

MEMORANDUM TO: Dan Olson  
Watermark Engineering

FROM: Andrew Bowen  
Consultant

Luay R. Aboona, PE, PTOE  
Principal

DATE: August 23, 2019

SUBJECT: Parking Study Addendum  
Proposed McDonalds Redevelopment  
Arlington Heights, Illinois

This memorandum is an addendum to the traffic and parking study report prepared by Kenig, Lindgren, O'Hara, Aboona, Inc. (KLOA, Inc.) dated June 11, 2019 for the proposed McDonald's remodel. The existing McDonald's restaurant is located at 45 E. Golf Road in Arlington Heights, Illinois. As part of the report, parking occupancy surveys were conducted at the restaurant on Friday, June 7<sup>th</sup> and Saturday, June 8<sup>th</sup>, 2019 in order to determine the existing parking demand. The surveys of the existing parking lot providing 37 spaces, of which two spaces are occupied by trash receptacles, were conducted in 15-minute intervals from 7:00 A.M. to 7:00 P.M.

Per the request of the Village of Arlington Heights, KLOA, Inc. conducted additional parking occupancy surveys on Saturday, Tuesday, Wednesday, and Thursday (August 18, 21, 22, and 23, 2019, respectively). The peak occupancy of the parking lot for each day, including the original survey dates, is shown in **Table 1**. The 15-minute interval occupancies are summarized in **Tables 2** through **4**.

As indicated in the report, the proposed remodel will require the reconfiguration of the parking lot to provide dual drive-through lanes. The resulting parking lot configuration will provide a total of 30 parking spaces. As can be seen in Table 1, the observed peak parking demand does not exceed 27 vehicles, which can be accommodated by the proposed 30-space parking lot.

Table 1

## DAILY PEAK PARKING OCCUPANCY

	<b>Friday, June 8</b>	<b>Saturday, June 9</b>	<b>Saturday, August 18th</b>	<b>Tuesday, August 21<sup>st</sup></b>	<b>Wednesday August 22<sup>nd</sup></b>	<b>Thursday, August 23rd</b>
Peak Occupancy Volume	25	23	21	25	27	21
Percent Peak Occupancy	71%	66%	60%	71%	77%	60%
Time of Peak Occupancy	1:45 P.M.	1:30 P.M	12:15 P.M.	1 :15 P.M.	12:15 P.M.	12:30 P.M.

Table 2  
PARKING OCCUPANCY SURVEY RESULTS – JUNE 8 AND 9

Time	Friday, June 8, 2019					Saturday, June 9, 2019				
	Unreserved	Mobile Order	Handicap	Chase Bank	Total	Unreserved	Mobile Order	Handicap	Chase Bank	Total
7:00 AM	14	0	0	0	14	8	0	1	0	9
7:15 AM	6	1	0	0	7	4	1	0	0	5
7:30 AM	7	0	0	0	7	4	0	0	0	4
7:45 AM	9	0	0	0	9	6	1	0	0	7
8:00 AM	8	0	0	0	8	13	0	0	0	13
8:15 AM	11	0	0	0	11	10	0	1	0	11
8:30 AM	12	2	0	1	15	12	0	1	0	13
8:45 AM	19	1	0	0	20	14	0	1	0	15
9:00 AM	16	0	0	0	16	10	0	1	0	11
9:15 AM	13	0	0	0	13	12	0	1	0	13
9:30 AM	20	0	0	0	20	12	0	1	0	13
9:45 AM	20	0	0	0	20	18	0	2	0	20
10:00 AM	17	0	1	0	18	16	1	1	0	18
10:15 AM	19	0	0	0	19	14	1	2	0	17
10:30 AM	16	0	0	0	16	11	0	2	0	13
10:45 AM	19	0	0	0	19	9	0	0	0	9
11:00 AM	16	1	1	0	18	18	0	0	0	18
11:15 AM	17	2	1	0	20	18	0	2	0	20
11:30 AM	15	2	2	0	19	16	0	2	0	18
11:45 AM	18	1	2	0	21	12	0	2	0	14
12:00 PM	18	1	2	0	21	18	0	2	0	20
12:15 PM	19	1	2	0	22	12	0	1	0	13
12:30 PM	19	2	2	0	23	8	0	1	0	9
12:45 PM	15	0	0	0	15	12	2	1	0	15
1:00 PM	16	0	1	0	17	11	1	0	0	12
1:15 PM	22	0	2	0	24	15	0	0	0	15
1:30 PM	22	1	1	0	24	21	2	0	0	23
1:45 PM	23	2	0	0	25	22	0	0	0	22
2:00 PM	20	1	0	1	22	20	1	0	0	21
2:15 PM	20	0	0	0	20	17	0	1	0	18
2:30 PM	19	0	0	0	19	17	0	0	0	17
2:45 PM	16	0	0	0	16	12	0	1	0	13
3:00 PM	14	3	0	0	17	11	0	1	0	12
3:15 PM	9	0	0	0	9	8	0	1	0	9
3:30 PM	9	0	0	0	9	9	1	1	0	11
3:45 PM	6	0	0	0	6	11	1	1	0	13
4:00 PM	6	0	0	0	6	12	1	0	0	13
4:15 PM	7	0	0	0	7	9	0	1	0	10
4:30 PM	7	0	0	0	7	10	0	0	0	10
4:45 PM	5	0	0	0	5	12	0	1	0	13
5:00 PM	10	0	0	0	10	12	1	1	0	14
5:15 PM	11	0	0	0	11	10	0	1	0	11
5:30 PM	10	0	0	0	10	10	1	1	0	12
5:45 PM	6	0	0	0	6	5	0	0	0	5
6:00 PM	12	1	1	0	14	6	0	0	0	6
6:15 PM	11	0	0	0	11	5	0	0	0	5
6:30 PM	8	1	0	0	9	6	0	0	0	6
6:45 PM	5	0	0	1	6	8	0	0	0	8
7:00 PM	3	0	0	0	3	4	1	0	0	5
Inventory	29	4	2	0	35	29	4	2	0	35

