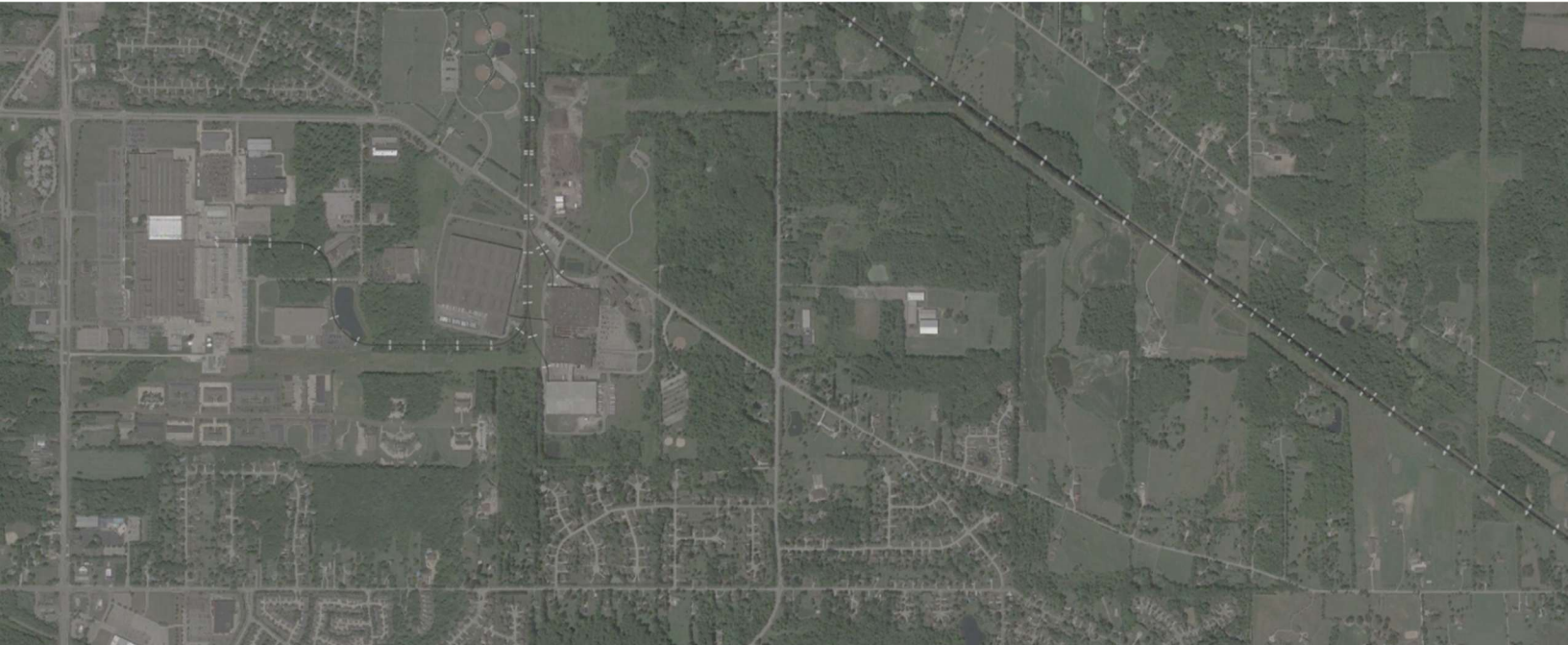




TRIP GENERATION AND PARKING ANALYSIS
CITY OF HUDSON, SUMMIT COUNTY, OHIO

PROPOSED OAK GROVE INCLUSIVE PLAYGROUND

PREPARED BY GPD GROUP FOR: THE CITY OF HUDSON
SEPTEMBER 2025



Trip Generation and Parking Analysis Oak Grove Inclusive Playground City of Hudson, Ohio

Purpose

The purpose of this report is to determine the trip generation for the proposed inclusive playground to be located at the existing Oak Grove Park in the City of Hudson, Ohio. The proposed site is to be located on the south side of the parking lot and be approximately 23,150 S.F. in size with eighty-five (85) parking spaces proposed (15 ADA spaces). See **Attachment A** for a preliminary site plan of the proposed Oak Grove Park Inclusive Playground.



Typically, trip generation data is obtained from the Institute of Transportation Engineers (ITE) *Trip Generation Manual, 11th Edition*. However, the manual does not contain a land use that would accurately represent the playground. Alternatively, the ITE *Parking Generation Manual* has a limited data set for a Public Park, with large targeted, multi-acre sites, not a playground as proposed.

