

# 223 SUNSET AVENUE

Palm Beach, FL

## SHARED PARKING STUDY

PREPARED FOR:

223 Sunset Holdings, LLC  
223 Sunset Avenue  
Palm Beach, Florida 33480

JOB NO. 23-150

DATE: 11/29/2023

Bryan G. Kelley, Professional Engineer, State of Florida, License No. 74006

This item has been digitally signed and sealed by Bryan G. Kelley, P.E., on 11/29/2023.

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## 1.0 SITE DATA

The subject parcel is generally located on the north side of Sunset Avenue west of N. County Road in the Town of Palm Beach and contains approximately 0.6 acres. The Property Control Number (PCN) for the subject parcel is 50-43-43-22-31-000-1840.

The site is currently developed with a 19,313 S.F. of office and a 2,890 S.F. restaurant. The proposed site redevelopment consists of converting the second floor office to three residential units. Therefore, the total proposed development is to consist of a 9,094 S.F. office, a 2,890 S.F. restaurant, and 3 residential dwelling units. Site access will remain unchanged and is existing via a full access driveway connection to Sunset Avenue. For additional information concerning site location and layout, please refer to the Site Plan prepared by Bartholemew + Partners.

## 2.0 PURPOSE OF STUDY

The purpose of this study is to describe the results of the parking analyses for the proposed redevelopment project. Providing the appropriate level and location of parking is important to any successful development and community. While insufficient parking can result in negative impacts on properties, providing too much parking can also have a negative economic impact.

## 3.0 PARKING DATA

The proposed uses, sizes and code required parking for the proposed development may be summarized as follows:

<u>USE</u>	<u>SIZE</u>	<u>REQUIRED PARKING</u>
Residential	3 Dwelling Units (8 Spaces / 3 DU)	8 Spaces
Office	9,094 S.F. (1 Space / 250 SF)	36 Spaces
Restaurant	128 Seats (estimate) (1 Space / 3 Seats)	43 Spaces

### 3.0 PARKING DATA (CONT.)

The above calculations based on Town code requirements are provided for informational purposes only. In order to more accurately estimate parking demand for the mixed use project, the latest *ITE Parking Generation, 5<sup>th</sup> Edition* rates were utilized for the shared parking analysis. The principle behind shared parking reductions is that the pattern of activity for land uses in a mixed-use project are sufficiently different so that the corresponding required parking demands of each activity would not occur simultaneously. The parking analysis was based on the percent utilization rates from the Urban Land Institute's (ULI) *Shared Parking, 3<sup>rd</sup> Edition* publication as well as the ratio of customer parking to employee parking outlined in the ULI *Shared Parking, 3<sup>rd</sup> Edition* publication. As previously mentioned, there are a mix of uses currently proposed for the site. These uses have different peak hours of demand in addition to different hours of operation. As shown on the attached table, this report prepared a shared parking analysis for both the weekday and weekend demand from 6:00 A.M. to 11:00 P.M. The ULI *Shared Parking, 3<sup>rd</sup> Edition* publication allows for parking reductions based on the following factors:

- Time of Day
- Monthly
- Non-Captive
- Mode Adjustment

The time of day adjustment factors were taken directly from the ULI *Shared Parking, 3<sup>rd</sup> Edition* publication. However, the ULI *Shared Parking, 3<sup>rd</sup> Edition* publication does not produce standard rates for non-captive and mode adjustment factors. Local and site specific factors as well as professional judgment are to be utilized to determine these adjustment factors.

To be conservative, non-captive and modal adjustment factors were not used. Additionally, eight residential spaces are proposed to be reserved for the multifamily dwelling units. Therefore, no time of day reduction was applied to the resident spaces. However, the Town of Palm Beach Code does allow for a 15% reduction in parking requirements if on-street parking is available adjacent to the site. Since on-street parking is available on both sides of Sunset Avenue, this 15% reduction factor was applied.

The results of the analysis demonstrated that the proposed plan of development will have a maximum parking demand of 42 parking spaces during the weekday and 49 parking spaces during the weekend. The peak parking period occurs from 2:00 to 3:00 P.M. during the weekday and 8:00 to 9:00 P.M. during the weekend. It should be noted that during the majority of the day, the parking demand will be significantly less than peak parking demand of 49 parking spaces. The shared parking calculations based on the *ITE Parking Generation* publication and the Urban Land Institute's *Shared Parking* publication and consistent with standard industry practices are attached to this report.

## 4.0 CONCLUSION

As demonstrated in this study, the anticipated maximum parking demand for the proposed plan of development is 49 parking spaces. The proposed Site Plan can accommodate 47 parking spaces. Therefore, the site is expected to have a parking deficit of 2 spaces. It be noted the proposed redevelopment converting office space to 3 residential dwelling units results in a reduction in parking demand. The parking study completed by Kimley Horn & Associates, Inc. in 2019 showed a parking deficit of 5 spaces. The parking analysis considered parking rates from the ITE *Parking Generation*, 5<sup>th</sup> Edition and the Urban Land Institute's (ULI) *Shared Parking*, 3<sup>rd</sup> Edition publication.

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SHARED PARKING ANALYSIS  
 WEEKDAY ANALYSIS

Raw Parking Demand			
Use	Intensity (SF or Units)	ITE Rate (per 1000 SF)	Parking Required
Office	9,094	2.39	22
Quality Restaurant	2,890	10.52	30
Residential*	3	N/A	8
<b>TOTAL</b>			<b>60</b>