Table 3  
PARKING OCCUPANCY SURVEY RESULTS – AUGUST 17 AND 20

Time	Saturday, August 17, 2019					Tuesday August 20, 2019				
	Unreserved	Mobile Order	Handicap	Chase Bank	Total	Unreserved	Mobile Order	Handicap	Chase Bank	Total
7:00 AM	7	0	0	0	7	6	0	0	0	6
7:15 AM	2	0	0	0	2	7	0	0	0	7
7:30 AM	4	0	0	0	4	10	0	0	0	10
7:45 AM	5	0	0	0	5	14	0	0	0	14
8:00 AM	4	0	0	0	4	9	0	0	0	9
8:15 AM	9	0	0	0	9	9	0	0	0	9
8:30 AM	14	0	0	0	14	13	0	0	0	13
8:45 AM	11	1	0	0	12	11	0	0	0	11
9:00 AM	15	0	0	0	15	15	0	0	0	15
9:15 AM	11	0	0	0	11	17	1	1	0	19
9:30 AM	13	2	0	0	15	13	0	1	0	14
9:45 AM	13	0	0	0	13	15	0	1	0	16
10:00 AM	13	0	0	0	13	13	0	0	0	13
10:15 AM	10	0	0	0	10	15	0	0	0	15
10:30 AM	11	1	0	0	12	16	0	0	0	16
10:45 AM	15	1	1	0	17	15	0	0	0	15
11:00 AM	14	0	0	0	14	15	0	0	0	15
11:15 AM	13	0	0	0	13	19	0	1	0	20
11:30 AM	14	1	1	0	16	16	0	1	0	17
11:45 AM	11	0	1	0	12	18	1	0	0	19
12:00 PM	18	1	0	0	19	15	1	1	0	17
12:15 PM	19	2	0	0	21	20	1	1	0	22
12:30 PM	12	0	1	0	13	17	1	1	0	19
12:45 PM	14	2	0	0	16	16	0	1	0	17
1:00 PM	14	0	0	0	14	20	0	2	0	22
1:15 PM	12	0	0	0	12	20	3	2	0	25
1:30 PM	13	0	0	0	13	12	1	1	0	14
1:45 PM	15	0	0	0	15	10	0	0	0	10
2:00 PM	10	0	0	0	10	9	0	0	0	9
2:15 PM	8	2	0	0	10	9	0	1	0	10
2:30 PM	7	2	1	1	11	6	2	1	0	9
2:45 PM	9	0	1	0	10	8	1	1	0	10
3:00 PM	11	0	1	0	12	9	0	0	0	9
3:15 PM	13	0	0	0	13	1	0	1	0	2
3:30 PM	9	0	0	0	9	1	0	1	0	2
3:45 PM	7	0	0	0	7	11	0	1	0	12
4:00 PM	4	0	0	0	4	8	0	0	0	8
4:15 PM	8	0	0	0	8	13	1	1	0	15
4:30 PM	10	0	0	0	10	15	0	0	0	15
4:45 PM	8	1	0	0	9	10	1	0	0	11
5:00 PM	4	0	0	0	4	8	0	0	0	8
5:15 PM	7	0	0	0	7	9	0	0	0	9
5:30 PM	10	1	0	0	11	7	0	0	0	7
5:45 PM	12	1	0	0	13	6	0	0	0	6
6:00 PM	8	2	1	0	11	4	0	0	0	4
6:15 PM	7	0	0	0	7	6	0	0	0	6
6:30 PM	8	0	0	0	8	9	0	0	0	9
6:45 PM	14	2	0	0	16	6	0	0	0	6
7:00 PM	11	2	0	0	13	6	0	0	0	6
Inventory	29	4	2	0	35	29	4	2	0	35