In lieu of using one of these references, GPD performed parking surveys for three (3) inclusive playgrounds within a 40-mile radius proximity to the proposed Hudson playground, to calculate average and maximum parking lot occupancy rates. The sites were selected based on a range of values for the independent variable (square footage of playground), site geography, and setting.

The following sections of this report discuss the methodology of determining the number of parking spaces required for the proposed playground.

Data Collection

Data was collected at three (3) existing playgrounds within a 40-mile radius of the proposed playground. **Table 1** shows a summary of site characteristics for each site.

Table 1: Site Characteristics			
Address	Playground S.F.	Parking Supply	Parking Ratio (spaces / 1,000 S.F.)
Preston's H.O.P.E. Playground 26001 S Woodland Road Beachwood, OH 44112	64,000 S.F.	73 parking spaces (15 ADA spaces)	2.0
The Walnut Grove Playground 8800 Columbiana-Canfield Road Canfield, OH 44406	40,000 S.F.	100 parking spaces (6 ADA spaces)	3.0
S.O.A.R Playground 5027 Stow Road Stow, OH 44224	18,000 S.F.	35 parking spaces (4 ADA spaces)	2.0

Note: Preston's H.O.P.E. Playground shares a larger parking lot with the Mandel Jewish Community Center. The 73 spaces listed in the table are adjacent to the playground and designated for its users.

Parking counts were field collected at each of the above-mentioned study locations during the following time periods:

- Weekday Peak Hours (12:00 PM – 4:00 PM)
- Saturday Peak Hours (12:00 PM – 4:00 PM)

The counts focused on collecting the number of vehicles parked at the peak parking demand for each study location. See **Attachment B** for detailed parking demand survey forms for each of the three (3) study locations.

Table 2 summarizes the hourly occupied spaces for each location.

Table 2: Parking Generation Data Summary				
Location	Date	Period	Occupied Spaces	Parking Occupancy
Preston's H.O.P.E Playground	Wednesday 7/30/2025	12:00 – 1:00 PM	16 / 73	22%
		1:00 – 2:00 PM	13 / 73	18%
		2:00 – 3:00 PM	12 / 73	16%
		3:00 – 4:00 PM	7 / 73	10%
	Saturday 7/26/2025	12:00 – 1:00 PM	12 / 73	16%
		1:00 – 2:00 PM	14 / 73	19%
		2:00 – 3:00 PM	22 / 73	30%
		3:00 – 4:00 PM	18 / 73	25%
Walnut Grove Playground	Tuesday 8/5/2025	12:00 – 1:00 PM	46 / 100	46%
		1:00 – 2:00 PM	36 / 100	36%
		2:00 – 3:00 PM	23 / 100	23%
		3:00 – 4:00 PM	15 / 100	15%
	Saturday 7/26/2025	12:00 – 1:00 PM	12 / 100	12%
		1:00 – 2:00 PM	8 / 100	8%
		2:00 – 3:00 PM	6 / 100	6%
		3:00 – 4:00 PM	9 / 100	9%
S.O.A.R. Playground	Tuesday 7/29/2025	12:00 – 1:00 PM	0 / 35	0%
		1:00 – 2:00 PM	2 / 35	6%
		2:00 – 3:00 PM	2 / 35	6%
		3:00 – 4:00 PM	1 / 35	3%
	Saturday 8/2/2025	12:00 – 1:00 PM	13 / 35	37%
		1:00 – 2:00 PM	12 / 35	34%
		2:00 – 3:00 PM	15 / 35	43%
		3:00 – 4:00 PM	11 / 35	31%

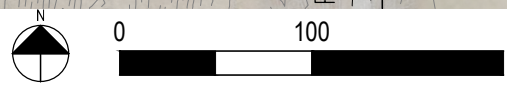
Summary & Conclusions

Based on **Table 2**, the weekday peak hours occupancy ranges from 3% to 46%, and the Saturday peak hours occupancy ranges from 6% to 43%. Using the maximum parking ratio from **Table 1**, which is 3.0 spaces per 1,000 S.F., it has been determined that the proposed Oak Grove Inclusive Playground requires seventy (70) parking spaces based on a total area of 23,150 S.F. This calculation is supported by the observed maximum occupancy of the three playgrounds that were studied. Therefore, providing eighty-five (85) parking spaces will be sufficient to meet the anticipated needs of this facility.