Shared Parking Demand - WEEKDAY

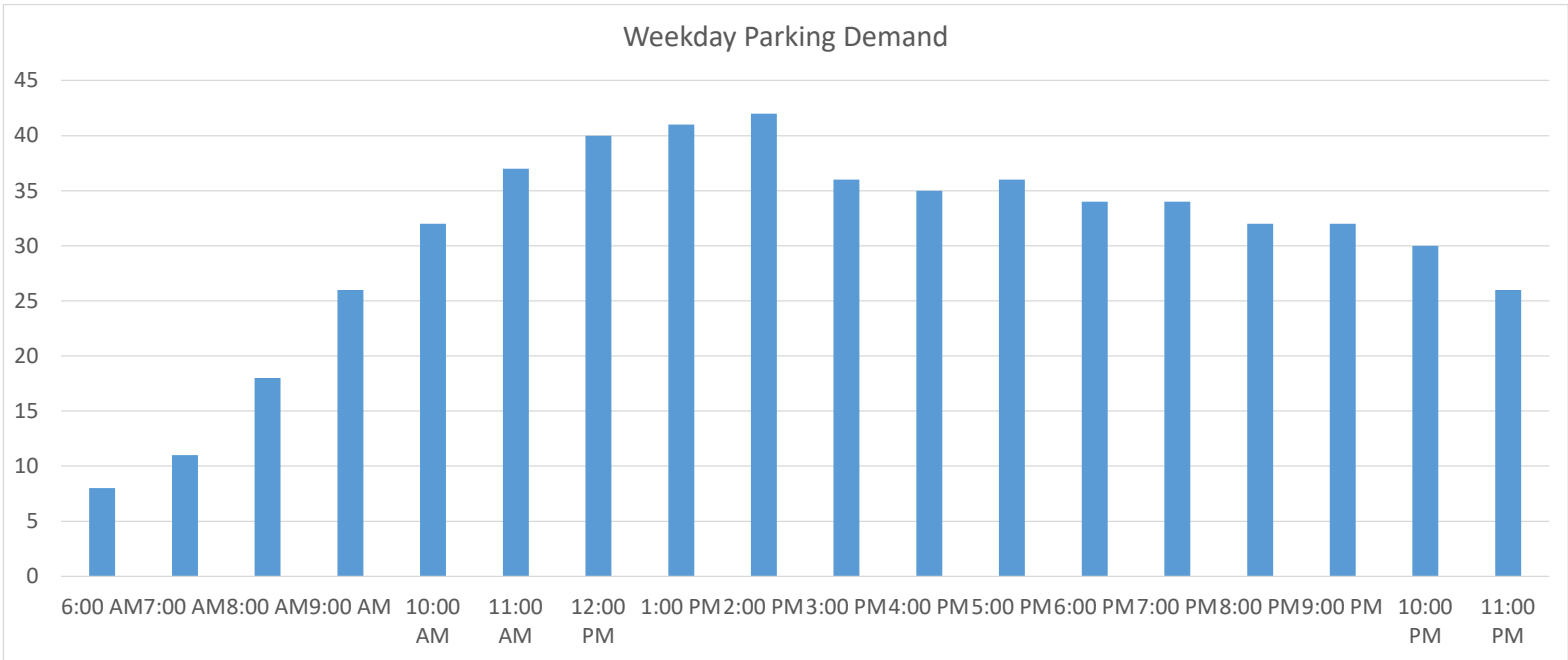
Land Use	Type	Rate	Percentage	Parking Demand	Town On-Street Parking Adjustment	6:00 AM		7:00 AM		8:00 AM		9:00 AM		10:00 AM		11:00 AM		12:00 PM		1:00 PM		2:00 PM	
						%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking
Office	Visitors	0.3	7.9%	2	85%	0%	0	1%	0	20%	0	60%	1	100%	2	45%	1	15%	0	45%	1	95%	2
	Employee	3.5	92.1%	20	85%	3%	1	15%	3	50%	9	90%	15	100%	17	100%	17	85%	14	85%	14	95%	16
Restaurant	Customer	13.25	85.5%	25	85%	0%	0	0%	0	0%	0	0%	0	15%	3	40%	9	75%	16	75%	16	65%	14
	Employee	2.25	14.5%	4	85%	0%	0	20%	1	50%	2	75%	3	90%	3	90%	3	90%	3	90%	3	90%	3
Residential	Resident	Reserved		8	85%	100%	7	100%	7	100%	7	100%	7	100%	7	100%	7	100%	7	100%	7	100%	7
			<b>TOTAL</b>	<b>59</b>			<b>8</b>		<b>11</b>		<b>18</b>		<b>26</b>		<b>32</b>		<b>37</b>		<b>40</b>		<b>41</b>		<b>42</b>

Land Use	Type	Rate	`	Parking Demand	Town On-Street Parking Adjustment	3:00 PM		4:00 PM		5:00 PM		6:00 PM		7:00 PM		8:00 PM		9:00 PM		10:00 PM		11:00 PM	
						%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking
Office	Visitors	0.3	7.9%	2	85%	45%	1	15%	0	10%	0	5%	0	2%	0	1%	0	0%	0	0%	0	0%	0
	Employee	3.5	92.1%	20	85%	95%	16	85%	14	60%	10	25%	4	15%	3	5%	1	3%	1	1%	0	0%	0
Restaurant	Customer	13.25	85.5%	26	85%	40%	9	50%	11	75%	16	95%	20	100%	21	100%	21	100%	21	95%	20	75%	16
	Employee	2.25	14.5%	4	85%	75%	3	75%	3	100%	3	100%	3	100%	3	100%	3	100%	3	100%	3	85%	3
Residential	Resident	Reserved		8	85%	100%	7	100%	7	100%	7	100%	7	100%	7	100%	7	100%	7	100%	7	100%	7
			<b>TOTAL</b>	<b>60</b>			<b>36</b>		<b>35</b>		<b>36</b>		<b>34</b>		<b>34</b>		<b>32</b>		<b>32</b>		<b>30</b>		<b>26</b>

\*Since 8 residential parking spaces are reserved, the residential parking demand was conservatively estimated at 8.

WEEKDAY MAX      42

Time of Day	Parking Demand
6:00 AM	8
7:00 AM	11
8:00 AM	18
9:00 AM	26
10:00 AM	32
11:00 AM	37
12:00 PM	40
1:00 PM	41
2:00 PM	42
3:00 PM	36
4:00 PM	35
5:00 PM	36
6:00 PM	34
7:00 PM	34
8:00 PM	32
9:00 PM	32
10:00 PM	30
11:00 PM	26



SHARED PARKING ANALYSIS

WEEKEND ANALYSIS

Raw Parking Demand			
Use	Intensity (SF or Units)	ITE Rate (per 1000 SF)	Parking Required
Office	9,094	0.28	3
Quality Restaurant	2,890	17.00	49
Residential*	3	N/A	8
TOTAL			60

Shared Parking Demand - WEEKEND																							
Land Use	Type	Rate	Percentage	Parking Demand	Town On-Street Parking Adjustment	6:00 AM		7:00 AM		8:00 AM		9:00 AM		10:00 AM		11:00 AM		12:00 PM		1:00 PM		2:00 PM	
						%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking
Office	Visitors	0.03	7.9%	0	85%	0%	0	20%	0	60%	0	80%	0	90%	0	100%	0	90%	0	80%	0	60%	0
	Employee	0.35	92.1%	3	85%	0%	0	20%	1	60%	2	80%	2	90%	2	100%	3	90%	2	80%	2	60%	2
Restaurant	Customer	15.25	85.9%	42	85%	0%	0	0%	0	0%	0	0%	0	0%	0	15%	5	50%	18	55%	20	45%	16
	Employee	2.5	14.1%	7	85%	0%	0	20%	1	30%	2	60%	4	75%	4	75%	4	75%	4	75%	4	75%	4
Residential	Resident	Reserved		8	85%	100%	7	100%	7	100%	7	100%	7	100%	7	100%	7	100%	7	100%	7	100%	7
			TOTAL	60			7		9		11		13		13		19		31		33		29

