } \\
\text { Tax Estimate* }
\end{gathered}
$$

Ellison Apartments, Des Plaines: $\$ 5,300$ per unit current taxes. Reduced to $\$ 4,240$ to reflect differences between the Ellison and the Graceland/Thacker Development.

Monarch Apartments, Des Plaines: $\$ 5,144$ per unit. Reduced $\$ 4,115$ per unit for subject site to reflect project differences.

Northgate Apartments, Wheeling: \$4,248 per unit, no reduction as fairly comparable.

Subject Site: $\$ 4,500$ per unit; translating to $\$ 252,000$ for the site. This would be an increase of $\$ 208,000$ over the current $\$ 43,957$ in taxes.

[^7]
## Public Comment Card Contour Place Workshop

Which site concept(s) are you commenting on? Check one
A $\square$
B $\square$ Both
D

What comments or questions do you have on proposed Site or Building


What comments or questions do you have on Neighborhood Impact from this project?


Be No major imposer.
wail IMProve the oversu

How often have you been near or by this property (within approx. three
blocks) in the past six months?
Daily Weekly $\square$ Monthly $\square \quad$ Not Regularly $\quad \square$

## General Comments/Questions



## Public Comment Card Contour Place Workshop

Which site concepts) are you commenting on? Check one
A $\square$
B $\quad \square$
Both


What comments or questions do you have on proposed Site or Building
Design? issues. Glad to see attrachive development.

What comments or questions do you have on Neighborhood Impact from this project?


How often have you been near or by this property (within approx. three blocks) in the past six months?


General Comments/Questions

$\qquad$
$\qquad$
$\qquad$

## DIS <br> PLANES <br> ILLINOiS

## Public Comment Card Contour Place Workshop

Which site concepts) are you commenting on? Check one
A
B $\square$ Both
X

What comments or questions do you have on proposed Site or Building
Design?
hooks like just another big box - More Brick, not cementuttevs siding - .

What comments or questions do you have on Neighborhood Impact from
this project?


## General Comments/Questions



## Public Comment Card Contour Place Workshop

Which site concepts) are you commenting on? Check one
A $\square$
B
Both
8

What comments or questions do you have on proposed Site or Building

## Design?

The latest trend of ugly architecture!
$\qquad$
$\qquad$

What comments or questions do you have on Neighborhood Impact from this project?
Terrible impact!

How often have you been near or by this property (within approx. three blocks) in the past six months?
Daily $\square$ Weekly $\square$ Monthly $\square$ Not Regularly $\square$

## General Comments/Questlons

Bes Plaines does not need more rental buildings, cheaply constructed and possibly turned into low-
$\qquad$
$\qquad$

## Public Comment Card Contour Place Workshop

Which site concepts) are you commenting on? Check one
A $\square$
B
Both

What comments or questions do you have on proposed Site or Building Design? cannot They Look For
Why
AnOtHER COMmERICALL BuhR
SuchAs, BETALL STOKES

What comments or questions do you have on Neighborhood Impact from this project?


How often have you been near or by this property (within approx. three blocks) in the past six months?
Daily $\square$ Weekly $\square$ Monthly $\square \quad$ Not Regularly $\quad \square$

## General Comments/Questions


$\qquad$
$\qquad$

## Public Comment Card Contour Place Workshop

Which site concepts) are you commenting on? Check one
A $\square$

BBoth


What comments or questions do you have on proposed Site or Building


What comments or questions do you have on Neighborhood Impact from


How often have you been near or by this property (within approx. three blocks) in the past six months?


General Comments/Questions


## Public Comment Card Contour Place Workshop

Which site concepts) are you commenting on? Check one
AB $\square$ Both

What comments or questions do you have on proposed Site or Building

## Design?

winy mode Abarmuris? why nor Causes Oe Townsomes?
 City, Not TRAnsient TEnants

What comments or questions do you have on Neighborhood Impact from this project?
 which express ~ 200 sTughats Drily. Deal Dits oo Lias Tillman True kalantonhood. The TRACt Impact of The whedine 622 lenncubnng, Twa Scatoor,

How often have you been near or by this property (within approx. three blocks) in the past six month $\$$ ?
Daily


Monthly $\square$ Not Regularly

## General Comments/Questions

And Nowthis win bu Siumfichnt
This wis A Complatacy inatactiva any to


So tans everyone conn WaAl

## Public Comment Card Contour Place Workshop

Which site concepts) are you commenting on? Check one
A


B $\square$ Both $\square$

What comments or questions do you have on proposed Site or Building

## Design?

Parking Area
Move the garages closer corners instead of having multi ple entrances.
Put land parking in the middle What comments or questions do you have on Neighborhood Impact from
this project?
Entering है ExISTING Graceland is onewaystreet don't need to give an option toturn the wrong way:
How often have you been near or by this property (within approx. three blocks) in the past six months?
Daily $\square$


Monthly $\square$ Not Regularly $\square$

## General Comments/Questions



## Public Comment Card Contour Place Workshop

Which site concepts) are you commenting on? Check one
A
B
Both


What comments or questions do you have on proposed Site or Building

## Design?



What comments or questions do you have on Neighborhood Impact from this project?
 currently $r$ comury soon. Pleces consider condos.

How often have you been near or by this property (within approx. three blocks) in the past six months?

Daily $\square$ Weekly MonthlyNot Regularly

## General Comments/Questions



## Public Comment Card Contour Place Workshop

Which site concept(s) are you commenting on? Check one
A $\square$
B $\square$
Both
X

What comments or questions do you have on proposed Site or Building Design?
$\qquad$
$\qquad$
$\qquad$

What comments or questions do you have on Neighborhood Impact from this project?
(1) APPEANS TO BE SIMILAR USE TYRT TO other ExisTing pROPERTIES
(2) WHAT IS * OF DWELLIGS NNTTS/ACRE FOU TMIC SITE AND ExISTIelद AOJACENT STIE

How often have you been near or by this property (within approx. three blocks) in the past six months?
Daily $\square$ Weekly $\square$ Monthly X Not Regularly

## General Comments/Questions

(1) How monty GUES? PAREMIG SPACES ARE PRONDRED
(2) PERCEHT of IM PERVIULIS CONERAEE; WHERE WII STORM WATER DETEAITIU! BE PRODDED


## Public Comment Card Contour Place Workshop

Which site concepts) are you commenting on? Check one
A X
B Both

What comments or questions do you have on proposed Site or Building

blocks) in the past six months?
Daily $\square$ Weekly $\square$ Monthly $\square \quad$ Not Regularly $\quad \square$


## Samantha Redman

| From: | Maureen Stern |
| :--- | :--- |
| Sent: | Friday, June 9, 2023 10:28 AM |
| To: | Samantha Redman; John Carlisle |
| Subject: | FW: Feedback for Des Plaines, IL |

This came in through the feedback button on the website.
See below.

From: Media Services [media@desplaines.org](mailto:media@desplaines.org)
Sent: Friday, June 9, 2023 10:24 AM
To: Maureen Stern [mstern@desplaines.org](mailto:mstern@desplaines.org)
Subject: FW: Feedback for Des Plaines, IL

From: Des Plaines, IL [media@desplaines.org](mailto:media@desplaines.org)
Sent: Friday, June 9, 2023 10:23:44 AM (UTC-06:00) Central Time (US \& Canada)
To: Media Services [media@desplaines.org](mailto:media@desplaines.org)
Subject: Feedback for Des Plaines, IL

https://www.desplaines.org/access-your-government/boards-and-commissions/planning-and-zoning-board
My concern is the development of the saw company at Thacker and Graceland. I attended the meeting on June 6. I don't think the city realizes the total picture. I would like to see another meeting set with more notice given to residents in the area. There are more residents who were not advised in writing who do not have the Des Plaines internet access We don't need more apts especially if they accept vouchers. The complex will be mostly vouchers. . parking is not adequate now. The argument that most potential renters will not have cars is unrealistic. There is nothing close by a car will be necessary for shopping. Argument that it is close to the train is unrealistic. Most young people work from home and the walk to the train is not that convenient especially in bad weather . I did it for 10 years. There is nothing in Des Plaines close by to entice young people to live here. There were board members that get it. The demeanor of one disappointinglike he didn't care I neglected to get names unfortunately. I remember faces Shame Des Plaines headed in wrong direction with apts

## From:

Sent:
To:
Cc:

Subject:
Attachments:

Tuesday, June 13, 2023 3:48 PM
Andrew Goczkowski; Jessica Mastalski; Mark Lysakowski; Colt Moylan; Sean Oskerka
Samantha Redman; Dick Sayad; Carla Brookman; mwalster@desplaines.org; Patricia Smith; Mike
Charewicz; jcatallano@desplaines.org; rfowler@desplaines.org; Rhoferr@desplaines.org;
psaletnik@desplaines.org; Jszabo@desplaines.org; Cveremis@desplaines.org; tweaver@desplaines.org; Joanne Mendoza
Fw: Graceland and Thacker -- Maybe Someone will respond IMG_6425.PNG

Good Afternoon $\qquad$ .I am writing this for myself, and other residents in the area. I have not gotten one response regarding previous emails. Very disappointing.

I can only hope this development is for reconsideration. There is no parking. Not a good location for apartments, especially since the new downtown apartments are not even rented. Knowing how the drill is, this complex will become low income housing which will destroy Des Plaines. Common sense would tell you this. I'd like to see Des Plaines work harder to build up retail, rather than apartments. All of us would. I take advantage of At7 and the Theatre.

There is not enough retail around to even entice people to live here. I have to drive outside of Des Plaines for most shopping.

Developer's arguments:
Young people want to live near the train. Downtown Des Plaines is different and they can't even rent those apartments close by. This is not Downtown Chicago where everything is in walking distance (restaurants, stores, drug stores, etc.) I traveled over 10 years to the train from this location, and during bad weather - not an easy hike. Even as he says young people don't need cars, there is no shopping convenient here. THEY WILL NEED CARS -- and the parking situation. Parking is limited in this location as it is.

He is never going to get the high rents he thinks he is - very delusional thinking. $\qquad$ So lower the rents and accept vouchers. I'm beginning to think that's the plan

## DO NOT APPROVE THEIR BUILDING PLANS

Redraw the plans of the building Push back the building so there is a parking lot in front of the proposed building on Graceland.
Make the building residents 50 years and older -- there are more elderly people who would be interested Do condos/townhouses - people who would have more of a personal stake in Des Plaines.
But, I'm not hopeful as from experience (I worked for attorneys and a lobbyist), and usually by the time residents are notified - too late. Just like the Journal site (more apartments) I hope Des Plaines wakes up.

I would like information to pass on to the residents in the area.
----- Forwarded Message -----

Cc: "dsayad@desplaines.og" [dsayad@desplaines.og](mailto:dsayad@desplaines.og)
Sent: Friday, June 9, 2023 at 12:49:13 PM CDT
Subject: Graceland and Thacker

## Good Afternoon

I sent the following email. FYI

You can see how upset some of us are about this development and the ramifications that are in the future It's not a good location with the arguments the developer had didn't fly

I'm not sure if you were at the meeting. Missed introductions if there were any.
I don't think residents given enough time to understand I had reached out awhile back to someone in Des Plaines. Never got a reply.

I hope you can do something More rentals Not a good thing for Des Plaines. Hoping city wakes up
Condos/townhomes would be
Mr Sayad - I think you were at this meeting ?
Thank you

Sent from my iPhone

| From: | Des Plaines, IL [media@desplaines.org](mailto:media@desplaines.org) |
| :--- | :--- |
| Sent: | Tuesday, June 20, 2023 9:58 AM |
| To: | Samantha Redman |
| Subject: | *NEW SUBMISSION* Contour Place Public Input |

## Contour Place Public Input

Submission \#: 2513920
IP Address: 149.75.158.58
Submission Date: 06/20/2023 9:57
Survey Time: 3 minutes, 29 seconds

You have a new online form submission.
Note: all answers displaying "*****" are marked as sensitive and must be viewed after your login.

## Read-Only Content

## Section Break

Which site concept(s) are you commenting on?

## Both

What comments or questions do you have on the proposed Site or Building Design
please ignore the NIMBYs and permit this and all other residential housing projects.
What comments or questions do you have on Neighborhood Impact from this project?
Des Plaines is great am I am excited to share it with more people
How often have you been near or by this property (within approx. three blocks) in the past six months?
Daily

## General Comments/Questions

I encourage displays to approve this and all residential building projects. there are a couple of NIMBYs running around the neighborhood complaining about this and I think you should ignore them. building more housing will help. Des Plaines and make it a more robust and vibrant community. I live very close to the site, and I look forward to new neighbors. Nick Hantel 719 Laurel Ave

## Email (optional)

## Read-Only Content

Thank you,
Des Plaines, IL

This is an automated message generated by Granicus. Please do not reply directly to this email.

## Samantha Redman

## From:

Sent: Tuesday, June 20, 2023 10:01 AM
To: Andrew Goczkowski; Jessica Mastalski; Mark Lysakowski; Colt Moylan; Sean Oskerka
Cc: Samantha Redman; Dick Sayad; Carla Brookman; mwalster@desplaines.org; Patricia Smith; Mike
Charewicz; jcatallano@desplaines.org; rfowler@desplaines.org; Rhoferr@desplaines.org;
psaletnik@desplaines.org; Jszabo@desplaines.org; Cveremis@desplaines.org;
tweaver@desplaines.org; Joanne Mendoza
Subject:
Re: Graceland and Thacker

I was at the city council meeting last night. I didn't expect to be able to speak. I wasn't prepared and left out my main concern about so many rentals in Des Plaines. This email is repetitive to my original email below.

Also I'm speaking for residents in the area. Not just myself

I dread that Des Plaines is going down this path. I think in the long run federal aid (we are not stupid people who don't realize this is behind all this) given to the city for these so called rentals will not be worth it in the end. Build condos or townhouses where people will have a personal and financial stake in their property

I had asked the developer at the June 6 meeting about what happens when these apts cannot be rented. $\qquad$ .asked about vouchers. He then stated they cannot turn away voucher requests. This development will end up be low income housing.

With the huge rental buildings downtown and the Webford project (more apts) Des Plaines will end up being a disaster down the road

I'd like to see more retail. I have a granddaughter who I would love to take downtown and see shops catered to kids......not high end stores. There are a lot of kids in Des Plaines Choo Choo is one option but shame it's so small. Sometimes you can't get in.

I think you are making a mistake not agreeing to that gentleman's proposal re snack shop whatever. ....even if not a sit down restaurant. Des Plaines is not a high end city. Seems you lost many opportunities with these restaurants going other places. A good hamburger place would have been great

You made a big mistake about the dispensary. If In the right location downtown you lost a lot of money. There are a lot of people who have medical cards and recreation Now Give their money to Niles and Rosemont

Below is my original email sent to as many people I could find. I hope Mr Mendoza forwarded it to the zoning board. No one could give me any contact information for the Board

Could someone confirm date of the next zoning meeting. We were told June 25 .....which is a Sunday
Thank you for your consideration

Sent from Yahoo Mail for iPhone

Good Afternoon..........I am writing this for myself, and other residents in the area. I have not gotten one response regarding previous emails. Very disappointing.

I can only hope this development is for reconsideration. There is no parking. Not a good location for apartments, especially since the new downtown apartments are not even rented. Knowing how the drill is, this complex will become low income housing which will destroy Des Plaines. Common sense would tell you this. I'd like to see Des Plaines work harder to build up retail, rather than apartments. All of us would. I take advantage of At7 and the Theatre.

There is not enough retail around to even entice people to live here. I have to drive outside of Des Plaines for most shopping.

Developer's arguments:
Young people want to live near the train. Downtown Des Plaines is different and they can't even rent those apartments close by. This is not Downtown Chicago where everything is in walking distance (restaurants, stores, drug stores, etc.) I traveled over 10 years to the train from this location, and during bad weather - not an easy hike. Even as he says young people don't need cars, there is no shopping convenient here. THEY WILL NEED CARS -- and the parking situation. Parking is limited in this location as it is.

He is never going to get the high rents he thinks he is - very delusional thinking. $\qquad$ So lower the rents and accept vouchers. I'm beginning to think that's the plan

## DO NOT APPROVE THEIR BUILDING PLANS

Redraw the plans of the building Push back the building so there is a parking lot in front of the proposed building on Graceland.
Make the building residents 50 years and older -- there are more elderly people who would be interested Do condos/townhouses - people who would have more of a personal stake in Des Plaines.
But, I'm not hopeful as from experience (I worked for attorneys and a lobbyist), and usually by the time residents are notified - too late. Just like the Journal site (more apartments) I hope Des Plaines wakes up.

I would like information to pass on to the residents in the area.


Sent: Friday, June 9, 2023 at 12:49:13 PM CDT
Subject: Graceland and Thacker
Good Afternoon

I sent the following email. FYI
You can see how upset some of us are about this development and the ramifications that are in the future It's not a good location with the arguments the developer had didn't fly

I'm not sure if you were at the meeting. Missed introductions if there were any.
I don't think residents given enough time to understand I had reached out awhile back to someone in Des Plaines. Never got a reply.

I hope you can do something More rentals Not a good thing for Des Plaines. Hoping city wakes up

Condos/townhomes would be
Mr Sayad - I think you were at this meeting?
Thank you

Sent from my iPhone

| From: | Des Plaines, IL [media@desplaines.org](mailto:media@desplaines.org) |
| :--- | :--- |
| Sent: | Monday, June 26, 2023 4:01 PM |
| To: | Samantha Redman |
| Subject: | *NEW SUBMISSION* Contour Place Public Input |

## Contour Place Public Input

Submission \#: 2528158
IP Address: 99.93.196.68
Submission Date: 06/26/2023 4:01
Survey Time: 55 seconds

You have a new online form submission.
Note: all answers displaying "*****" are marked as sensitive and must be viewed after your login.

## Read-Only Content

## Section Break

Which site concept(s) are you commenting on?
Both
What comments or questions do you have on the proposed Site or Building Design not a good option in DP. there are so many vacant rentals already
What comments or questions do you have on Neighborhood Impact from this project?
How often have you been near or by this property (within approx. three blocks) in the past six months?
Weekly

## General Comments/Questions

## Email (optional)

Read-Only Content

Thank you,
Des Plaines, IL

This is an automated message generated by Granicus. Please do not reply directly to this email.

| From: | Des Plaines, IL [media@desplaines.org](mailto:media@desplaines.org) |
| :--- | :--- |
| Sent: | Wednesday, July 5, 2023 12:53 PM |
| To: | Samantha Redman |
| Subject: | *NEW SUBMISSION* Contour Place Public Input |

## Contour Place Public Input

| Submission \#: | 2546548 |
| :--- | :--- |
| IP Address: | 73.208 .12 .61 |

Submission Date: 07/05/2023 12:53
Survey Time: 11 minutes, 5 seconds

You have a new online form submission.
Note: all answers displaying "*****" are marked as sensitive and must be viewed after your login.

## Read-Only Content

## Section Break

Which site concept(s) are you commenting on?
Both
What comments or questions do you have on the proposed Site or Building Design
Site A - I feel the open land parking lots should be moved to the middle of the area where the garage buildings are. Moving the garage buildings over towards the street is better. We don't need 4 exits from these parking areas with one being so close to the curve in the street on Thacker by the railroad tracks where vision could be blocked. The other exit on Graceland is giving the cars the opportunity to turn left on a one way street.

## What comments or questions do you have on Neighborhood Impact from this project?

Parking will become an issue if the residence of the complex have to pay for a parking space. Each unit should already have that built into their rent. Visitor parking should be closer to the main entrance and enough to cover visitors at an equal amount since street parking is very limited.

How often have you been near or by this property (within approx. three blocks) in the past six months?
Weekly

## General Comments/Questions

Parking redesign should be investigated as previously noted. For the site $A$ building there are less 2 bedroom units per floor than in the Site B design. Considere making 2 more 2 bedroom units perform at the middle of each floor and eliminate 3 one bedroom units and one studio. Also a more define entrance should be visible at the corner of Graceland and Thacker even though this is not the main entrance. For Site B also a more define entrance should be visible along Graceland. Concerns over at Site B is Oakwood Street capable of handling all this new traffic and parking?

## Email (optional)

Read-Only Content

Thank you,
Des Plaines, IL

| From: | Des Plaines, IL [media@desplaines.org](mailto:media@desplaines.org) |
| :--- | :--- |
| Sent: | Wednesday, July 5, 2023 7:11 PM |
| To: | Samantha Redman |
| Subject: | *NEW SUBMISSION* Contour Place Public Input |

## Contour Place Public Input

Submission \#: 2547791
IP Address: 76.136.228.9
Submission Date: 07/05/2023 7:11
Survey Time: 6 minutes, 59 seconds

You have a new online form submission.
Note: all answers displaying "*****" are marked as sensitive and must be viewed after your login.

## Read-Only Content

## Section Break

Which site concept(s) are you commenting on?
Site B
What comments or questions do you have on the proposed Site or Building Design
Should redevelop site with Townhome/Condos only with on-site.parking only
What comments or questions do you have on Neighborhood Impact from this project?
Parking is presently severely limited in the neighborhood at the time being! An apartment building would ONLY SERVE TO IMPACT parking and MAKE IT MUCH WORSE!
How often have you been near or by this property (within approx. three blocks) in the past six months? Daily

## General Comments/Questions

Develop Site B with Condo/Townhouse ONLY with on-site parking
Email (optional)

Read-Only Content

Thank you,
Des Plaines, IL

This is an automated message generated by Granicus. Please do not reply directly to this email.

| From: | Des Plaines, IL [media@desplaines.org](mailto:media@desplaines.org) |
| :--- | :--- |
| Sent: | Monday, July 10, 2023 4:46 PM |
| To: | Samantha Redman |
| Subject: | *NEW SUBMISSION* Contour Place Public Input |

## Contour Place Public Input

| Submission \#: | 2557607 |
| :--- | :--- |
| IP Address: | 73.45 .169 .154 |

Submission Date: 07/10/2023 4:46
Survey Time: 25 minutes, 22 seconds

You have a new online form submission.
Note: all answers displaying "*****" are marked as sensitive and must be viewed after your login.

## Read-Only Content

## Section Break

Which site concept(s) are you commenting on?
Both
What comments or questions do you have on the proposed Site or Building Design
i'm a owner of 915 Graceland ave. I don't agree with new zoning: R-4 Central Core Residential Case number:23-040-MAP.
What comments or questions do you have on Neighborhood Impact from this project?
No more rentals in this neigborhood!! We already have 136 rentals right one block douwn!!Maybe more at Ellison Apartaments. This is a quite and peacefull area!!

How often have you been near or by this property (within approx. three blocks) in the past six months? Daily

## General Comments/Questions

Take in consideretion our concern about rentals. I would rather see condos/townhomes where people have a personal and financial stake in their property

## Email (optional)

Read-Only Content

Thank you,
Des Plaines, IL

This is an automated message generated by Granicus. Please do not reply directly to this email.

| From: | Des Plaines, IL [media@desplaines.org](mailto:media@desplaines.org) |
| :--- | :--- |
| Sent: | Thursday, July 13, 2023 9:52 AM |
| To: | Samantha Redman |
| Subject: | *NEW SUBMISSION* Contour Place Public Input |

## Contour Place Public Input

| Submission \#: | 2564260 |
| :--- | :--- |
| IP Address: | 75.58 .27 .199 |

Submission Date: 07/13/2023 9:52
Survey Time: 4 minutes, 11 seconds

You have a new online form submission.
Note: all answers displaying "*****" are marked as sensitive and must be viewed after your login.

## Read-Only Content

## Section Break

Which site concept(s) are you commenting on?
Both
What comments or questions do you have on the proposed Site or Building Design
Don't build these, too many buildings to close to each other
What comments or questions do you have on Neighborhood Impact from this project?
Do we need extra rentals in Des Planes?
How often have you been near or by this property (within approx. three blocks) in the past six months? Daily

## General Comments/Questions

Please build your buildings somewhere else

## Email (optional)

Read-Only Content

Thank you,
Des Plaines, IL

This is an automated message generated by Granicus. Please do not reply directly to this email.

| From: | Des Plaines, IL [media@desplaines.org](mailto:media@desplaines.org) |
| :--- | :--- |
| Sent: | Wednesday, July 12, 2023 5:49 PM |
| To: | Samantha Redman |
| Subject: | *NEW SUBMISSION* Contour Place Public Input |

## Contour Place Public Input

| Submission \#: | 2563308 |
| :--- | :--- |
| IP Address: | 75.58 .27 .199 |

Submission Date: 07/12/2023 5:48
Survey Time: 2 minutes, 11 seconds

You have a new online form submission.
Note: all answers displaying "*****" are marked as sensitive and must be viewed after your login.

## Read-Only Content

## Section Break

Which site concept(s) are you commenting on?
Both
What comments or questions do you have on the proposed Site or Building Design
We don't need this extra buildings and noises over here. Its nice place to do the park.
What comments or questions do you have on Neighborhood Impact from this project?
will be any voting on this project? Many neighbors don't like this idea.
How often have you been near or by this property (within approx. three blocks) in the past six months? Daily

## General Comments/Questions

Move your project to more open area
Email (optional)

Read-Only Content

Thank you,
Des Plaines, IL

This is an automated message generated by Granicus. Please do not reply directly to this email.

| From: | Des Plaines, IL [media@desplaines.org](mailto:media@desplaines.org) |
| :--- | :--- |
| Sent: | Tuesday, July 18, 2023 8:11 AM |
| To: | Samantha Redman |
| Subject: | *NEW SUBMISSION* Contour Place Public Input |

## Contour Place Public Input

Submission \#: 2573662
IP Address: 173.15.39.78
Submission Date: 07/18/2023 8:10
Survey Time: 6 minutes, 45 seconds

You have a new online form submission.
Note: all answers displaying "*****" are marked as sensitive and must be viewed after your login.

## Read-Only Content

## Section Break

Which site concept(s) are you commenting on?
Both
What comments or questions do you have on the proposed Site or Building Design
What comments or questions do you have on Neighborhood Impact from this project?
How will this project affect traffic patterns, parking for all the units and emergency vehicles access.
How often have you been near or by this property (within approx. three blocks) in the past six months?
Daily

## General Comments/Questions

How many units are subject to low income tenants
Email (optional)

Read-Only Content

Thank you,
Des Plaines, IL

This is an automated message generated by Granicus. Please do not reply directly to this email.

## Traffic Impact Study Proposed Residential Development

Des Plaines, Illinois


Prepared For:
Luz and Associates \#1 LLC


June 15, 2023

## 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 a proposed residential development to be located in the northeast corner of the intersection of Graceland Avenue with Oakwood Avenue in Des Plaines, Illinois. The site which is currently utilized as the parking lot for Contour Saws Inc., will be redeveloped to provide 56 apartment units and 64 parking spaces with access off Oakwood Avenue and the existing alley to the east of the site.

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

The sections of this report present the following:

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

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

1. Existing Conditions - Analyzes the capacity of the existing roadway system using existing peak hour traffic volumes in the surrounding area.
2. Projected Conditions - Analyzes the capacity of the future roadway system using the traffic volumes that include the existing traffic volumes increased by an ambient growth factor and the traffic estimated to be generated by the proposed development.


Site Location
Figure 1


Aerial View of Site
Figure 2

## 2. Existing Conditions

The following provides a description of the geographical location of the site, physical characteristics of the area roadway system including lane usage and traffic control devices, and existing peak hour traffic volumes.

## Site Location

The site, which is currently utilized as the parking lot for Contour Saws Inc., is bounded by Graceland Avenue to the west, an alley to the east, Oakwood Avenue to the south, and Graceland Manor apartments to the north. Land uses in the vicinity of the site are primarily residential with commercial land uses along Lee Road.

## Existing Roadway System Characteristics

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

Thacker Street is generally an east-west major collector roadway that provides one travel lane in each direction in the vicinity of the site. At its signalized intersection with Lee Road, Thacker Street provides a shared left-turn/through lane on the eastbound approach and a through lane and an exclusive right-turn lane on the westbound approach. High visibility crosswalks are provided on the east, north, and south legs of this intersection and a standard style crosswalk is provided on the west leg. Pedestrian signals are provided on all four legs of this intersection. At its signalized intersection with Graceland Avenue, Thacker Road provides a shared through/right-turn lane on the eastbound approach and a shared left-turn/through lane on the westbound approach. High visibility crosswalks and pedestrian signals are provided on all four legs of this intersection. At its unsignalized intersections with Jeannette Street, First Avenue, Laurel Avenue, and the two alleys, Thacker Street does not provide any exclusive turn lanes. Thacker Street is under the jurisdiction of the City of Des Plaines, carries an Annual Average Daily Traffic (AADT) volume of approximately 8,900 vehicles (IDOT 2022), and has a posted speed limit of 25 miles per hour.


Graceland Avenue (U.S. 45) is a northeast-southwest, other principal arterial roadway that is one way in the southbound direction in the vicinity of the site providing two travel lanes. At its signalized intersection with Thacker Street, Graceland Avenue provides an exclusive left-turn lane, a through lane, and a shared through/right-turn lane on the southbound approach. At its unsignalized north intersection with Oakwood Avenue, Graceland Avenue provides a through lane and a shared left-turn/through lane on the southbound approach. At its unsignalized south intersection with Oakwood Avenue, Graceland Avenue provides a through lane and a shared through/right turn lane on the southbound approach. Graceland Avenue is under the jurisdiction of the Illinois Department of Transportation (IDOT), carries an AADT volume of approximately 17,000 vehicles (IDOT 2021), is not classified as a Strategic Regional Arterial (SRA), and has a posted speed limit of 30 miles per hour.

Lee Road is a northeast-southwest, other principal arterial roadway that is one way in the northbound direction in the vicinity of the site providing two travel lanes. At its signalized intersection with Thacker Street, Lee Road provides a shared left-turn/through lane, a through lane, and a shared through/right-turn lane on the northbound approach. At its unsignalized intersection with Oakwood Avenue, Lee Road provides a shared left-turn/through lane and a shared through/right-turn lane on the northbound approach. Lee Road is under the jurisdiction of IDOT, carries an AADT volume of 5,600 vehicles (IDOT 2021), is not classified as an SRA, and has a posted speed limit of 30 miles per hour.

Oakwood Avenue is an east-west, local roadway that extends from $3^{\text {rd }}$ Avenue to its terminus at River Road providing one travel lane in each direction. At its unsignalized north "T" intersection with Graceland Avenue, Oakwood Avenue provides a left-turn lane on the westbound approach. A standard style crosswalk is provided on the east leg of this intersection. At its unsignalized south "T" intersection with Graceland Avenue, Oakwood Avenue provides a right-turn lane on the eastbound approach. A standard style crosswalk is provided on the west leg of this intersection. At its unsignalized intersections with the alley and Lee Street, Oakwood Avenue provides a shared left-turn/through lane on the eastbound approach and a shared through/right-turn lane on the westbound approach. Standard style crosswalks are provided on the east and west legs of the intersection of Oakwood Avenue with Lee Road. Oakwood Avenue is under the jurisdiction of the City of Des Plaines and has a posted speed limit of 25 miles per hour.

Jeannette Street is a north-south local roadway that serves residential houses in the vicinity of the site. Jeannette Street extends south from Thacker Road to its terminus at Algonquin Road providing one travel lane in each direction. At its unsignalized " T " intersection with Thacker Street, Jeannette Street provides a shared left-turn/right-turn lane on the northbound approach. A standard style crosswalk is provided on the south leg of this intersection. Jeannette Street is under the jurisdiction of the City of Des Plaines and has a posted speed limit of 25 miles per hour.

First Avenue is a north-south local roadway that provides one travel lane in each direction. At its unsignalized "T" intersection with Thacker Street, First Avenue provides a shared left-turn/rightturn lane on the southbound approach. A standard style crosswalk is provided on the north leg of this intersection. First Avenue is under the jurisdiction of the City of Des Plaines and has a posted speed limit of 25 miles per hour.

Laurel Avenue is a north-south local roadway that provides one lane in each direction. At its unsignalized " $T$ " intersection with Thacker Street, Laurel Avenue provides a shared left-turn/rightturn lane on the southbound approach. Laurel Avenue is under the jurisdiction of the City of Des Plaines.

The east alley is a north-south local roadway that provides one lane in each direction. At its unsignalized intersection with Thacker Street, the alley provides a shared left-turn/through/rightturn lane on both approaches. At its unsignalized "T" intersection with Oakwood Avenue, the alley provides a shared left-turn/right-turn lane on the southbound approach.

