



TRAFFIC PLANNING AND DESIGN, INC.

WWW.TRAFFICPD.COM

MEMORANDUM

To: Jennifer Boyer, AICP
Community Development Director/Planner
100 Gettysburg Pike
Mechanicsburg, PA 17055

From: Jarred L. Neal, P.E.

Date: November 17, 2023

Re: **Genius Kids Child Development Center – Parking Demand Analysis**
Upper Allen Township, Cumberland County, PA
TPD# BLC.00127

INTRODUCTION

Traffic Planning and Design, Inc. (TPD) has completed a Parking Demand Analysis for the proposed Genius Kids Child Development Center to be located along Old Schoolhouse Lane in Upper Allen Township, Cumberland County, PA. The parking demand analysis was completed to determine if the number of parking spaces (27 spaces) at the proposed Upper Allen Township location will adequately accommodate the peak parking demand. The location of the proposed development is presented in **Figure 1**.

The parking demand analysis is based on parking data collected at an existing Genius Kids Child Development Center located at 7 Flowers Drive, in Silver Springs Township, Cumberland County. This location was selected due to its similar setting, size, and operations as the proposed Upper Allen Township location.

PARKING COUNTS

TPD conducted on-site (off-street) parking counts at the existing Genius Kids Child Development Center in Silver Springs Township, Cumberland County to determine the anticipated peak parking demand on the following day:

» Thursday, October 12, 2023 from 6:00 A.M. to 6:00 P.M.

The day/time period above was selected based on an analysis of the existing hours of operation which encompass the peak parking demand of the site. The parking counts were conducted at 15-minute intervals by counting the number of entering and exiting vehicles and assessing the new number of vehicles on-site each interval at the Silver Springs Township location.

The results of the existing parking counts are shown in **Tables 1**. The parking data sheets are attached to this analysis.

TABLE 1: SILVER SPRINGS GENIUS KIDS DEVELOPMENT CENTER PARKING COUNT

Interval (AM)	Occupied Spaces
	Thursday October 12, 2023
6:00 A.M.	0
6:15 A.M.	0
6:30 A.M.	1
6:45 A.M.	1
7:00 A.M.	3
7:15 A.M.	6
7:30 A.M.	6
7:45 A.M.	12
8:00 A.M.	14
8:15 A.M.	18
8:30 A.M.	20
8:45 A.M.	23
9:00 A.M.	17
9:15 A.M.	17
9:30 A.M.	17
9:45 A.M.	18
10:00 A.M.	19
10:15 A.M.	19
10:30 A.M.	19
10:45 A.M.	19
11:00 A.M.	20
11:15 A.M.	19
11:30 A.M.	18
11:45 A.M.	20

Interval (PM)	Occupied Spaces
	Thursday October 12, 2023
12:00 P.M.	21
12:15 P.M.	21
12:30 P.M.	16
12:45 P.M.	12
1:00 P.M.	15
1:15 P.M.	17
1:30 P.M.	18
1:45 P.M.	17
2:00 P.M.	17
2:15 P.M.	18
2:30 P.M.	19
2:45 P.M.	18
3:00 P.M.	18
3:15 P.M.	18
3:30 P.M.	19
3:45 P.M.	17
4:00 P.M.	14
4:15 P.M.	15
4:30 P.M.	15
4:45 P.M.	12
5:00 P.M.	13
5:15 P.M.	8
5:30 P.M.	2
5:45 P.M.	2

As shown **Table 1**, TPD observed **a maximum of 23 occupied spaces** during the peak hours of operation for the existing Genius Kids Child Development Center in Silver Springs Township.

The Genius Kids Child Development Center in Silver Springs Township is equivalent in setting, size, anticipated enrollment, and operations as the proposed Genius Kids Child Development Center in Upper Allen Township. Therefore; the parking demand observed at the Silver Springs Township location is anticipated to be equivalent to the anticipated parking demand at the proposed Upper Allen Township location.

CONCLUSIONS

- » Based on the results of the parking counts and analysis, the parking demand of the proposed Upper Allen Township Genius Kids Child Development Center is anticipated to have adequate parking supply during an average weekday, with 27 spaces and a **maximum parking demand of 23 spaces**.