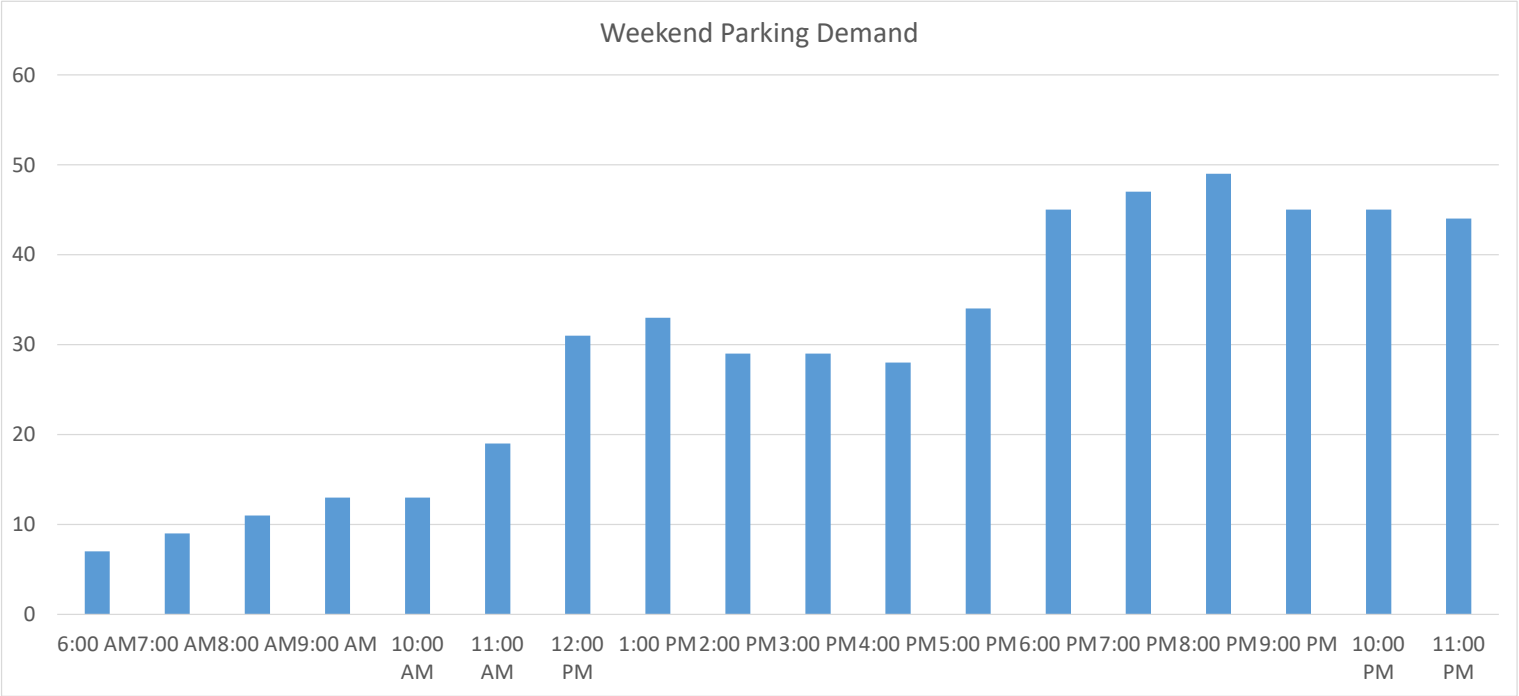
Land Use	Type	Rate	Percentage	Parking Demand	Town On-Street Parking Adjustment	3:00 PM		4:00 PM		5:00 PM		6:00 PM		7:00 PM		8:00 PM		9:00 PM		10:00 PM		11:00 PM	
						%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking	%	Adjusted Parking
Office	Visitors	0.03	7.9%	0	85%	40%	0	20%	0	10%	0	5%	0	0%	0	0%	0	0%	0	0%	0	0%	0
	Employee	0.35	92.1%	3	85%	95%	2	20%	1	10%	0	5%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Restaurant	Customer	15.25	85.9%	42	85%	45%	16	45%	16	60%	21	90%	32	95%	34	100%	36	90%	32	90%	32	90%	32
	Employee	2.5	14.1%	7	85%	75%	4	75%	4	100%	6	100%	6	100%	6	100%	6	100%	6	100%	6	85%	5
Residential	Resident	Reserved		8	85%	100%	7	100%	7	100%	7	100%	7	100%	7	100%	7	100%	7	100%	7	100%	7
			TOTAL	60		29	28		34		34		45		47		49		45		45		44

\*Since 8 residential parking spaces are reserved, the residential parking demand was conservatively estimated at 8.

WEEKEND MAX

49

Time of Day	Parking Demand
6:00 AM	7
7:00 AM	9
8:00 AM	11
9:00 AM	13
10:00 AM	13
11:00 AM	19
12:00 PM	31
1:00 PM	33
2:00 PM	29
3:00 PM	29
4:00 PM	28
5:00 PM	34
6:00 PM	45
7:00 PM	47
8:00 PM	49
9:00 PM	45
10:00 PM	45
11:00 PM	44



# General Office Building (710)

Peak Period Parking Demand vs: 1000 Sq. Ft. GFA

On a: Weekday (Monday - Friday)