## Existing Traffic Volumes

In order to determine current traffic conditions within the study area, KLOA. Inc conducted traffic counts using Miovision Video Scout Collection Units on Tuesday, April 11, 2023 and on Thursday, April 27, 2023 during the weekday morning (7:00 to 9:00 A.M.) and weekday evening (4:00 to 6:00 P.M.) peak periods at the following intersections:

- Thacker Street with Lee Road
- Thacker Street with Graceland Avenue
- Thacker Street with Laurel Avenue
- Thacker Street with First Avenue
- Thacker Street with Jeannette Street
- Thacker Street with the east alley
- Thacker Steet with the west alley
- Oakwood Avenue with Lee Road
- Oakwood Avenue with the east alley
- Oakwood Avenue with Graceland Avenue

Based on the turning movement count data, it was determined that the weekday morning peak hour of traffic generally occurs between 8:00 A.M. and 9:00 A.M. and the weekday evening peak hour of traffic generally occurs between 4:45 P.M. and 5:45 P.M.

Figure 4 illustrates the Year 2023 existing traffic volumes.


## Train Observations

The Union Pacific Metra Northwest crosses Graceland Avenue and Thacker Street in the vicinity of the site. Based on the Illinois Commerce Commission (ICC) data, the tracks carry an average of 22 daily passenger trains only. Furthermore and based on the Metra schedule, the Des Plaines Metra station is served by 69 trains ( 34 inbound, 35 outbound) on weekdays, 31 trains on Saturdays, and 19 trains on Sundays operating between 5:00 A.M. and 1:00 A.M. Monday through Friday. Field observations conducted during the peak hours for the crossings of Graceland Avenue and Thacker Street indicated the following:

## Graceland Avenue Crossing

- During the weekday morning peak hour, three Metra train events were observed. The gates were down for approximately 35 seconds on average. The southbound approach queue at the railroad crossing did not extend to Thacker Street with a maximum queue of approximately 12 vehicles.
- During the weekday evening peak hour, four Metra train events were observed. The gates were down for approximately 51 seconds on average. The southbound approach queue at the railroad crossing did not extend back to Thacker Street with a maximum queue of approximately 12 vehicles.


## Thacker Street Crossing

- During the weekday morning peak hour, the queues did not extend past Laurel Avenue.
- During the weekday evening peak hour, the queues extended past Laurel Avenue for approximately 45 seconds and cleared within 30 seconds after the gate was opened.


## Crash Data Summary

KLOA, Inc. obtained crash data $^{1}$ for the past five years (2018 to 2022) for the intersections of Thacker Street with Lee Road, Thacker Street with Graceland Avenue, Graceland Avenue with Oakwood Avenue, Lee Road with Oakwood Avenue, Thacker Street with Jeannette Street and Laurel Avenue. A review of the crash data indicated that no crashes were reported at the intersection of Thacker Street with Laurel Avenue. It should be noted that no fatalities were reported at any studied intersection between 2018 and 2022. Tables $\mathbf{1}$ through $\mathbf{5}$ summarize the crash data for these intersections.

[^8]Table 1
THACKER STREET WITH GRACELAND AVENUE - CRASH SUMMARY

| Year | Type of Crash Frequency |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Angle | Object | Rear End | Sideswipe | Turning | Other | Total |  |
| 2018 | 1 | 0 | 0 | 0 | 1 | 0 | 2 |  |
| 2019 | 3 | 0 | 1 | 1 | 1 | 0 | 6 |  |
| 2020 | 1 | 0 | 1 | 0 | 0 | 0 | 2 |  |
| 2021 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 2022 | 1 | 0 | 0 | 0 | 1 | 0 | 2 |  |
| Total | $\mathbf{6}$ | $\mathbf{0}$ | $\mathbf{2}$ | $\mathbf{1}$ | $\mathbf{3}$ | $\mathbf{0}$ | $\mathbf{1 2}$ |  |
| Average/Year | $\mathbf{1 . 2}$ | -- | $<\mathbf{1 . 0}$ | $<\mathbf{1 . 0}$ | $<\mathbf{1 . 0}$ | -- | $\mathbf{2 . 4}$ |  |

Table 2
THACKER STREET WITH LEE ROAD - CRASH SUMMARY

| Year | Type of Crash Frequency |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Angle | Object | Rear End | Sideswipe | Turning | Other | Total |  |
| 2018 | 1 | 0 | 1 | 0 | 5 | 0 | 7 |  |
| 2019 | 1 | 0 | 1 | 0 | 5 | 0 | 7 |  |
| 2020 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |  |
| 2021 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |  |
| 2022 | 0 | 0 | 0 | 1 | 3 | 0 | 4 |  |
| Total | $\mathbf{2}$ | $\mathbf{0}$ | $\mathbf{2}$ | $\mathbf{1}$ | $\mathbf{2 1}$ | $\mathbf{0}$ | $\mathbf{2 6}$ |  |
| Average/Year | $<\mathbf{1 . 0}$ | $\boldsymbol{- -}$ | $<\mathbf{1 . 0}$ | $<\mathbf{1 . 0}$ | $\mathbf{4 . 2}$ | $\mathbf{- -}$ | $\mathbf{5 . 2}$ |  |

Table 3
GRACELAND AVENUE WITH OAKWOOD AVENUE - CRASH SUMMARY

| Year | Type of Crash Frequency |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Angle | Object | Rear End | Sideswipe | Turning | Other | Total |  |
| 2018 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |  |
| 2019 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |  |
| 2020 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 2021 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 2022 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Total | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{1}$ | $\mathbf{0}$ | $\mathbf{1}$ | $\mathbf{0}$ | $\mathbf{2}$ |  |
| Average/Year | $\boldsymbol{- -}$ | -- | $<\mathbf{1 . 0}$ | -- | $<\mathbf{1 . 0}$ | -- | $<\mathbf{1 . 0}$ |  |

Table 4
LEE ROAD WITH OAKWOOD AVENUE - CRASH SUMMARY

| Year | Type of Crash Frequency |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Angle | Object | Rear End | Sideswipe | Turning | Other | Total |  |
| 2018 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |  |
| 2019 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |  |
| 2020 | 2 | 0 | 0 | 0 | 1 | 0 | 3 |  |
| 2021 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 2022 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |  |
| Total | $\mathbf{3}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{4}$ | $\mathbf{0}$ | $\mathbf{7}$ |  |
| Average/Year | $<\mathbf{1 . 0}$ | -- | -- | -- | $<\mathbf{1 . 0}$ | -- | $\mathbf{1 . 4}$ |  |

Table 5
THACKER STREET WITH JEANNETTE STREET - CRASH SUMMARY

| Year | Type of Crash Frequency |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Angle | Object | Rear End | Sideswipe | Turning | Other | Total |  |  |
| 2018 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |
| 2019 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |
| 2020 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |
| 2021 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |
| 2022 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |  |  |
| Total | $\mathbf{1}$ | $\mathbf{1}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{2}$ |  |  |
| Average/Year | $<\mathbf{1 . 0}$ | $<\mathbf{1 . 0}$ | -- | -- | -- | -- | $<\mathbf{1 . 0}$ |  |  |

## 3. Traffic Characteristics of the Proposed Development

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

## Proposed Site and Development Plan

The site, which is currently utilized as the parking lot for Contour Saws Inc., will be redeveloped to provide 56 apartment units ( 41 one-bedroom units and 15 two-bedroom units) with 64 parking spaces. Access to the development will be provided via a full-movement access drive off Oakwood Avenue located approximately 260 feet east of Graceland Avenue and a full-movement access drive off the alley located approximately 320 feet north of Oakwood Avenue. Both access drives provide one inbound lane and one outbound lane with the outbound movements under stop sign control. A copy of the preliminary site plan depicting the proposed development is included in the Appendix.

## Directional Distribution

The directions from which residents and visitors of the development will approach and depart the site were estimated based on existing travel patterns, as determined from the traffic counts. Figure 5 illustrates the directional distribution of the traffic to be generated by the proposed development.


## Development Traffic Generation

The vehicle trip generation for the overall development was calculated using data published in the Institute of Transportation Engineers (ITE) Trip Generation Manual, $11^{\text {th }}$ Edition. The "Multifamily Housing" (ITE Land-Use Code 221) rate was used for the proposed residential units.

It should be noted that due to the location of the site within close proximity of the Des Plaines Metra Station, census data for the area indicates that five percent of the estimated trips to be generated by the proposed development will be via the public transportation, two percent will walk, and one percent will bike. However, in order to provide a conservative analysis, no reductions were applied.

Table 6 shows the estimated vehicle trip generation for the weekday morning and weekday evening peak hours as well as daily traffic. Copies of the ITE trip generation worksheets are included in the Appendix.

Table 6
SITE GENERATED TRIP ESTIMATES

| ITE <br> Land- | Type/Size | Weekday Morning Peak Hour |  |  | Weekday Evening Peak Hour |  |  | Weekday Daily Trips |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Code |  | In | Out | Total | In | Out | Total | In | Out | Total |
| 221 | Multifamily Housing (Mid-Rise) 56 units | 3 | 10 | 13 | 14 | 8 | 22 | 111 | 111 | 222 |

## Trip Generation Comparison

It should be noted that the site is currently occupied by an approximate 107,000 square-foot manufacturing building and parking lot. Table 7 indicates the trips estimated to be generated by the existing manufacturing site and the trips estimated to be generated by the proposed residential development and the future development of the actual manufacturing building which is located at 900 Graceland Avenue (as discussed later in the report). A comparison between the future development's generated trips and the manufacturing site shows that the trips estimated to be generated by the existing manufacturing site are approximately 35 percent higher during the weekday morning peak hour and 10 percent higher during the weekday evening peak hour.

Table 7
TRIP COMPARISON

| $\begin{gathered} \text { ITE } \\ \text { Land- } \end{gathered}$ | Type/Size | Weekday Morning Peak Hour |  |  | Weekday Evening Peak Hour |  |  | Weekday Daily Trips |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Code |  | In | Out | Total | In | Out | Total | In | Out | Total |
| 221 | Multifamily Housing (Mid-Rise) 178 units $^{1}$ | 13 | 42 | 55 | 43 | 27 | 70 | 379 | 379 | 758 |
| 140 | Manufacturing $\text { ( } \sim 107,000 \text { s.f.) }$ | 57 | 18 | 75 | 23 | 53 | 76 | 303 | 302 | 605 |
|  | Difference | -44 | +24 | -20 | +20 | -26 | -6 | +76 | +76 | +152 |
| 1-Sum | of both sites |  |  |  |  |  |  |  |  |  |

## 4. Projected Traffic Conditions

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

## Development Traffic Assignment

The estimated peak hour traffic volumes that will be generated by the proposed development were assigned to the roadway system in accordance with the previously described directional distribution. Figure 6 illustrates the assignment of the vehicle traffic volumes to be generated by the proposed development.

## Background (No-Build) Traffic Conditions

The existing traffic volumes (Figure 4) were increased by a regional growth factor to account for the increase in existing traffic related to regional growth in the area (i.e., not attributable to any particular planned development). Based on 2050 Average Daily Traffic (ADT) projections provided by the Chicago Metropolitan Agency for Planning (CMAP), the existing traffic volumes were increased by an annually compounded growth rate for six years (one-year buildout plus five years) totaling three percent to represent Year 2029 total projected conditions. Additionally, the Year 2029 no-build traffic volumes include the traffic estimated to be generated by the following other area developments:

- The generated trips by the Little Bulgaria Center located at 832 Lee Street were estimated and assigned to the roadway system. It should be noted that the pick-up and drop-off activities will take place off the east alley.
- It is our understanding that 96 units of the Welkin Apartments located at 1425 Ellinwood Street are unoccupied. The estimated trip to the vacant units were estimated and assigned to the roadway system.
- Trips estimated to be generated by a proposed residential development with 122 apartment units to be locate at 900 Graceland Avenue which is currently occupied by Contour Saws Inc.


## Total Projected Traffic Volumes

The total projected traffic volumes include the Year 2029 no-build traffic volumes and the traffic estimated to be generated by the proposed development (Figure 6). Figure 7 shows the Year 2029 total projected traffic volumes.



## 5. Traffic Analysis and Recommendations

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

## Traffic Analyses

Roadway and adjacent or nearby intersection analyses were performed for the weekday morning and evening peak hours for the existing and future projected (Year 2029) traffic volumes.

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

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

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

Summaries of the traffic analysis results showing the level of service and overall intersection delay (measured in seconds) for the existing and Year 2029 total projected conditions are presented in Tables 8 through 11. A discussion of the intersections follows. Summary sheets for the capacity analyses are included in the Appendix.

Table 8
CAPACITY ANALYSIS RESULTS - THACKER STREET WITH GRACELAND AVENUE - SIGNALIZED

|  | Peak Hour | Eastbound | Westbound | Southbound |  | Overall |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | T/R | L/T | L | T/R |  |
|  | Weekday <br> Morning | E-59.1 | D - 47.8 | $\begin{gathered} \hline \mathrm{A} \\ 6.3 \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{A} \\ 6.5 \\ \hline \end{gathered}$ | $\begin{gathered} \text { C } \\ 25.7 \end{gathered}$ |
|  |  |  |  | A - 6.4 |  |  |
|  | Weekday <br> Evening | E-59.0 | E-55.4 | $\begin{gathered} \mathrm{A} \\ 6.6 \end{gathered}$ | $\begin{gathered} \mathrm{A} \\ 6.7 \end{gathered}$ | $\begin{gathered} \text { C } \\ 28.5 \end{gathered}$ |
|  |  |  |  | A - 6.7 |  |  |
|  | Weekday <br> Morning | E-58.3 | D - 46.8 | $\begin{gathered} \mathrm{A} \\ 7.4 \end{gathered}$ | $\begin{gathered} \mathrm{A} \\ 7.7 \end{gathered}$ | $\begin{gathered} \text { C } \\ 26.7 \end{gathered}$ |
|  |  |  |  | A-7.6 |  |  |
|  | Weekday Evening | E-58.6 | E-57.1 | $\begin{gathered} \mathrm{A} \\ 7.1 \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{A} \\ 7.4 \\ \hline \end{gathered}$ | $\begin{gathered} \text { C } \\ 29.6 \end{gathered}$ |
|  |  |  |  | A-7.4 |  |  |
| Letter denotes Level of Service L - Left Turn <br> Delay is measured in seconds. <br> T - Through R - Right Turn |  |  |  |  |  |  |

Table 9
CAPACITY ANALYSIS RESULTS - THACKER STREET WITH LEE ROAD - SIGNALIZED

|  | Peak Hour | Eastbound | Westbound |  | Northbound | Overall |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | L/T | T | R | L/T/R |  |
|  | Weekday <br> Morning | C-34.9 | $\begin{gathered} \hline \mathrm{E} \\ 57.5 \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{A} \\ 4.9 \\ \hline \end{gathered}$ | A-9.6 | $\begin{gathered} \mathrm{C} \\ 22.9 \end{gathered}$ |
|  |  |  | D-48.2 |  |  |  |
|  | Weekday Evening | C-34.9 | $\begin{gathered} \mathrm{E} \\ 56.7 \end{gathered}$ | $\begin{gathered} \mathrm{A} \\ 0.7 \end{gathered}$ | A - 9.5 | $\begin{gathered} \text { C } \\ 22.5 \end{gathered}$ |
|  |  |  | D - 50.7 |  |  |  |
|  | Weekday <br> Morning | C-33.8 | $\begin{gathered} \mathrm{E} \\ 57.8 \end{gathered}$ | $\begin{gathered} \mathrm{A} \\ 4.9 \end{gathered}$ | B - 11.4 | $\begin{gathered} \mathrm{C} \\ 24.3 \end{gathered}$ |
|  |  |  | D - 49.3 |  |  |  |
|  | Weekday Evening | C-34.8 | $\begin{gathered} \hline \mathrm{E} \\ 56.6 \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathrm{A} \\ 0.9 \\ \hline \end{gathered}$ | B - 11.0 | C |
|  |  |  | D - 50.7 |  |  | 23.4 |
| Letter denotes Level of Service L - Left Turn <br> Delay is measured in seconds. <br> T - Through R - Right Turn |  |  |  |  |  |  |

Table 10
CAPACITY ANALYSIS RESULTS - EXISTING CONDITIONS - UNSIGNALIZED


Table 11
CAPACITY ANALYSIS RESULTS -PROJECTED CONDITIONS - UNSIGNALIZED

| Intersection | Weekday Morning <br> Peak Hour |  | Weekday Evening <br> Peak Hour |  |
| :---: | :---: | :---: | :---: | :---: |
|  | LOS | Delay | LOS | Delay |


| Graceland Avenue with Oakwood Avenue (North Intersection) |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :--- | :--- | :--- | :---: | :---: |
| • Westbound Approach | B | 11.5 | B | 11.3 |  |  |  |


| Graceland Avenue with Oakwood Avenue (South Intersection) ${ }^{\mathbf{1}}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| - Eastbound Approach | B | 10.7 | B | 11.3 |


| Lee Street with Oakwood Avenue $^{\mathbf{1}}$ |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| - $\quad$ Eastbound Approach | B | 13.8 | C | 15.1 |
| - Westbound Approach | B | 13.0 | C | 15.7 |


| Thacker Street with Laurel Avenue ${ }^{\mathbf{1}}$ |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| - Southbound Approach | B | 10.5 | B | 12.7 |
| - | Eastbound Left Turn | A | 7.8 | A |


| Thacker Street with First Avenue $^{\mathbf{1}}$ |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| - Southbound Approach | B | 11.6 | B | 12.7 |
| - $\quad$ Eastbound Left Turn | A | 7.8 | A | 8.2 |
| Jeannette Street with Thacker Street ${ }^{\mathbf{1}}$ |  |  |  |  |
| - Northbound Approach | B | 11.8 | B | 10.7 |
| - Westbound Left Turn | A | 8.0 | A | 7.8 |


| Thacker Street with Alley (West Alley) ${ }^{\mathbf{1}}$ |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| - Southbound Approach | B | 10.7 | B | 13.2 |
| - Eastbound Left Turn | A | 7.8 | A | 8.2 |
| Thacker Street with Alley (East Alley) ${ }^{\mathbf{1}}$ |  |  |  |  |
| - Northbound Approach | C | 15.4 | B | 14.0 |
| - Southbound Approach | B | 12.0 | B | 12.4 |
| - Eastbound Left Turn | A | 7.9 | A | 7.9 |
| - Westbound Left Turn | A | 7.9 | A | 7.9 |


| Oakwood Avenue with Alley $^{\mathbf{1}}$ |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| - Southbound Approach | A | 8.5 | A | 8.6 |
| - Eastbound Left Turn | A | 7.3 | A | 7.3 |
| Alley with Proposed Access Drive $^{\mathbf{1}}$ |  |  |  |  |
| - Eastbound Approach | A | 8.6 | A | 8.4 |
| - Northbound Left Turn | A | 0.1 | A | 0.1 |


| Oakwood Avenue with Proposed Access Drive $^{\mathbf{1}}$ |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| - | Southbound Approach | A | 8.5 | A |
| - | Eastbound Left Turn | A | 7.3 | A |

LOS = Level of Service
Delay is measured in seconds.
1- All-Way Stop Control.

## Discussion and Recommendations

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

## Thacker Street with Graceland Avenue

The results of the capacity analysis indicate that overall this intersection currently operates at Level of Service (LOS) C during the weekday morning and weekday evening peak hours. The eastbound approach currently operates at LOS E during both peak hours and the westbound approach operates at LOS D during the weekday morning peak hour and LOS E during the weekday evening peak hour. Additionally, the southbound approach operates at LOS A during both peak hours.

Under Year 2029 total projected conditions, overall this intersection is projected to continue operating at LOS C during the weekday morning and weekday evening peak hours with increases in delay of approximately one second and less than two seconds, respectively. All the approaches are projected to continue operating at the same existing levels of service during the peak hours with increases in delay of less than three seconds. The maximum $95^{\text {th }}$ percentile queue for the eastbound through movement is projected to be approximately 295 feet during the weekday evening peak hour and will extend to the west alley but based on the field observations and the traffic simulation, the queue will clear the intersection during each green phase. The maximum $95^{\text {th }}$ percentile queue for the westbound through movement is projected to be approximately 280 feet during the weekday evening peak hour and will extend to the east alley but based on the field observations and the traffic simulation, the queue will clear the intersection during each green phase. As such, this intersection has adequate reserve capacity to accommodate the traffic estimated to be generated by the proposed development and no roadway improvements and/or traffic control modifications are required.

## Thacker Street with Lee Road

The results of the capacity analysis indicate that overall this intersection currently operates at LOS C during the weekday morning and weekday evening peak hours. The eastbound approach operates at LOS C during both peak hours and the westbound approach operates at LOS D during both peak hours. Additionally, the northbound approach operates at LOS A during both peak hours.

Under Year 2029 total projected conditions, overall this intersection is projected to continue operating at LOS C during the weekday morning and weekday evening peak hours with increases in delay of less than two seconds. The eastbound and westbound approaches are projected to operate at the same existing levels of service during both peak hours with increases in delay of less than two seconds. The northbound approach is projected to operate at LOS B during both peak hours with increases in delay of less than two seconds. The maximum $95^{\text {th }}$ percentile queue for the eastbound through movement is projected to be approximately 245 feet during the weekday morning peak hour and will extend to the east alley but based on the field observations and the traffic simulation, the queue will clear the intersection during each green phase. As such, this intersection has adequate reserve capacity to accommodate the traffic estimated to be generated by the proposed development and no roadway improvements and/or traffic control modifications are required.

## Graceland Avenue with Oakwood Avenue (North Intersection)

The results of the capacity analysis indicate that the westbound approach currently operates at LOS B during the weekday morning and weekday evening peak hours.

Under Year 2029 total projected conditions, the westbound approach is projected to continue operating at LOS B during both peak hours with increases in delay of less than one second. As such, the traffic that will be generated by the proposed development will have a limited impact on the operation of this intersection and no roadway improvements and/or traffic control modifications are required.

## Graceland Avenue with Oakwood Avenue (South Intersection)

The results of the capacity analysis indicate that the eastbound approach currently operates at LOS B during the weekday morning and weekday evening peak hours.

Under Year 2029 total projected conditions, the eastbound approach is projected to continue operating at LOS B during both peak hours with increases in delay of less than one second. As such, the traffic that will be generated by the proposed development will have a limited impact on the operation of this intersection and no roadway improvements and/or traffic control modifications are required.

## Lee Street with Oakwood Avenue

The results of the capacity analysis indicate that the eastbound and westbound approaches currently operate at LOS B during the weekday morning and weekday evening peak hours.

Under Year 2029 total projected conditions, the eastbound and westbound approaches are projected to operate at LOS B during the weekday morning peak hour and LOS C during the weekday evening peak hour with increases in delay of approximately one second or less. As such, this intersection has adequate reserve capacity to accommodate the traffic estimated to be generated by the proposed development and no roadway improvements and/or traffic control modifications are required.

## Thacker Street with Laurel Avenue

The results of the capacity analysis indicate that the southbound approach currently operates at LOS B during the weekday morning and weekday evening peak hours while the eastbound leftturn movement operates at LOS A during both peak hours.

Under Year 2029 total projected conditions, the southbound approach and the eastbound left-turn movement are projected to continue operating at the same existing levels of service during both peak hours with increases in delay of less than one second. As such, the traffic estimated to be generated by the proposed development will have a limited impact on the operation of this intersection and no roadway improvements and/or traffic control modifications are required.

## Thacker Street with First Avenue

The results of the capacity analysis indicate that the southbound approach currently operates at LOS B during the weekday morning and weekday evening peak hours while the eastbound leftturn movement operates at LOS A during both peak hours.

Under Year 2029 total projected conditions, the southbound approach and the eastbound left-turn movement are projected to continue operating at the same existing levels of service during both peak hours with increases in delay of less than one second. As such, the traffic estimated to be generated by the proposed development will have a limited impact on the operation of this intersection and no roadway improvements and/or traffic control modifications are required.

## Thacker Street with Jeannette Street

The results of the capacity analysis indicate that the northbound approach currently operates at LOS B during the weekday morning and weekday evening peak hours while the westbound leftturn movement operates at LOS A during both peak hours.

Under Year 2029 total projected conditions, the northbound approach and the westbound left-turn movement are projected to continue operating at the same existing levels of service during both peak hours with increases in delay of less than one second. As such, the traffic estimated to be generated by the proposed development will have a limited impact on the operation of this intersection and no roadway improvements and/or traffic control modifications are required.

## Thacker Street with West Alley

The results of the capacity analysis indicate that the southbound approach currently operates at LOS B during the weekday morning and weekday evening peak hours and the eastbound left-turn operates at LOS A during both peak hours.

Under Year 2029 total projected conditions, the southbound approach and the eastbound left-turn are projected to continue operating at the existing levels of service during both peak hours with increases in delay of less than one second. As such, the traffic estimated to be generated by the proposed development will have a limited impact on the operation of this intersection and no roadway improvements and/or traffic control modifications are required

## Thacker Street with East Alley

The results of the capacity analysis indicate that the northbound and southbound approaches currently operate at LOS B during the weekday morning and weekday evening peak hours. the eastbound and the westbound left-turn movements currently operate at LOS A during both peak hours.

Under Year 2029 total projected conditions, the northbound approach is projected to operate at LOS C during the weekday morning peak hour and LOS B during the weekday evening peak hour with increases in delay of less than four seconds. The southbound approach is projected to continue operating at LOS B during both peak hours with increases in delay of less than two seconds. The eastbound and westbound left-turn movements are projected to continue operating at LOS A during both peak hours with increases in delay of less than one second. As such, this intersection has adequate reserve capacity to accommodate the traffic estimated to be generated by the proposed development and no roadway improvements and/or traffic control modifications are required.

## Oakwood Avenue with East Alley

The results of the capacity analysis indicate that the southbound approach and the eastbound leftturn movement currently operate at LOS A during the weekday morning and weekday evening peak hour.

Under Year 2029 total projected conditions, the southbound approach and the eastbound left-turn movement are projected to continue operating at LOS A during both peak hours with increases in delay of less than one second. As such, the traffic estimated to be generated by the proposed development will have a limited impact on the operation of this intersection and no roadway improvements and/or traffic control modifications are required.

## East Alley with Proposed Access Drive

The proposed full-movement access drive off the east alley will provide one inbound lane and one outbound lane with the outbound movements under stop sign control.

Under Year 2029 total projected conditions, the eastbound approach and the northbound left-turn movement are projected to operate at LOS A during the weekday morning and weekday evening peak hours. As such, this intersection will be adequate to accommodate the traffic estimated to be generated by the proposed development and will ensure efficient access to the site.

## Oakwood Avenue with Proposed Access Drive

The proposed full-movement access drive off Oakwood Avenue will provide one inbound lane and one outbound lane with the outbound movements under stop sign control.

Under Year 2029 total projected conditions, the southbound approach and the eastbound left-turn movement are projected to operate at LOS A during both peak hours. As such, this intersection will be adequate to accommodate the traffic estimated to be generated by the proposed development and will ensure efficient access to the site.

## Parking Evaluation

As previously indicated, the proposed development will have approximately 56 apartment units (41 one-bedroom units and 15 two-bedroom units) with 64 parking spaces. In order to determine the projected parking demand of the proposed development, the parking demand was estimated based on the City of Des Plaines Code of Ordinances and parking rates published in the Institute of Transportation Engineers' (ITE) Parking Generation Manual, $5^{\text {th }}$ Edition. Based on the two methodologies, the parking demand for the proposed development is as follows:

## Parking Requirements of Proposed Development per City Code

- Multifamily Housing (56 Units)
- 1 parking space per studio or one-bedroom unit
- $\quad 1.5$ parking spaces per two-bedroom unit

Based on the above and the requirements of the City of Des Plaines, this translates into 64 parking spaces It is also important to note that this ratio does not take into account the proximity of the site to the Metra train station.

## ITE Parking Generation Manual

- $\quad$ Residential Use (Multifamily Housing Mid-Rise - Land Use Code 221)
- $\quad 0.75$ space per bedroom

Based on the above and the rates published in the ITE Parking Generation Manual, the above translates into 54 parking spaces based on the number of bedrooms which results in a surplus of 10 parking spaces. Therefore, the proposed parking supply of 64 parking spaces meets ITE's requirements of 54 parking spaces.

## 6. Conclusion

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

- The volume of traffic projected to be generated by the proposed development will be reduced due to the proximity of the development to the Des Plaines Metra train station.
- The results of the capacity analysis indicate that the proposed development traffic will not have a significant impact on the area roadways.
- Access to the development will be provided via a full-movement access drive off Oakwood Avenue located approximately 260 feet east of Graceland Avenue and a full-movement access drive off the alley located approximately 320 feet north of Oakwood Avenue. Both access drives will provide one inbound lane and one outbound lane with the outbound movements under stop sign control.
- The proposed access drives will be adequate in accommodating the traffic projected to be generated by the proposed development and will ensure that a flexible access system is provided.
- The proposed parking supply of 64 spaces will meet the City of Des Plaines and ITE requirements.


## Appendix

## Traffic Count Summary Sheets Site Plan

 ITE Trip Generation Summary Sheets Level of Service Criteria Capacity Analysis Summary Sheets
## Traffic Count Summary Sheets

Count Name: Graceland Avenue with North Accesco Drves TMC
Site Code:
Start Date: $04 / 26 / 2023$ Start Date: 04/26/2023
Page No: 1

## 




.