Table 4  
PARKING OCCUPANCY SURVEY RESULTS – AUGUST 21 AND 22

Time	Wednesday August 21, 2019					Thursday August 22, 2019				
	Unreserved	Mobile Order	Handicap	Chase Bank	Total	Unreserved	Mobile Order	Handicap	Chase Bank	Total
7:00 AM	8	0	0	0	8	7	0	0	0	7
7:15 AM	1	0	0	0	1	6	0	0	0	6
7:30 AM	7	0	0	0	7	9	0	0	0	9
7:45 AM	11	0	0	0	11	7	0	0	0	7
8:00 AM	9	0	0	0	9	11	1	0	0	12
8:15 AM	12	0	0	0	12	10	1	0	0	11
8:30 AM	11	1	0	0	12	10	0	1	0	11
8:45 AM	7	2	0	0	9	10	2	2	0	14
9:00 AM	10	0	0	1	11	14	0	1	0	15
9:15 AM	13	0	1	0	14	14	0	0	0	14
9:30 AM	13	0	1	0	14	13	0	1	0	14
9:45 AM	10	0	1	0	11	14	0	2	0	16
10:00 AM	11	1	0	0	12	14	0	1	0	15
10:15 AM	11	0	0	0	11	13	0	1	0	14
10:30 AM	11	0	0	0	11	13	0	1	0	14
10:45 AM	9	1	1	0	11	10	0	1	0	11
11:00 AM	13	0	1	0	14	9	0	0	0	9
11:15 AM	13	0	0	0	13	8	0	1	0	9
11:30 AM	14	1	1	0	16	9	0	0	0	9
11:45 AM	18	2	0	0	20	9	0	0	0	9
12:00 PM	19	1	0	0	20	12	1	0	0	13
12:15 PM	26	1	0	0	27	14	1	0	0	15
12:30 PM	22	2	1	1	26	19	1	1	0	21
12:45 PM	23	1	2	0	26	15	3	1	0	19
1:00 PM	21	0	2	0	23	18	1	1	0	20
1:15 PM	20	0	2	0	22	15	0	0	0	15
1:30 PM	20	2	1	0	23	12	1	1	0	14
1:45 PM	21	3	1	0	25	9	0	2	0	11
2:00 PM	13	0	1	0	14	8	0	1	0	9
2:15 PM	9	0	0	0	9	7	0	0	0	7
2:30 PM	6	0	0	0	6	7	0	0	0	7
2:45 PM	8	0	0	0	8	11	1	1	0	13
3:00 PM	9	0	0	0	9	9	0	1	0	10
3:15 PM	8	0	0	0	8	8	0	1	0	9
3:30 PM	7	0	0	0	7	6	0	0	0	6
3:45 PM	8	0	0	0	8	7	0	0	0	7
4:00 PM	4	1	0	0	5	7	0	0	0	7
4:15 PM	7	0	0	0	7	8	1	0	0	9
4:30 PM	3	0	0	0	3	6	0	1	0	7
4:45 PM	5	0	0	0	5	7	0	1	0	8
5:00 PM	4	0	0	0	4	9	0	0	0	9
5:15 PM	8	0	0	0	8	9	1	0	0	10
5:30 PM	9	2	0	0	11	8	0	0	0	8
5:45 PM	7	0	0	0	7	8	0	0	0	8
6:00 PM	7	0	0	0	7	6	0	1	0	7
6:15 PM	7	0	0	0	7	5	0	1	0	6
6:30 PM	7	0	0	0	7	7	0	0	0	7
6:45 PM	6	1	0	0	7	6	0	0	0	6
7:00 PM	7	0	0	0	7	7	0	1	0	8
Inventory	29	4	2	0	35	29	4	2	0	35