Setting/Location: General Urban/Suburban

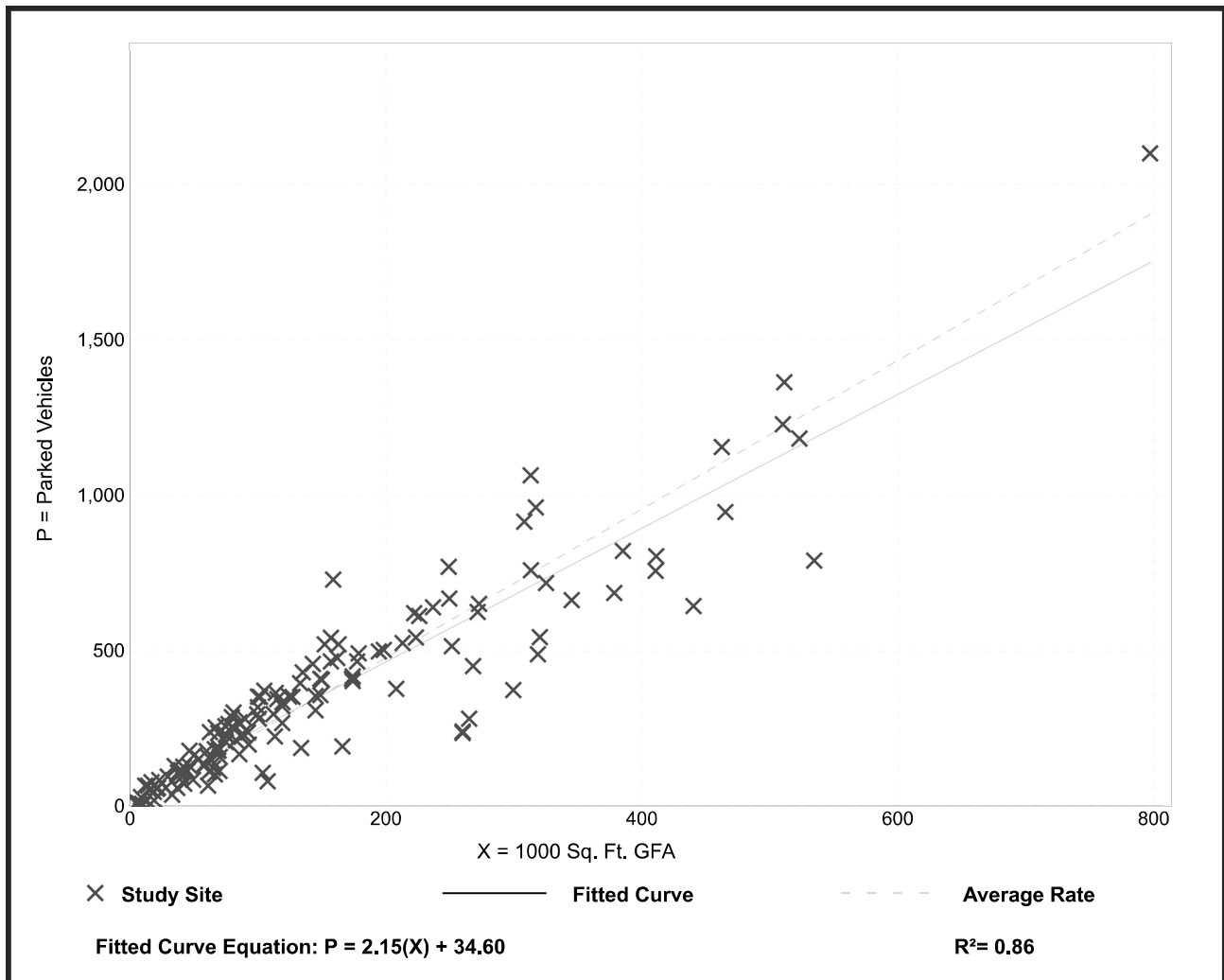
Number of Studies: 148

Avg. 1000 Sq. Ft. GFA: 145

## Peak Period Parking Demand per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	33rd / 85th Percentile	95% Confidence Interval	Standard Deviation (Coeff. of Variation)
2.39	0.50 - 5.58	2.30 / 3.30	2.28 - 2.50	0.69 (29%)

## Data Plot and Equation





# General Office Building (710)

Peak Period Parking Demand vs: 1000 Sq. Ft. GFA

On a: Saturday

Setting/Location: General Urban/Suburban

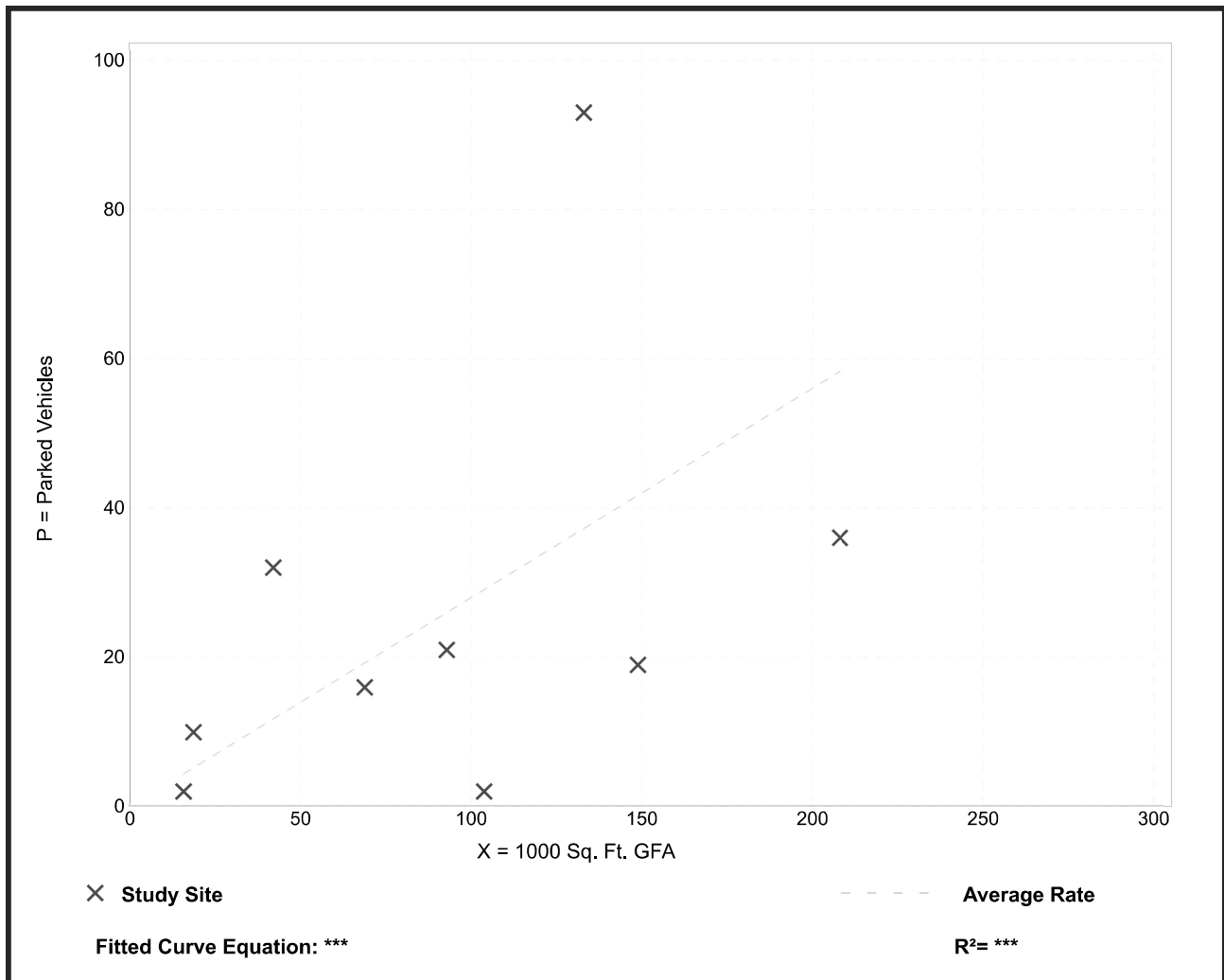
Number of Studies: 9

Avg. 1000 Sq. Ft. GFA: 92

## Peak Period Parking Demand per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	33rd / 85th Percentile	95% Confidence Interval	Standard Deviation (Coeff. of Variation)
0.28	0.02 - 0.76	0.14 / 0.73	***	0.25 (89%)

## Data Plot and Equation



# Quality Restaurant (931)

Peak Period Parking Demand vs: 1000 Sq. Ft. GFA

On a: Weekday (Monday - Thursday)