$\stackrel{5}{3} 00000000000.1000000000000000$
$\qquad$
Turning Movement Data




Rosemont, Illinois, United States 60018
(847)518-9990 sainkeshavarzi@kloainc.com West Access Drive
Eastbound aceland Avenue
Northbound
Thru $\frac{0}{2} 00000000000$ 0000000000
 $\stackrel{5}{9} 00000000000$

 ~

Count Name: Graceland Avenue with North
Access Drives TMC
Site Code:
Start Date: $04 / 26 / 2023$
Page No: 2
Kenig Lindgren O'Hara Aboona, Inc.
9575 W. Higgins Rd., Suite 400



| Turning Movement Peak Hour Data (8:00 AM) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | West Access Drive Eastbound |  |  |  |  | Graceland Avenue <br> Northbound |  |  |  |  | Graceland Avenue Southbound |  |  |  |  | Int. Total |
|  |  |  |  |  |  | U-Turn | Left | $\begin{aligned} & \text { lorthbour } \\ & \text { Thru } \end{aligned}$ | Peds | App. Total | U-Turn | Thru | $\begin{aligned} & \text { outhbour } \\ & \text { Right } \end{aligned}$ | Peds | App. Total |  |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 152 | 0 | 0 | 152 | 152 |
| 8:15 AM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 135 | 0 | 0 | 135 | 135 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 117 | 0 | 0 | 117 | 117 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 138 | 0 | 0 | 138 | 138 |
| Total | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 542 | 0 | 0 | 542 | 542 |
| Approach \% | 0.0 | 0.0 | 0.0 | - | - | 0.0 | 0.0 | 0.0 | - | - | 0.0 | 100.0 | 0.0 | - | . | - |
| Total \% | 0.0 | 0.0 | 0.0 | - | 0.0 | 0.0 | 0.0 | 0.0 | - | 0.0 | 0.0 | 100.0 | 0.0 | - | 100.0 | - |
| PHF | 0.000 | 0.000 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | - | 0.000 | 0.000 | 0.891 | 0.000 | - | 0.891 | 0.891 |
| Lights | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | - | 0 | 0 | 522 | 0 | - | 522 | 522 |
| \% Lights | - | - | - | - | - | - | - | - | - | - | - | 96.3 | - | - | 96.3 | 96.3 |
| Buses | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | - | 0 | 0 | 12 | 0 | - | 12 | 12 |
| \% Buses | . | - | . | - | . | - | . | - | - | - | . | 2.2 | - | - | 2.2 | 2.2 |
| Single-Unit Trucks | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | - | 0 | 0 | 4 | 0 | - | 4 | 4 |
| \% Single-Unit Trucks | - |  |  | - | - | - |  | - | - | - | - | 0.7 |  | - | 0.7 | 0.7 |
| Arriculated Trucks | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | - | 0 | 0 | 4 | 0 | - | 4 | 4 |
| \% Articulated Trucks | - | - | - | - | - | - | - | - | - | - | - | 0.7 | - | - | 0.7 | 0.7 |
| Bicycles on Road | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | - | 0 | 0 |
| \% Bicycles on Road |  |  | - | - | - | - | - | - | - | - | - | 0.0 | - | - | 0.0 | 0.0 |
| Pedestrians | . | - | - |  | . | - | - | - | 0 | - | - | - | - | 0 | - | - |
| \% Pedestrians | . | - | - | 100.0 | - | . | - | - | - | - | - | - | - | - | - | - |

Count Name: Graceland Avenue with Oakwood Site Code:
Start Date: 04/27/2023

Start Date: 04/27/2023
Page No: 1



$\qquad$
$\stackrel{\overline{\mathrm{g}}}{\stackrel{\circ}{6}}$




## Kenig Lindgren O'Hara Aboona, Inc. 9575 W . Higgins Rd., Suite 400 <br> Rosemont, Illinois, United States 60018

Turning Movement Data


| Start Time |
| :---: |
| 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 |
| 世** BREAK |
| 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 |
| Grand Total |
| Approach \% |
| Total \% |
| Ligts |
| \% Lights |
| Buses |
| \% Buses |
| Single-Unit Trucks |
| \% Single-Unit Trucks |
| Articulated Trucks |
| \% Ariculated Trucks |
| Biccles on Road |
| \% Bicycle on Road |
| Pedestrians |
| \% Pedestrians |

Count Name: Graceland Avenue with Oakwood
Site Code:
Start Date: 04/27/2023
Page No: 2
Page No: 2

| Turning Movement Peak Hour Data (4:45 PM) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Oakwood Avenue <br> Westbound |  |  |  |  | Graceland Avenue |  |  |  |  | Graceland Avenue Southbound |  |  |  |  | Int. Total |
|  | U-Turn | Left | estboun Right | Peds | App. Total | U-Turn | Thru | $\begin{gathered} \text { Northbour } \\ \text { Right } \end{gathered}$ | Peds | App. Total | U-Turn | Left | $\begin{aligned} & \text { Duthbour } \\ & \text { Thru } \end{aligned}$ | Peds | App. Total |  |
| 4:45 PM | 0 | 8 | 0 | 1 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 143 | 0 | 151 | 159 |
| 5:00 PM | 0 | 6 | 0 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 142 | 0 | 144 | 150 |
| 5:15 PM | 0 | 10 | 0 | 1 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 162 | 0 | 163 | 173 |
| 5:30 PM | 0 | 5 | 0 | 1 | 5 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 116 | 0 | 118 | 124 |
| Total | 0 | 29 | 0 | 4 | 29 | 0 | 1 | 0 | 0 | 1 | 0 | 13 | 563 | 0 | 576 | 606 |
| Approach \% | 0.0 | 100.0 | 0.0 | . | - | 0.0 | 100.0 | 0.0 | - | . | 0.0 | 2.3 | 97.7 | . | - | - |
| Total \% | 0.0 | 4.8 | 0.0 | - | 4.8 | 0.0 | 0.2 | 0.0 | - | 0.2 | 0.0 | 2.1 | 92.9 | - | 95.0 | - |
| PHF | 0.000 | 0.725 | 0.000 | - | 0.725 | 0.000 | 0.250 | 0.000 | - | 0.250 | 0.000 | 0.406 | 0.869 | - | 0.883 | 0.876 |
| Lights | 0 | 29 | 0 | - | 29 | 0 | 0 | 0 | - | 0 | 0 | 11 | 556 | - | 567 | 596 |
| \% Lights | - | 100.0 | - | - | 100.0 | - | 0.0 | - | - | 0.0 | - | 84.6 | 98.8 | - | 98.4 | 98.3 |
| Buses | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 3 | - | 3 | 3 |
| \% Buses | . | 0.0 | - | - | 0.0 | . | 0.0 | - | - | 0.0 | - | 0.0 | 0.5 | - | 0.5 | 0.5 |
| Single-Unit Trucks | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | - | 0 | 0 | 2 | 1 | - | 3 | 3 |
| \% Single-Unit Trucks | - | 0.0 | - | - | 0.0 | - | 0.0 |  | - | 0.0 | - | 15.4 | 0.2 | - | 0.5 | 0.5 |
| Ariculated Trucks | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 3 | - | 3 | 3 |
| \% Articulated Trucks | . | 0.0 | - | - | 0.0 | - | 0.0 | - | - | 0.0 | - | 0.0 | 0.5 | - | 0.5 | 0.5 |
| Bicycles on Road | 0 | 0 | 0 | - | 0 | 0 | 1 | 0 | - | 1 | 0 | 0 | 0 | - | 0 | 1 |
| \% Bicycles on Road | - | 0.0 | - | - | 0.0 | . | 100.0 | - | - | 100.0 | - | 0.0 | 0.0 | - | 0.0 | 0.2 |
| Pedestrians | . | - | . | 4 | - | . | - | - | 0 | - | - | - | - | 0 | - | - |
| \% Pedestrians | . | - | - | 100.0 | - | - | - | - | - | - | - | - | - | - | - | - |

Count Name: Graceland Avenue with Oakwood
Site Code:
Start Date: $04 / 27 / 2023$
Page No: 3

| Turning Movement Peak Hour Data (8:00 AM) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Oakwood Avenue Westbound |  |  |  |  | Graceland Avenue Northbound |  |  |  |  | Graceland Avenue Southbound |  |  |  |  |  |
|  |  |  |  |  |  | U-Turn | Thru | Northbou Right | Peds | App. Total | U-Turn | Left | Thru | Peds | App. Total | Int. Total |
| 8:00 AM | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 143 | 0 | 147 | 150 |
| 8:15 AM | 0 | 3 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 131 | 0 | 133 | 136 |
| 8:30 AM | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 139 | 0 | 143 | 150 |
| 8:45 AM | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 125 | 0 | 127 | 130 |
| Total | 0 | 16 | 0 | 1 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 538 | 0 | 550 | 566 |
| Approach \% | 0.0 | 100.0 | 0.0 | - | . | 0.0 | 0.0 | 0.0 | - | . | 0.0 | 2.2 | 97.8 | - | . | - |
| Total \% | 0.0 | 2.8 | 0.0 | - | 2.8 | 0.0 | 0.0 | 0.0 | - | 0.0 | 0.0 | 2.1 | 95.1 | - | 97.2 | - |
| PHF | 0.000 | 0.571 | 0.000 | - | 0.571 | 0.000 | 0.000 | 0.000 | - | 0.000 | 0.000 | 0.750 | 0.941 | - | 0.935 | 0.943 |
| Lights | 0 | 14 | 0 | - | 14 | 0 | 0 | 0 | - | 0 | 0 | 8 | 519 | - | 527 | 541 |
| \% Lights | - | 87.5 | - | - | 87.5 | - | - | - | - | - | - | 66.7 | 96.5 | - | 95.8 | 95.6 |
| Buses | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 10 | - | 10 | 10 |
| \% Buses | . | 0.0 | . | . | 0.0 | - | - | - | - | - | - | 0.0 | 1.9 | - | 1.8 | 1.8 |
| Single-Unit Trucks | 0 | 2 | 0 | - | 2 | 0 | 0 | 0 | - | 0 | 0 | 4 | 5 | - | 9 | 11 |
| \% Single-Unit Trucks | - | 12.5 | - | - | 12.5 | - | - | - | - | - |  | 33.3 | 0.9 | - | 1.6 | 1.9 |
| Articulated Trucks | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 4 | - | 4 | 4 |
| \% Articulated Trucks | - | 0.0 | - | - | 0.0 | - | - | - | - | - | - | 0.0 | 0.7 | - | 0.7 | 0.7 |
| Bicycles on Road | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | - | 0 | 0 |
| \% Bicycles on Road | - | 0.0 | - | - | 0.0 | - | - | - | - | - | - | 0.0 | 0.0 | - | 0.0 | 0.0 |
| Pedestrians | . | - | . | 1 | - | - | . | . |  | . | . | - | - | 0 | - | - |
| \% Pedestrians | . | . | - | 100.0 | - | . | - | - | - | - | - | - | - | - | - | - |



| $\begin{aligned} & \text { \% Bicycles on } \\ & \text { Road } \end{aligned}$ | - | - | 0.4 | 2.9 | - | 0.5 | - | 0.0 | 0.6 | - | - | 0.6 | - | 2.3 | - | 0.0 | - | 0.8 | - | - | - | - | - | - | 0.6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pedestrians | . | . | - | . | 2 | . | - | - | - | . | 9 | - | . | - | . | - | 0 | - | - | - | - | - | 29 | - | - |
| \% Pedestrians | - | . | . | . | 100.0 | . | . | . | - | . | 100.0 | . | . | . | . | . | - | . | - | . | - | - | 100.0 | - | - |

Count Name: Jeanette Street with Thacker
Street TMC
Site Code:
Start Date: $04 / 11 / 2023$
Page No: 3

| Start Time | Thacker Street Eastbound |  |  |  |  |  | Turning Movement Peak Hour Data (8:00 AM) <br> Thacker Street <br> Westbound <br> Jeanette Street <br> Northbound |  |  |  |  |  |  |  |  |  |  |  | Schmika Auto Access Drive Southbound |  |  |  |  |  | Int. Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | U-Turn | Left | Thru | Right | Peds | $\begin{aligned} & \text { App. } \\ & \text { Total } \\ & \hline \end{aligned}$ | U-Turn | Left | Thru | Right | Peds | $\begin{aligned} & \text { App. } \\ & \text { Total } \end{aligned}$ | U-Turn | Left | Thru | Right | Peds | $\begin{aligned} & \text { App. } \\ & \text { Total } \end{aligned}$ | U-Turn | Left | Thru | Right | Peds | $\begin{aligned} & \text { App. } \\ & \text { Total } \end{aligned}$ |  |
| 8:00 AM | 0 | 0 | 65 | 2 | 0 | 67 | 0 | 5 | 45 | 0 | 0 | 50 | 0 | 2 | 0 | 4 | 0 | 6 | 0 | 0 | 0 | 0 | 1 | 0 | 123 |
| 8:15 AM | 0 | 0 | 65 | 5 | 0 | 70 | 0 | 6 | 54 | 0 | 0 | 60 | 0 | 7 | 0 | 3 |  | 10 | 0 | 0 | 0 | 0 | 4 | 0 | 140 |
| 8:30 AM | 0 | 0 | 55 | 4 | 0 | 59 | 0 | 0 | 46 | 0 | 1 | 46 | 0 | 2 | 0 | 4 | 0 | 6 | 0 | 0 | 0 | 0 | 2 | 0 | 111 |
| 8:45 AM | 0 | 0 | 73 | 1 | 0 | 74 | 0 | 1 | 51 | 0 | 0 | 52 | 0 | 2 | 0 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 130 |
| Total | 0 | 0 | 258 | 12 | 0 | 270 | 0 | 12 | 196 | 0 | 1 | 208 | 0 | 13 | 0 | 13 | 0 | 26 | 0 | 0 | 0 | 0 | 7 | 0 | 504 |
| Approach \% | 0.0 | 0.0 | 95.6 | 4.4 | - | - | 0.0 | 5.8 | 94.2 | 0.0 | - | - | 0.0 | 50.0 | 0.0 | 50.0 | - | - | 0.0 | 0.0 | 0.0 | 0.0 | - | - | - |
| Total \% | 0.0 | 0.0 | 51.2 | 2.4 | - | 53.6 | 0.0 | 2.4 | 38.9 | 0.0 | - | 41.3 | 0.0 | 2.6 | 0.0 | 2.6 | - | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | - | 0.0 | - |
| PHF | 0.000 | 0.000 | 0.884 | 0.600 | - | 0.912 | 0.000 | 0.500 | 0.907 | 0.000 | - | 0.867 | 0.000 | 0.464 | 0.000 | 0.813 | - | 0.650 | 0.000 | 0.000 | 0.000 | 0.000 | - | 0.000 | 0.900 |
| Lights | 0 | 0 | 247 | 12 | - | 259 | 0 | 11 | 185 | 0 | - | 196 | 0 | 13 | 0 | 13 | - | 26 | 0 | 0 | 0 | 0 | - | 0 | 481 |
| \% Lights | - | - | 95.7 | 100.0 | - | 95.9 | - | 91.7 | 94.4 | - | - | 94.2 | - | 100.0 | - | 100.0 | - | 100.0 | - | - | - | - | - | - | 95.4 |
| Buses | 0 | 0 | 4 | 0 | - | 4 | 0 | 0 | 6 | 0 | - | 6 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 10 |
| \% Buses | - | - | 1.6 | 0.0 | - | 1.5 | - | 0.0 | 3.1 | - | $\checkmark$ | 2.9 | - | 0.0 | - | 0.0 | - | 0.0 | - | - | - | - | $\cdots$ | - | 2.0 |
| Single-Unit Trucks | 0 | 0 | 5 | 0 | - | 5 | 0 | 1 | 4 | 0 | - | 5 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 10 |
| $\begin{gathered} \text { \% Single-Unit } \\ \text { Trucks } \\ \hline \end{gathered}$ | - | - | 1.9 | 0.0 | - | 1.9 | - | 8.3 | 2.0 | - | - | 2.4 | - | 0.0 | - | 0.0 | - | 0.0 | - | - | - | - | - | - | 2.0 |
| Articulated Trucks | 0 | 0 | 1 | 0 | - | 1 | 0 | 0 | 1 | 0 | - | 1 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 2 |
| \% Articulated Trucks | - | - | 0.4 | 0.0 | - | 0.4 | - | 0.0 | 0.5 | - | - | 0.5 | - | 0.0 | - | 0.0 | - | 0.0 | - | . | - | - | - | - | 0.4 |
| Bicycles on Road | 0 | 0 | 1 | 0 | - | 1 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 1 |
| \% Bicycles on Road | . | . | 0.4 | 0.0 | - | 0.4 | . | 0.0 | 0.0 | - | - | 0.0 | . | 0.0 | - | 0.0 | - | 0.0 | . | - | - | - | - | - | 0.2 |
| Pedestrians | - | - | - | - | 0 | - | - | - | - | - | 1 | - | - | - | - | - | 0 | - | - | - | - | - | 7 | - | - |
| \% Pedestrians | - | - | - | - | - | - | - | - | - | - | 100.0 | - | - | - | - | - | $\cdots$ | - | - | - | - | - | 100.0 | - | - |

Count Name: Jeanette Street with Thacker
Street TMC
Site Code:
Start Date: $04 / 11 / 2023$
Page No: 4

| Start Time |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Schmika Auto Access Drive Southbound |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | U-Turn | Left | Thru | Right | Peds | App. Total | U-Turn | Left | Thru | Right | Peds | App. Total | U-Turn | Left | Thru | Right | Peds | App. Total | U-Turn | Left | Thru | Right | Peds | App. Total | Int. Total |
| 4:45 PM | 0 | 0 | 52 | 1 | 0 | 53 | 0 | 2 | 74 | 0 | 3 | 76 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 3 | 0 | 133 |
| 5:00 PM | 0 | 0 | 62 | 2 | 1 | 64 | 0 | 3 | 94 | 0 | 1 | 97 | 0 | 1 | 0 | 4 | 0 | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 166 |
| 5:15 PM | 0 | 0 | 71 | 4 | 1 | 75 | 0 | 3 | 83 | 0 | 0 | 86 | 0 | 2 | 0 | 6 | 0 | 8 | 0 | 0 | 0 | 0 | 4 | 0 | 169 |
| 5:30 PM | 0 | 0 | 57 | 2 | 0 | 59 | 0 | 1 | 79 | 0 | 1 | 80 | 0 | 1 | 0 | 6 | 0 | 7 | 0 | 0 | 0 | 0 | 2 | 0 | 146 |
| Total | 0 | 0 | 242 | 9 | 2 | 251 | 0 | 9 | 330 | 0 | 5 | 339 | 0 | 4 | 0 | 20 | 0 | 24 | 0 | 0 | 0 | 0 | 10 | 0 | 614 |
| Approach \% | 0.0 | 0.0 | 96.4 | 3.6 | - | - | 0.0 | 2.7 | 97.3 | 0.0 | - | - | 0.0 | 16.7 | 0.0 | 83.3 | - | - | 0.0 | 0.0 | 0.0 | 0.0 | - | - | - |
| Total \% | 0.0 | 0.0 | 39.4 | 1.5 | - | 40.9 | 0.0 | 1.5 | 53.7 | 0.0 | - | 55.2 | 0.0 | 0.7 | 0.0 | 3.3 | $\checkmark$ | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | - | 0.0 | - |
| PHF | 0.000 | 0.000 | 0.852 | 0.563 | - | 0.837 | 0.000 | 0.750 | 0.878 | 0.000 | - | 0.874 | 0.000 | 0.500 | 0.000 | 0.833 | - | 0.750 | 0.000 | 0.000 | 0.000 | 0.000 | - | 0.000 | 0.908 |
| Lights | 0 | 0 | 236 | 9 | - | 245 | 0 | 9 | 320 | 0 | - | 329 | 0 | 4 | 0 | 20 | - | 24 | 0 | 0 | 0 | 0 | - | 0 | 598 |
| \% Lights | - | - | 97.5 | 100.0 | - | 97.6 | - | 100.0 | 97.0 | - | - | 97.1 | - | 100.0 | - | 100.0 | - | 100.0 | - | - | - | - | $\checkmark$ | - | 97.4 |
| Buses | 0 | 0 | 1 | 0 | - | 1 | 0 | 0 | 3 | 0 | - | 3 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 4 |
| \% Buses | - | - | 0.4 | 0.0 | - | 0.4 | - | 0.0 | 0.9 | - | - | 0.9 | - | 0.0 | - | 0.0 | - | 0.0 | - | - | - | - | - | - | 0.7 |
| Single-Unit Trucks | 0 | 0 | 2 | 0 | - | 2 | 0 | 0 | 5 | 0 | - | 5 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 7 |
| \% Single-Unit Trucks | . | - | 0.8 | 0.0 | - | 0.8 | - | 0.0 | 1.5 | - | - | 1.5 | . | 0.0 | . | 0.0 | - | 0.0 | - | - | - | - | - | . | 1.1 |
| Articulated Trucks | 0 | 0 | 1 | 0 | - | 1 | 0 | 0 | 1 | 0 | - | 1 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 2 |
| \% Articulated Trucks | . | . | 0.4 | 0.0 | - | 0.4 | . | 0.0 | 0.3 | . | - | 0.3 | . | 0.0 | . | 0.0 | - | 0.0 | - | . | . | - | - | . | 0.3 |
| Bicycles on Road | 0 | 0 | 2 | 0 | - | 2 | 0 | 0 | 1 | 0 | - | 1 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 3 |
| \% Bicycles on Road | - | - | 0.8 | 0.0 | - | 0.8 | - | 0.0 | 0.3 | - | - | 0.3 | . | 0.0 | - | 0.0 | - | 0.0 | . | - | . | . | - | . | 0.5 |
| Pedestrians | - | - | - | - | 2 | - | - | - | - | - | 5 | - | - | - | - | - | 0 | - | - | - | - | - | 10 | - | - |
| \% Pedestrians | - |  | - | $\cdot$ | 100.0 | - | - | - | - | - | 100.0 | - | - | - | - | - | - | - | - | - | - | - | 100.0 | - | - |

Count Name: Laurel Avenue with Thacker Street
Site Code:
Start Date: $04 / 11 / 2023$
Page No: 1
Site Code:
Start Date: $04 / 11 / 2023$
Page No: 1



[^9]Turning Movement Data Westbound
Right
 $\stackrel{5}{3} 000000000000$ 00000000000000
 .

| Start Time | Thacker Street <br> Eastbound <br> Thru |  |  |  |  | Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | App. Total

Count Name: Laurel Avenue with Thacker Street

Count Name: Laurel Avenue with Thacker Street



## Turning Movement Data




| \% Bicycles on | 0.0 | 0.0 | 0.0 | 33.3 | - | 1.6 | - | 0.0 | 0.0 | 0.0 | - | 0.0 |  | 0.0 | 0.0 | 0.0 | - | 0.0 |  | 100.0 |  | 100.0 |  | 100.0 | 0.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pedestrians | . | . | - | . | 22 | - | - | - | - | - | 22 | - | - | - | - | - | 6 | - | - | - | - | - | 7 | . | - |
| \% Pedestrians | . | . | - | . | 100.0 | . |  | - | - | . | 100.0 |  |  | . |  | . | 100.0 |  |  |  |  | . | 100.0 | . |  |

Count Name: Lee Street with Oakwood Avenue
Site Code:
Start Date: $04 / 26 / 2023$
Page No: 3

Count Name: Lee Street with Oakwood Avenue Site Code:
Stert Date: 04/26/2023
Stage No: 4

| Start Time |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Lee Street Southbound |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | U-Turn | Left | Thru | Right | Peds | App. <br> Total | U-Turn | Left | Thru | Right | Peds | App. <br> Total | U-Turn | Left | Thru | Right | Peds | App. <br> Total | U-Turn | Left | Thru | Right | Peds | App. Total | Int. Total |
| 8:00 AM | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 2 | 0 | 1 | 140 | 6 | 0 | 147 | 0 | 0 | 0 | 0 | 0 | 0 | 151 |
| 8:15 AM | 0 | 4 | 2 | 0 | 1 | 6 | 0 | 0 | 2 | 2 | 1 | 4 | 0 | 0 | 136 | 4 | 1 | 140 | 0 | 0 | 0 | 0 | 0 | 0 | 150 |
| 8:30 AM | 0 | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 2 | 135 | 5 | 0 | 142 | 0 | 0 | 0 | 0 | 0 | 0 | 146 |
| 8:45 AM | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 134 | 5 | 0 | 142 | 0 | 0 | 0 | 0 | 2 | 0 | 143 |
| Total | 0 | 6 | 5 | 0 | 3 | 11 | 0 | 0 | 5 | 3 | 3 | 8 | 0 | 6 | 545 | 20 | 1 | 571 | 0 | 0 | 0 | 0 | 2 | 0 | 590 |
| Approach \% | 0.0 | 54.5 | 45.5 | 0.0 | - | - | 0.0 | 0.0 | 62.5 | 37.5 | - | - | 0.0 | 1.1 | 95.4 | 3.5 | - | - | 0.0 | 0.0 | 0.0 | 0.0 | - | - | - |
| Total \% | 0.0 | 1.0 | 0.8 | 0.0 | - | 1.9 | 0.0 | 0.0 | 0.8 | 0.5 | - | 1.4 | 0.0 | 1.0 | 92.4 | 3.4 | - | 96.8 | 0.0 | 0.0 | 0.0 | 0.0 | - | 0.0 | - |
| PHF | 0.000 | 0.375 | 0.625 | 0.000 | - | 0.458 | 0.000 | 0.000 | 0.625 | 0.375 | - | 0.500 | 0.000 | 0.500 | 0.973 | 0.833 | - | 0.971 | 0.000 | 0.000 | 0.000 | 0.000 | $\cdots$ | 0.000 | 0.977 |
| Lights | 0 | 3 | 5 | 0 | - | 8 | 0 | 0 | 5 | 3 | - | 8 | 0 | 6 | 528 | 20 | - | 554 | 0 | 0 | 0 | 0 | - | 0 | 570 |
| \% Lights | - | 50.0 | 100.0 | - | - | 72.7 | - | - | 100.0 | 100.0 | - | 100.0 | - | 100.0 | 96.9 | 100.0 | - | 97.0 | - | - | - | - | - | - | 96.6 |
| Buses | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 8 | 0 | - | 8 | 0 | 0 | 0 | 0 | - | 0 | 8 |
| \% Buses | - | 0.0 | 0.0 | - | - | 0.0 | - | - | 0.0 | 0.0 | - | 0.0 | - | 0.0 | 1.5 | 0.0 | - | 1.4 | - | - | - | - | $\cdots$ | - | 1.4 |
| Single-Unit Trucks | 0 | 2 | 0 | 0 | - | 2 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 5 | 0 | - | 5 | 0 | 0 | 0 | 0 | - | 0 | 7 |
| \% Single-Unit Trucks | . | 33.3 | 0.0 | - | . | 18.2 | . | . | 0.0 | 0.0 | - | 0.0 | . | 0.0 | 0.9 | 0.0 | - | 0.9 | . | - | - | - | . | - | 1.2 |
| Articulated Trucks | 0 | 1 | 0 | 0 | - | 1 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 4 | 0 | - | 4 | 0 | 0 | 0 | 0 | - | 0 | 5 |
| Trucks <br> \% Articulated | - | 16.7 | 0.0 | . | - | 9.1 | - | - | 0.0 | 0.0 | - | 0.0 | - | 0.0 | 0.7 | 0.0 | - | 0.7 | - | . | - | - | - | - | 0.8 |
| Bicycles on Road | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 |
| \% Bicycles on Road | . | 0.0 | 0.0 | - | - | 0.0 | . | . | 0.0 | 0.0 | - | 0.0 | . | 0.0 | 0.0 | 0.0 | - | 0.0 | . | . | . | - | - | - | 0.0 |
| Pedestrians | - | - | - | - | 3 | - | - |  | - | - | 3 | - | $\checkmark$ | - | - | - | 1 | - | $\cdot$ | - | - | - | 2 | - | - |
| \% Pedestrians | - | - | - | - | 100.0 | - | - | - | - | - | 100.0 | - | - | - | - | - | 100.0 | - | - | - | - | - | 100.0 | - | - |




1
$\stackrel{\circ}{\circ} \cdot \stackrel{\circ}{\circ}$

1
1
rit
$\square$


 0.00000000000
 $\pm 00000000000.10000000000000000$
 $\qquad$ .0 $\qquad$



- | $\circ$ |
| :--- |
| $\stackrel{\circ}{0}$ |


䔎


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


| \% Bicycles on Road Pater | - | 0.0 | 0.0 | 0.0 | - | 0.0 | - | 0.0 | 0.2 | 0.0 | - | 0.1 | - | 0.0 | 0.0 | 0.0 | - | 0.0 | - | - | - | - | - | - | 0.0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pedestrians | . | . | . | - | 9 | - | - | - | - | - | 15 | - | . | - | - | - | 1 | - | - | - | - | - | 19 | - | . |
| \% Pedestrians | . | . | . | . | 100.0 | . | . | . | - | . | 100.0 | . | . | . | . | . | 100.0 | . | . | . | - | - | 100.0 | - | - |

Count Name: Lee Street with Thacker Street
Site Code:
Start Date: 04/25/2023
Page No: 3

| Start Time | Thacker Street Eastbound |  |  |  |  |  | Thacker Street <br> Westbound |  |  |  |  |  | Lee Street <br> Northbound |  |  |  |  |  | Lee Street Southbound |  |  |  |  |  | Int. Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | U-Turn | Left | Thru | Right | Peds | App. <br> Total | U-Turn | Left | Thru | Right | Peds | App. Total | U-Turn | Left | Thru | Right | Peds | App. | U-Turn | Left | Thru | Right | Peds | App. Total |  |
| 8:00 AM | 0 | 10 | 50 | 0 | 2 | 60 | 0 | 0 | 33 | 4 | 0 | 37 | 0 | 7 | 122 | 19 | 0 | 148 | 0 | 0 | 0 | 0 | 0 | 0 | 245 |
| 8:15 AM | 0 | 23 | 50 | 0 | 0 | 73 | 0 | 0 | 47 | 7 | 1 | 54 | 0 | 9 | 105 | 12 | 0 | 126 | 0 | 0 | 0 | 0 | 0 | 0 | 253 |
| 8:30 AM | 0 | 15 | 30 | 0 | 2 | 45 | 0 | 0 | 20 | 9 | 0 | 29 | 0 | 5 | 124 | 15 | 0 | 144 | 0 | 0 | 0 | 0 | 0 | 0 | 218 |
| 8:45 AM | 0 | 25 | 66 | 0 | 0 | 91 | 0 | 0 | 44 | 11 | 2 | 55 | 0 | 10 | 113 | 23 | 0 | 146 | 0 | 0 | 0 | 0 | 2 | 0 | 292 |
| Total | 0 | 73 | 196 | 0 | 4 | 269 | 0 | 0 | 144 | 31 | 3 | 175 | 0 | 31 | 464 | 69 | 0 | 564 | 0 | 0 | 0 | 0 | 2 | 0 | 1008 |
| Approach \% | 0.0 | 27.1 | 72.9 | 0.0 | - | - | 0.0 | 0.0 | 82.3 | 17.7 | - | - | 0.0 | 5.5 | 82.3 | 12.2 | - | - | 0.0 | 0.0 | 0.0 | 0.0 | - | - | - |
| Total \% | 0.0 | 7.2 | 19.4 | 0.0 | - | 26.7 | 0.0 | 0.0 | 14.3 | 3.1 | - | 17.4 | 0.0 | 3.1 | 46.0 | 6.8 | - | 56.0 | 0.0 | 0.0 | 0.0 | 0.0 | - | 0.0 | - |
| PHF | 0.000 | 0.730 | 0.742 | 0.000 | - | 0.739 | 0.000 | 0.000 | 0.766 | 0.705 | - | 0.795 | 0.000 | 0.775 | 0.935 | 0.750 | - | 0.953 | 0.000 | 0.000 | 0.000 | 0.000 | - | 0.000 | 0.863 |
| Lights | 0 | 68 | 194 | 0 | - | 262 | 0 | 0 | 138 | 30 | - | 168 | 0 | 30 | 433 | 69 | - | 532 | 0 | 0 | 0 | 0 | - | 0 | 962 |
| \% Lights | - | 93.2 | 99.0 | - | - | 97.4 | - | - | 95.8 | 96.8 | - | 96.0 | - | 96.8 | 93.3 | 100.0 | - | 94.3 | - | - | - | - | $\checkmark$ | - | 95.4 |
| Buses | 0 | 3 | 1 | 0 | - | 4 | 0 | 0 | 3 | 1 | - | 4 | 0 | 0 | 8 | 0 | - | 8 | 0 | 0 | 0 | 0 | - | 0 | 16 |
| \% Buses | - | 4.1 | 0.5 | - | - | 1.5 | - | - | 2.1 | 3.2 | - | 2.3 | - | 0.0 | 1.7 | 0.0 | - | 1.4 | - | - | - | - | - | - | 1.6 |
| Single-Unit Trucks | 0 | 1 | 1 | 0 | - | 2 | 0 | 0 | 3 | 0 | - | 3 | 0 | 1 | 11 | 0 | - | 12 | 0 | 0 | 0 | 0 | - | 0 | 17 |
| \% Single-Unit Trucks | - | 1.4 | 0.5 | - | - | 0.7 | . | . | 2.1 | 0.0 | - | 1.7 | . | 3.2 | 2.4 | 0.0 | - | 2.1 | . | - | - | . | - | - | 1.7 |
| Articulated Trucks | 0 | 1 | 0 | 0 | - | 1 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 12 | 0 | - | 12 | 0 | 0 | 0 | 0 | - | 0 | 13 |
| \% Articulated Trucks | - | 1.4 | 0.0 | . | - | 0.4 | - | - | 0.0 | 0.0 | - | 0.0 | . | 0.0 | 2.6 | 0.0 | - | 2.1 | - | - | . | - | - | - | 1.3 |
| 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 |
| Pedestrians | - | - | - | - | 4 | - | - | - | - | - | 3 | - | - | - | - | - | 0 | - | - | - | - | - | 2 | - | - |
| \% Pedestrians | - | - | - | - | 100.0 | - | - | - | - | - | 100.0 | - | - | - | - | - | - | - | - | - | - | - | 100.0 | - | - |