ATTACHMENT A
PRELIMINARY SITE PLAN



3004565
LITTLE TIKES INC.
2180 BARLOW RD



ATTACHMENT B
PARKING SURVEY FORMS

PRESTON'S H.O.P.E. PLAYGROUND



Parking Demand Survey Form

GPD Group

(fill in all highlighted cells - * are required data)

Land Use Code*

N/A

Name of Site Preston's H.O.P.E. Playground

Brief Description of Site

64,000 SF Inclusive Playground

Transit*

Yes

Area*

64,000 SF

TMP*

No

Parking Price*

\$

City

Beachwood

State

OH

Country

US

Daily Rate

\$

Hourly Rate

Site Size*

64,000

Units*

SF

Occupancy*

100

Land Use

Site Size

Units

Occupancy

Site Size

Units

Occupancy

Site Size

Units

Occupancy

Number of Parking Spaces Provided at Site

73

Highest Observed Parking Demand for the following hours of the day (hour beginning)*

Date	7/30/2025			Max	Parking		
Day	Wednesday			Parking	Occupancy		
12:00 PM	14	2 buses	16	16	22%		
12:15 PM	10	2 buses	12				
12:30 PM	11	2 buses	13				
12:45 PM	8	2 buses	10				
1:00 PM	11	2 buses	13	13	18%		
1:15 PM	6	2 buses	8				
1:30 PM	4	1 bus	6				
1:45 PM	7	1 bus	9				
2:00 PM	7	1 bus	9	12	16%		
2:15 PM	9	2 buses	11				
2:30 PM	9	2 buses	11				
2:45 PM	10	2 buses	12				
3:00 PM	7	0 buses	7	7	10%		
3:15 PM	6	0 buses	6				
3:30 PM	4	0 buses	4				
3:45 PM	6	0 buses	6				
4:00 PM	6	0 buses	6				
4:15 PM							
4:30 PM							
4:45 PM							
5:00 PM							
5:15 PM							
5:30 PM							
5:45 PM							

Person

Taylor Cline

Organization

GPD Group

Phone

(440) 339-8539

Fax

Email

tcline@gpdgroup.com

Notes

83° - Sunny



Parking Demand Survey Form

GPD Group

(fill in all highlighted cells - * are required data)

Land Use Code*

N/A

Name of Site Preston's H.O.P.E. Playground

Brief Description of Site

64,000 SF Inclusive Playground

Transit*

Yes

Area*

64,000 SF

TMP*

No

Parking Price*

\$

City

Beachwood

State

OH

Country

US

Daily Rate

\$

Hourly Rate

Site Size*

64,000

Units*

SF

Occupancy*

100

Land Use

Site Size

Units

Occupancy

Site Size

Units

Occupancy

Site Size

Units

Occupancy

Number of Parking Spaces Provided at Site

73

Highest Observed Parking Demand for the following hours of the day (hour beginning)*

Date	7/26/2025	Max	Parking				
Day	Saturday	Parking	Occupancy				
11:00 AM	5	8	11%				
11:15 AM	6						
11:30 AM	4						
11:45 AM	8						
12:00 PM	11	12	16%				
12:15 PM	12						
12:30 PM	7						
12:45 PM	11						
1:00 PM	13	14	19%				
1:15 PM	13						
1:30 PM	13						
1:45 PM	14						
2:00 PM	16	22	30%				
2:15 PM	18						
2:30 PM	20						
2:45 PM	22						
3:00 PM	18	18	25%				
3:15 PM	14						
3:30 PM	13						
3:45 PM	12						
4:00 PM	14						
4:15 PM							
4:30 PM							
4:45 PM							

Person

Taylor Cline

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Notes

79° - Mostly cloudy

WALNUT GROVE PLAYGROUND



Parking Demand Survey Form

GPD Group

(fill in all highlighted cells - * are required data)

Land Use Code*

N/A

Name of Site The Walnut Grove Playground

Brief Description of Site

40,000 SF Inclusive Playground

Transit*

No

Area*

40,000 SF

TMP*

No

Parking Price*

\$

City

Canfield

State

OH

Country

US

Daily Rate

\$

Hourly Rate

Site Size*

40,000

Units*

SF

Occupancy*

100

Land Use

Site Size

Units

Occupancy

Site Size

Units

Occupancy

Site Size

Units

Occupancy

Number of Parking Spaces Provided at Site

100

Highest Observed Parking Demand for the following hours of the day (hour beginning)*

Date	8/5/2025	Max	Parking				
Day	Wednesday	Parking	Occupancy				
12:00 PM	45	46	46%				
12:15 PM	44						
12:30 PM	46						
12:45 PM	42						
1:00 PM	36	36	36%				
1:15 PM	35						
1:30 PM	27						
1:45 PM	26						
2:00 PM	22	23	23%				
2:15 PM	23						
2:30 PM	14						
2:45 PM	14						
3:00 PM	11	15	15%				
3:15 PM	9						
3:30 PM	12						
3:45 PM	15						
4:00 PM		0	0%				
4:15 PM							
4:30 PM							
4:45 PM							
5:00 PM							
5:15 PM							
5:30 PM							
5:45 PM							