Setting/Location: General Urban/Suburban

Number of Studies: 3

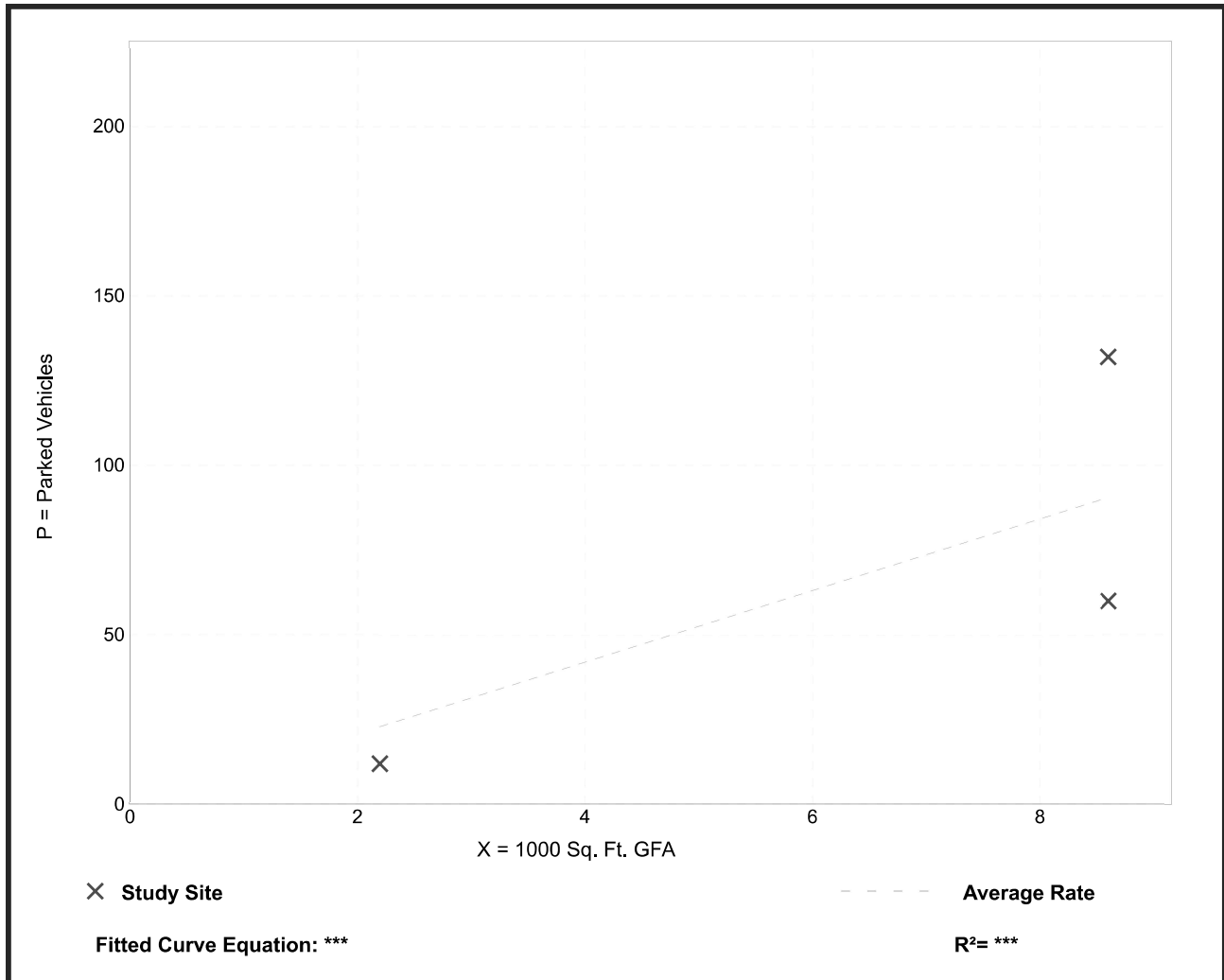
Avg. 1000 Sq. Ft. GFA: 6.4

## Peak Period Parking Demand per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	33rd / 85th Percentile	95% Confidence Interval	Standard Deviation (Coeff. of Variation)
10.52	5.46 - 15.35	5.95 / 15.35	***	5.31 (50%)

## Data Plot and Equation

**Caution – Small Sample Size**



# Quality Restaurant (931)

Peak Period Parking Demand vs: 1000 Sq. Ft. GFA

On a: Saturday

Setting/Location: General Urban/Suburban

Number of Studies: 4

Avg. 1000 Sq. Ft. GFA: 5.2

## Peak Period Parking Demand per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	33rd / 85th Percentile	95% Confidence Interval	Standard Deviation (Coeff. of Variation)
17.00	12.30 - 20.57	14.05 / 20.57	***	3.17 (19%)