Count Name: Lee Street with Thacker Street Site Code
Start Date
Page No:
Site Code:
Start Date: 04/25/2023
Page No: 4

| Start Time | Thacker Street Eastbound |  |  |  |  |  | Thacker Street <br> Westbound |  |  |  |  |  | Lee Street <br> Northbound |  |  |  |  |  | Lee Street Southbound |  |  |  |  |  | Int. Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | U-Turn | Left | Thru | Right | Peds | App. <br> Total | U-Turn | Left | Thru | Right | Peds | App. Total | U-Turn | Left | Thru | Right | Peds | App. | U-Turn | Left | Thru | Right | Peds | App. Total |  |
| 4:45 PM | 0 | 16 | 41 | 0 | 0 | 57 | 0 | 0 | 62 | 6 | 1 | 68 | 0 | 15 | 134 | 22 | 0 | 171 | 0 | 0 | 0 | 0 | 1 | 0 | 296 |
| 5:00 PM | 0 | 20 | 33 | 0 | 0 | 53 | 0 | 0 | 42 | 7 | 0 | 49 | 0 | 14 | 138 | 22 | 0 | 174 | 0 | 0 | 0 | 0 | 0 | 0 | 276 |
| 5:15 PM | 0 | 15 | 30 | 0 | 1 | 45 | 0 | 0 | 44 | 2 | 2 | 46 | 0 | 18 | 122 | 23 | 0 | 163 | 0 | 0 | 0 | 0 | 1 | 0 | 254 |
| 5:30 PM | 0 | 26 | 35 | 0 | 0 | 61 | 0 | 0 | 34 | 7 | 2 | 41 | 0 | 12 | 130 | 23 | 0 | 165 | 0 | 0 | 0 | 0 | 0 | 0 | 267 |
| Total | 0 | 77 | 139 | 0 | 1 | 216 | 0 | 0 | 182 | 22 | 5 | 204 | 0 | 59 | 524 | 90 | 0 | 673 | 0 | 0 | 0 | 0 | 2 | 0 | 1093 |
| Approach \% | 0.0 | 35.6 | 64.4 | 0.0 | - | - | 0.0 | 0.0 | 89.2 | 10.8 | - | - | 0.0 | 8.8 | 77.9 | 13.4 | - | - | 0.0 | 0.0 | 0.0 | 0.0 | - | - | - |
| Total \% | 0.0 | 7.0 | 12.7 | 0.0 | - | 19.8 | 0.0 | 0.0 | 16.7 | 2.0 | - | 18.7 | 0.0 | 5.4 | 47.9 | 8.2 | - | 61.6 | 0.0 | 0.0 | 0.0 | 0.0 | - | 0.0 | - |
| PHF | 0.000 | 0.740 | 0.848 | 0.000 | - | 0.885 | 0.000 | 0.000 | 0.734 | 0.786 | - | 0.750 | 0.000 | 0.819 | 0.949 | 0.978 | - | 0.967 | 0.000 | 0.000 | 0.000 | 0.000 | - | 0.000 | 0.923 |
| Lights | 0 | 75 | 137 | 0 | - | 212 | 0 | 0 | 182 | 18 | - | 200 | 0 | 58 | 514 | 88 | - | 660 | 0 | 0 | 0 | 0 | - | 0 | 1072 |
| \% Lights | - | 97.4 | 98.6 | - | - | 98.1 | - | - | 100.0 | 81.8 | - | 98.0 | - | 98.3 | 98.1 | 97.8 | - | 98.1 | - | - | - | - | - | - | 98.1 |
| Buses | 0 | 1 | 0 | 0 | - | 1 | 0 | 0 | 0 | 4 | - | 4 | 0 | 0 | 5 | 0 | - | 5 | 0 | 0 | 0 | 0 | - | 0 | 10 |
| \% Buses | - | 1.3 | 0.0 | - | - | 0.5 | - | - | 0.0 | 18.2 | - | 2.0 | - | 0.0 | 1.0 | 0.0 | - | 0.7 | - | - | - | - | - | - | 0.9 |
| Single-Unit Trucks | 0 | 1 | 1 | 0 | - | 2 | 0 | 0 | 0 | 0 | - | 0 | 0 | 1 | 1 | 2 | - | 4 | 0 | 0 | 0 | 0 | - | 0 | 6 |
| \% Single-Unit Trucks | - | 1.3 | 0.7 | - | - | 0.9 | - | . | 0.0 | 0.0 | - | 0.0 | . | 1.7 | 0.2 | 2.2 | - | 0.6 | - | . | . | . | - | - | 0.5 |
| Articulated Trucks | 0 | 0 | 1 | 0 | - | 1 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 4 | 0 | - | 4 | 0 | 0 | 0 | 0 | - | 0 | 5 |
| $\begin{gathered} \text { \% Articulated } \\ \text { Trucks } \\ \hline \end{gathered}$ | . | 0.0 | 0.7 | . | - | 0.5 | - | - | 0.0 | 0.0 | - | 0.0 | - | 0.0 | 0.8 | 0.0 | - | 0.6 | - | - | - | - | - | - | 0.5 |
| 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 |
| Pedestrians | - | - | - | - | 1 | - | - | - | - | - | 5 | - | - | - | - | - | 0 | - | - | - | - | - | 2 | - | - |
| \% Pedestrians | - | - | - | - | 100.0 | - | - | - | - | - | 100.0 | - | - | - | - | - | - | - | - | - | - | - | 100.0 | - | - |

Count Name: Oakland Avenue with Graceland Avenue TMC
Site Code:
Start Date: 0
Pat
Start Date: 04/11/2023
Page No: 3

| Start Time | Turning Movement Peak Hour Data (8:00 AM) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Graceland Avenue Southbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Oakwood Avenue Eastbound |  |  |  |  |  | East Access DriveWestbound |  |  |  |  |  | Graceland Avenue Northbound |  |  |  |  |  |  |  |  |  |  |  |
|  | U-Turn | Left | Thru | Right | Peds | $\begin{aligned} & \text { App. } \\ & \text { Total } \end{aligned}$ | U-Turn | Left | Thru | Right | Peds | $\begin{aligned} & \text { App. } \\ & \text { Total } \end{aligned}$ | U-Turn | Left | Thru | Right | Peds | App. | U-Turn | Left | Thru | Right | $\begin{aligned} & \text { Appi } \\ & \text { Totai } \end{aligned}$ | Int. Total |
| 8:00 AM | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 3 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 137 | 2 | 139 | 144 |
| 8:15 AM | 0 | 0 | 0 | 6 | 0 | 6 | 0 | 3 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140 | 3 | 143 | 153 |
| 8:30 AM | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 138 | 2 | 140 | 145 |
| 8:45 AM | 0 | 1 | 0 | 5 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 149 | 3 | 152 | 158 |
| Total | 0 | 1 | 0 | 17 | 2 | 18 | 0 | 7 | 1 | 0 | 1 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 564 | 10 | 574 | 600 |
| Approach \% | 0.0 | 5.6 | 0.0 | 94.4 | - | - | 0.0 | 87.5 | 12.5 | 0.0 | - |  | 0.0 | 0.0 | 0.0 | 0.0 | - | - | 0.0 | 0.0 | 98.3 | 1.7 | - | - |
| Total \% | 0.0 | 0.2 | 0.0 | 2.8 | - | 3.0 | 0.0 | 1.2 | 0.2 | 0.0 | - | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | - | 0.0 | 0.0 | 0.0 | 94.0 | 1.7 | 95.7 | - |
| PHF | 0.000 | 0.250 | 0.000 | 0.708 | - | 0.750 | 0.000 | 0.583 | 0.250 | 0.000 | - | 0.500 | 0.000 | 0.000 | 0.000 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.946 | 0.833 | 0.944 | 0.949 |
| Lights | 0 | 0 | 0 | 16 | - | 16 | 0 | 7 | 1 | 0 | - | 8 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 543 | 8 | 551 | 575 |
| \% Lights | - | 0.0 | - | 94.1 | - | 88.9 | - | 100.0 | 100.0 | - | - | 100.0 | - | - | - | - | $\cdots$ | - | - | - | 96.3 | 80.0 | 96.0 | 95.8 |
| Buses | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 11 | 0 | 11 | 11 |
| \% Buses | . | 0.0 | - | 0.0 | - | 0.0 | . | 0.0 | 0.0 | - | - | 0.0 | . | - | . | - | - | . | - | . | 2.0 | 0.0 | 1.9 | 1.8 |
| Single-Unit Trucks | 0 | 0 | 0 | 1 | - | 1 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 5 | 2 | 7 | 8 |
| $\begin{gathered} \text { \% Single-Unit } \\ \text { Trucks } \end{gathered}$ | . | 0.0 | . | 5.9 | - | 5.6 | . | 0.0 | 0.0 | . | . | 0.0 | - | - | . | - | - | . | . | - | 0.9 | 20.0 | 1.2 | 1.3 |
| Arriculated Trucks | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 4 | 0 | 4 | 4 |
| \% Articulated Trucks | - | 0.0 | - | 0.0 | - | 0.0 | - | 0.0 | 0.0 |  | - | 0.0 |  | - |  | . | - | - | - |  | 0.7 | 0.0 | 0.7 | 0.7 |
| Bicycles on Road | 0 | 1 | 0 | 0 | - | 1 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| \% Bicycles on Road | . | 100.0 | - | 0.0 | - | 5.6 | - | 0.0 | 0.0 | - | - | 0.0 | . | - | - | . | - | . | . | . | 0.2 | 0.0 | 0.2 | 0.3 |
| Pedestrians | . | - | - | - | 2 | - | . | - | - | . | 1 | - | . | . | . | . | 0 | . | . | . | - | - | - | - |
| \% Pedestrians | - | - | - | - | 100.0 | - | - | . | - | - | 100.0 | - | . | - | - | - | - | - | - | - | - | - | - | - |

Count Name: Oakland Avenue with Graceland Avenue TMC
Site Code:
Start Date: 0
Start Date: 04/11/2023
Page No: 4

| Start Time | Turning Movement Peak Hour Data (4:45 PM) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Graceland Avenue Southbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Oakwood Avenue Eastbound |  |  |  |  |  | East Access Drive Westbound |  |  |  |  |  | Graceland Avenue Northbound |  |  |  |  |  |  |  |  |  |  |  |
|  | U-Turn | Left | Thru | Right | Peds | $\begin{aligned} & \text { App. } \\ & \text { Total } \end{aligned}$ | U-Turn | Left | Thru | Right | Peds | $\begin{aligned} & \text { App. } \\ & \text { Total } \end{aligned}$ | U-Turn | Left | Thru | Right | Peds | $\begin{aligned} & \text { App. } \\ & \text { Total } \end{aligned}$ | U-Turn | Left | Thru | Right | $\begin{aligned} & \text { Appi } \\ & \text { Totai } \end{aligned}$ | Int. Total |
| 4:45 PM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 114 | 4 | 118 | 119 |
| 5:00 PM | 0 | 0 | 0 | 5 | 1 | 5 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 155 | 3 | 158 | 163 |
| 5:15 PM | 0 | 0 | 0 | 5 | 2 | 5 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 178 | 5 | 183 | 188 |
| 5:30 PM | 0 | 0 | 0 | 6 | 0 | 6 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160 | 2 | 162 | 170 |
| Total | 0 | 0 | 0 | 17 | 3 | 17 | 0 | 2 | 0 | 0 | 7 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 607 | 14 | 621 | 640 |
| Approach \% | 0.0 | 0.0 | 0.0 | 100.0 | - | - | 0.0 | 100.0 | 0.0 | 0.0 | - |  | 0.0 | 0.0 | 0.0 | 0.0 | - | - | 0.0 | 0.0 | 97.7 | 2.3 | - | - |
| Total \% | 0.0 | 0.0 | 0.0 | 2.7 | - | 2.7 | 0.0 | 0.3 | 0.0 | 0.0 | - | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | - | 0.0 | 0.0 | 0.0 | 94.8 | 2.2 | 97.0 | - |
| PHF | 0.000 | 0.000 | 0.000 | 0.708 | - | 0.708 | 0.000 | 0.250 | 0.000 | 0.000 | - | 0.250 | 0.000 | 0.000 | 0.000 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.853 | 0.700 | 0.848 | 0.851 |
| Lights | 0 | 0 | 0 | 16 | - | 16 | 0 | 2 | 0 | 0 | - | 2 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 595 | 14 | 609 | 627 |
| \% Lights | - | - | - | 94.1 | - | 94.1 | - | 100.0 | - | - | - | 100.0 | - | - | - | - | - | - | - | - | 98.0 | 100.0 | 98.1 | 98.0 |
| Buses | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 6 | 0 | 6 | 6 |
| \% Buses | . | . | - | 0.0 | - | 0.0 | . | 0.0 | - | - | - | 0.0 | . | . | . | - | - | . | - | . | 1.0 | 0.0 | 1.0 | 0.9 |
| Single-Unit Trucks | 0 | 0 | 0 | 1 | - | 1 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | . | 0 | 0 | 0 | 4 | 0 | 4 | 5 |
| $\begin{gathered} \text { \% Single-Unit } \\ \text { Trucks } \end{gathered}$ | . | . | . | 5.9 | - | 5.9 | . | 0.0 | . | . | . | 0.0 | - | . | . | - | - | . | . | . | 0.7 | 0.0 | 0.6 | 0.8 |
| Articulated Trucks | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| \% Articulated Trucks |  | - | - | 0.0 | - | 0.0 | - | 0.0 | - |  | - | 0.0 |  | - |  | . | - | - | - |  | 0.2 | 0.0 | 0.2 | 0.2 |
| Bicycles on Road | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| \% Bicycles on Road | . | . | - | 0.0 | - | 0.0 | - | 0.0 | . | - | - | 0.0 | . | - | - | . | - | . | . | . | 0.2 | 0.0 | 0.2 | 0.2 |
| Pedestrians | . | . | - | - | 3 | - | . | - | . | . | 7 | - | . | . | . | . | 1 | . | . | . | - | - | - | - |
| \% Pedestrians | - | - | - | - | 100.0 | - | - | . | - | - | 100.0 | - | - | - | - | - | 100.0 | - | - | - | - | - | - | - |

Count Name: Whacker Street with 1st Avenue TMC
Site Code:
Start Date:
Page No: 1 Sita Code:
Start Date: 04/11/2023
Page No: 1


Pas St Avenue

 $\stackrel{\leftrightarrow}{\bullet} \dot{\otimes}$


## Turning Movement Data







$\infty$ N
 든 으닫
 Westbound



 000000000000000
0.

0
0.10
. 0 .
0.1.

Count Name: Thacker Street with 1st Avenue
Site Code:
Start Date: 04/1 1/2023
Page No: 2

Count Name: Thacker Street with 1st Avenue
Site Code:
Start Date: 04/1 1/2023
Page No: 3

| Turning Movement Peak Hour Data (4:45 PM) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  Thacker Street <br> Eastbound  <br> U-Turn Left Thru |  |  |  |  | Thacker Street <br> Westbound |  |  |  |  | 1st Avenue Southbound |  |  |  |  | Int. Total |
| Start Time |  |  |  | Peds | App. Total | U-Turn | Thru | Westbou | Peds | App. Total |  |  |  |  |  |  |
| 4:45 PM | 0 | 5 | 51 | 3 | 56 | 0 | 73 | 5 | 0 | 78 | 0 | 3 | 3 | 3 | 6 | 140 |
| 5:00 PM | 0 | 9 | 59 | 0 | 68 | 0 | 90 | 1 | 0 | 91 | 0 | 4 | 8 | 0 | 12 | 171 |
| 5:15 PM | 0 | 5 | 72 | 0 | 77 | 0 | 77 | 6 | 0 | 83 | 0 | 4 | 7 | 3 | 11 | 171 |
| 5:30 PM | 0 | 10 | 52 | 1 | 62 | 0 | 73 | 1 | 0 | 74 | 0 | 4 | 3 | 3 | 7 | 143 |
| Total | 0 | 29 | 234 | 4 | 263 | 0 | 313 | 13 | 0 | 326 | 0 | 15 | 21 | 9 | 36 | 625 |
| Approach \% | 0.0 | 11.0 | 89.0 | - | - | 0.0 | 96.0 | 4.0 | - | - | 0.0 | 41.7 | 58.3 | - | - | - |
| Total \% | 0.0 | 4.6 | 37.4 | - | 42.1 | 0.0 | 50.1 | 2.1 | - | 52.2 | 0.0 | 2.4 | 3.4 | - | 5.8 | - |
| PHF | 0.000 | 0.725 | 0.813 | - | 0.854 | 0.000 | 0.869 | 0.542 | - | 0.896 | 0.000 | 0.938 | 0.656 | - | 0.750 | 0.914 |
| Lights | 0 | 26 | 231 | - | 257 | 0 | 303 | 13 | - | 316 | 0 | 15 | 20 | - | 35 | 608 |
| \% Lights | - | 89.7 | 98.7 | - | 97.7 | - | 96.8 | 100.0 | - | 96.9 | - | 100.0 | 95.2 | - | 97.2 | 97.3 |
| Buses | 0 | 0 | 1 | - | 1 | 0 | 2 | 0 | - | 2 | 0 | 0 | 0 | - | 0 | 3 |
| \% Buses | . | 0.0 | 0.4 | - | 0.4 | - | 0.6 | 0.0 | - | 0.6 | - | 0.0 | 0.0 | - | 0.0 | 0.5 |
| Single-Unit Trucks | 0 | 1 | 1 | - | 2 | 0 | 6 | 0 | - | 6 | 0 | 0 | 1 | - | 1 | 9 |
| \% Single-Unit Trucks | - | 3.4 | 0.4 | - | 0.8 | - | 1.9 | 0.0 | - | 1.8 | - | 0.0 | 4.8 | - | 2.8 | 1.4 |
| Articulated Trucks | 0 | 1 | 0 | - | 1 | 0 | 1 | 0 | - |  | 0 | 0 | 0 | - | 0 | 2 |
| \% Articulated Trucks | - | 3.4 | 0.0 | - | 0.4 | - | 0.3 | 0.0 | - | 0.3 | - | 0.0 | 0.0 | - | 0.0 | 0.3 |
| Bicycles on Road | 0 | 1 | 1 | - | 2 | 0 | 1 | 0 | - |  | 0 | 0 | 0 | - | 0 | 3 |
| \% Bicycles on Road | - | 3.4 | 0.4 | - | 0.8 | - | 0.3 | 0.0 | - | 0.3 | - | 0.0 | 0.0 | - | 0.0 | 0.5 |
| Pedestrians | . |  | - | 4 | - | . | - | - |  | - | . | - | - | 9 | - | - |
| \% Pedestrians | . | - | - | 100.0 | . | - | - | . | - | - | - | - | - | 100.0 | - | - |

Turning Movement Data

| Start Time | Turning Movement Data |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Thacker Street Eastbound |  |  |  |  |  | Thacker Street <br> Westbound |  |  |  |  |  | Gracelend Avenue Northbound |  |  |  |  |  | Graceland Avenue Southbound |  |  |  |  |  | Int. Total |
|  | U-Turn | Left | Thru | Right | Peds | App. <br> Total | U-Turn | Left | Thru | Right | Peds | $\begin{aligned} & \text { App. } \\ & \text { Total } \end{aligned}$ | U-Turn | Left | Thru | Right | Peds | $\begin{aligned} & \text { App. } \\ & \text { Total } \end{aligned}$ | U-Turn | Left | Thru | Right | Peds | $\begin{aligned} & \text { App. } \\ & \text { Total } \\ & \hline \end{aligned}$ |  |
| 7:00 AM | 0 | 0 | 27 | 9 | 0 | 36 | 0 | 5 | 20 | 0 | 1 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 62 | 18 | 0 | 84 | 145 |
| 7:15 AM | 0 | 0 | 32 | 11 | 1 | 43 | 0 | 10 | 21 | 0 | 2 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 73 | 18 | 1 | 95 | 169 |
| 7:30 AM | 0 | 0 | 51 | 6 | 1 | 57 | 0 | 6 | 38 | 0 | 1 | 44 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 9 | 105 | 16 | 5 | 130 | 232 |
| 7:45 AM | 0 | 0 | 53 | 9 | 1 | 62 | 0 | 7 | 44 | 0 | 3 | 51 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 8 | 124 | 20 | 2 | 152 | 265 |
| Hourly Total | 0 | 0 | 163 | 35 | 3 | 198 | 0 | 28 | 123 | 0 | 7 | 151 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 25 | 364 | 72 | 8 | 461 | 811 |
| 8:00 AM | 0 | 0 | 56 | 9 | 2 | 65 | 0 | 12 | 40 | 0 | 1 | 52 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 13 | 102 | 17 | 2 | 132 | 249 |
| 8:15 AM | 0 | 0 | 45 | 6 | 3 | 51 | 0 | 4 | 28 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 138 | 25 | 2 | 180 | 263 |
| 8:30 AM | 0 | 0 | 54 | 9 | 0 | 63 | 0 | 9 | 30 | 0 | 0 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 119 | 19 | 0 | 154 | 256 |
| 8:45 AM | 0 | 0 | 53 | 12 | 0 | 65 | 0 | 14 | 31 | 0 | 1 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 123 | 21 | 8 | 161 | 271 |
| Hourly Total | 0 | 0 | 208 | 36 | 5 | 244 | 0 | 39 | 129 | 0 | 2 | 168 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 63 | 482 | 82 | 12 | 627 | 1039 |
| *** BREAK *** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4:00 PM | 0 | 0 | 57 | 5 | 2 | 62 | 0 | 13 | 52 | 0 | 0 | 65 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 8 | 94 | 21 | 0 | 123 | 250 |
| 4:15 PM | 0 | 0 | 36 | 7 | 0 | 43 | 0 | 14 | 38 | 0 | 1 | 52 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 10 | 150 | 39 | 0 | 199 | 294 |
| 4:30 PM | 0 | 0 | 61 | 11 | 0 | 72 | 0 | 13 | 43 | 0 | 2 | 56 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4 | 117 | 28 | 1 | 149 | 277 |
| 4:45 PM | 0 | 0 | 51 | 7 | 0 | 58 | 0 | 10 | 43 | 0 | 2 | 53 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 10 | 99 | 31 | 1 | 140 | 251 |
| Hourly Total | 0 | 0 | 205 | 30 | 2 | 235 | 0 | 50 | 176 | 0 | 5 | 226 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 32 | 460 | 119 | 2 | 611 | 1072 |
| 5:00 PM | 0 | 0 | 52 | 15 | 3 | 67 | 0 | 17 | 49 | 0 | 3 | 66 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 8 | 125 | 40 | 3 | 173 | 306 |
| 5:15 PM | 0 | 0 | 51 | 15 | 1 | 66 | 0 | 13 | 58 | 0 | 4 | 71 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 12 | 146 | 33 | 3 | 191 | 328 |
| 5:30 PM | 0 | 0 | 51 | 8 | 3 | 59 | 0 | 18 | 48 | 0 | 3 | 66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 121 | 31 | 2 | 165 | 290 |
| 5:45 PM | 0 | 0 | 37 | 14 | 4 | 51 | 0 | 14 | 48 | 1 | 3 | 63 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 11 | 98 | 27 | 2 | 136 | 250 |
| Hourly Total | 0 | 0 | 191 | 52 | 11 | 243 | 0 | 62 | 203 | 1 | 13 | 266 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 44 | 490 | 131 | 10 | 665 | 1174 |
| Grand Total | 0 | 0 | 767 | 153 | 21 | 920 | 0 | 179 | 631 | 1 | 27 | 811 | 0 | 0 | 0 | 1 | 17 | 1 | 0 | 164 | 1796 | 404 | 32 | 2364 | 4096 |
| Approach \% | 0.0 | 0.0 | 83.4 | 16.6 | - | - | 0.0 | 22.1 | 77.8 | 0.1 | - | - | 0.0 | 0.0 | 0.0 | 100.0 | - | - | 0.0 | 6.9 | 76.0 | 17.1 | - | - | - |
| Total \% | 0.0 | 0.0 | 18.7 | 3.7 | - | 22.5 | 0.0 | 4.4 | 15.4 | 0.0 | - | 19.8 | 0.0 | 0.0 | 0.0 | 0.0 | - | 0.0 | 0.0 | 4.0 | 43.8 | 9.9 | - | 57.7 | - |
| Lights | 0 | 0 | 741 | 150 | - | 891 | 0 | 174 | 603 | 0 | - | 777 | 0 | 0 | 0 | 0 | - | 0 | 0 | 160 | 1736 | 387 | - | 2283 | 3951 |
| \% Lights | - | - | 96.6 | 98.0 | - | 96.8 | - | 97.2 | 95.6 | 0.0 | - | 95.8 | - | - | - | 0.0 | - | 0.0 | - | 97.6 | 96.7 | 95.8 | - | 96.6 | 96.5 |
| Buses | 0 | 0 | 9 | 1 | - | 10 | 0 | 4 | 12 | 0 | - | 16 | 0 | 0 | 0 | 0 | - | 0 | 0 | 4 | 25 | 10 | - | 39 | 65 |
| \% Buses | - | - | 1.2 | 0.7 | - | 1.1 | - | 2.2 | 1.9 | 0.0 | - | 2.0 | - | - | - | 0.0 | - | 0.0 | - | 2.4 | 1.4 | 2.5 | $\checkmark$ | 1.6 | 1.6 |
| Single-Unit Trucks | 0 | 0 | 12 | 2 | - | 14 | 0 | 1 | 8 | 0 | - | 9 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 21 | 5 | - | 26 | 49 |
| \% Single-Unit Trucks | - | - | 1.6 | 1.3 | - | 1.5 | - | 0.6 | 1.3 | 0.0 | - | 1.1 | . | . | . | 0.0 | - | 0.0 | . | 0.0 | 1.2 | 1.2 | - | 1.1 | 1.2 |
| Articulated Trucks | 0 | 0 | 1 | 0 | - | 1 | 0 | 0 | 3 | 0 | - | 3 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 11 | 1 | - | 12 | 16 |
| \% Articulated Trucks | - | - | 0.1 | 0.0 | - | 0.1 | - | 0.0 | 0.5 | 0.0 | - | 0.4 | - | - | - | 0.0 | - | 0.0 | - | 0.0 | 0.6 | 0.2 | - | 0.5 | 0.4 |
| Bicycles on Road | 0 | 0 | 4 | 0 | - | 4 | 0 | 0 | 5 | 1 | - | 6 | 0 | 0 | 0 | 1 | $\checkmark$ | 1 | 0 | 0 | 3 | 1 | - | 4 | 15 |


| \% Bicycles on | - | - | 0.5 | 0.0 | - | 0.4 | - | 0.0 | 0.8 | 100.0 | - | 0.7 |  | - |  | 100.0 | - | 100.0 | - | 0.0 | 0.2 | 0.2 |  | 0.2 | 0.4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pedestrians | - | - | . | - | 21 | . | . | - | . | . | 27 | . | . | - | . | . | 17 | . | - | - | . | . | 32 | - | - |
| \% Pedestrians | . | . | . | . | 100.0 | . |  | - | - | - | 100.0 | . |  | - |  | - | 100.0 | . | - | . | - | - | 100.0 | - | - |


| Start Time | Thacker Street Eastbound |  |  |  |  |  | Turning Movement Peak Hour Data (8:00 AM) |  |  |  |  |  |  |  |  |  |  |  | Graceland Avenue Southbound |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | U-Turn | Left | Thru | Right | Peds | App. Total | U-Turn | Left | Thru | Right | Peds | App. Total | U-Turn | Left | Thru | Right | Peds | App. Total | U-Turn | Left | Thru | Right | Peds | App. Total | Int. Total |
| 8:00 AM | 0 | 0 | 56 | 9 | 2 | 65 | 0 | 12 | 40 | 0 | 1 | 52 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 13 | 102 | 17 | 2 | 132 | 249 |
| 8:15 AM | 0 | 0 | 45 | 6 | 3 | 51 | 0 | 4 | 28 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 138 | 25 | 2 | 180 | 263 |
| 8:30 AM | 0 | 0 | 54 | 9 | 0 | 63 | 0 | 9 | 30 | 0 | 0 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 119 | 19 | 0 | 154 | 256 |
| 8:45 AM | 0 | 0 | 53 | 12 | 0 | 65 | 0 | 14 | 31 | 0 | 1 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 123 | 21 | 8 | 161 | 271 |
| Total | 0 | 0 | 208 | 36 | 5 | 244 | 0 | 39 | 129 | 0 | 2 | 168 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 63 | 482 | 82 | 12 | 627 | 1039 |
| Approach \% | 0.0 | 0.0 | 85.2 | 14.8 | - | - | 0.0 | 23.2 | 76.8 | 0.0 | - | - | 0.0 | 0.0 | 0.0 | 0.0 | - | - | 0.0 | 10.0 | 76.9 | 13.1 | - | - | - |
| Total \% | 0.0 | 0.0 | 20.0 | 3.5 | - | 23.5 | 0.0 | 3.8 | 12.4 | 0.0 | - | 16.2 | 0.0 | 0.0 | 0.0 | 0.0 | - | 0.0 | 0.0 | 6.1 | 46.4 | 7.9 | - | 60.3 | - |
| PHF | 0.000 | 0.000 | 0.929 | 0.750 | - | 0.938 | 0.000 | 0.696 | 0.806 | 0.000 | - | 0.808 | 0.000 | 0.000 | 0.000 | 0.000 | - | 0.000 | 0.000 | 0.926 | 0.873 | 0.820 | - | 0.871 | 0.958 |
| Lights | 0 | 0 | 195 | 36 | - | 231 | 0 | 37 | 123 | 0 | - | 160 | 0 | 0 | 0 | 0 | - | 0 | 0 | 61 | 463 | 76 | $\checkmark$ | 600 | 991 |
| \% Lights | - | - | 93.8 | 100.0 | - | 94.7 | - | 94.9 | 95.3 | - | - | 95.2 | - | - | - | - | - | - | - | 96.8 | 96.1 | 92.7 | - | 95.7 | 95.4 |
| Buses | 0 | 0 | 4 | 0 | - | 4 | 0 | 2 | 3 | 0 | - | 5 | 0 | 0 | 0 | 0 | - | 0 | 0 | 2 | 9 | 4 | - | 15 | 24 |
| \% Buses | - | - | 1.9 | 0.0 | - | 1.6 | - | 5.1 | 2.3 | - | - | 3.0 | - | - | - | - | - | - | - | 3.2 | 1.9 | 4.9 | - | 2.4 | 2.3 |
| Single-Unit Trucks | 0 | 0 | 7 | 0 | - | 7 | 0 | 0 | 2 | 0 | - | 2 | 0 | 0 | 0 | 0 | $\checkmark$ | 0 | 0 | 0 | 4 | 2 | - | 6 | 15 |
| $\begin{gathered} \hline \text { \% Single-Unit } \\ \text { Trucks } \\ \hline \end{gathered}$ | - | . | 3.4 | 0.0 | - | 2.9 | - | 0.0 | 1.6 | . | - | 1.2 | - | - | - | . | - | - | - | 0.0 | 0.8 | 2.4 | - | 1.0 | 1.4 |
| Articulated Trucks | 0 | 0 | 1 | 0 | - | 1 | 0 | 0 | 1 | 0 | - | 1 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 5 | 0 | $\checkmark$ | 5 | 7 |
| \% Articulated Trucks | - | . | 0.5 | 0.0 | - | 0.4 | - | 0.0 | 0.8 | - | - | 0.6 | - | - | - | - | - | - | . | 0.0 | 1.0 | 0.0 | - | 0.8 | 0.7 |
| Bicycles on Road | 0 | 0 | 1 | 0 | - | 1 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 1 | 0 | $\cdots$ | 1 | 2 |
| $\begin{gathered} \text { \% Bicycles on } \\ \text { Road } \\ \hline \end{gathered}$ | - | - | 0.5 | 0.0 | - | 0.4 | - | 0.0 | 0.0 | - | - | 0.0 | - | - | - | - | - | - | - | 0.0 | 0.2 | 0.0 | - | 0.2 | 0.2 |
| Pedestrians | - | - | - | - | 5 | - | - | - | - | - | 2 | - | - | - | - | - | 2 | - | - | - | - | - | 12 | - | - |
| \% Pedestrians | - | - | - | - | 100.0 | - | - | - | - | - | 100.0 | - | - | - | - | - | 100.0 | - | - | - | - | - | 100.0 | - | - |


| Start Time | Turning Movement Peak Hour Data (4:45 PM) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Thacker Street Eastbound |  |  |  |  |  | Thacker StreetWestbound |  |  |  |  |  | Gracelend Avenue Northbound |  |  |  |  |  | Graceland Avenue Southbound |  |  |  |  |  |  |
|  | U-Turn | Left | Thru | Right | Peds | App. Total | U-Turn | Left | Thru | Right | Peds | App. Total | U-Turn | Left | Thru | Right | Peds | App. <br> Total | U-Turn | Left | Thru | Right | Peds | $\begin{aligned} & \text { App. } \\ & \text { Total } \end{aligned}$ | Int. Total |
| 4:45 PM | 0 | 0 | 51 | 7 | 0 | 58 | 0 | 10 | 43 | 0 | 2 | 53 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 10 | 99 | 31 | 1 | 140 | 251 |
| 5:00 PM | 0 | 0 | 52 | 15 | 3 | 67 | 0 | 17 | 49 | 0 | 3 | 66 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 8 | 125 | 40 | 3 | 173 | 306 |
| 5:15 PM | 0 | 0 | 51 | 15 | 1 | 66 | 0 | 13 | 58 | 0 | 4 | 71 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 12 | 146 | 33 | 3 | 191 | 328 |
| 5:30 PM | 0 | 0 | 51 | 8 | 3 | 59 | 0 | 18 | 48 | 0 | 3 | 66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 121 | 31 |  | 165 | 290 |
| Total | 0 | 0 | 205 | 45 | 7 | 250 | 0 | 58 | 198 | 0 | 12 | 256 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 43 | 491 | 135 | 9 | 669 | 1175 |
| Approach \% | 0.0 | 0.0 | 82.0 | 18.0 | - | - | 0.0 | 22.7 | 77.3 | 0.0 | - | - | 0.0 | 0.0 | 0.0 | 0.0 | - | - | 0.0 | 6.4 | 73.4 | 20.2 | - | - | - |
| Total \% | 0.0 | 0.0 | 17.4 | 3.8 | - | 21.3 | 0.0 | 4.9 | 16.9 | 0.0 | - | 21.8 | 0.0 | 0.0 | 0.0 | 0.0 | - | 0.0 | 0.0 | 3.7 | 41.8 | 11.5 | $\checkmark$ | 56.9 | - |
| PHF | 0.000 | 0.000 | 0.986 | 0.750 | - | 0.933 | 0.000 | 0.806 | 0.853 | 0.000 | - | 0.901 | 0.000 | 0.000 | 0.000 | 0.000 | - | 0.000 | 0.000 | 0.827 | 0.841 | 0.844 | - | 0.876 | 0.896 |
| Lights | 0 | 0 | 201 | 44 | - | 245 | 0 | 57 | 190 | 0 | - | 247 | 0 | 0 | 0 | 0 | - | 0 | 0 | 43 | 481 | 131 | - | 655 | 1147 |
| \% Lights | - | - | 98.0 | 97.8 | - | 98.0 | - | 98.3 | 96.0 | - | - | 96.5 | - | - | - | - | $\checkmark$ | - | - | 100.0 | 98.0 | 97.0 | - | 97.9 | 97.6 |
| Buses | 0 | 0 | 1 | 0 | - | 1 | 0 | 1 | 0 | 0 | - | 1 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 5 | 2 | - | 7 | 9 |
| \% Buses | - | - | 0.5 | 0.0 | - | 0.4 | - | 1.7 | 0.0 | - | - | 0.4 | - | - | - | - | - | - | - | 0.0 | 1.0 | 1.5 | - | 1.0 | 0.8 |
| Single-Unit Trucks | 0 | 0 | 2 | 1 | - | 3 | 0 | 0 | 4 | 0 | - | 4 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 4 | 1 | - | 5 | 12 |
| \% Single-Unit Trucks | - | - | 1.0 | 2.2 | - | 1.2 | - | 0.0 | 2.0 | - | - | 1.6 | - | - | - | - | . | . | - | 0.0 | 0.8 | 0.7 | - | 0.7 | 1.0 |
| Articulated Trucks | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 1 | 0 | - | 1 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 1 | 0 | - | 1 | 2 |
| \% Articulated Trucks | - | - | 0.0 | 0.0 | - | 0.0 | - | 0.0 | 0.5 | - | - | 0.4 | - | - | - | - | - | - | - | 0.0 | 0.2 | 0.0 | - | 0.1 | 0.2 |
| Bicycles on Road | 0 | 0 | 1 | 0 | - | 1 | 0 | 0 | 3 | 0 | - | 3 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 1 | - | 1 | 5 |
| $\begin{gathered} \text { \% Bicycles on } \\ \text { Road } \\ \hline \end{gathered}$ | - | . | 0.5 | 0.0 | - | 0.4 | - | 0.0 | 1.5 | - | - | 1.2 | . | . | - | . | - | . | - | 0.0 | 0.0 | 0.7 | - | 0.1 | 0.4 |
| Pedestrians | - | - | - | - | 7 | - | - | - | - | - | 12 | - | - | - | - | - | 5 | - | - | - | - | - | 9 | - | - |
| \% Pedestrians | - | - | - | - | 100.0 | - | - | - | - | - | 100.0 | - | - | - | - | - | 100.0 | - | - | - | - | - | 100.0 | - | - |