Person

Naser Tabanja

Organization

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ntabanja@gpdgroup.com

Notes

78° - Partly Cloudy



Parking Demand Survey Form

GPD Group

(fill in all highlighted cells - * are required data)

Land Use Code*

N/A

Name of Site The Walnut Grove Playground

Brief Description of Site

40,000 SF Inclusive Playground

Transit*

No

Area*

40,000 SF

TMP*

No

Parking Price*

\$

City

Canfield

State

OH

Country

US

Daily Rate

\$

Hourly Rate

Site Size*

40,000

Units*

SF

Occupancy*

100

Land Use

Site Size

Units

Occupancy

Site Size

Units

Occupancy

Site Size

Units

Occupancy

Number of Parking Spaces Provided at Site

100

Highest Observed Parking Demand for the following hours of the day (hour beginning)*

Date	7/26/2025	Max	Parking				
Day	Saturday	Parking	Occupancy				
12:00 PM	12	12	12%				
12:15 PM	11						
12:30 PM	11						
12:45 PM	10						
1:00 PM	8	8	8%				
1:15 PM	6						
1:30 PM	7						
1:45 PM	7						
2:00 PM	5	6	6%				
2:15 PM	4						
2:30 PM	5						
2:45 PM	6						
3:00 PM	8	9	9%				
3:15 PM	9						
3:30 PM	8						
3:45 PM	9						
4:00 PM							
4:15 PM							
4:30 PM							
4:45 PM							
5:00 PM							
5:15 PM							
5:30 PM							
5:45 PM							

Person

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Notes

82° - Mostly Cloudy

S.O.A.R. PLAYGROUND



Parking Demand Survey Form

GPD Group

(fill in all highlighted cells - * are required data)

Land Use Code*

N/A

Name of Site

S.O.A.R. Playground

Brief Description of Site

18,000 SF Inclusive Playground

Transit*

No

Area*

18,000 SF

TMP*

No

Parking Price*

\$

City

Stow

State

OH

Country

US

Daily Rate

\$

Hourly Rate

Site Size*

18,000

Units*

SF

Occupancy*

100

Land Use

Site Size

Units

Occupancy

Site Size

Units

Occupancy

Site Size

Units

Occupancy

Number of Parking Spaces Provided at Site

35

Highest Observed Parking Demand for the following hours of the day (hour beginning)*

Date	7/29/2025	Max	Parking				
Day	Tuesday	Parking	Occupancy				
12:00 PM	0	0	0%				
12:15 PM	0						
12:30 PM	0						
12:45 PM	0						
1:00 PM	1	2	6%				
1:15 PM	1						
1:30 PM	2						
1:45 PM	2						
2:00 PM	2	2	6%				
2:15 PM	0						
2:30 PM	1						
2:45 PM	1						
3:00 PM	1	1	3%				
3:15 PM	1						
3:30 PM	1						
3:45 PM	0						
4:00 PM							
4:15 PM							
4:30 PM							
4:45 PM							
5:00 PM							
5:15 PM							
5:30 PM							
5:45 PM							

Person

Matt Lessiter

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Notes

85° - Mostly Cloudy



Parking Demand Survey Form

GPD Group

(fill in all highlighted cells - * are required data)

Land Use Code*

N/A

Name of Site

S.O.A.R. Playground

Brief Description of Site

18,000 SF Inclusive Playground

Transit*

No

Area*

18,000 SF

TMP*

No

Parking Price*

\$

City

Stow

State

OH

Country

US

Daily Rate

\$

Hourly Rate

Site Size*

18,000

Units*

SF

Occupancy*

100

Land Use

Site Size

Occupancy

Site Size

Occupancy

Site Size

Occupancy

Number of Parking Spaces Provided at Site

35

Highest Observed Parking Demand for the following hours of the day (hour beginning)*

Date	8/2/2025	Max	Parking				
Day	Saturday	Parking	Occupancy				
12:00 PM	13	13	37%				
12:15 PM	11						
12:30 PM	10						
12:45 PM	9						
1:00 PM	8	12	34%				
1:15 PM	10						
1:30 PM	10						
1:45 PM	12						
2:00 PM	11	15	43%				
2:15 PM	10						
2:30 PM	15						
2:45 PM	15						
3:00 PM	11	11	31%				
3:15 PM	9						
3:30 PM	10						
3:45 PM	11						
4:00 PM							
4:15 PM							
4:30 PM							
4:45 PM							
5:00 PM							
5:15 PM							
5:30 PM							
5:45 PM							

Person

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Notes

72° - Mostly Cloudy