## Data Plot and Equation

**Caution – Small Sample Size**

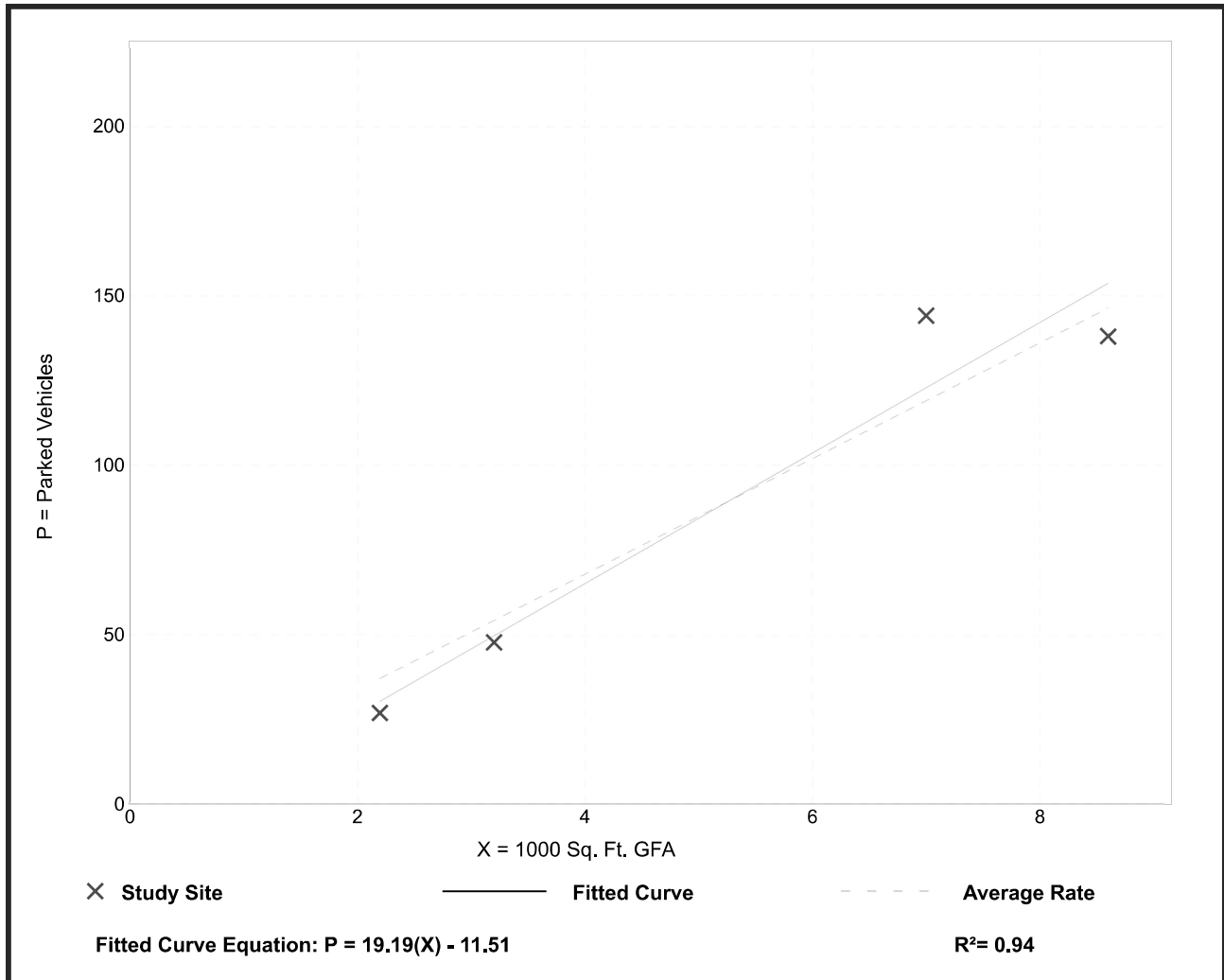


FIGURE 2-4 Weekday Time-of-Day Adjustments

Land use		6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	12 p.m.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	12 a.m.
Retail typical	Visitors	1%	5%	15%	35%	60%	75%	100%	100%	95%	85%	85%	85%	90%	80%	65%	45%	15%	5%	0%
December	Visitors	1%	5%	15%	30%	55%	75%	90%	100%	100%	95%	80%	85%	90%	90%	85%	50%	30%	10%	0%
Late December	Visitors	1%	5%	10%	20%	40%	65%	90%	100%	100%	100%	95%	85%	70%	55%	40%	25%	15%	5%	0%
All	Employees	10%	15%	25%	45%	75%	95%	100%	100%	100%	100%	100%	100%	100%	100%	90%	60%	40%	20%	0%
Supermarket/ grocery	Visitors	5%	20%	30%	50%	60%	67%	85%	90%	95%	97%	100%	100%	100%	85%	55%	35%	20%	5%	5%
	Employees	20%	30%	40%	80%	90%	100%	100%	100%	100%	100%	100%	100%	80%	50%	35%	20%	20%	20%	20%
Pharmacy	Visitors	5%	20%	30%	60%	60%	67%	85%	90%	95%	97%	100%	100%	100%	85%	55%	35%	20%	5%	5%
	Employees	20%	30%	40%	80%	90%	100%	100%	100%	100%	100%	100%	100%	80%	50%	35%	20%	20%	20%	20%
Discount stores/ superstores	Visitors	15%	35%	45%	65%	75%	85%	100%	100%	100%	100%	95%	85%	75%	60%	45%	30%	10%	5%	1%
	Employees	25%	45%	55%	75%	85%	100%	100%	100%	100%	100%	95%	85%	70%	55%	40%	20%	20%	20%	20%
Home improvement stores/garden	Visitors	15%	20%	35%	55%	85%	99%	100%	99%	98%	90%	85%	80%	75%	60%	50%	30%	10%	0%	0%
	Employees	25%	30%	45%	65%	95%	100%	100%	100%	100%	95%	90%	85%	70%	60%	40%	20%	0%	0%	0%
Food and beverage																				
Fine/casual dining	Visitors	0%	0%	0%	0%	15%	40%	75%	75%	65%	40%	50%	75%	95%	100%	100%	100%	95%	75%	25%
	Employees	0%	20%	50%	75%	90%	90%	90%	90%	90%	75%	75%	100%	100%	100%	100%	100%	100%	85%	35%
Family restaurant	Visitors	25%	50%	60%	75%	85%	90%	100%	90%	50%	45%	45%	75%	80%	80%	80%	60%	55%	75%	25%
	Employees	50%	75%	90%	90%	100%	100%	100%	100%	100%	75%	75%	95%	95%	95%	95%	80%	65%	65%	35%
Fast casual/ fast food/food court/food halls	Visitors	5%	10%	20%	30%	55%	85%	100%	100%	90%	60%	55%	60%	85%	80%	50%	30%	20%	10%	5%
	Employees	20%	20%	30%	40%	75%	100%	100%	100%	95%	70%	60%	70%	90%	90%	60%	40%	30%	20%	20%
Bar/lounge/ nightclub	Visitors	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	25%	50%	75%	100%	100%	75%	50%
	Employees	0%	0%	0%	5%	5%	5%	5%	10%	10%	10%	20%	45%	70%	100%	100%	100%	100%	90%	60%
Entertainment																				
Family entertainment	Visitors	0%	0%	0%	0%	45%	65%	85%	95%	100%	95%	90%	70%	60%	45%	0%	0%	0%	0%	0%
	Employees	0%	0%	5%	25%	75%	100%	100%	100%	100%	100%	100%	80%	70%	55%	10%	5%	5%	5%	5%
Active entertainment	Visitors	0%	0%	0%	0%	25%	65%	85%	90%	95%	95%	90%	95%	100%	95%	90%	65%	10%	0%	0%
	Employees	5%	5%	5%	25%	75%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	75%	10%	5%	5%
Adult active entertainment	Visitors	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	25%	50%	75%	100%	100%	100%	100%
	Employees	0%	0%	0%	5%	5%	5%	5%	10%	10%	10%	20%	45%	70%	100%	100%	100%	100%	100%	100%
All movies typical	Visitors	0%	0%	0%	0%	0%	0%	20%	45%	55%	55%	55%	60%	60%	80%	100%	100%	80%	65%	40%
Late December	Visitors	0%	0%	0%	0%	0%	0%	35%	60%	75%	80%	80%	80%	70%	80%	100%	100%	85%	70%	55%
All	Employees	0%	0%	0%	0%	0%	10%	50%	60%	60%	75%	75%	100%	100%	100%	100%	100%	70%	50%	50%
Live theater	Visitors	0%	0%	0%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	25%	100%	100%	0%	0%	0%
	Employees	0%	10%	10%	20%	20%	20%	30%	30%	30%	30%	30%	30%	100%	100%	100%	100%	30%	10%	5%
Outdoor amphitheater	Visitors	0%	0%	0%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	25%	100%	100%	0%	0%	0%
	Employees	0%	10%	10%	20%	20%	20%	30%	30%	30%	30%	30%	30%	100%	100%	100%	100%	30%	10%	5%
Public park/ destination open space	Visitors	1%	5%	10%	25%	50%	65%	85%	95%	100%	95%	90%	70%	90%	100%	100%	100%	80%	50%	10%
	Employees	5%	10%	25%	50%	75%	100%	100%	100%	100%	100%	100%	80%	100%	100%	100%	100%	100%	60%	20%
Museum/ aquarium	Visitors	0%	0%	0%	0%	45%	65%	85%	95%	100%	95%	90%	85%	60%	30%	10%	0%	0%	0%	0%
	Employees	5%	5%	5%	25%	75%	100%	100%	100%	100%	100%	100%	80%	75%	10%	5%	0%	0%	5%	5%
Arena	Visitors	0%	0%	0%	1%	1%	1%	1%	1%	1%	1%	1%	1%	10%	25%	100%	100%	85%	0%	0%
No matinee	Employees	0%	10%	10%	20%	20%	20%	30%	30%	30%	30%	30%	30%	100%	100%	100%	100%	30%	10%	5%

(continued on next page)



FIGURE 2-4 (continued)