Count Name: Thacker Street with Graceland



Turning Movement Data
言 $\stackrel{8}{0} 000-0-00000$ $000000000-$
$\frac{5}{\frac{5}{3}} 000000000000.100000000000000000$
Count Name: Thacker Street with Graceland
Court Access Drive TMC
Site Code:
Start Date: $04 / 11 / 2023$
Page No: 2


| Start Time | U-Turn | Thacker Street Eastbound |  |  | Turning Movement Peak Hour Data (8:00 AM) <br> Thacker Street |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Westbound |  |  |  |  |
|  |  |  |  |  | App. Total | U-Turn | Thru | Right | Peds | App. Total |
| 8:00 AM | 0 | 2 | 59 | 0 | 61 | 0 | 51 | 3 | 0 | 54 |
| 8:15 AM | 0 | 3 | 56 | 0 | 59 | 0 | 53 | 0 | 0 | 53 |
| 8:30 AM | 0 | 1 | 53 | 0 | 54 | 0 | 48 | 1 | 0 | 49 |
| 8:45 AM | 0 | 2 | 70 | 0 | 72 | 0 | 51 | 3 | 0 | 54 |
| Total | 0 | 8 | 238 | 0 | 246 | 0 | 203 | 7 | 0 | 210 |
| Approach \% | 0.0 | 3.3 | 96.7 | - | - | 0.0 | 96.7 | 3.3 | - | - |
| Total \% | 0.0 | 1.7 | 50.7 | - | 52.5 | 0.0 | 43.3 | 1.5 | - | 44.8 |
| PHF | 0.000 | 0.667 | 0.850 | - | 0.854 | 0.000 | 0.958 | 0.583 | - | 0.972 |
| Lights | 0 | 8 | 226 | - | 234 | 0 | 192 | 7 | - | 199 |
| \% Lights | - | 100.0 | 95.0 | - | 95.1 |  | 94.6 | 100.0 | - | 94.8 |
| Buses | 0 | 0 | 4 | - | 4 | 0 | 7 | 0 | - | 7 |
| \% Buses | . | 0.0 | 1.7 | - | 1.6 | - | 3.4 | 0.0 | - | 3.3 |
| Single-Unit Trucks | 0 | 0 | 7 | - | 7 | 0 | 3 | 0 | - | 3 |
| \% Single-Unit Trucks | - | 0.0 | 2.9 | - | 2.8 | - | 1.5 | 0.0 | - | 1.4 |
| Ariculated Trucks | 0 | 0 | , | - | 1 | 0 | 1 | 0 | - | , |
| \% Articulated Trucks | - | 0.0 | 0.4 | - | 0.4 | - | 0.5 | 0.0 | - | 0.5 |
| Bicycles on Road | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | - | 0 |
| \% Bicycles on Road | - | 0.0 | 0.0 | - | 0.0 | - | 0.0 | 0.0 | - | 0.0 |
| Pedestrians | - | - | - | 0 | - | . | . | - | 0 | - |
| \% Pedestrians | - | - | - | - | - | - | - | - | - | - |

Count Name: Thacker Street with Graceland
Court Access Drive TMC
Site Code:
Start Date: $04 / 11 / 2023$
Page No: 3


| Start Time | U-Turn | Thacker Street Eastbound |  |  | Turning Movement Peak Hour Data (4:45 PM) <br> Thacker Street |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | App. Total | Thacker Street <br> Westbound |  |  |  |  |
|  |  | Left | Thru | Peds |  | U-Turn | Thru | Right | Peds | App. Total |
| 4:45 PM | 0 | 0 | 57 | 0 | 57 | 0 | 80 | 0 | 0 | 80 |
| 5:00 PM | 0 | 1 | 59 | 0 | 60 | 0 | 87 | 2 | 0 | 89 |
| 5:15 PM | 0 | 3 | 71 | 0 | 74 | 0 | 93 | 2 | 0 | 95 |
| 5:30 PM | 0 | 0 | 54 | 0 | 54 | 0 | 71 | 3 | 0 | 74 |
| Total | 0 | 4 | 241 | 0 | 245 | 0 | 331 | 7 | 0 | 338 |
| Approach \% | 0.0 | 1.6 | 98.4 | - | - | 0.0 | 97.9 | 2.1 | - | - |
| Total \% | 0.0 | 0.7 | 40.9 | - | 41.6 | 0.0 | 56.2 | 1.2 | - | 57.4 |
| PHF | 0.000 | 0.333 | 0.849 | - | 0.828 | 0.000 | 0.890 | 0.583 | - | 0.889 |
| Lights | 0 | 4 | 239 | - | 243 | 0 | 321 | 7 | - | 328 |
| \% Lights | - | 100.0 | 99.2 | - | 99.2 | - | 97.0 | 100.0 | - | 97.0 |
| Buses | 0 | 0 | 1 | - | 1 | 0 | 2 | 0 | - | 2 |
| \% Buses | . | 0.0 | 0.4 | - | 0.4 | - | 0.6 | 0.0 | - | 0.6 |
| Single-Unit Trucks | 0 | 0 | + | - | 1 | 0 | 5 | 0 | - | 5 |
| \% Single-Unit Trucks | - | 0.0 | 0.4 | - | 0.4 | - | 1.5 | 0.0 | - | 1.5 |
| Articulated Trucks | 0 | 0 | 0 | - | 0 | 0 | 1 | 0 | - | 1 |
| \% Articulated Trucks | - | 0.0 | 0.0 | - | 0.0 | - | 0.3 | 0.0 | - | 0.3 |
| Bicycles on Road | 0 | 0 | 0 | - | 0 | 0 | 2 | 0 | - | 2 |
| \% Bicycles on Road | - | 0.0 | 0.0 | - | 0.0 | - | 0.6 | 0.0 | - | 0.6 |
| Pedestrians | - | - | - | 0 | - | - | - | - | 0 | - |
| \% Pedestrians | . | . | . | . | - | . | . | . | - | . |

Turning Movement Data

| Start Time | Thacker Street Eastbound |  |  |  |  |  | $\quad$ Turning Movement Data  <br> $\begin{array}{l}\text { Thacker Street } \\ \text { Westbound }\end{array}$ $\begin{array}{c}\text { Public Alley } \\ \text { Northbound }\end{array}$ |  |  |  |  |  |  |  |  |  |  |  | Public Alley <br> Southbound |  |  |  |  |  | Int. Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | U-Turn | Left | Thru | Right | Peds | App. <br> Total | U-Turn | Left | Thru | Right | Peds | App. <br> Total | U-Turn | Left | Thru | Right | Peds | App. <br> Total | U-Turn | Left | Thru | Right | Peds | App. <br> Total |  |
| 4:00 PM | 0 | 3 | 60 | 3 | 0 | 66 | 0 | 0 | 45 | 1 | 0 | 46 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 114 |
| 4:15 PM | 0 | 2 | 47 | 1 | 0 | 50 | 0 | 2 | 59 | 2 | 0 | 63 | 0 | 2 | 0 | 1 | 0 | 3 | 0 | 1 | 0 | 2 | 1 | 3 | 119 |
| 4:30 PM | 0 | 0 | 48 | 3 | 0 | 51 | 0 | 1 | 54 | 3 | 0 | 58 | 0 | 2 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 4 | 0 | 5 | 116 |
| 4:45 PM | 0 | 3 | 43 | 2 | 1 | 48 | 0 | 4 | 48 | 3 | 0 | 55 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 3 | 3 | 4 | 109 |
| Hourly Total | 0 | 8 | 198 | 9 | 1 | 215 | 0 | 7 | 206 | 9 | 0 | 222 | 0 | 7 | 0 | 2 | 1 | 9 | 0 | 3 | 0 | 9 | 4 | 12 | 458 |
| 5:00 PM | 0 | 2 | 70 | 1 | 1 | 73 | 0 | 0 | 60 | 3 | 0 | 63 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 5 | 0 | 3 | 1 | 8 | 146 |
| 5:15 PM | 0 | 4 | 63 | 0 | 0 | 67 | 0 | 3 | 45 | 2 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 4 | 121 |
| 5:30 PM | 0 | 1 | 60 | 2 | 0 | 63 | 0 | 2 | 56 | 3 | 0 | 61 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 1 | 4 | 129 |
| 5:45 PM | 0 | 0 | 45 | 3 | 1 | 48 | 0 | 1 | 51 | 7 | 0 | 59 | 0 | 2 | 0 | 1 | 0 | 3 | 0 | 4 | 0 | 4 | 1 | 8 | 118 |
| Hourly Total | 0 | 7 | 238 | 6 | 2 | 251 | 0 | 6 | 212 | 15 | 0 | 233 | 0 | 3 | 2 | 1 | 0 | 6 | 0 | 10 | 1 | 13 | 6 | 24 | 514 |
| *** BREAK *** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7:00 AM | 0 | 1 | 31 | 0 | 0 | 32 | 0 | 0 | 16 | 0 | 0 | 16 | 0 | 2 | 1 | 2 | 0 | 5 | 0 | 0 | 0 | 2 | 2 | 2 | 55 |
| 7:15 AM | 0 | 4 | 39 | 0 | 1 | 43 | 0 | 0 | 22 | 1 | 0 | 23 | 0 | 0 | 0 | 5 | 0 | 5 | 0 | 1 | 0 | 1 | 2 | 2 | 73 |
| 7:30 AM | 0 | 3 | 55 | 0 | 0 | 58 | 0 | 0 | 40 | 0 | 0 | 40 | 0 | 2 | 0 | 4 | 0 | 6 | 0 | 1 | 0 | 2 | 2 | 3 | 107 |
| 7:45 AM | 0 | 2 | 56 | 0 | 0 | 58 | 0 | 0 | 56 | 1 | 0 | 57 | 0 | 1 | 0 | 2 | 0 | 3 | 0 | 1 | 0 | 3 | 2 | 4 | 122 |
| Hourly Total | 0 | 10 | 181 | 0 | 1 | 191 | 0 | 0 | 134 | 2 | 0 | 136 | 0 | 5 | 1 | 13 | 0 | 19 | 0 | 3 | 0 | 8 | 8 | 11 | 357 |
| 8:00 AM | 1 | 3 | 71 | 2 | 0 | 77 | 0 | 1 | 43 | 5 | 0 | 49 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 2 | 130 |
| 8:15 AM | 0 | 0 | 56 | 0 | 0 | 56 | 0 | 0 | 44 | 4 | 0 | 48 | 0 | 3 | 1 | 3 | 0 | 7 | 0 | 2 | 0 | 4 | 1 | 6 | 117 |
| 8:30 AM | 0 | 1 | 59 | 4 | 0 | 64 | 0 | 0 | 28 | 1 | 0 | 29 | 0 | 3 | 1 | 3 | 0 | 7 | 0 | 1 | 0 | 2 | 0 | 3 | 103 |
| 8:45 AM | 0 | 1 | 61 | 3 | 0 | 65 | 0 | 1 | 50 | 3 | 0 | 54 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 121 |
| Hourly Total | 1 | 5 | 247 | 9 | 0 | 262 | 0 | 2 | 165 | 13 | 0 | 180 | 0 | 7 | 2 | 7 | 2 | 16 | 0 | 6 | 0 | 7 | 3 | 13 | 471 |
| Grand Total | 1 | 30 | 864 | 24 | 4 | 919 | 0 | 15 | 717 | 39 | 0 | 771 | 0 | 22 | 5 | 23 | 3 | 50 | 0 | 22 | 1 | 37 | 21 | 60 | 1800 |
| Approach \% | 0.1 | 3.3 | 94.0 | 2.6 | - | - | 0.0 | 1.9 | 93.0 | 5.1 | - | - | 0.0 | 44.0 | 10.0 | 46.0 | - | - | 0.0 | 36.7 | 1.7 | 61.7 | - | - | - |
| Total \% | 0.1 | 1.7 | 48.0 | 1.3 | - | 51.1 | 0.0 | 0.8 | 39.8 | 2.2 | - | 42.8 | 0.0 | 1.2 | 0.3 | 1.3 | - | 2.8 | 0.0 | 1.2 | 0.1 | 2.1 | - | 3.3 | - |
| Lights | 1 | 29 | 837 | 23 | - | 890 | 0 | 15 | 692 | 38 | - | 745 | 0 | 22 | 4 | 23 | - | 49 | 0 | 21 | 1 | 36 | - | 58 | 1742 |
| \% Lights | 100.0 | 96.7 | 96.9 | 95.8 | - | 96.8 | - | 100.0 | 96.5 | 97.4 | - | 96.6 | - | 100.0 | 80.0 | 100.0 | - | 98.0 | - | 95.5 | 100.0 | 97.3 | - | 96.7 | 96.8 |
| Buses | 0 | 0 | 15 | 0 | - | 15 | 0 | 0 | 11 | 1 | - | 12 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 1 | - | 1 | 28 |
| \% Buses | 0.0 | 0.0 | 1.7 | 0.0 | - | 1.6 | - | 0.0 | 1.5 | 2.6 | - | 1.6 | - | 0.0 | 0.0 | 0.0 | - | 0.0 | - | 0.0 | 0.0 | 2.7 | - | 1.7 | 1.6 |
| Single-Unit Trucks | 0 | 1 | 6 | 0 | - | 7 | 0 | 0 | 10 | 0 | - | 10 | 0 | 0 | 1 | 0 | - | 1 | 0 | 1 | 0 | 0 | - | 1 | 19 |
| \% Single-Unit Trucks | 0.0 | 3.3 | 0.7 | 0.0 | - | 0.8 | - | 0.0 | 1.4 | 0.0 | - | 1.3 | - | 0.0 | 20.0 | 0.0 | - | 2.0 | - | 4.5 | 0.0 | 0.0 | - | 1.7 | 1.1 |
| Articulated Trucks | 0 | 0 | 3 | 0 | - | 3 | 0 | 0 | 4 | 0 | - | 4 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 7 |
| \% Articulated Trucks | 0.0 | 0.0 | 0.3 | 0.0 | - | 0.3 | - | 0.0 | 0.6 | 0.0 | - | 0.5 | . | 0.0 | 0.0 | 0.0 | - | 0.0 | - | 0.0 | 0.0 | 0.0 | . | 0.0 | 0.4 |
| Bicycles on Road | 0 | 0 | 3 | 1 | - | 4 | 0 | 0 | 0 | 0 | $\checkmark$ | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 4 |


| \% Bicycles on | 0.0 | 0.0 | 0.3 | 4.2 | - | 0.4 |  | 0.0 | 0.0 | 0.0 | - | 0.0 |  | 0.0 | 0.0 | 0.0 | - | 0.0 |  | 0.0 | 0.0 | 0.0 | - | 0.0 | 0.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pedestrians | . | . | . | . | 4 | . | . | - | - | . | 0 | - | . | - | - | - | 3 | - | . | - | - | . | 21 | - | - |
| \% Pedestrians | . | . | - | . | 100.0 | . | . | - | - |  | - |  |  | . |  | - | 100.0 |  | . |  | . | - | 100.0 | . | . |

Count Name: Thacker+with+Alley TMC
Site Code::
Start Date: $04 / 26 / 2023$
Page No: 3 Page No: 3

| Start Time | Thacker Street Eastbound |  |  |  |  |  | Thacker Street <br> Westbound |  |  |  |  |  | Public Alley Northbound |  |  |  |  |  | Public Alley Southbound |  |  |  |  |  | Int. Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | U-Turn | Left | Thru | Right | Peds | App. <br> Total | U-Turn | Left | Thru | Right | Peds | $\begin{aligned} & \text { App. } \\ & \text { Total } \end{aligned}$ | U-Turn | Left | Thru | Right | Peds | $\begin{aligned} & \text { App. } \\ & \text { Total } \end{aligned}$ | U-Turn | Left | Thru | Right | Peds | App. Total |  |
| 4:45 PM | 0 | 3 | 43 | 2 | 1 | 48 | 0 | 4 | 48 | 3 | 0 | 55 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 3 | 3 | 4 | 109 |
| 5:00 PM | 0 | 2 | 70 | 1 | 1 | 73 | 0 | 0 | 60 | 3 | 0 | 63 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 5 | 0 | 3 | 1 | 8 | 146 |
| 5:15 PM | 0 | 4 | 63 | 0 | 0 | 67 | 0 | 3 | 45 | 2 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 4 | 121 |
| 5:30 PM | 0 | 1 | 60 | 2 | 0 | 63 | 0 | 2 | 56 | 3 | 0 | 61 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 1 | 4 | 129 |
| Total | 0 | 10 | 236 | 5 | 2 | 251 | 0 | 9 | 209 | 11 | 0 | 229 | 0 | 3 | 2 | 0 | 0 | 5 | 0 | 7 | 1 | 12 | 8 | 20 | 505 |
| Approach \% | 0.0 | 4.0 | 94.0 | 2.0 | - | - | 0.0 | 3.9 | 91.3 | 4.8 | - | - | 0.0 | 60.0 | 40.0 | 0.0 | - | - | 0.0 | 35.0 | 5.0 | 60.0 | - | - | - |
| Total \% | 0.0 | 2.0 | 46.7 | 1.0 | - | 49.7 | 0.0 | 1.8 | 41.4 | 2.2 | - | 45.3 | 0.0 | 0.6 | 0.4 | 0.0 | - | 1.0 | 0.0 | 1.4 | 0.2 | 2.4 | - | 4.0 | - |
| PHF | 0.000 | 0.625 | 0.843 | 0.625 | - | 0.860 | 0.000 | 0.563 | 0.871 | 0.917 | - | 0.909 | 0.000 | 0.375 | 0.500 | 0.000 | - | 0.625 | 0.000 | 0.350 | 0.250 | 0.750 | - | 0.625 | 0.865 |
| Lights | 0 | 10 | 232 | 5 | - | 247 | 0 | 9 | 204 | 11 | - | 224 | 0 | 3 | 2 | 0 | - | 5 | 0 | 7 | 1 | 12 | - | 20 | 496 |
| \% Lights | - | 100.0 | 98.3 | 100.0 | - | 98.4 | - | 100.0 | 97.6 | 100.0 | - | 97.8 | - | 100.0 | 100.0 | - | - | 100.0 | - | 100.0 | 100.0 | 100.0 | $\checkmark$ | 100.0 | 98.2 |
| Buses | 0 | 0 | 2 | 0 | - | 2 | 0 | 0 | 1 | 0 | - | 1 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 3 |
| \% Buses | - | 0.0 | 0.8 | 0.0 | - | 0.8 | - | 0.0 | 0.5 | 0.0 | - | 0.4 | - | 0.0 | 0.0 | - | - | 0.0 | - | 0.0 | 0.0 | 0.0 | - | 0.0 | 0.6 |
| Single-Unit Trucks | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 2 | 0 | - | 2 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 2 |
| \% Single-Unit Trucks | - | 0.0 | 0.0 | 0.0 | - | 0.0 | - | 0.0 | 1.0 | 0.0 | - | 0.9 | - | 0.0 | 0.0 | - | . | 0.0 | - | 0.0 | 0.0 | 0.0 | - | 0.0 | 0.4 |
| Articulated Trucks | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 2 | 0 | - | 2 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 2 |
| $\begin{aligned} & \text { \% Articulated } \\ & \text { Trucks } \\ & \hline \end{aligned}$ | - | 0.0 | 0.0 | 0.0 | - | 0.0 | - | 0.0 | 1.0 | 0.0 | - | 0.9 | - | 0.0 | 0.0 | - | - | 0.0 | - | 0.0 | 0.0 | 0.0 | - | 0.0 | 0.4 |
| Bicycles on Road | 0 | 0 | 2 | 0 | - | 2 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 2 |
| $\begin{gathered} \text { \% Bicycles on } \\ \text { Road } \end{gathered}$ | - | 0.0 | 0.8 | 0.0 | - | 0.8 | - | 0.0 | 0.0 | 0.0 | - | 0.0 | . | 0.0 | 0.0 | - | - | 0.0 | - | 0.0 | 0.0 | 0.0 | - | 0.0 | 0.4 |
| Pedestrians | - | - | - | - | 2 | - | - | - | - | - | 0 | - | - | - | - | - | 0 | - | - | - | - | - | 8 | - | - |
| \% Pedestrians | - | - | - | - | 100.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 100.0 | - | - |

Count Name: Thacker+with+Alley TMC
Site Code:
Start Date: $04 / 26 / 2023$
Page No: 4
Page No: 4




## Site Plan




Site Plan - South Site

## FitzGerald

## ITE Trip Generation Summary Sheets

# Land Use: 221 <br> Multifamily Housing (Mid-Rise) 

## Description

Mid-rise multifamily housing includes apartments and condominiums located in a building that has between four and 10 floors of living space. Access to individual dwelling units is through an outside building entrance, a lobby, elevator, and a set of hallways.

Multifamily housing (low-rise) (Land Use 220), multifamily housing (high-rise) (Land Use 222), offcampus student apartment (mid-rise) (Land Use 226), and mid-rise residential with ground-floor commercial (Land Use 231) are related land uses.

## Land Use Subcategory

Data are presented for two subcategories for this land use: (1) not close to rail transit and (2) close to rail transit. A site is considered close to rail transit if the walking distance between the residential site entrance and the closest rail transit station entrance is $1 / 2$ mile or less.

## Additional Data

For the six sites for which both the number of residents and the number of occupied dwelling units were available, there were an average of 2.5 residents per occupied dwelling unit.

For the five sites for which the numbers of both total dwelling units and occupied dwelling units were available, an average of 96 percent of the total dwelling units were occupied.

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip generation resource page on the ITE website (https://www.ite.org/technical-resources/topics/trip-and-parking-generation/).

It is expected that the number of bedrooms and number of residents are likely correlated to the trips generated by a residential site. To assist in future analysis, trip generation studies of all multifamily housing should attempt to obtain information on occupancy rate and on the mix of residential unit sizes (i.e., number of units by number of bedrooms at the site complex).

The sites were surveyed in the 1990s, the 2000s, the 2010s, and the 2020s in Alberta (CAN), California, District of Columbia, Florida, Georgia, Illinois, Maryland, Massachusetts, Minnesota, Montana, New Jersey, New York, Ontario (CAN), Oregon, Utah, and Virginia.

## Source Numbers

$168,188,204,305,306,321,818,857,862,866,901,904,910,949,951,959,963,964,966,967$, $969,970,1004,1014,1022,1023,1025,1031,1032,1035,1047,1056,1057,1058,1071,1076$

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

Vehicle Trip Ends vs: Dwelling Units
On a: Weekday

## Setting/Location: General Urban/Suburban

Number of Studies: 11
Avg. Num. of Dwelling Units: 201
Directional Distribution: 50\% entering, 50\% exiting
Vehicle Trip Generation per Dwelling Unit

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

Data Plot and Equation


Attachment 13

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

Vehicle Trip Ends vs: Dwelling Units
On a: Weekday,
Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.

## Setting/Location: General Urban/Suburban

Number of Studies: 30
Avg. Num. of Dwelling Units: 173
Directional Distribution: 23\% entering, 77\% exiting
Vehicle Trip Generation per Dwelling Unit

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

Data Plot and Equation


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

Vehicle Trip Ends vs: Dwelling Units
On a: Weekday,
Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

## Setting/Location: General Urban/Suburban

Number of Studies: 31
Avg. Num. of Dwelling Units: 169
Directional Distribution: 61\% entering, 39\% exiting
Vehicle Trip Generation per Dwelling Unit

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

Data Plot and Equation


Attachment 13

## Level of Service Criteria

| Signalized Intersections |  |  |
| :---: | :---: | :---: |
| Level of Service | Interpretation | $\begin{gathered} \text { Average Control } \\ \text { Delay } \\ \text { (seconds per vehicle) } \end{gathered}$ |
| A | Favorable progression. Most vehicles arrive during the green indication and travel through the intersection without stopping. | $\leq 10$ |
| B | Good progression, with more vehicles stopping than for Level of Service A. | > $10-20$ |
| C | 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 |
| Unsignalized Intersections |  |  |
| Level of Service |  | Average Total Delay (sec/veh) |
| A 0-10 |  |  |
| B $\quad>10-15$ |  |  |
| C $\quad>15-25$ |  |  |
| D $\quad>25-35$ |  |  |
| E $\quad>35-50$ |  |  |
| F ( $>50$ |  |  |
| Source: Highway Capacity Manual, $6^{\text {th }}$ Edition. |  |  |

## Capacity Analysis Summary Sheets Existing Weekday Morning Peak Hour

|  | 4 |  |  | 7 |  |  |  | $\dagger$ | $p$ | $\downarrow$ |  | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | $\hat{\dagger}$ |  | ${ }^{4}$ | 4 |  |  |  |  | ${ }^{1}$ | 中 ${ }^{\text {a }}$ |  |
| Traffic Volume (vph) | 0 | 208 | 36 | 39 | 134 | 0 | 0 | 0 | 0 | 63 | 482 | 82 |
| Future Volume (vph) | 0 | 208 | 36 | 39 | 134 | 0 | 0 | 0 | 0 | 63 | 482 | 82 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Storage Length (ft) | 0 |  | 0 | 25 |  | 0 | 0 |  | 0 | 0 |  | 0 |
| Storage Lanes | 0 |  | 0 | 1 |  | 0 | 0 |  | 0 | 1 |  | 0 |
| Taper Length (ft) | 25 |  |  | 25 |  |  | 25 |  |  | 25 |  |  |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 |
| Frt |  | 0.980 |  |  |  |  |  |  |  |  | 0.978 |  |
| Flt Protected |  |  |  | 0.950 |  |  |  |  |  | 0.950 |  |  |
| Satd. Flow (prot) | 0 | 1772 | 0 | 1719 | 1810 | 0 | 0 | 0 | 0 | 1752 | 3381 | 0 |
| Flt Permitted |  |  |  | 0.328 |  |  |  |  |  | 0.950 |  |  |
| Satd. Flow (perm) | 0 | 1772 | 0 | 594 | 1810 | 0 | 0 | 0 | 0 | 1752 | 3381 | 0 |
| Right Turn on Red |  |  | Yes |  |  | Yes |  |  | Yes |  |  | Yes |
| Satd. Flow (RTOR) |  | 8 |  |  |  |  |  |  |  |  | 27 |  |
| Link Speed (mph) |  | 30 |  |  | 30 |  |  | 30 |  |  | 30 |  |
| Link Distance (ft) |  | 192 |  |  | 276 |  |  | 397 |  |  | 453 |  |
| Travel Time (s) |  | 4.4 |  |  | 6.3 |  |  | 9.0 |  |  | 10.3 |  |
| 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 |
| Heavy Vehicles (\%) | 0\% | 6\% | 0\% | 5\% | 5\% | 0\% | 0\% | 0\% | 0\% | 3\% | 4\% | 7\% |
| Shared Lane Traffic (\%) |  |  |  |  |  |  |  |  |  |  |  |  |
| Lane Group Flow (vph) | 0 | 255 | 0 | 41 | 140 | 0 | 0 | 0 | 0 | 66 | 587 | 0 |
| Turn Type |  | NA |  | Perm | NA |  |  |  |  | Perm | NA |  |
| Protected Phases |  | 4 |  |  | 8 |  |  |  |  |  | 6 |  |
| Permitted Phases |  |  |  | 8 |  |  |  |  |  | 6 |  |  |
| Detector Phase |  | 4 |  | 8 | 8 |  |  |  |  | 6 | 6 |  |
| Switch Phase |  |  |  |  |  |  |  |  |  |  |  |  |
| Minimum Initial (s) |  | 1.0 |  | 10.0 | 10.0 |  |  |  |  | 10.0 | 10.0 |  |
| Minimum Split (s) |  | 22.5 |  | 22.5 | 22.5 |  |  |  |  | 22.5 | 22.5 |  |
| Total Split (s) |  | 45.0 |  | 45.0 | 45.0 |  |  |  |  | 75.0 | 75.0 |  |
| Total Split (\%) |  | 37.5\% |  | 37.5\% | 37.5\% |  |  |  |  | 62.5\% | 62.5\% |  |
| Yellow Time (s) |  | 4.5 |  | 4.5 | 4.5 |  |  |  |  | 4.5 | 4.5 |  |
| All-Red Time (s) |  | 1.5 |  | 1.5 | 1.5 |  |  |  |  | 1.5 | 1.5 |  |
| Lost Time Adjust (s) |  | 0.0 |  | 0.0 | 0.0 |  |  |  |  | 0.0 | 0.0 |  |
| Total Lost Time (s) |  | 6.0 |  | 6.0 | 6.0 |  |  |  |  | 6.0 | 6.0 |  |
| Lead/Lag |  |  |  |  |  |  |  |  |  |  |  |  |
| Lead-Lag Optimize? |  |  |  |  |  |  |  |  |  |  |  |  |
| Recall Mode |  | None |  | None | None |  |  |  |  | C-Min | C-Min |  |
| Act Effct Green (s) |  | 22.3 |  | 22.3 | 22.3 |  |  |  |  | 85.7 | 85.7 |  |
| Actuated g/C Ratio |  | 0.19 |  | 0.19 | 0.19 |  |  |  |  | 0.71 | 0.71 |  |
| v/c Ratio |  | 0.76 |  | 0.37 | 0.42 |  |  |  |  | 0.05 | 0.24 |  |
| Control Delay |  | 59.1 |  | 51.0 | 46.9 |  |  |  |  | 6.3 | 6.5 |  |
| Queue Delay |  | 0.0 |  | 0.0 | 0.0 |  |  |  |  | 0.0 | 0.0 |  |
| Total Delay |  | 59.1 |  | 51.0 | 46.9 |  |  |  |  | 6.3 | 6.5 |  |
| LOS |  | E |  | D | D |  |  |  |  | A | A |  |
| Approach Delay |  | 59.1 |  |  | 47.8 |  |  |  |  |  | 6.4 |  |
| Approach LOS |  | E |  |  | D |  |  |  |  |  | A |  |
| Queue Length 50th (ft) |  | 183 |  | 33 | 112 |  |  |  |  | 14 | 69 |  |
| Queue Length 95th (ft) |  | 257 |  | 70 | 177 |  |  |  |  | 34 | 115 |  |