Land use		6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	12 p.m.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	12 a.m.
<b>Entertainment (continued)</b>																				
Pro football stadium	Visitors	0%	0%	0%	1%	1%	1%	5%	5%	5%	5%	5%	5%	10%	50%	100%	100%	85%	25%	0%
8 p.m. start	Employees	0%	10%	10%	20%	20%	20%	30%	30%	30%	30%	30%	30%	100%	100%	100%	100%	100%	25%	10%
Pro baseball stadium	Visitors	0%	0%	0%	1%	1%	1%	5%	5%	5%	5%	5%	5%	10%	50%	100%	100%	85%	25%	0%
	Employees	0%	10%	10%	20%	20%	20%	30%	30%	30%	30%	30%	30%	100%	100%	100%	100%	100%	25%	10%
Health club	Visitors	70%	40%	40%	70%	70%	80%	60%	70%	70%	70%	80%	90%	100%	90%	80%	70%	35%	10%	0%
	Employees	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	100%	100%	75%	50%	20%	20%	20%	0%
Public library	Visitors	0%	0%	0%	100%	100%	98%	98%	78%	72%	65%	70%	79%	60%	50%	40%	0%	0%	0%	0%
	Employees	0%	10%	50%	100%	100%	100%	100%	100%	100%	100%	100%	90%	75%	50%	20%	10%	0%	0%	0%
Daycare center	Visitors	0%	2%	25%	75%	20%	20%	20%	20%	20%	20%	100%	50%	20%	5%	0%	0%	0%	0%	0%
	Employees	0%	50%	75%	90%	90%	90%	90%	90%	90%	100%	100%	100%	60%	40%	10%	0%	0%	0%	0%
Convention center	Visitors	0%	0%	50%	100%	100%	100%	100%	100%	100%	100%	100%	100%	50%	30%	30%	10%	0%	0%	0%
	Employees	5%	30%	33%	33%	100%	100%	100%	100%	100%	100%	90%	70%	40%	25%	20%	20%	5%	0%	0%
<b>Hotel and residential</b>																				
Hotel-business	Visitors	95%	90%	80%	70%	60%	60%	55%	55%	60%	60%	65%	70%	75%	75%	80%	85%	95%	100%	100%
Hotel-leisure	Visitors	95%	95%	90%	80%	70%	70%	65%	65%	70%	70%	75%	80%	85%	85%	90%	95%	95%	100%	100%
Employee	Employees	10%	30%	100%	100%	100%	100%	100%	100%	100%	100%	70%	70%	40%	20%	20%	20%	20%	10%	5%
Restaurant/lounge	Visitors	0%	10%	30%	10%	10%	5%	100%	100%	33%	10%	10%	30%	55%	60%	70%	67%	60%	40%	30%
Meeting/banquet (<100 sq ft/key)	Visitors	0%	0%	30%	60%	60%	60%	65%	65%	65%	65%	65%	100%	100%	100%	100%	100%	50%	0%	0%
Convention (>100 sq ft/key)	Visitors	0%	0%	50%	100%	100%	100%	100%	100%	100%	100%	100%	100%	50%	30%	30%	10%	0%	0%	0%
Employee	Employees	10%	10%	60%	100%	100%	100%	100%	100%	100%	100%	100%	100%	60%	40%	40%	20%	0%	0%	0%
Residential guest	Visitors	0%	10%	20%	20%	20%	20%	20%	20%	20%	20%	20%	40%	60%	100%	100%	100%	100%	80%	50%
Resident reserved	Residents	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Residential suburban	Residents	95%	80%	67%	55%	50%	45%	40%	40%	40%	40%	45%	50%	60%	70%	80%	85%	95%	97%	100%
Residential urban	Residents	95%	85%	75%	65%	60%	55%	50%	50%	50%	55%	60%	65%	70%	75%	80%	85%	95%	97%	100%
Active senior housing	Visitors & employees	95%	97%	100%	100%	99%	98%	98%	99%	98%	100%	99%	94%	96%	98%	97%	97%	97%	98%	98%
	Residents	95%	97%	100%	100%	99%	98%	98%	99%	98%	100%	99%	94%	96%	98%	97%	97%	97%	98%	98%
<b>Office</b>																				
Office	Visitors	0%	1%	20%	60%	100%	45%	15%	45%	95%	45%	15%	10%	5%	2%	1%	0%	0%	0%	0%
	Employees unreserved	3%	15%	50%	90%	100%	100%	85%	85%	95%	95%	85%	60%	25%	15%	5%	3%	1%	0%	0%
	Employees reserved	00%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Medical/dental office	Visitors	0%	0%	90%	90%	100%	100%	30%	90%	100%	100%	90%	80%	67%	30%	15%	0%	0%	0%	0%
	Employees	0%	20%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	67%	30%	15%	0%	0%	0%	0%
Bank (drive-in branch)	Visitors	0%	0%	50%	90%	100%	50%	50%	50%	70%	50%	80%	100%	0%	0%	0%	0%	0%	0%	0%
	Employees	0%	0%	60%	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%

Source: See chapter 4 discussions for each land use.

FIGURE 2-5 Weekend Time-of-Day Adjustments

Land use		6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	12 p.m.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	12 a.m.
Retail typical	Visitors	1%	5%	30%	50%	70%	90%	95%	100%	100%	95%	90%	80%	75%	70%	65%	50%	30%	10%	0%
December	Visitors	1%	5%	10%	35%	60%	85%	100%	100%	100%	100%	90%	80%	65%	60%	55%	50%	35%	15%	1%
Late December	Visitors	1%	5%	10%	20%	40%	60%	80%	95%	100%	100%	95%	85%	70%	60%	50%	30%	20%	10%	0%
All	Employees	10%	15%	40%	75%	85%	95%	100%	100%	100%	100%	100%	95%	85%	80%	75%	65%	45%	15%	0%
Supermarket/ grocery	Visitors	10%	25%	50%	75%	95%	100%	100%	100%	100%	100%	100%	90%	50%	33%	25%	15%	5%	4%	3%
	Employees	15%	35%	70%	85%	100%	100%	100%	100%	85%	75%	60%	55%	45%	40%	30%	20%	10%	10%	5%
Pharmacy	Visitors	8%	25%	50%	75%	95%	100%	100%	100%	100%	100%	100%	90%	50%	33%	25%	15%	5%	4%	3%
	Employees	15%	35%	70%	85%	100%	100%	100%	100%	85%	75%	60%	55%	45%	40%	30%	20%	10%	10%	5%
Discount stores/ superstores	Visitors	10%	15%	20%	30%	45%	65%	85%	95%	100%	100%	100%	95%	80%	60%	45%	30%	10%	5%	1%
	Employees	20%	25%	30%	40%	55%	75%	95%	100%	100%	100%	100%	100%	90%	70%	55%	40%	20%	15%	0%
Home improvement stores/garden	Visitors	15%	20%	35%	55%	60%	80%	95%	100%	95%	95%	80%	75%	75%	80%	90%	70%	10%	0%	9%
	Employees	25%	30%	45%	65%	70%	90%	100%	100%	100%	100%	90%	85%	85%	90%	100%	80%	20%	0%	0%
Food and beverage																				
Fine/casual dining	Visitors	0%	0%	0%	0%	0%	15%	50%	55%	45%	45%	45%	60%	90%	95%	100%	90%	90%	90%	50%
	Employees	0%	20%	30%	60%	75%	75%	75%	75%	75%	75%	75%	100%	100%	100%	100%	100%	100%	85%	50%
Family restaurant	Visitors	10%	25%	45%	70%	90%	90%	100%	85%	65%	40%	45%	60%	70%	70%	65%	30%	25%	15%	10%
	Employees	50%	75%	90%	90%	100%	100%	100%	100%	100%	75%	75%	95%	95%	95%	95%	80%	65%	65%	35%
Fast casual/ fast food/food court/food halls	Visitors	5%	10%	20%	30%	55%	85%	100%	100%	90%	60%	55%	60%	85%	80%	50%	30%	20%	10%	5%
	Employees	15%	20%	30%	40%	75%	100%	100%	100%	95%	70%	60%	70%	90%	90%	60%	40%	30%	20%	20%
Bar/lounge/ nightclub	Visitors	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	25%	50%	75%	100%	100%	100%	100%
	Employees	0%	0%	0%	5%	5%	5%	5%	10%	10%	10%	20%	45%	70%	100%	100%	100%	100%	100%	100%
Entertainment																				
Family entertainment	Visitors	0%	0%	0%	0%	25%	65%	85%	90%	95%	95%	90%	95%	100%	95%	90%	65%	10%	0%	0%
	Employees	5%	5%	5%	25%	75%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	75%	10%	5%	5%
Active entertainment	Visitors	0%	0%	0%	0%	25%	65%	85%	90%	95%	95%	90%	95%	100%	95%	90%	65%	10%	0%	0%
	Employees	5%	5%	5%	25%	75%	100%	100%	100%	100%	100%	90%	100%	100%	100%	100%	75%	10%	5%	5%
Adult active entertainment	Visitors	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	25%	50%	75%	100%	100%	100%	100%
	Employees	0%	0%	0%	5%	5%	5%	5%	10%	10%	10%	20%	45%	70%	100%	100%	100%	100%	100%	100%
All movies typical	Visitors	0%	0%	0%	0%	0%	0%	20%	45%	55%	55%	55%	60%	60%	80%	100%	100%	100%	80%	50%
Late December	Visitors	0%	0%	0%	0%	0%	0%	35%	60%	75%	80%	80%	80%	70%	80%	100%	100%	100%	85%	70%
All	Employees	0%	0%	0%	0%	0%	0%	50%	60%	60%	75%	75%	100%	100%	100%	100%	100%	100%	70%	50%
Live theater	Visitors	0%	0%	0%	1%	1%	1%	1%	17%	67%	67%	1%	1%	1%	25%	100%	100%	0%	0%	0%
	Employees	0%	10%	10%	20%	20%	20%	30%	100%	100%	100%	30%	30%	100%	100%	100%	100%	30%	10%	5%
Outdoor amphitheater	Visitors	0%	0%	0%	1%	1%	1%	1%	17%	67%	67%	1%	1%	1%	25%	100%	100%	0%	0%	0%
	Employees	0%	10%	10%	20%	20%	20%	30%	100%	100%	100%	30%	30%	100%	100%	100%	100%	30%	10%	5%
Public park/ destination open space	Visitors	0%	0%	0%	1%	30%	60%	75%	90%	97%	100%	98%	85%	70%	80%	100%	100%	95%	50%	10%
	Employees	0%	0%	10%	25%	75%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	90%	80%
Museum/ aquarium	Visitors	0%	0%	0%	0%	45%	65%	85%	95%	100%	95%	90%	85%	60%	30%	10%	0%	0%	0%	0%
	Employees	5%	5%	5%	25%	75%	100%	100%	100%	100%	100%	100%	80%	75%	10%	5%	0%	0%	5%	5%
Arena	Visitors	0%	0%	0%	1%	1%	1%	1%	25%	95%	95%	81%	1%	1%	25%	100%	100%	0%	0%	0%
No matinee	Employees	0%	10%	10%	20%	20%	20%	30%	100%	100%	100%	100%	30%	100%	100%	100%	100%	30%	10%	5%