AMEX 23-101/23-102 - Apartment Development - Des Plaines 12:20 pm 04/26/2023 Existing Weekday Morning Peak H@ynchro 11 Report BSM,sa


Splits and Phases: 1: Graceland Avenue \& Thacker Street


AMEX 23-101/23-102 - Apartment Development - Des Plaines 12:20 pm 04/26/2023 Existing Weekday Morning Peak H@ynchro 11 Report BSM,sa

|  | 4 | $\rightarrow$ |  | 7 |  |  | $4$ | $\dagger$ |  |  | $\dagger$ | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ${ }^{7}$ | 4 |  |  | 4 | 「 |  | *中\% |  |  |  |  |
| Traffic Volume (vph) | 73 | 196 | 0 | 0 | 144 | 31 | 31 | 464 | 69 | 0 | 0 | 0 |
| Future Volume (vph) | 73 | 196 | 0 | 0 | 144 | 31 | 31 | 464 | 69 | 0 | 0 | 0 |
| Ideal Flow (vphpl) | 1900 | 2000 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Storage Length (ft) | 25 |  | 0 | 0 |  | 0 | 0 |  | 0 | 0 |  | 0 |
| Storage Lanes | 1 |  | 0 | 0 |  | 1 | 0 |  | 0 | 0 |  | 0 |
| Taper Length (ft) | 25 |  |  | 25 |  |  | 25 |  |  | 25 |  |  |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.91 | 0.91 | 0.91 | 1.00 | 1.00 | 1.00 |
| Frt |  |  |  |  |  | 0.850 |  | 0.982 |  |  |  |  |
| Flt Protected | 0.950 |  |  |  |  |  |  | 0.997 |  |  |  |  |
| Satd. Flow (prot) | 1687 | 1980 | 0 | 0 | 1827 | 1568 | 0 | 4794 | 0 | 0 | 0 | 0 |
| Flt Permitted | 0.408 |  |  |  |  |  |  | 0.997 |  |  |  |  |
| Satd. Flow (perm) | 724 | 1980 | 0 | 0 | 1827 | 1568 | 0 | 4794 | 0 | 0 | 0 | 0 |
| Right Turn on Red |  |  | Yes |  |  | Yes |  |  | Yes |  |  | Yes |
| Satd. Flow (RTOR) |  |  |  |  |  | 59 |  | 21 |  |  |  |  |
| Link Speed (mph) |  | 30 |  |  | 30 |  |  | 30 |  |  | 30 |  |
| Link Distance (ft) |  | 219 |  |  | 1072 |  |  | 519 |  |  | 495 |  |
| Travel Time (s) |  | 5.0 |  |  | 24.4 |  |  | 11.8 |  |  | 11.3 |  |
| Peak Hour Factor | 0.86 | 0.93 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |
| Heavy Vehicles (\%) | 7\% | 1\% | 0\% | 0\% | 4\% | 3\% | 3\% | 7\% | 0\% | 0\% | 2\% | 2\% |
| Shared Lane Traffic (\%) |  |  |  |  |  |  |  |  |  |  |  |  |
| Lane Group Flow (vph) | 85 | 211 | 0 | 0 | 167 | 36 | 0 | 656 | 0 | 0 | 0 | 0 |
| Turn Type | pm+pt | NA |  |  | NA | Perm | Perm | NA |  |  |  |  |
| Protected Phases | 7 | 4 |  |  | 8 |  |  | 2 |  |  |  |  |
| Permitted Phases | 4 |  |  |  |  | 8 | 2 |  |  |  |  |  |
| Detector Phase | 7 | 4 |  |  | 8 | 8 | 2 | 2 |  |  |  |  |
| Switch Phase |  |  |  |  |  |  |  |  |  |  |  |  |
| Minimum Initial (s) | 3.0 | 8.0 |  |  | 8.0 | 8.0 | 15.0 | 15.0 |  |  |  |  |
| Minimum Split (s) | 9.5 | 24.0 |  |  | 24.0 | 24.0 | 24.0 | 24.0 |  |  |  |  |
| Total Split (s) | 21.0 | 78.0 |  |  | 57.0 | 57.0 | 42.0 | 42.0 |  |  |  |  |
| Total Split (\%) | 17.5\% | 65.0\% |  |  | 47.5\% | 47.5\% | 35.0\% | 35.0\% |  |  |  |  |
| Yellow Time (s) | 3.5 | 4.0 |  |  | 4.0 | 4.0 | 4.0 | 4.0 |  |  |  |  |
| All-Red Time (s) | 0.0 | 2.0 |  |  | 2.0 | 2.0 | 2.0 | 2.0 |  |  |  |  |
| Lost Time Adjust (s) | 0.0 | 0.0 |  |  | 0.0 | 0.0 |  | 0.0 |  |  |  |  |
| Total Lost Time (s) | 3.5 | 6.0 |  |  | 6.0 | 6.0 |  | 6.0 |  |  |  |  |
| Lead/Lag | Lead |  |  |  | Lag | Lag |  |  |  |  |  |  |
| Lead-Lag Optimize? | Yes |  |  |  | Yes | Yes |  |  |  |  |  |  |
| Recall Mode | None | None |  |  | None | None | C-Min | C-Min |  |  |  |  |
| Act Effct Green (s) | 32.4 | 29.9 |  |  | 17.8 | 17.8 |  | 78.1 |  |  |  |  |
| Actuated g/C Ratio | 0.27 | 0.25 |  |  | 0.15 | 0.15 |  | 0.65 |  |  |  |  |
| v/c Ratio | 0.30 | 0.43 |  |  | 0.62 | 0.13 |  | 0.21 |  |  |  |  |
| Control Delay | 32.1 | 36.1 |  |  | 57.5 | 4.9 |  | 9.6 |  |  |  |  |
| Queue Delay | 0.0 | 0.0 |  |  | 0.0 | 0.0 |  | 0.0 |  |  |  |  |
| Total Delay | 32.1 | 36.1 |  |  | 57.5 | 4.9 |  | 9.6 |  |  |  |  |
| LOS | C | D |  |  | E | A |  | A |  |  |  |  |
| Approach Delay |  | 34.9 |  |  | 48.2 |  |  | 9.6 |  |  |  |  |
| Approach LOS |  | C |  |  | D |  |  | A |  |  |  |  |
| Queue Length 50th (ft) | 64 | 164 |  |  | 123 | 0 |  | 69 |  |  |  |  |
| Queue Length 95th (ft) | 107 | 236 |  |  | 176 | 11 |  | 106 |  |  |  |  |

AMEX 23-101/23-102 - Apartment Development - Des Plaines 12:20 pm 04/26/2023 Existing Weekday Morning Peak H@ynchro 11 Report BSM,sa

|  |  |  |  |  |  |  |  | $\dagger$ | $p$ |  | $\downarrow$ | $\checkmark$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Internal Link Dist (tt) |  | 139 |  |  | 992 |  |  | 439 |  |  | 415 |  |
| Turn Bay Length (t) | 25 |  |  |  |  |  |  |  |  |  |  |  |
| Base Capacity (vph) | 338 | 1188 |  |  | 776 | 700 |  | 3126 |  |  |  |  |
| Starvation Cap Reductn | 0 | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  |
| Spillback Cap Reductn | 0 | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  |
| Storage Cap Reductn | 0 | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  |
| Reduced v/c Ratio | 0.25 | 0.18 |  |  | 0.22 | 0.05 |  | 0.21 |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| Area Type: Other |  |  |  |  |  |  |  |  |  |  |  |  |
| Cycle Length: 120 |  |  |  |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length: 120 |  |  |  |  |  |  |  |  |  |  |  |  |
| Offset: 0 (0\%), Referenced to phase 2:NBTL and 6:, Start of Green |  |  |  |  |  |  |  |  |  |  |  |  |
| Natural Cycle: 60 |  |  |  |  |  |  |  |  |  |  |  |  |
| Control Type: Actuated-Coordinated |  |  |  |  |  |  |  |  |  |  |  |  |
| Maximum v/c Ratio: 0.62 |  |  |  |  |  |  |  |  |  |  |  |  |
| Intersection Signal Delay: 22.9 |  |  |  | Intersection LOS: C |  |  |  |  |  |  |  |  |
| Intersection Capacity Utilization 37.5\% |  |  |  | ICU Level of Service A |  |  |  |  |  |  |  |  |
| Analysis Period (min) 15 |  |  |  |  |  |  |  |  |  |  |  |  |

Splits and Phases: 2: Lee Street \& Thacker Street


AMEX 23-101/23-102 - Apartment Development - Des Plaines 12:20 pm 04/26/2023 Existing Weekday Morning Peak H@ynchro 11 Report BSM,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.3 |  |  |  |  |  |
| Movement | NBT | NBR | SBL | SBT | NWL | NWR |
| Lane Configurations |  |  |  | $\uparrow \uparrow$ | ₹ |  |
| Traffic Vol, veh/h | 0 | 0 | 12 | 558 | 16 | 0 |
| Future Vol, veh/h | 0 | 0 | 12 | 558 | 16 | 0 |
| 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, $\%$ | 2 | 2 | 2 | 2 | 13 | 0 |
| Mvmt Flow | 0 | 0 | 13 | 594 | 17 | 0 |



AMEX 23-101/23-102 - Apartment Development - Des Plaines 12:20 pm 04/26/2023 Existing Weekday Morning Peak H@ymchro 11 Report BSM,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.3 |  |  |  |  |  |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations |  | $\mathbf{7}$ |  |  | 个 1 |  |
| Traffic Vol, veh/h | 1 | 17 | 0 | 0 | 564 | 10 |
| Future Vol, veh/h | 1 | 17 | 0 | 0 | 564 | 10 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | 0 | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, \% | 0 | 6 | 0 | 0 | 4 | 20 |
| Mvmt Flow | 1 | 18 | 0 | 0 | 594 | 11 |


| Major/Minor | Minor2 | Major2 |  |  |
| :--- | ---: | ---: | ---: | :--- |
| Conflicting Flow All | 600 | 303 | - | 0 |
| $\quad$ Stage 1 | 600 | - | - | - |
| $\quad$ Stage 2 | 0 | - | - | - |
| Critical Hdwy | 6.8 | 7.02 | - | - |
| Critical Hdwy Stg 1 | 5.8 | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.36 | - | - |
| Pot Cap-1 Maneuver | 437 | 681 | - | - |
| $\quad$ Stage 1 | 516 | - | - | - |
| $\quad$ Stage 2 | - | - | - | - |
| Platoon blocked, \% |  |  | - | - |
| Mov Cap-1 Maneuver | 437 | 681 | - | - |
| Mov Cap-2 Maneuver | 437 | - | - | - |
| Stage 1 | 516 | - | - | - |
| Stage 2 | - | - | - | - |
|  |  |  |  |  |


| Approach | EB | SB |  |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, s | 10.4 |  | 0 |
| HCM LOS | B |  |  |
|  |  |  |  |
| Minor Lane/Major Mvmt | EBLn1 | SBT | SBR |
| Capacity (veh/h) | 681 | - | - |
| HCM Lane V/C Ratio | 0.026 | - | - |
| HCM Control Delay (s) | 10.4 | - | - |
| HCM Lane LOS | B | - | - |
| HCM 95th \%tile Q(veh) | 0.1 | - | - |

AMEX 23-101/23-102 - Apartment Development - Des Plaines 12:20 pm 04/26/2023 Existing Weekday Morning Peak H@ymchro 11 Report BSM,sa



AMEX 23-101/23-102 - Apartment Development - Des Plaines 12:20 pm 04/26/2023 Existing Weekday Morning Peak H@ynchro 11 Report BSM,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.3 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | $\uparrow$ | F |  |  |  |
| Traffic Vol, veh/h | 3 | 250 | 203 | 10 | 3 | 7 |
| Future Vol, veh/h | 3 | 250 | 203 | 10 | 3 | 7 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, $\%$ | 0 | 3 | 8 | 0 | 0 | 0 |
| Mvmt Flow | 3 | 269 | 218 | 11 | 3 | 8 |


| Major/Minor | Major1 | Major2 |  | Minor2 |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Conflicting Flow All | 229 | 0 | - | 0 | 499 | 224 |
| $\quad$ Stage 1 | - | - | - | - | 224 | - |
| $\quad$ Stage 2 | - | - | - | - | 275 | - |
| Critical Hdwy | 4.1 | - | - | - | 6.4 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - |
| Follow-up Hdwy | 2.2 | - | - | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | 1351 | - | - | - | 535 | 820 |
| $\quad$ Stage 1 | - | - | - | - | 818 | - |


| Stage 2 | - | - | - | - | 776 | - |
| :---: | ---: | ---: | ---: | :--- | ---: | ---: |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1351 | - | - | - | 533 | 820 |
| Mov Cap-2 Maneuver | - | - | - | - | 533 | - |
| Stage 1 | - | - | - | - | 816 | - |
| Stage 2 | - | - | - | - | 776 | - |


| Approach | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, s | 0.1 | 0 | 10.2 |
| HCM LOS |  |  | B |


| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR SBLn1 |
| :--- | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 1351 | - | - | -706 |
| HCM Lane V/C Ratio | 0.002 | - | - | -0.015 |
| HCM Control Delay (s) | 7.7 | 0 | - | -10.2 |
| HCM Lane LOS | A | A | - | - |
| HCM 95th \%tile Q(veh) | 0 | - | - | - |

AMEX 23-101/23-102 - Apartment Development - Des Plaines 12:20 pm 04/26/2023 Existing Weekday Morning Peak H@ymchro 11 Report BSM,sa


| Major/Minor | Major1 | Major2 |  | Minor2 |  |  |
| :--- | ---: | :--- | :--- | :--- | ---: | ---: |
| Conflicting Flow All | 223 | 0 | - | 0 | 533 | 213 |
| Stage 1 | - | - | - | - | 213 | - |
| Stage 2 | - | - | - | - | 320 | - |
| Critical Hdwy | 4.13 | - | - | - | 6.57 | 6.38 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.57 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.57 | - |
| Follow-up Hdwy | 2.227 | - | - | -3.653 | 3.462 |  |
| Pot Cap-1 Maneuver | 1340 | - | - | - | 482 | 788 |
| $\quad$ Stage 1 | - | - | - | - | 788 | - |
| Stage 2 | - | - | - | - | 703 | - |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1340 | - | - | - | 469 | 788 |
| Mov Cap-2 Maneuver | - | - | - | - | 469 | - |
| Stage 1 | - | - | - | - | 766 | - |
| Stage 2 | - | - | - | - | 703 | - |


| Approach | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, s | 0.9 | 0 | 11.2 |
| HCM LOS |  |  | B |


| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR SBLn1 |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 1340 | - | - | - | 615 |
| HCM Lane V/C Ratio | 0.024 | - | - | - | 0.05 |
| HCM Control Delay (s) | 7.8 | 0 | - | - | 11.2 |
| HCM Lane LOS | A | A | - | - | B |
| HCM 95th \%tile Q(veh) | 0.1 | - | - | - | 0.2 |

AMEX 23-101/23-102 - Apartment Development - Des Plaines 12:20 pm 04/26/2023 Existing Weekday Morning Peak H@ymchro 11 Report BSM,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.8 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | F |  |  | $\uparrow$ | ${ }^{\text {a }}$ |  |
| Traffic Vol, veh/h | 258 | 12 | 12 | 196 | 13 | 13 |
| Future Vol, veh/h | 258 | 12 | 12 | 196 | 13 | 13 |
| 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 | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, \% | 4 | 0 | 8 | 6 | 0 | 0 |
| Mvmt Flow | 287 | 13 | 13 | 218 | 14 | 14 |



AMEX 23-101/23-102 - Apartment Development - Des Plaines 12:20 pm 04/26/2023 Existing Weekday Morning Peak H@ymchro 11 Report BSM,sa

HCM 6th TWSC
9: Thacker Street \& Alley(Graceland Court)


| Major/Minor | Major1 | Major2 |  | Minor2 |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Conflicting Flow All | 232 | 0 | - | 0 | 510 | 228 |
| Stage 1 | - | - | - | - | 228 | - |
| Stage 2 | - | - | - | - | 282 | - |
| Critical Hdwy | 4.1 | - | - | - | 6.4 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - |
| Follow-up Hdwy | 2.2 | - | - | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | 1348 | - | - | - | 527 | 816 |
| Stage 1 | - | - | - | - | 815 | - |
| Stage 2 | - | - | - | - | 770 | - |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1348 | - | - | - | 523 | 816 |
| Mov Cap-2 Maneuver | - | - | - | - | 523 | - |
| Stage 1 | - | - | - | - | 808 | - |
| Stage 2 | - | - | - | - | 770 | - |


| Approach | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, s | 0.2 | 0 | 10.3 |
| HCM LOS |  | $B$ |  |


| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR SBLn1 |
| :--- | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 1348 | - | - | -696 |
| HCM Lane V/C Ratio | 0.007 | - | - | -0.021 |
| HCM Control Delay (s) | 7.7 | 0 | - | -10.3 |
| HCM Lane LOS | A | A | - | - |
| HCM 95th \%tile Q(veh) | 0 | - | - | - |

AMEX 23-101/23-102 - Apartment Development - Des Plaines 12:20 pm 04/26/2023 Existing Weekday Morning Peak H@ymchro 11 Report BSM,sa

| Intersection |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 0.8 |  |  |  |  |  |  |  |  |  |  |  |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | \$ |  |  | \$ |  |  | \$ |  |  | ¢ |  |
| Traffic Vol, veh/h | 6 | 256 | 9 | 2 | 165 | 13 | 7 | 2 | 7 | 6 | 0 | 7 |
| Future Vol, veh/h | 6 | 256 | 9 | 2 | 165 | 13 | 7 | 2 | 7 | 6 | 0 | 7 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, \# | \# | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, \% | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 |
| Heavy Vehicles, \% | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 7 | 281 | 10 | 2 | 181 | 14 | 8 | 2 | 8 | 7 | 0 | 8 |



AMEX 23-101/23-102 - Apartment Development - Des Plaines 12:20 pm 04/26/2023 Existing Weekday Morning Peak HQymchro 11 Report BSM,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 2.1 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | $\uparrow$ | F |  |  |  |
| Traffic Vol, veh/h | 3 | 6 | 10 | 0 | 0 | 3 |
| Future Vol, veh/h | 3 | 6 | 10 | 0 | 0 | 3 |
| 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 | 61 | 61 | 61 | 61 | 61 | 61 |
| Heavy Vehicles, $\%$ | 0 | 0 | 10 | 0 | 2 | 0 |
| Mvmt Flow | 5 | 10 | 16 | 0 | 0 | 5 |



AMEX 23-101/23-102 - Apartment Development - Des Plaines 12:20 pm 04/26/2023 Existing Weekday Morning Peak H@ymchro 11 Report BSM,sa

## Capacity Analysis Summary Sheets Existing Weekday Evening Peak Hour

|  | 4 | $\rightarrow$ |  | 7 |  |  | $4$ |  |  | $1$ |  | $\downarrow$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | $\hat{\beta}$ |  | ${ }^{*}$ | 4 |  |  |  |  | ${ }^{7}$ | 中 ${ }^{\text {F }}$ |  |
| Traffic Volume (vph) | 0 | 205 | 45 | 58 | 203 | 0 | 0 | 0 | 0 | 43 | 491 | 135 |
| Future Volume (vph) | 0 | 205 | 45 | 58 | 203 | 0 | 0 | 0 | 0 | 43 | 491 | 135 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Storage Length (ft) | 0 |  | 0 | 25 |  | 0 | 0 |  | 0 | 0 |  | 0 |
| Storage Lanes | 0 |  | 0 | 1 |  | 0 | 0 |  | 0 | 1 |  | 0 |
| Taper Length (ft) | 25 |  |  | 25 |  |  | 25 |  |  | 25 |  |  |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 |
| Frt |  | 0.976 |  |  |  |  |  |  |  |  | 0.968 |  |
| Flt Protected |  |  |  | 0.950 |  |  |  |  |  | 0.950 |  |  |
| Satd. Flow (prot) | 0 | 1833 | 0 | 1770 | 1845 | 0 | 0 | 0 | 0 | 1805 | 3426 | 0 |
| Flt Permitted |  |  |  | 0.295 |  |  |  |  |  | 0.950 |  |  |
| Satd. Flow (perm) | 0 | 1833 | 0 | 550 | 1845 | 0 | 0 | 0 | 0 | 1805 | 3426 | 0 |
| Right Turn on Red |  |  | Yes |  |  | Yes |  |  | Yes |  |  | Yes |
| Satd. Flow (RTOR) |  | 9 |  |  |  |  |  |  |  |  | 54 |  |
| Link Speed (mph) |  | 30 |  |  | 30 |  |  | 30 |  |  | 30 |  |
| Link Distance (ft) |  | 192 |  |  | 276 |  |  | 397 |  |  | 453 |  |
| Travel Time (s) |  | 4.4 |  |  | 6.3 |  |  | 9.0 |  |  | 10.3 |  |
| Peak Hour Factor | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Heavy Vehicles (\%) | 0\% | 1\% | 2\% | 2\% | 3\% | 0\% | 0\% | 0\% | 0\% | 0\% | 2\% | 2\% |
| Shared Lane Traffic (\%) |  |  |  |  |  |  |  |  |  |  |  |  |
| Lane Group Flow (vph) | 0 | 278 | 0 | 64 | 226 | 0 | 0 | 0 | 0 | 48 | 696 | 0 |
| Turn Type |  | NA |  | Perm | NA |  |  |  |  | Perm | NA |  |
| Protected Phases |  | 4 |  |  | 8 |  |  |  |  |  | 6 |  |
| Permitted Phases |  |  |  | 8 |  |  |  |  |  | 6 |  |  |
| Detector Phase |  | 4 |  | 8 | 8 |  |  |  |  | 6 | 6 |  |
| Switch Phase |  |  |  |  |  |  |  |  |  |  |  |  |
| Minimum Initial (s) |  | 10.0 |  | 5.0 | 5.0 |  |  |  |  | 10.0 | 10.0 |  |
| Minimum Split (s) |  | 22.5 |  | 22.5 | 22.5 |  |  |  |  | 22.5 | 22.5 |  |
| Total Split (s) |  | 40.0 |  | 40.0 | 40.0 |  |  |  |  | 80.0 | 80.0 |  |
| Total Split (\%) |  | 33.3\% |  | 33.3\% | 33.3\% |  |  |  |  | 66.7\% | 66.7\% |  |
| Yellow Time (s) |  | 4.5 |  | 4.5 | 4.5 |  |  |  |  | 4.5 | 4.5 |  |
| All-Red Time (s) |  | 1.5 |  | 1.0 | 1.0 |  |  |  |  | 1.5 | 1.5 |  |
| Lost Time Adjust (s) |  | 0.0 |  | 0.0 | 0.0 |  |  |  |  | 0.0 | 0.0 |  |
| Total Lost Time (s) |  | 6.0 |  | 5.5 | 5.5 |  |  |  |  | 6.0 | 6.0 |  |
| Lead/Lag |  |  |  |  |  |  |  |  |  |  |  |  |
| Lead-Lag Optimize? |  |  |  |  |  |  |  |  |  |  |  |  |
| Recall Mode |  | None |  | None | None |  |  |  |  | C-Min | C-Min |  |
| Act Effct Green (s) |  | 23.0 |  | 23.5 | 23.5 |  |  |  |  | 85.0 | 85.0 |  |
| Actuated g/C Ratio |  | 0.19 |  | 0.20 | 0.20 |  |  |  |  | 0.71 | 0.71 |  |
| v/c Ratio |  | 0.78 |  | 0.60 | 0.63 |  |  |  |  | 0.04 | 0.28 |  |
| Control Delay |  | 59.0 |  | 65.9 | 52.4 |  |  |  |  | 6.6 | 6.7 |  |
| Queue Delay |  | 0.0 |  | 0.0 | 0.0 |  |  |  |  | 0.0 | 0.0 |  |
| Total Delay |  | 59.0 |  | 65.9 | 52.4 |  |  |  |  | 6.6 | 6.7 |  |
| LOS |  | E |  | E | D |  |  |  |  | A | A |  |
| Approach Delay |  | 59.0 |  |  | 55.4 |  |  |  |  |  | 6.7 |  |
| Approach LOS |  | E |  |  | E |  |  |  |  |  | A |  |
| Queue Length 50th (ft) |  | 200 |  | 50 | 180 |  |  |  |  | 10 | 84 |  |
| Queue Length 95th (ft) |  | 276 |  | 99 | 258 |  |  |  |  | 27 | 137 |  |

PMEX 23-101/23-102 - Apartment Development - Des Plaines 2:04 pm 06/05/2023 Existing Weekday Evening Peak Ho@ynchro 11 Report BSM,sa


Splits and Phases: 1: Graceland Avenue \& Thacker Street


PMEX 23-101/23-102 - Apartment Development - Des Plaines 2:04 pm 06/05/2023 Existing Weekday Evening Peak Hợynchro 11 Report BSM,sa

|  | 4 | $\rightarrow$ |  | 7 |  |  | $4$ | $\dagger$ | \％ |  | $\dagger$ | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ${ }^{7}$ | 4 |  |  | 4 | 「 |  | ＊个中 |  |  |  |  |
| Traffic Volume（vph） | 77 | 159 | 0 | 0 | 182 | 22 | 59 | 524 | 90 | 0 | 0 | 0 |
| Future Volume（vph） | 77 | 159 | 0 | 0 | 182 | 22 | 59 | 524 | 90 | 0 | 0 | 0 |
| Ideal Flow（vphpl） | 1900 | 2000 | 1900 | 1900 | 2000 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Storage Length（ft） | 25 |  | 0 | 0 |  | 0 | 0 |  | 0 | 0 |  | 0 |
| Storage Lanes | 1 |  | 0 | 0 |  | 1 | 0 |  | 0 | 0 |  | 0 |
| Taper Length（ft） | 25 |  |  | 25 |  |  | 25 |  |  | 25 |  |  |
| Lane Util．Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.91 | 0.91 | 0.91 | 1.00 | 1.00 | 1.00 |
| Frt |  |  |  |  |  | 0.850 |  | 0.980 |  |  |  |  |
| Flt Protected | 0.950 |  |  |  |  |  |  | 0.996 |  |  |  |  |
| Satd．Flow（prot） | 1752 | 1980 | 0 | 0 | 2000 | 1369 | 0 | 4964 | 0 | 0 | 0 | 0 |
| Flt Permitted | 0.341 |  |  |  |  |  |  | 0.996 |  |  |  |  |
| Satd．Flow（perm） | 629 | 1980 | 0 | 0 | 2000 | 1369 | 0 | 4964 | 0 | 0 | 0 | 0 |
| Right Turn on Red |  |  | Yes |  |  | Yes |  |  | Yes |  |  | Yes |
| Satd．Flow（RTOR） |  |  |  |  |  | 59 |  | 25 |  |  |  |  |
| Link Speed（mph） |  | 30 |  |  | 30 |  |  | 30 |  |  | 30 |  |
| Link Distance（ft） |  | 219 |  |  | 1072 |  |  | 519 |  |  | 495 |  |
| Travel Time（s） |  | 5.0 |  |  | 24.4 |  |  | 11.8 |  |  | 11.3 |  |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.91 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Heavy Vehicles（\％） | 3\％ | 1\％ | 0\％ | 0\％ | 0\％ | 18\％ | 2\％ | 2\％ | 2\％ | 0\％ | 0\％ | 0\％ |
| Shared Lane Traffic（\％） |  |  |  |  |  |  |  |  |  |  |  |  |
| Lane Group Flow（vph） | 84 | 173 | 0 | 0 | 200 | 24 | 0 | 732 | 0 | 0 | 0 | 0 |
| Turn Type | pm＋pt | NA |  |  | NA | Perm | Perm | NA |  |  |  |  |
| Protected Phases | 7 | 4 |  |  | 8 |  |  | 2 |  |  |  |  |
| Permitted Phases | 4 |  |  |  |  | 8 | 2 |  |  |  |  |  |
| Detector Phase | 7 | 4 |  |  | 8 | 8 | 2 | 2 |  |  |  |  |
| Switch Phase |  |  |  |  |  |  |  |  |  |  |  |  |
| Minimum Initial（s） | 3.0 | 8.0 |  |  | 8.0 | 8.0 | 15.0 | 15.0 |  |  |  |  |
| Minimum Split（s） | 9.5 | 22.5 |  |  | 22.5 | 22.5 | 22.5 | 22.5 |  |  |  |  |
| Total Split（s） | 13.0 | 78.0 |  |  | 65.0 | 65.0 | 42.0 | 42.0 |  |  |  |  |
| Total Split（\％） | 10．8\％ | 65．0\％ |  |  | 54．2\％ | 54．2\％ | 35．0\％ | 35．0\％ |  |  |  |  |
| Yellow Time（s） | 3.5 | 4.0 |  |  | 4.0 | 4.0 | 4.0 | 4.0 |  |  |  |  |
| All－Red Time（s） | 0.0 | 2.0 |  |  | 2.0 | 2.0 | 2.0 | 2.0 |  |  |  |  |
| Lost Time Adjust（s） | 0.0 | 0.0 |  |  | 0.0 | 0.0 |  | 0.0 |  |  |  |  |
| Total Lost Time（s） | 3.5 | 6.0 |  |  | 6.0 | 6.0 |  | 6.0 |  |  |  |  |
| Lead／Lag | Lead |  |  |  | Lag | Lag |  |  |  |  |  |  |
| Lead－Lag Optimize？ | Yes |  |  |  | Yes | Yes |  |  |  |  |  |  |
| Recall Mode | None | None |  |  | None | None | C－Min | C－Min |  |  |  |  |
| Act Effct Green（s） | 32.3 | 29.8 |  |  | 18.6 | 18.6 |  | 78.2 |  |  |  |  |
| Actuated g／C Ratio | 0.27 | 0.25 |  |  | 0.16 | 0.16 |  | 0.65 |  |  |  |  |
| v／c Ratio | 0.32 | 0.35 |  |  | 0.65 | 0.09 |  | 0.23 |  |  |  |  |
| Control Delay | 33.8 | 35.5 |  |  | 56.7 | 0.7 |  | 9.5 |  |  |  |  |
| Queue Delay | 0.0 | 0.0 |  |  | 0.0 | 0.0 |  | 0.0 |  |  |  |  |
| Total Delay | 33.8 | 35.5 |  |  | 56.7 | 0.7 |  | 9.5 |  |  |  |  |
| LOS | C | D |  |  | E | A |  | A |  |  |  |  |
| Approach Delay |  | 34.9 |  |  | 50.7 |  |  | 9.5 |  |  |  |  |
| Approach LOS |  | C |  |  | D |  |  | A |  |  |  |  |
| Queue Length 50th（ft） | 65 | 136 |  |  | 147 | 0 |  | 81 |  |  |  |  |
| Queue Length 95th（ft） | 115 | 206 |  |  | 213 | 1 |  | 116 |  |  |  |  |

PMEX 23－101／23－102－Apartment Development－Des Plaines 2：04 pm 06／05／2023 Existing Weekday Evening Peak Ho＠ynchro 11 Report BSM，sa

|  |  |  |  |  |  |  |  | $\dagger$ | $p$ |  | $\downarrow$ | $\checkmark$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Internal Link Dist (tt) |  | 139 |  |  | 992 |  |  | 439 |  |  | 415 |  |
| Turn Bay Length (t) | 25 |  |  |  |  |  |  |  |  |  |  |  |
| Base Capacity (vph) | 265 | 1188 |  |  | 983 | 703 |  | 3245 |  |  |  |  |
| Starvation Cap Reductn | 0 | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  |
| Spillback Cap Reductn | 0 | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  |
| Storage Cap Reductn | 0 | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  |
| Reduced v/c Ratio | 0.32 | 0.15 |  |  | 0.20 | 0.03 |  | 0.23 |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| Area Type: Other |  |  |  |  |  |  |  |  |  |  |  |  |
| Cycle Length: 120 |  |  |  |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length: 120 |  |  |  |  |  |  |  |  |  |  |  |  |
| Offset: 51.6 (43\%), Referenced to phase 2:NBTL and 6:, Start of Green |  |  |  |  |  |  |  |  |  |  |  |  |
| Natural Cycle: 55 |  |  |  |  |  |  |  |  |  |  |  |  |
| Control Type: Actuated-Coordinated |  |  |  |  |  |  |  |  |  |  |  |  |
| Maximum v/c Ratio: 0.65 |  |  |  |  |  |  |  |  |  |  |  |  |
| Intersection Signal Delay: 22.5 |  |  |  | Intersection LOS: C |  |  |  |  |  |  |  |  |
| Intersection Capacity Utilization 40.0\% |  |  |  | ICU Level of Service A |  |  |  |  |  |  |  |  |
| Analysis Period (min) 15 |  |  |  |  |  |  |  |  |  |  |  |  |

Splits and Phases: 2: Lee Street \& Thacker Street


PMEX 23-101/23-102 - Apartment Development - Des Plaines 2:04 pm 06/05/2023 Existing Weekday Evening Peak Ho@ynchro 11 Report BSM,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.5 |  |  |  |  |  |
| Movement | NBT | NBR | SBL | SBT | NWL | NWR |
| Lane Configurations |  |  |  | $\uparrow \uparrow$ | ₹ |  |
| Traffic Vol, veh/h | 0 | 0 | 13 | 592 | 29 | 0 |
| Future Vol, veh/h | 0 | 0 | 13 | 592 | 29 | 0 |
| 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 | 0 | 15 | 1 | 0 | 0 |
| Mvmt Flow | 0 | 0 | 14 | 630 | 31 | 0 |



PMEX 23-101/23-102 - Apartment Development - Des Plaines 2:04 pm 06/05/2023 Existing Weekday Evening Peak Ho@ynchro 11 Report BSM,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.3 |  |  |  |  |  |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations |  | 「 |  |  | 个 |  |
| Traffic Vol, veh/h | 0 | 17 | 0 | 0 | 607 | 14 |
| Future Vol, veh/h | 0 | 17 | 0 | 0 | 607 | 14 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | 0 | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 85 | 85 | 85 | 85 | 85 | 85 |
| Heavy Vehicles, \% | 0 | 6 | 0 | 0 | 2 | 0 |
| Mvmt Flow | 0 | 20 | 0 | 0 | 714 | 16 |


| Major/Minor |  | Minor2 | Major2 |  |
| :--- | ---: | ---: | ---: | :--- |
| Conflicting Flow All | - | 365 | - | 0 |
| $\quad$ Stage 1 | - | - | - | - |
| $\quad$ Stage 2 | - | - | - | - |
| Critical Hdwy | - | 7.02 | - | - |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | - | 3.36 | - | - |
| Pot Cap-1 Maneuver | 0 | 620 | - | - |
| $\quad$ Stage 1 | 0 | - | - | - |
| $\quad$ Stage 2 | 0 | - | - | - |
| Platoon blocked, \% |  |  | - | - |
| Mov Cap-1 Maneuver | - | 620 | - | - |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
|  |  |  |  |  |


| Approach | EB | SB |  |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, s | 11 |  | 0 |
| HCM LOS | B |  |  |
|  |  |  |  |
| Minor Lane/Major Mvmt | EBLn1 | SBT | SBR |
| Capacity (veh/h) | 620 | - | - |
| HCM Lane V/C Ratio | 0.032 | - | - |
| HCM Control Delay (s) | 11 | - | - |
| HCM Lane LOS | B | - | - |
| HCM 95th \%tile Q(veh) | 0.1 | - | - |

PMEX 23-101/23-102 - Apartment Development - Des Plaines 2:04 pm 06/05/2023 Existing Weekday Evening Peak Hơynchro 11 Report BSM,sa

| Intersection |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 0.5 |  |  |  |  |  |  |  |  |  |  |  |  |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |  |
| Lane Configurations |  | 4 |  |  | F |  |  | fir |  |  |  |  |  |
| Traffic Vol, veh/h | 4 | 7 | 0 | 0 | 10 | 2 | 5 | 629 | 21 | 0 | 0 | 0 |  |
| Future Vol, veh/h | 4 | 7 | 0 | 0 | 10 | 2 | 5 | 629 | 21 | 0 | 0 | 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 | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Veh in Median Storage, \# | \# | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |  |
| Grade, \% | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |  |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |  |
| Heavy Vehicles, \% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |  |
| Mvmt Flow | 4 | 8 | 0 | 0 | 11 | 2 | 6 | 699 | 23 | 0 | 0 | 0 |  |



PMEX 23-101/23-102 - Apartment Development - Des Plaines 2:04 pm 06/05/2023 Existing Weekday Evening Peak Ho@ynchro 11 Report BSM,sa



PMEX 23-101/23-102 - Apartment Development - Des Plaines 2:04 pm 06/05/2023 Existing Weekday Evening Peak Ho@ynchro 11 Report BSM,sa

| Intersection |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 1.1 |  |  |  |  |  |
| Movement E | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | $\uparrow$ | F |  | \% |  |
| Traffic Vol, veh/h | 29 | 234 | 318 | 13 | 15 | 21 |
| Future Vol, veh/h | 29 | 234 | 318 | 13 | 15 | 21 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control F | 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 | 91 | 91 | 91 | 91 | 91 | 91 |
| Heavy Vehicles, \% | 7 | 1 | 3 | 0 | 0 | 5 |
| Mvmt Flow | 32 | 257 | 349 | 14 | 16 | 23 |


| Major/Minor M | Major1 |  | Major2 |  | Minor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 363 | 0 | - | 0 | 677 | 356 |
| Stage 1 | - | - | - | - | 356 | - |
| Stage 2 | - | - | - | - | 321 | - |
| Critical Hdwy | 4.17 | - | - | - | 6.4 | 6.25 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - |
| Follow-up Hdwy | 2.263 | - | - | - | 3.5 | 3.345 |
| Pot Cap-1 Maneuver | 1168 | - | - | - | 421 | 681 |
| Stage 1 | - | - | - | - | 713 | - |
| Stage 2 | - | - | - | - | 740 | - |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1168 | - | - | - | 408 | 681 |
| Mov Cap-2 Maneuver | - | - | - | - | 408 | - |
| Stage 1 | - | - | - | - | 690 | - |
| Stage 2 | - | - | - | - | 740 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 0.9 |  | 0 |  | 12.3 |  |
| HCM LOS |  |  |  |  | B |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT WBR SBLn1 |  |  |
| Capacity (veh/h) |  | 1168 | - | - | - | 533 |
| HCM Lane V/C Ratio |  | 0.027 | - | - | - | 0.074 |
| HCM Control Delay (s) |  | 8.2 | 0 | - | - | 12.3 |
| HCM Lane LOS |  | A | A | - | - | B |
| HCM 95th \%tile Q(veh) |  | 0.1 | - | - | - | 0.2 |

PMEX 23-101/23-102 - Apartment Development - Des Plaines 2:04 pm 06/05/2023 Existing Weekday Evening Peak Ho@ynchro 11 Report BSM,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.5 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | F |  |  | $\uparrow$ |  |  |
| Traffic Vol, veh/h | 243 | 9 | 9 | 330 | 4 | 20 |
| Future Vol, veh/h | 243 | 9 | 9 | 330 | 4 | 20 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, \% | 2 | 0 | 0 | 3 | 0 | 0 |
| Mvmt Flow | 270 | 10 | 10 | 367 | 4 | 22 |



PMEX 23-101/23-102 - Apartment Development - Des Plaines 2:04 pm 06/05/2023 Existing Weekday Evening Peak Hơynchro 11 Report BSM,sa


| Major/Minor | Major1 |  | Major2 |  | Inor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 388 | 0 | - - | 0 | 677 | 384 |
| Stage 1 | - | - | - - | - | 384 | - |
| Stage 2 | - | - | - - | - | 293 | - |
| Critical Hdwy | 4.1 | - | - - | - | 6.4 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - - | - | 5.4 | - |
| Follow-up Hdwy | 2.2 | - | - - | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | 1182 | - | - - | - | 421 | 668 |
| Stage 1 | - | - | - - | - | 693 | - |
| Stage 2 | - | - | - - | - | 762 | - |
| Platoon blocked, \% |  | - | - - | - |  |  |
| Mov Cap-1 Maneuver | 1182 | - | - - | - | 419 | 668 |
| Mov Cap-2 Maneuver | - | - | - - | - | 419 | - |
| Stage 1 | - | - | - - | - | 690 | - |
| Stage 2 | - | - | - - | - | 762 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 0.1 |  | 0 |  | 12.6 |  |
| HCM LOS |  |  |  |  | B |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT WBR SBLn1 |  |  |
| Capacity (veh/h) |  | 1182 | , | - | - | 478 |
| HCM Lane V/C Ratio |  | 0.004 |  | - | - | 0.014 |
| HCM Control Delay (s) |  | 8.1 | 0 | - | - | 12.6 |
| HCM Lane LOS |  | A | A | - | - | B |
| HCM 95th \%tile Q(veh) |  | 0 |  | - | - | 0 |

PMEX 23-101/23-102 - Apartment Development - Des Plaines 2:04 pm 06/05/2023 Existing Weekday Evening Peak Ho@ynchro 11 Report BSM,sa

| Intersection |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 0.9 |  |  |  |  |  |  |  |  |  |  |  |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | ¢ |  |  | ¢ |  |  | ¢ |  |  | \$ |  |
| Traffic Vol, veh/h | 10 | 236 | 5 | 9 | 233 | 11 | 3 | 2 | 0 | 7 | 1 | 12 |
| Future Vol, veh/h | 10 | 236 | 5 | 9 | 233 | 11 | 3 | 2 | 0 | 7 | 1 | 12 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, \# | \# | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, \% | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| Heavy Vehicles, \% | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 11 | 271 | 6 | 10 | 268 | 13 | 3 | 2 | 0 | 8 | 1 | 14 |



PMEX 23-101/23-102 - Apartment Development - Des Plaines 2:04 pm 06/05/2023 Existing Weekday Evening Peak Ho@ynchro 11 Report BSM,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 4.1 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | $\uparrow$ | - |  |  |  |
| Traffic Vol, veh/h | 4 | 9 | 16 | 1 | 3 | 18 |
| Future Vol, veh/h | 4 | 9 | 16 | 1 | 3 | 18 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 80 | 80 | 80 | 80 | 80 | 80 |
| Heavy Vehicles, $\%$ | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 5 | 11 | 20 | 1 | 4 | 23 |


| Major/Minor | Major1 |  | Major2 |  | Minor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 21 | 0 | - - | 0 | 42 | 21 |
| Stage 1 | - | - | - - | - | 21 | - |
| Stage 2 | - | - | - - | - | 21 | - |
| Critical Hdwy | 4.1 | - | - - | - | 6.4 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - - | - | 5.4 | - |
| Follow-up Hdwy | 2.2 | - | - - | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | 1608 | - | - - | - | 974 | 1062 |
| Stage 1 | - | - | - - | - | 1007 | - |
| Stage 2 | - | - | - - | - | 1007 | - |
| Platoon blocked, \% |  | - | - - | - |  |  |
| Mov Cap-1 Maneuver | 1608 | - | - - | - | 971 | 1062 |
| Mov Cap-2 Maneuver | - | - | - - | - | 971 | - |
| Stage 1 | - | - | - - | - | 1004 | - |
| Stage 2 | - | - | - - | - | 1007 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 2.2 |  | 0 |  | 8.5 |  |
| HCM LOS |  |  |  |  | A |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT WBR SBLn1 |  |  |
| Capacity (veh/h) |  | 1608 | 相 | - | - | 1048 |
| HCM Lane V/C Ratio |  | 0.003 |  | - | - | 0.025 |
| HCM Control Delay (s) |  | 7.2 | 0 | - | - | 8.5 |
| HCM Lane LOS |  | A | A | - | - | A |
| HCM 95th \%tile Q(veh) |  | 0 |  | - |  | 0.1 |

PMEX 23-101/23-102 - Apartment Development - Des Plaines 2:04 pm 06/05/2023 Existing Weekday Evening Peak Ho@ynchro 11 Report BSM,sa

## Capacity Analysis Summary Sheets

 Year 2029 Total Projected Weekday Morning Peak Hour|  | 4 | $\rightarrow$ |  | $\checkmark$ |  |  |  | $\dagger$ |  | , | $\dagger$ | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | $\uparrow$ |  | ${ }^{7}$ | 4 |  |  |  |  | ${ }^{1}$ | 中\% |  |
| Traffic Volume (vph) | 0 | 246 | 38 | 53 | 165 | 0 | 0 | 0 | 0 | 106 | 513 | 85 |
| Future Volume (vph) | 0 | 246 | 38 | 53 | 165 | 0 | 0 | 0 | 0 | 106 | 513 | 85 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Storage Length (ft) | 0 |  | 0 | 25 |  | 0 | 0 |  | 0 | 0 |  | 0 |
| Storage Lanes | 0 |  | 0 | 1 |  | 0 | 0 |  | 0 | 1 |  | 0 |
| Taper Length (ft) | 25 |  |  | 25 |  |  | 25 |  |  | 25 |  |  |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 |
| Frt |  | 0.982 |  |  |  |  |  |  |  |  | 0.979 |  |
| Flt Protected |  |  |  | 0.950 |  |  |  |  |  | 0.950 |  |  |
| Satd. Flow (prot) | 0 | 1774 | 0 | 1719 | 1810 | 0 | 0 | 0 | 0 | 1752 | 3384 | 0 |
| Flt Permitted |  |  |  | 0.287 |  |  |  |  |  | 0.950 |  |  |
| Satd. Flow (perm) | 0 | 1774 | 0 | 519 | 1810 | 0 | 0 | 0 | 0 | 1752 | 3384 | 0 |
| Right Turn on Red |  |  | Yes |  |  | Yes |  |  | Yes |  |  | Yes |
| Satd. Flow (RTOR) |  | 7 |  |  |  |  |  |  |  |  | 26 |  |
| Link Speed (mph) |  | 30 |  |  | 30 |  |  | 30 |  |  | 30 |  |
| Link Distance (ft) |  | 192 |  |  | 276 |  |  | 397 |  |  | 453 |  |
| Travel Time (s) |  | 4.4 |  |  | 6.3 |  |  | 9.0 |  |  | 10.3 |  |
| 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 |
| Heavy Vehicles (\%) | 0\% | 6\% | 0\% | 5\% | 5\% | 0\% | 0\% | 0\% | 0\% | 3\% | 4\% | 7\% |
| Shared Lane Traffic (\%) |  |  |  |  |  |  |  |  |  |  |  |  |
| Lane Group Flow (vph) | 0 | 296 | 0 | 55 | 172 | 0 | 0 | 0 | 0 | 110 | 623 | 0 |
| Turn Type |  | NA |  | Perm | NA |  |  |  |  | Perm | NA |  |
| Protected Phases |  | 4 |  |  | 8 |  |  |  |  |  | 6 |  |
| Permitted Phases |  |  |  | 8 |  |  |  |  |  | 6 |  |  |
| Detector Phase |  | 4 |  | 8 | 8 |  |  |  |  | 6 | 6 |  |
| Switch Phase |  |  |  |  |  |  |  |  |  |  |  |  |
| Minimum Initial (s) |  | 1.0 |  | 10.0 | 10.0 |  |  |  |  | 10.0 | 10.0 |  |
| Minimum Split (s) |  | 22.5 |  | 22.5 | 22.5 |  |  |  |  | 22.5 | 22.5 |  |
| Total Split (s) |  | 45.0 |  | 45.0 | 45.0 |  |  |  |  | 75.0 | 75.0 |  |
| Total Split (\%) |  | 37.5\% |  | 37.5\% | 37.5\% |  |  |  |  | 62.5\% | 62.5\% |  |
| Yellow Time (s) |  | 4.5 |  | 4.5 | 4.5 |  |  |  |  | 4.5 | 4.5 |  |
| All-Red Time (s) |  | 1.5 |  | 1.5 | 1.5 |  |  |  |  | 1.5 | 1.5 |  |
| Lost Time Adjust (s) |  | 0.0 |  | 0.0 | 0.0 |  |  |  |  | 0.0 | 0.0 |  |
| Total Lost Time (s) |  | 6.0 |  | 6.0 | 6.0 |  |  |  |  | 6.0 | 6.0 |  |
| Lead/Lag |  |  |  |  |  |  |  |  |  |  |  |  |
| Lead-Lag Optimize? |  |  |  |  |  |  |  |  |  |  |  |  |
| Recall Mode |  | None |  | None | None |  |  |  |  | C-Min | C-Min |  |
| Act Effct Green (s) |  | 25.1 |  | 25.1 | 25.1 |  |  |  |  | 82.9 | 82.9 |  |
| Actuated g/C Ratio |  | 0.21 |  | 0.21 | 0.21 |  |  |  |  | 0.69 | 0.69 |  |
| v/c Ratio |  | 0.79 |  | 0.51 | 0.46 |  |  |  |  | 0.09 | 0.27 |  |
| Control Delay |  | 58.3 |  | 56.4 | 43.7 |  |  |  |  | 7.4 | 7.7 |  |
| Queue Delay |  | 0.0 |  | 0.0 | 0.0 |  |  |  |  | 0.0 | 0.0 |  |
| Total Delay |  | 58.3 |  | 56.4 | 43.7 |  |  |  |  | 7.4 | 7.7 |  |
| LOS |  | E |  | E | D |  |  |  |  | A | A |  |
| Approach Delay |  | 58.3 |  |  | 46.8 |  |  |  |  |  | 7.6 |  |
| Approach LOS |  | E |  |  | D |  |  |  |  |  | A |  |
| Queue Length 50th (ft) |  | 214 |  | 43 | 134 |  |  |  |  | 25 | 82 |  |
| Queue Length 95th (ft) |  | 290 |  | 87 | 200 |  |  |  |  | 56 | 135 |  |

AMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected WeekdaySylachirmyPlefakphotur bsm,sa


Splits and Phases: 1: Graceland Avenue \& Thacker Street


AMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected WeekdaySyloctirmu/Feakphrour bsm,sa

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |

AMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected WeekdaySyloahirmp1Peakptotur bsm,sa

|  |  |  |  |  |  |  | - | $\uparrow$ | $p$ |  | $\downarrow$ | $\downarrow$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Internal Link Dist (tt) |  | 139 |  |  | 992 |  |  | 439 |  |  | 415 |  |
| Turn Bay Length ( t ) | 25 |  |  |  |  |  |  |  |  |  |  |  |
| Base Capacity (vph) | 351 | 1128 |  |  | 776 | 700 |  | 2946 |  |  |  |  |
| Starvation Cap Reductn | 0 | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  |
| Spillback Cap Reductn | 0 | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  |
| Storage Cap Reductn | 0 | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  |
| Reduced v/c Ratio | 0.29 | 0.22 |  |  | 0.25 | 0.05 |  | 0.24 |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| Area Type: Other |  |  |  |  |  |  |  |  |  |  |  |  |
| Cycle Length: 120 |  |  |  |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length: 120 |  |  |  |  |  |  |  |  |  |  |  |  |
| Offset: 0 (0\%), Referenced to phase 2:NBTL, Start of Green |  |  |  |  |  |  |  |  |  |  |  |  |
| Natural Cycle: 60 |  |  |  |  |  |  |  |  |  |  |  |  |
| Control Type: Actuated-Coordinated |  |  |  |  |  |  |  |  |  |  |  |  |
| Maximum v/c Ratio: 0.66 |  |  |  |  |  |  |  |  |  |  |  |  |
| Intersection Signal Delay: 24.3 |  |  |  |  | Intersection LOS: C |  |  |  |  |  |  |  |
| Intersection Capacity Utilization 39.6\% |  |  |  |  | ICU Level of Service A |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

Splits and Phases: 2: Lee Street \& Thacker Street


AMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected WeekdaySynoatimu/Helatphotur bsm,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.5 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | i |  |  |  |  | $\mathbf{\uparrow 4}$ |
| Traffic Vol, veh/h | 30 | 0 | 0 | 0 | 13 | 612 |
| Future Vol, veh/h | 30 | 0 | 0 | 0 | 13 | 612 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, $\%$ | 13 | 0 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 32 | 0 | 0 | 0 | 14 | 651 |



[^10]| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |




[^11]| Intersection |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 0.4 |  |  |  |  |  |  |  |  |  |  |  |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | ${ }_{1} 1$ |  |  | $\uparrow$ |  |  | * $\uparrow$ |  |  |  |  |
| Traffic Vol, veh/h | 6 | 5 | 0 | 0 | 5 | 3 | 27 | 589 | 21 | 0 | 0 | 0 |
| Future Vol, veh/h | 6 | 5 | 0 | 0 | 5 | 3 | 27 | 589 | 21 | 0 | 0 | 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 | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, \# | \# | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, \% | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 98 | 98 | 98 | 98 | 98 | 98 | 98 | 98 | 98 | 98 | 98 | 98 |
| Heavy Vehicles, \% | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 6 | 5 | 0 | 0 | 5 | 3 | 28 | 601 | 21 | 0 | 0 | 0 |



[^12]| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.2 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | F |  | Mr |  |
| Traffic Vol, veh/h | 3 | 277 | 238 | 10 | 3 | 7 |
| Future Vol, veh/h | 3 | 277 | 238 | 10 | 3 | 7 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, \% | 0 | 3 | 8 | 0 | 0 | 0 |
| Mvmt Flow | 3 | 298 | 256 | 11 | 3 | 8 |


| Major/Minor | Major1 |  | Major2 |  | inor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 267 | 0 |  | 0 | 566 | 262 |
| Stage 1 | - | - | - - | - | 262 | - |
| Stage 2 | - | - | - - | - | 304 | - |
| Critical Hdwy | 4.1 | - | - - | - | 6.4 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - - | - | 5.4 | - |
| Follow-up Hdwy | 2.2 | - | - - | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | 1308 | - | - - | - | 489 | 782 |
| Stage 1 | - | - | - - | - | 786 | - |
| Stage 2 | - | - | - - | - | 753 | - |
| Platoon blocked, \% |  | - | - - | - |  |  |
| Mov Cap-1 Maneuver | 1308 | - | - - | - | 488 | 782 |
| Mov Cap-2 Maneuver | - | - | - - | - | 488 | - |
| Stage 1 | - | - | - - | - | 784 | - |
| Stage 2 | - | - | - - | - | 753 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 0.1 |  | 0 |  | 10.5 |  |
| HCM LOS |  |  |  |  | B |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT | WBR SBLn1 |  |
| Capacity (veh/h) |  | 1308 | - | - | - | 662 |
| HCM Lane V/C Ratio |  | 0.002 | 2 | - | - | 0.016 |
| HCM Control Delay (s) |  | 7.8 | 0 | - | - | 10.5 |
| HCM Lane LOS |  | A | A A | - | - | B |
| HCM 95th \%tile Q(veh) |  | 0 | 0 | - | - | 0.1 |

[^13]| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 1 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | $\uparrow$ |  | Mr |  |
| Traffic Vol, veh/h | 31 | 267 | 226 | 20 | 12 | 18 |
| Future Vol, veh/h | 31 | 267 | 226 | 20 | 12 | 18 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, $\%$ | 3 | 5 | 5 | 11 | 17 | 18 |
| Mvmt Flow | 33 | 284 | 240 | 21 | 13 | 19 |


| Major/Minor | Major1 |  | Major2 |  | Minor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 261 | 0 |  | 0 | 601 | 251 |
| Stage 1 | - | - | - - | - | 251 | - |
| Stage 2 | - | - | - - | - | 350 | - |
| Critical Hdwy | 4.13 | - | - - | - | 6.57 | 6.38 |
| Critical Hdwy Stg 1 | - | - | - - | - | 5.57 | - |
| Critical Hdwy Stg 2 | - | - | - - | - | 5.57 | - |
| Follow-up Hdwy | 2.227 | - | - - | - | 3.653 | 3.462 |
| Pot Cap-1 Maneuver | 1298 | - | - - | - | 440 | 750 |
| Stage 1 | - | - | - - | - | 757 | - |
| Stage 2 | - | - | - - | - | 681 | - |
| Platoon blocked, \% |  | - | - - | - |  |  |
| Mov Cap-1 Maneuver | 1298 | - | - - | - | 427 | 750 |
| Mov Cap-2 Maneuver | - | - | - - | - | 427 | - |
| Stage 1 | - | - | - - | - | 734 | - |
| Stage 2 | - | - | - - | - | 681 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 0.8 |  | 0 |  | 11.6 |  |
| HCM LOS |  |  |  |  | B |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT WBR SBLn1 |  |  |
| Capacity (veh/h) |  | 1298 | 8 | - | - | 576 |
| HCM Lane V/C Ratio |  | 0.025 | 5 | - | - | 0.055 |
| HCM Control Delay (s) |  | 7.8 | 0 | - | - | 11.6 |
| HCM Lane LOS |  | A | A A | - | - | B |
| HCM 95th \%tile Q(veh) |  | 0.1 | , | - | - | 0.2 |

[^14]| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.7 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | $\uparrow$ |  |  | $\uparrow$ | Mr |  |
| Traffic Vol, veh/h | 285 | 12 | 12 | 231 | 13 | 13 |
| Future Vol, veh/h | 285 | 12 | 12 | 231 | 13 | 13 |
| 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 | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, \% | 4 | 0 | 8 | 6 | 0 | 0 |
| Mvmt Flow | 317 | 13 | 13 | 257 | 14 | 14 |



[^15]HCM 6th TWSC
9: Thacker Street \& Alley(Graceland Court)

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.4 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | $\uparrow$ |  | Mr |  |
| Traffic Vol, veh/h | 8 | 278 | 238 | 7 | 4 | 9 |
| Future Vol, veh/h | 8 | 278 | 238 | 7 | 4 | 9 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 91 | 91 | 91 | 91 | 91 | 91 |
| Heavy Vehicles, $\%$ | 0 | 5 | 5 | 0 | 0 | 0 |
| Mvmt Flow | 9 | 305 | 262 | 8 | 4 | 10 |


| Major/Minor | Major1 | Major2 |  | Minor2 |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | :---: |
| Conflicting Flow All | 270 | 0 | - | 0 | 589 |  |
| $\quad$ Stage 1 | - | - | - | - | 266 |  |
| $\quad$ Stage 2 | - | - | - | - | 323 |  |
|  | - |  |  |  |  |  |
| Critical Hdwy | 4.1 | - | - | - | 6.4 |  |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 |  |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 |  |
| Follow-up Hdwy | 2.2 | - | - | - | 3.5 |  |
| Pot Cap-1 Maneuver | 1305 | - | - | - | 474 |  |
| $\quad$ Stage 1 | - | - | - | - | 783 |  |


| Stage 2 | - | - | - | - | 738 | - |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1305 | - | - | - | 470 | 778 |
| Mov Cap-2 Maneuver | - | - | - | - | 470 | - |
| Stage 1 | - | - | - | - | 777 | - |
| Stage 2 | - | - | - | - | 738 | - |


| Approach | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, s | 0.2 | 0 | 10.7 |
| HCM LOS |  |  | B |


| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR SBLn1 |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 1305 | - | - | -647 |  |
| HCM Lane V/C Ratio | 0.007 | - | - | -0.022 |  |
| HCM Control Delay (s) | 7.8 | 0 | - | -10.7 |  |
| HCM Lane LOS | A | A | - | - | B |
| HCM 95th \%tile Q(veh) | 0 | - | - | - | 0.1 |

[^16]| Intersection |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 2.7 |  |  |  |  |  |  |  |  |  |  |  |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | * |  |  | $\uparrow$ |  |  | $\uparrow$ |  |  | \& |  |
| Traffic Vol, veh/h | 62 | 280 | 10 | 2 | 175 | 50 | 9 | 22 | 12 | 6 | 11 | 40 |
| Future Vol, veh/h | 62 | 280 | 10 | 2 | 175 | 50 | 9 | 22 | 12 | 6 | 11 | 40 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, \# | \# | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, \% | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 |
| Heavy Vehicles, \% | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 68 | 308 | 11 | 2 | 192 | 55 | 10 | 24 | 13 | 7 | 12 | 44 |



[^17]


[^18]| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.2 |  |  |  |  |  |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations |  | $\mathbf{7}$ |  |  | 个t |  |
| Traffic Vol, veh/h | 0 | 11 | 0 | 0 | 607 | 4 |
| Future Vol, veh/h | 0 | 11 | 0 | 0 | 607 | 4 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | 0 | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, \% | 0 | 0 | 0 | 0 | 4 | 0 |
| Mvmt Flow | 0 | 12 | 0 | 0 | 639 | 4 |


| Major/Minor |  | Minor2 | Major2 |  |
| :--- | ---: | ---: | ---: | :--- |
| Conflicting Flow All | - | 322 | - | 0 |
| $\quad$ Stage 1 | - | - | - | - |
| $\quad$ Stage 2 | - | - | - | - |
| Critical Hdwy | - | 6.9 | - | - |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | - | 3.3 | - | - |
| Pot Cap-1 Maneuver | 0 | 680 | - | - |
| $\quad$ Stage 1 | 0 | - | - | - |
| $\quad$ Stage 2 | 0 | - | - | - |
| Platoon blocked, \% |  |  | - | - |
| Mov Cap-1 Maneuver | - | 680 | - | - |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
|  |  |  |  |  |


|  | EB | SB |  |
| :--- | ---: | ---: | ---: |
| Approach |  |  |  |
| HCM Control Delay, s | 10.4 |  | 0 |
|  | B |  |  |
| Minor Lane/Major Mvmt | EBLn1 | SBT | SBR |
| Capacity (veh/h) | 680 | - | - |
| HCM Lane V/C Ratio | 0.017 | - | - |
| HCM Control Delay (s) | 10.4 | - | - |
| HCM Lane LOS | B | - | - |
| HCM 95th \%tile Q(veh) | 0.1 | - | - |