(continued on next page)



FIGURE 2-5 (continued)

Land use		6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	12 p.m.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	12 a.m.
Entertainment (continued)																				
Pro football stadium 8 p.m. start	Visitors	0%	0%	1%	1%	5%	5%	50%	100%	100%	85%	25%	0%	0%	0%	0%	0%	0%	0%	0%
	Employees	0%	5%	10%	20%	30%	30%	100%	100%	100%	100%	25%	10%	5%	5%	0%	0%	0%	0%	0%
Pro baseball stadium	Visitors	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	25%	50%	90%	100%	100%	100%	0%	0%
	Employees	0%	0%	0%	5%	5%	5%	5%	5%	5%	5%	20%	75%	75%	100%	100%	100%	100%	100%	100%
Health club	Visitors	80%	45%	35%	50%	35%	50%	50%	30%	25%	30%	55%	100%	95%	60%	30%	10%	1%	1%	0%
	Employees	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	75%	100%	100%	75%	50%	20%	20%	20%	0%
Public library	Visitors	0%	0%	0%	0%	100%	90%	80%	65%	50%	35%	11%	5%	5%	0%	0%	0%	0%	0%	0%
	Employees	0%	0%	10%	50%	100%	100%	100%	100%	100%	50%	10%	10%	10%	10%	0%	0%	0%	0%	0%
Daycare center	Visitors	0%	2%	25%	75%	20%	20%	20%	20%	20%	20%	100%	50%	20%	5%	0%	0%	0%	0%	0%
	Employees	0%	50%	75%	90%	90%	90%	90%	90%	90%	100%	100%	100%	60%	40%	10%	0%	0%	0%	0%
Convention center	Visitors	0%	0%	50%	100%	100%	100%	100%	100%	100%	100%	100%	100%	50%	30%	30%	10%	0%	0%	0%
	Employees	5%	30%	33%	33%	100%	100%	100%	100%	100%	100%	90%	70%	40%	25%	20%	20%	5%	0%	0%
Hotel and residential																				
Hotel-business	Visitors	95%	90%	80%	70%	60%	60%	55%	55%	60%	60%	65%	70%	75%	75%	80%	85%	95%	100%	100%
Hotel-leisure	Visitors	95%	95%	90%	80%	70%	70%	65%	65%	70%	70%	75%	80%	85%	85%	90%	95%	95%	100%	100%
Employee	Employees	10%	30%	100%	100%	100%	100%	100%	100%	100%	100%	70%	70%	40%	20%	20%	20%	20%	10%	5%
Restaurant/ lounge	Visitors	0%	10%	30%	10%	10%	5%	100%	100%	33%	10%	10%	30%	55%	60%	70%	67%	60%	40%	30%
Meeting/banquet <100 sq ft/key	Visitors	0%	0%	30%	60%	60%	60%	65%	65%	65%	65%	65%	100%	100%	100%	100%	100%	50%	0%	0%
Convention >100 sq ft/key	Visitors	0%	0%	50%	100%	100%	100%	100%	100%	100%	100%	100%	100%	50%	30%	30%	10%	0%	0%	0%
Employee	Employees	10%	10%	60%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	60%	10%	10%
Residential guest	Visitors	0%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	40%	60%	100%	100%	100%	100%	80%	50%
Resident reserved	Residents	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Residential suburban	Residents	100%	95%	88%	80%	75%	70%	68%	65%	65%	68%	71%	74%	77%	80%	83%	86%	89%	92%	100%
Residential urban	Residents	90%	85%	80%	75%	70%	69%	68%	67%	66%	55%	60%	55%	50%	55%	65%	75%	85%	90%	100%
Active senior housing	Visitors	94%	98%	97%	95%	93%	94%	97%	99%	100%	100%	99%	98%	98%	98%	97%	95%	94%	98%	98%
	Employees	94%	98%	97%	95%	93%	94%	97%	99%	100%	100%	99%	98%	98%	98%	97%	95%	94%	98%	98%
Office																				
Office	Visitors	0%	20%	60%	80%	90%	100%	90%	80%	60%	40%	20%	10%	5%	0%	0%	0%	0%	0%	0%
	Employees unreserved	0%	20%	60%	80%	90%	100%	90%	80%	60%	40%	20%	10%	5%	0%	0%	0%	0%	0%	0%
	Employees reserved	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Medical/ dental office	Visitors	0%	0%	90%	90%	100%	100%	30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Employees	0%	20%	100%	100%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Bank (drive-in branch)	Visitors	0%	0%	25%	40%	75%	100%	90%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Employees	0%	0%	90%	100%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Source: See chapter 4 discussions for each land use.