[^19] bsm,sa

| Intersection |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh 0.5 |  |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | F |  |  | $\uparrow$ | * |  |
| Traffic Vol, veh/h | 275 | 2 | 4 | 243 | 5 | 16 |
| Future Vol, veh/h | 275 | 2 | 4 | 243 | 5 | 16 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control F | 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, \% | 5 | 0 | 0 | 5 | 0 | 0 |
| Mvmt Flow | 289 | 2 | 4 | 256 | 5 | 17 |


| Major/Minor M | Major1 |  | Major2 |  | Minor1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 0 | 0 | 291 | 0 | 554 | 290 |
| Stage 1 | - | - | - | - | 290 | - |
| Stage 2 | - | - | - | - | 264 | - |
| Critical Hdwy | - | - | 4.1 | - | 6.4 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - |
| Follow-up Hdwy | - | - | 2.2 | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | - | - | 1282 | - | 497 | 754 |
| Stage 1 | - | - | - | - | 764 | - |
| Stage 2 | - | - | - | - | 785 | - |
| Platoon blocked, \% | - | - |  | - |  |  |
| Mov Cap-1 Maneuver | - | - | 1282 | - | 495 | 754 |
| Mov Cap-2 Maneuver | - | - | - | - | 495 | - |
| Stage 1 | - | - | - | - | 764 | - |
| Stage 2 | - | - | - | - | 782 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | NB |  |
| HCM Control Delay, s | 0 |  | 0.1 |  | 10.6 |  |
| HCM LOS |  |  |  |  | B |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NBLn1 | EBT | EBR | R WBL | WBT |
| Capacity (veh/h) |  | 670 | - | - | 1282 | - |
| HCM Lane V/C Ratio |  | 0.033 | - | - | 0.003 | - |
| HCM Control Delay (s) |  | 10.6 | - | - | 7.8 | 0 |
| HCM Lane LOS |  | B | - | - | A | A |
| HCM 95th \%tile Q(veh) |  | 0.1 | - | - | 0 | - |

[^20] bsm,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.6 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | $\uparrow$ | - |  | Mr |  |
| Traffic Vol, veh/h | 1 | 13 | 41 | 1 | 0 | 3 |
| Future Vol, veh/h | 1 | 13 | 41 | 1 | 0 | 3 |
| 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 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 14 | 43 | 1 | 0 | 3 |



[^21] bsm,sa



[^22] bsm,sa

## Capacity Analysis Summary Sheets

 Year 2029 Total Projected Weekday Evening Peak Hour|  | $\rangle$ |  |  |  |  |  |  |  |  |  | $\downarrow$ | $\checkmark$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | $\uparrow$ |  | ${ }^{7}$ | ¢ |  |  |  |  | ${ }^{7}$ | 中 ${ }^{\text {a }}$ |  |
| Traffic Volume (vph) | 0 | 225 | 47 | 69 | 224 | 0 | 0 | 0 | 0 | 56 | 520 | 144 |
| Future Volume (vph) | 0 | 225 | 47 | 69 | 224 | 0 | 0 | 0 | 0 | 56 | 520 | 144 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Storage Length (t) | 0 |  | 0 | 25 |  | 0 | 0 |  | 0 | 0 |  | 0 |
| Storage Lanes | 0 |  | 0 | 1 |  | 0 | 0 |  | 0 | 1 |  | 0 |
| Taper Length (ft) | 25 |  |  | 25 |  |  | 25 |  |  | 25 |  |  |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 |
| Frt |  | 0.977 |  |  |  |  |  |  |  |  | 0.967 |  |
| Flt Protected |  |  |  | 0.950 |  |  |  |  |  | 0.950 |  |  |
| Satd. Flow (prot) | 0 | 1835 | 0 | 1770 | 1845 | 0 | 0 | 0 | 0 | 1805 | 3422 | 0 |
| Flt Permitted |  |  |  | 0.271 |  |  |  |  |  | 0.950 |  |  |
| Satd. Flow (perm) | 0 | 1835 | 0 | 505 | 1845 | 0 | 0 | 0 | 0 | 1805 | 3422 | 0 |
| Right Turn on Red |  |  | Yes |  |  | Yes |  |  | Yes |  |  | Yes |
| Satd. Flow (RTOR) |  | 9 |  |  |  |  |  |  |  |  | 55 |  |
| Link Speed (mph) |  | 30 |  |  | 30 |  |  | 30 |  |  | 30 |  |
| Link Distance (tt) |  | 192 |  |  | 276 |  |  | 397 |  |  | 453 |  |
| Travel Time (s) |  | 4.4 |  |  | 6.3 |  |  | 9.0 |  |  | 10.3 |  |
| Peak Hour Factor | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Heavy Vehicles (\%) | 0\% | 1\% | 2\% | 2\% | 3\% | 0\% | 0\% | 0\% | 0\% | 0\% | 2\% | 2\% |
| Shared Lane Traffic (\%) |  |  |  |  |  |  |  |  |  |  |  |  |
| Lane Group Flow (vph) | 0 | 302 | 0 | 77 | 249 | 0 | 0 | 0 | 0 | 62 | 738 | 0 |
| Turn Type |  | NA |  | Perm | NA |  |  |  |  | Perm | NA |  |
| Protected Phases |  | 4 |  |  | 8 |  |  |  |  |  | , |  |
| Permitted Phases |  |  |  | 8 |  |  |  |  |  | 6 |  |  |
| Detector Phase |  | 4 |  | 8 | 8 |  |  |  |  | 6 | 6 |  |
| Switch Phase |  |  |  |  |  |  |  |  |  |  |  |  |
| Minimum Initial (s) |  | 10.0 |  | 5.0 | 5.0 |  |  |  |  | 10.0 | 10.0 |  |
| Minimum Split (s) |  | 22.5 |  | 22.5 | 22.5 |  |  |  |  | 22.5 | 22.5 |  |
| Total Split (s) |  | 40.0 |  | 40.0 | 40.0 |  |  |  |  | 80.0 | 80.0 |  |
| Total Split (\%) |  | 33.3\% |  | 33.3\% | 33.3\% |  |  |  |  | 66.7\% | 66.7\% |  |
| Yellow Time (s) |  | 4.5 |  | 4.5 | 4.5 |  |  |  |  | 4.5 | 4.5 |  |
| All-Red Time (s) |  | 1.5 |  | 1.0 | 1.0 |  |  |  |  | 1.5 | 1.5 |  |
| Lost Time Adjust (s) |  | 0.0 |  | 0.0 | 0.0 |  |  |  |  | 0.0 | 0.0 |  |
| Total Lost Time (s) |  | 6.0 |  | 5.5 | 5.5 |  |  |  |  | 6.0 | 6.0 |  |
| Lead/Lag |  |  |  |  |  |  |  |  |  |  |  |  |
| Lead-Lag Optimize? |  |  |  |  |  |  |  |  |  |  |  |  |
| Recall Mode |  | None |  | None | None |  |  |  |  | C-Min | C-Min |  |
| Act Efft Green (s) |  | 24.5 |  | 25.0 | 25.0 |  |  |  |  | 83.5 | 83.5 |  |
| Actuated g/C Ratio |  | 0.20 |  | 0.21 | 0.21 |  |  |  |  | 0.70 | 0.70 |  |
| v/c Ratio |  | 0.79 |  | 0.73 | 0.65 |  |  |  |  | 0.05 | 0.31 |  |
| Control Delay |  | 58.6 |  | 80.0 | 50.0 |  |  |  |  | 7.1 | 7.4 |  |
| Queue Delay |  | 0.0 |  | 0.0 | 0.0 |  |  |  |  | 0.0 | 0.0 |  |
| Total Delay |  | 58.6 |  | 80.0 | 50.0 |  |  |  |  | 7.1 | 7.4 |  |
| LOS |  | E |  | E | D |  |  |  |  | A | A |  |
| Approach Delay |  | 58.6 |  |  | 57.1 |  |  |  |  |  | 7.4 |  |
| Approach LOS |  | E |  |  | E |  |  |  |  |  | A |  |
| Queue Length 50th (ft) |  | 217 |  | 62 | 197 |  |  |  |  | 14 | 96 |  |
| Queue Length 95th (tt) |  | 296 |  | \#116 | 278 |  |  |  |  | 34 | 154 |  |

PMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected Weekdayצyneetirmplelakptoour bsm,sa


Splits and Phases: 1: Graceland Avenue \& Thacker Street


PMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected WeekdayGyneemirmelfelaphtotur bsm,sa

|  | 4 | $\rightarrow$ | $\cdots$ | 7 |  |  | $4$ | $\dagger$ | 7 |  | $\dagger$ | $\downarrow$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ${ }^{7}$ | 4 |  |  | 4 | F' |  | *中t |  |  |  |  |
| Traffic Volume (vph) | 89 | 167 | 0 | 0 | 197 | 23 | 75 | 553 | 93 | 0 | 0 | 0 |
| Future Volume (vph) | 89 | 167 | 0 | 0 | 197 | 23 | 75 | 553 | 93 | 0 | 0 | 0 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Storage Length (ft) | 25 |  | 0 | 0 |  | 0 | 0 |  | 0 | 0 |  | 0 |
| Storage Lanes | 1 |  | 0 | 0 |  | 1 | 0 |  | 0 | 0 |  | 0 |
| Taper Length (ft) | 25 |  |  | 25 |  |  | 25 |  |  | 25 |  |  |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.91 | 0.91 | 0.91 | 1.00 | 1.00 | 1.00 |
| Frt |  |  |  |  |  | 0.850 |  | 0.981 |  |  |  |  |
| Flt Protected | 0.950 |  |  |  |  |  |  | 0.995 |  |  |  |  |
| Satd. Flow (prot) | 1752 | 1845 | 0 | 0 | 1900 | 1369 | 0 | 4964 | 0 | 0 | 0 | 0 |
| Flt Permitted | 0.337 |  |  |  |  |  |  | 0.995 |  |  |  |  |
| Satd. Flow (perm) | 622 | 1845 | 0 | 0 | 1900 | 1369 | 0 | 4964 | 0 | 0 | 0 | 0 |
| Right Turn on Red |  |  | Yes |  |  | Yes |  |  | Yes |  |  | Yes |
| Satd. Flow (RTOR) |  |  |  |  |  | 59 |  | 23 |  |  |  |  |
| Link Speed (mph) |  | 30 |  |  | 30 |  |  | 30 |  |  | 30 |  |
| Link Distance (ft) |  | 219 |  |  | 1072 |  |  | 519 |  |  | 495 |  |
| Travel Time (s) |  | 5.0 |  |  | 24.4 |  |  | 11.8 |  |  | 11.3 |  |
| Peak Hour Factor | 0.92 | 0.90 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Heavy Vehicles (\%) | 3\% | 3\% | 0\% | 0\% | 0\% | 18\% | 2\% | 2\% | 2\% | 0\% | 0\% | 0\% |
| Shared Lane Traffic (\%) |  |  |  |  |  |  |  |  |  |  |  |  |
| Lane Group Flow (vph) | 97 | 186 | 0 | 0 | 214 | 25 | 0 | 784 | 0 | 0 | 0 | 0 |
| Turn Type | pm+pt | NA |  |  | NA | Perm | Perm | NA |  |  |  |  |
| Protected Phases | 7 | 4 |  |  | 8 |  |  | 2 |  |  |  |  |
| Permitted Phases | 4 |  |  |  |  | 8 | 2 |  |  |  |  |  |
| Detector Phase | 7 | 4 |  |  | 8 | 8 | 2 | 2 |  |  |  |  |
| Switch Phase |  |  |  |  |  |  |  |  |  |  |  |  |
| Minimum Initial (s) | 3.0 | 8.0 |  |  | 8.0 | 8.0 | 15.0 | 15.0 |  |  |  |  |
| Minimum Split (s) | 9.5 | 22.5 |  |  | 22.5 | 22.5 | 22.5 | 22.5 |  |  |  |  |
| Total Split (s) | 13.0 | 78.0 |  |  | 65.0 | 65.0 | 42.0 | 42.0 |  |  |  |  |
| Total Split (\%) | 10.8\% | 65.0\% |  |  | 54.2\% | 54.2\% | 35.0\% | 35.0\% |  |  |  |  |
| Yellow Time (s) | 3.5 | 4.0 |  |  | 4.0 | 4.0 | 4.0 | 4.0 |  |  |  |  |
| All-Red Time (s) | 0.0 | 2.0 |  |  | 2.0 | 2.0 | 2.0 | 2.0 |  |  |  |  |
| Lost Time Adjust (s) | 0.0 | 0.0 |  |  | 0.0 | 0.0 |  | 0.0 |  |  |  |  |
| Total Lost Time (s) | 3.5 | 6.0 |  |  | 6.0 | 6.0 |  | 6.0 |  |  |  |  |
| Lead/Lag | Lead |  |  |  | Lag | Lag |  |  |  |  |  |  |
| Lead-Lag Optimize? | Yes |  |  |  | Yes | Yes |  |  |  |  |  |  |
| Recall Mode | None | None |  |  | None | None | C-Min | C-Min |  |  |  |  |
| Act Effct Green (s) | 36.4 | 33.9 |  |  | 20.2 | 20.2 |  | 74.1 |  |  |  |  |
| Actuated g/C Ratio | 0.30 | 0.28 |  |  | 0.17 | 0.17 |  | 0.62 |  |  |  |  |
| v/c Ratio | 0.34 | 0.36 |  |  | 0.67 | 0.09 |  | 0.25 |  |  |  |  |
| Control Delay | 33.4 | 35.5 |  |  | 56.6 | 0.9 |  | 11.0 |  |  |  |  |
| Queue Delay | 0.0 | 0.0 |  |  | 0.0 | 0.0 |  | 0.0 |  |  |  |  |
| Total Delay | 33.4 | 35.5 |  |  | 56.6 | 0.9 |  | 11.0 |  |  |  |  |
| LOS | C | D |  |  | E | A |  | B |  |  |  |  |
| Approach Delay |  | 34.8 |  |  | 50.7 |  |  | 11.0 |  |  |  |  |
| Approach LOS |  | C |  |  | D |  |  | B |  |  |  |  |
| Queue Length 50th (ft) | 74 | 144 |  |  | 157 | 0 |  | 93 |  |  |  |  |
| Queue Length 95th (ft) | 127 | 216 |  |  | 224 | 2 |  | 130 |  |  |  |  |

PMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected Weekday厅yNeethiryMPelakphotur bsm,sa

|  |  |  |  |  |  |  |  | $\uparrow$ | 7 |  | 1 | $\checkmark$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Internal Link Dist (tt) |  | 139 |  |  | 992 |  |  | 439 |  |  | 415 |  |
| Turn Bay Length (tt) | 25 |  |  |  |  |  |  |  |  |  |  |  |
| Base Capacity (vph) | 288 | 1107 |  |  | 934 | 703 |  | 3075 |  |  |  |  |
| Starvation Cap Reductn | 0 | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  |
| Spillback Cap Reductn | 0 | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  |
| Storage Cap Reductn | 0 | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  |
| Reduced v/c Ratio | 0.34 | 0.17 |  |  | 0.23 | 0.04 |  | 0.25 |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| Area Type: Other |  |  |  |  |  |  |  |  |  |  |  |  |
| Cycle Length: 120 |  |  |  |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length: 120 |  |  |  |  |  |  |  |  |  |  |  |  |
| Offset: 53 (44\%), Referenced to phase 2:NBTL, Start of Green |  |  |  |  |  |  |  |  |  |  |  |  |
| Natural Cycle: 55 |  |  |  |  |  |  |  |  |  |  |  |  |
| Control Type: Actuated-Coordinated |  |  |  |  |  |  |  |  |  |  |  |  |
| Maximum v/c Ratio: 0.67 |  |  |  |  |  |  |  |  |  |  |  |  |
| Intersection Signal Delay: 23.4 |  |  |  |  | Intersection LOS: C |  |  |  |  |  |  |  |
| Intersection Capacity Utilization 42.9\%Analysis Period (min) 15 |  |  |  |  | ICU Level of Service A |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

Splits and Phases: 2: Lee Street \& Thacker Street


PMPR 23-101/23-102 - Apartment Development - Des Plaines $1: 14$ pm 06/06/2023 Year 2029 Total Projected Weekday $\Psi$ methirag/Feakphotur bsm,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.6 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | t |  |  |  |  | $\uparrow \uparrow+$ |
| Traffic Vol, veh/h | 38 | 0 | 0 | 0 | 15 | 628 |
| Future Vol, veh/h | 38 | 0 | 0 | 0 | 15 | 628 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, \% | 0 | 0 | 0 | 0 | 15 | 1 |
| Mvmt Flow | 40 | 0 | 0 | 0 | 16 | 668 |



PMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected Weekday厅fveemirryIFelakphour bsm,sa


| Major/Minor |  | Minor2 | Major2 |  |
| :--- | ---: | ---: | ---: | :--- |
| Conflicting Flow All | - | 391 | - | 0 |
| $\quad$ Stage 1 | - | - | - | - |
| $\quad$ Stage 2 | - | - | - | - |
| Critical Hdwy | - | 7.02 | - | - |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | - | 3.36 | - | - |
| Pot Cap-1 Maneuver | 0 | 597 | - | - |
| $\quad$ Stage 1 | 0 | - | - | - |
| $\quad$ Stage 2 | 0 | - | - | - |
| Platoon blocked, \% |  |  | - | - |
| Mov Cap-1 Maneuver | - | 597 | - | - |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
|  |  |  |  |  |


|  | EB | SB |  |
| :--- | ---: | ---: | ---: |
| Approach |  |  |  |
| HCM Control Delay, s | 11.3 |  | 0 |
|  | B |  |  |
| Minor Lane/Major Mvmt | EBLn1 | SBT | SBR |
| Capacity (veh/h) | 597 | - | - |
| HCM Lane V/C Ratio | 0.035 | - | - |
| HCM Control Delay (s) | 11.3 | - | - |
| HCM Lane LOS | B | - | - |
| HCM 95th \%tile Q(veh) | 0.1 | - | - |

PMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected Weekday厅fveemirryIFelakphour bsm,sa



PMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected Weekday厅fveemirryIFelakphour bsm,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.4 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | $\uparrow$ |  | Mr |  |
| Traffic Vol, veh/h | 14 | 260 | 345 | 9 | 8 | 6 |
| Future Vol, veh/h | 14 | 260 | 345 | 9 | 8 | 6 |
| 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 | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, \% | 7 | 1 | 2 | 0 | 0 | 17 |
| Mvmt Flow | 15 | 280 | 371 | 10 | 9 | 6 |


| Major/Minor | Major1 |  | Major2 |  | inor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 381 | 0 | - | 0 | 686 | 376 |
| Stage 1 | - | - | - - | - | 376 | - |
| Stage 2 | - | - | - - | - | 310 | - |
| Critical Hdwy | 4.17 | - | - - | - | 6.4 | 6.37 |
| Critical Hdwy Stg 1 | - | - | - - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - - | - | 5.4 | - |
| Follow-up Hdwy | 2.263 | - | - - | - | 3.5 | 3.453 |
| Pot Cap-1 Maneuver | 1151 | - | - - | - | 416 | 638 |
| Stage 1 | - | - | - - | - | 699 | - |
| Stage 2 | - | - | - | - | 748 | - |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1151 | - | - - | - | 410 | 638 |
| Mov Cap-2 Maneuver | - | - | - - | - | 410 | - |
| Stage 1 | - | - | - | - | 689 | - |
| Stage 2 | - | - | - - | - | 748 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 0.4 |  | 0 |  | 12.7 |  |
| HCM LOS |  |  |  |  | B |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT | WBR SBLn1 |  |
| Capacity (veh/h) |  | 1151 | , | - | - | 484 |
| HCM Lane V/C Ratio |  | 0.013 |  | - | - | 0.031 |
| HCM Control Delay (s) |  | 8.2 | 0 | - | - | 12.7 |
| HCM Lane LOS |  | A | A | - | - | B |
| HCM 95th \%tile Q(veh) |  | 0 | - | - | - | 0.1 |

PMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected Weekday厅fveemirryIFelakphour bsm,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 1.1 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | $\neq$ | $\uparrow$ |  | Mr |  |
| Traffic Vol, veh/h | 30 | 252 | 339 | 13 | 15 | 22 |
| Future Vol, veh/h | 30 | 252 | 339 | 13 | 15 | 22 |
| 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 | 91 | 91 | 91 | 91 | 91 | 91 |
| Heavy Vehicles, $\%$ | 7 | 1 | 3 | 0 | 0 | 5 |
| Mvmt Flow | 33 | 277 | 373 | 14 | 16 | 24 |


| Major/Minor | Major1 |  | Major2 |  | inor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 387 | 0 | - | 0 | 723 | 380 |
| Stage 1 | - | - | - | - | 380 | - |
| Stage 2 | - | - | - | - | 343 | - |
| Critical Hdwy | 4.17 | - | - | - | 6.4 | 6.25 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - |
| Follow-up Hdwy | 2.263 | - | - - | - | 3.5 | 3.345 |
| Pot Cap-1 Maneuver | 1145 | - | - | - | 396 | 660 |
| Stage 1 | - | - | - | - | 696 | - |
| Stage 2 | - | - | - | - | 723 | - |
| Platoon blocked, \% |  | - | - - | - |  |  |
| Mov Cap-1 Maneuver | 1145 | - | - - | - | 383 | 660 |
| Mov Cap-2 Maneuver | - | - | - - | - | 383 | - |
| Stage 1 | - | - | - - | - | 672 | - |
| Stage 2 | - | - | - - | - | 723 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 0.9 |  | 0 |  | 12.7 |  |
| HCM LOS |  |  |  |  | B |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT | WBR SBLn1 |  |
| Capacity (veh/h) |  | 1145 | - | - | - | 510 |
| HCM Lane V/C Ratio |  | 0.029 | - | - | - | 0.08 |
| HCM Control Delay (s) |  | 8.2 | 0 | - | - | 12.7 |
| HCM Lane LOS |  | A | A | - | - | B |
| HCM 95th \%tile Q(veh) |  | 0.1 | A | - | - | 0.3 |

PMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected Weekday厅yveetirmalfeakphour bsm,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.5 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | F |  |  | - | Mr |  |
| Traffic Vol, veh/h | 261 | 9 | 9 | 351 | 4 | 21 |
| Future Vol, veh/h | 261 | 9 | 9 | 351 | 4 | 21 |
| 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 | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, \% | 2 | 0 | 0 | 3 | 0 | 0 |
| Mvmt Flow | 290 | 10 | 10 | 390 | 4 | 23 |


| Major/Minor M | Major1 |  | Major2 |  | Minor1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 0 | 0 | 300 | 0 | 705 | 295 |
| Stage 1 | - | - | - | - | 295 | - |
| Stage 2 | - | - | - | - | 410 | - |
| Critical Hdwy | - | - | 4.1 | - | 6.4 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - |
| Follow-up Hdwy | - | - | 2.2 | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | - | - | 1273 | - | 406 | 749 |
| Stage 1 | - | - | - | - | 760 | - |
| Stage 2 | - | - | - | - | 674 | - |
| Platoon blocked, \% | - | - |  | - |  |  |
| Mov Cap-1 Maneuver | - | - | 1273 | - | 402 | 749 |
| Mov Cap-2 Maneuver | - | - | - | - | 402 | - |
| Stage 1 | - | - | - | - | 760 | - |
| Stage 2 | - | - | - | - | 667 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | NB |  |
| HCM Control Delay, s | 0 |  | 0.2 |  | 10.7 |  |
| HCM LOS |  |  |  |  | B |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NBLn1 | EBT | EBR | R WBL | WBT |
| Capacity (veh/h) |  | 658 | - | - | 1273 | - |
| HCM Lane V/C Ratio |  | 0.042 | - | - | 0.008 | - |
| HCM Control Delay (s) |  | 10.7 | - | - | 7.8 | 0 |
| HCM Lane LOS |  | B | - | - | A | A |
| HCM 95th \%tile Q(veh) |  | 0.1 | - | - | 0 | - |

PMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected Weekday bsm,sa

HCM 6th TWSC
9: Thacker Street \& Alley(Graceland Court)

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.2 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | 1 |  | 4 |  |
| Traffic Vol, veh/h | 4 | 268 | 361 | 7 | 4 | 2 |
| Future Vol, veh/h | 4 | 268 | 361 | 7 | 4 | 2 |
| 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 | 87 | 87 | 87 | 87 | 87 | 87 |
| Heavy Vehicles, $\%$ | 0 | 1 | 2 | 0 | 0 | 0 |
| Mvmt Flow | 5 | 308 | 415 | 8 | 5 | 2 |


| Major/Minor | Major1 | Major2 |  | Minor2 |  |  |
| :--- | ---: | :--- | ---: | ---: | ---: | ---: |
| Conflicting Flow All | 423 | 0 | - | 0 | 737 | 419 |
| $\quad$ Stage 1 | - | - | - | - | 419 | - |
| Stage 2 | - | - | - | - | 318 | - |
| Critical Hdwy | 4.1 | - | - | - | 6.4 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - |
| Follow-up Hdwy | 2.2 | - | - | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | 1147 | - | - | - | 389 | 638 |
| $\quad$ Stage 1 | - | - | - | - | 668 | - |


| $\quad$ Stage 2 |  | - | - | - | 742 | - |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1147 | - | - | - | 387 | 638 |

Mov Cap-2 Maneuver - - - - 387
Stage 1 - - - 665
Stage 2 - - - 742

| Approach | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, s | 0.1 | 0 | 13.2 |
| HCM LOS |  | $B$ |  |


| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR SBLn1 |
| :--- | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 1147 | - | - | -445 |
| HCM Lane V/C Ratio | 0.004 | - | - | -0.015 |
| HCM Control Delay (s) | 8.2 | 0 | - | -13.2 |
| HCM Lane LOS | A | A | - | - |
| HCM 95th \%tile Q(veh) | 0 | - | - | - |
| H | 0 |  |  |  |

PMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected Weekday厅fveemirryIFelakphour bsm,sa

| Intersection |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 1.4 |  |  |  |  |  |  |  |  |  |  |  |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | * |  |  | $\uparrow$ |  |  | \& |  |  | \& |  |
| Traffic Vol, veh/h | 22 | 252 | 10 | 11 | 254 | 11 | 4 | 6 | 4 | 7 | 6 | 21 |
| Future Vol, veh/h | 22 | 252 | 10 | 11 | 254 | 11 | 4 | 6 | 4 | 7 | 6 | 21 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, \# | \# | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, \% | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| Heavy Vehicles, \% | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 25 | 290 | 11 | 13 | 292 | 13 | 5 | 7 | 5 | 8 | 7 | 24 |



PMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected Weekday bsm,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 4 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | 4 | $\uparrow$ |  | Mr |  |
| Traffic Vol, veh/h | 4 | 9 | 21 | 5 | 3 | 24 |
| Future Vol, veh/h | 4 | 9 | 21 | 5 | 3 | 24 |
| 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 | 80 | 80 | 80 | 80 | 80 | 80 |
| Heavy Vehicles, \% | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 5 | 11 | 26 | 6 | 4 | 30 |



PMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected Weekday厅fveemirralFeleakphour bsm,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.1 |  |  |  |  |  |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations |  | $\mathbf{7}$ |  |  | 个 |  |
| Traffic Vol, veh/h | 0 | 7 | 0 | 0 | 630 | 12 |
| Future Vol, veh/h | 0 | 7 | 0 | 0 | 630 | 12 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | 0 | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, \% | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 7 | 0 | 0 | 663 | 13 |



| Approach | EB | SB |
| :--- | ---: | :---: |
| HCM Control Delay, $s$ | 10.5 | 0 |

HCM LOS B

| Minor Lane/Major Mvmt | EBLn1 | SBT | SBR |
| :--- | ---: | ---: | :---: |
| Capacity (veh/h) | 664 | - | - |
| HCM Lane V/C Ratio | 0.011 | - | - |
| HCM Control Delay (s) | 10.5 | - | - |
| HCM Lane LOS | B | - | - |
| HCM 95th \%tile Q(veh) | 0 | - | - |

PMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected Weekday bsm,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.4 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | $\uparrow$ |  |  | - | F |  |
| Traffic Vol, veh/h | 264 | 5 | 12 | 351 | 3 | 9 |
| Future Vol, veh/h | 264 | 5 | 12 | 351 | 3 | 9 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, $\%$ | 1 | 0 | 0 | 2 | 0 | 0 |
| Mvmt Flow | 278 | 5 | 13 | 369 | 3 | 9 |



PMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected Weekday bsm,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.7 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | F |  | Mr |  |
| Traffic Vol, veh/h | 2 | 13 | 35 | 5 | 0 | 3 |
| Future Vol, veh/h | 2 | 13 | 35 | 5 | 0 | 3 |
| 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 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 2 | 14 | 37 | 5 | 0 | 3 |



PMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected Weekday bsm,sa

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 1 |  |  |  |  |  |
| Movement | NBL | NBT | SBT | SBR | SEL | SER |
| Lane Configurations |  | $\uparrow$ | F |  |  |  |
| Traffic Vol, veh/h | 0 | 5 | 24 | 7 | 0 | 5 |
| Future Vol, veh/h | 0 | 5 | 24 | 7 | 0 | 5 |
| 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 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 5 | 25 | 7 | 0 | 5 |



PMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected Weekday bsm,sa


[^0]:    ${ }^{1}$ Loopnet (2023). Accessed July 6, 2023 at https://www.loopnet.com/Listing/733-Lee-St-Des-Plaines-IL/3989538/

[^1]:    ${ }^{2} 2022$ compliance agreement between City and owner/petitioner available upon request to City staff.

[^2]:    ${ }^{1}$ Source: Home Depot and Lowes websites, obtained July 18, 2023.
    ${ }^{2}$ Source: Google Streetview, obtained July 21, 2023.

[^3]:    ${ }^{1}$ Historic Aerials, 1961 Aerial, historicaerials.com

[^4]:    *Note: Only applies to single-family detached dwellings that were lawfully constructed prior to August 17, 2020 and are located in a zoning district other than R-1.

    The R-1 and R-2 zoning districts would restrict the density of residential units at the property, limiting the development potential. As the name suggests, the R-1, Single Family Residential district limits the number of dwelling units to one dwelling unit per parcel. The R-2, Two-Family Residential district similarly limits the number of dwellings to two units per parcel. To allow for more than one or two residences on this 1.23 -acre property, the property would need to be subdivided. If the property were subdivided to meet the R-1 or R-2 bulk standards, it is unlikely the property could produce more than five residential units. The property is also too small to allow for a Planned Unit Development (PUD), which would allow for smaller lots but requires a minimum parcel size of 2 acres (Section 12-3-5.B.3).

[^5]:    ${ }^{2}$ Bohannon, R. W. (1997). Comfortable and maximum walking speeds of adults aged 20-79 years: reference values and determinants. Age and Ageing, page 17.

[^6]:    ${ }^{3}$ Des Plaines 2019 Comprehensive Plan, Page 32 https://www.desplaines.org/home/showpublisheddocument/162/637612522934400000
    ${ }^{4}$ U.S. Census Bureau (2018) Older People Projected to Outnumber Children for First Time in U.S. History, https://www.census.gov/newsroom/press-releases/2018/cb18-41-population-projections.html
    ${ }^{5}$ U.S. Department of Housing and Urban Development, Accessibility Requirements for Buildings https://www.hud.gov/program offices/fair housing equal opp/disabilities/accessibilityR
    ${ }^{6}$ U.S. Department of Housing and Urban Development, Fair Housing Act Design Manual, Page 10 https://www.huduser.gov/portal//Publications/PDF/FAIRHOUSING/fairfull.pdf

[^7]:    *Source: Integra Realty Resources

[^8]:    ${ }^{1}$ IDOT DISCLAIMER: The motor vehicle crash data referenced herein was provided by the Illinois Department of Transportation. The author is responsible for any data analyses and conclusions drawn.

[^9]:    Kenig Lindgren O'Hara Aboona, Inc.
    9575 W . Higgins Rd., Suite 400 Rosemont, Illinois, United States 60018
    (847)518-9990 sainkeshavarzi@kloainc.com

[^10]:    AMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected WeekdaySYInatiruy1Felakphour bsm,sa

[^11]:    AMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected WeekdaySynaotirm|FPeßephrour bsm,sa

[^12]:    AMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected WeekdaySylachirmyPlełakthur bsm,sa

[^13]:    AMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected WeekdaySylachirmyPlełakthour bsm,sa

[^14]:    AMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected WeekdaySylachirmyPlełakthour bsm,sa

[^15]:    AMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected WeekdaySylochiruy1Fełakthur bsm,sa

[^16]:    AMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected WeekdaySylachirmyPlełakthur bsm,sa

    Page 7

[^17]:    AMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected WeekdaySyloatiruy1Fełakphotur bsm,sa

[^18]:    AMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected WeekdaySynaotirgyPHealeprotur bsm,sa

[^19]:    AMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected WeekdaySYInatiruy1Felakphour

[^20]:    AMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected WeekdaySYInatiruy1Felakphour

[^21]:    AMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected WeekdaySYInatiruy1Felakphour

[^22]:    AMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected WeekdaySynaotirm|FPelakphotur