If we can be of further service, please call at your convenience.

Sincerely,

TRAFFIC PLANNING AND DESIGN, INC.



Jarred L. Neal, P.E.

Senior Project Manager

Jneal@TrafficPD.com

Attachments: Figure 1 – Site Location
Site Plan
Silver Springs Township Genius Kids Child Development Center Parking Count



(1) 24 Hour ATR Western
Study Name Driveway (enter only)
Start Date 10/12/2023
Start Time 12:00 AM
Site Code
Counter: MIO
Set up by: KY

Channel Direction	Direction	Direction
	Southbound	Northbound (Illegal Exits)
12:00 AM	0	0
12:15 AM	0	0
12:30 AM	0	0
12:45 AM	0	0
1:00 AM	0	0
1:15 AM	0	0
1:30 AM	0	0
1:45 AM	0	0
2:00 AM	0	0
2:15 AM	0	0
2:30 AM	0	0
2:45 AM	0	0
3:00 AM	0	0
3:15 AM	0	0
3:30 AM	0	0
3:45 AM	0	0
4:00 AM	0	0
4:15 AM	0	0
4:30 AM	0	0
4:45 AM	0	0
5:00 AM	0	0
5:15 AM	0	0
5:30 AM	0	0
5:45 AM	0	0
6:00 AM	0	0
6:15 AM	0	0
6:30 AM	1	0
6:45 AM	0	0
7:00 AM	5	0

(1) 24 Hour ATR Western
Study Name Driveway (enter only)
Start Date 10/12/2023
Start Time 12:00 AM
Site Code
Counter: MIO
Set up by: KY

Channel Direction	Direction	Direction
	Southbound	Northbound (Illegal Exits)
7:15 AM	3	0
7:30 AM	6	0
7:45 AM	11	0
8:00 AM	8	1
8:15 AM	11	0
8:30 AM	13	1
8:45 AM	16	0
9:00 AM	3	0
9:15 AM	0	0
9:30 AM	0	0
9:45 AM	1	0
10:00 AM	2	0
10:15 AM	0	0
10:30 AM	0	0
10:45 AM	1	0
11:00 AM	1	0
11:15 AM	0	0
11:30 AM	0	0
11:45 AM	4	1
12:00 PM	5	0
12:15 PM	3	0
12:30 PM	0	0
12:45 PM	0	0
1:00 PM	3	0
1:15 PM	3	0
1:30 PM	3	0
1:45 PM	0	0
2:00 PM	0	0
2:15 PM	1	0
2:30 PM	2	0

(1) 24 Hour ATR Western
Study Name Driveway (enter only)
Start Date 10/12/2023
Start Time 12:00 AM
Site Code
Counter: MIO
Set up by: KY

Channel Direction	Direction	Direction
	Southbound	Northbound (Illegal Exits)
2:45 PM	2	0
3:00 PM	2	0
3:15 PM	3	0
3:30 PM	2	0
3:45 PM	1	0
4:00 PM	5	0
4:15 PM	6	0
4:30 PM	5	0
4:45 PM	5	0
5:00 PM	11	0
5:15 PM	8	0
5:30 PM	0	0
5:45 PM	0	0
6:00 PM	0	0
6:15 PM	0	0
6:30 PM	0	0
6:45 PM	0	0
7:00 PM	0	0
7:15 PM	0	0
7:30 PM	0	0
7:45 PM	0	0
8:00 PM	0	0
8:15 PM	0	0
8:30 PM	0	0
8:45 PM	0	0
9:00 PM	0	0
9:15 PM	0	0
9:30 PM	0	0
9:45 PM	0	0
10:00 PM	0	0

(1) 24 Hour ATR Western
Study Name Driveway (enter only)
Start Date 10/12/2023
Start Time 12:00 AM
Site Code
Counter: MIO
Set up by: KY

Channel
Direction

Direction	Direction
Southbound	Northbound (Illegal Exits)
10:15 PM	0
10:30 PM	0
10:45 PM	0
11:00 PM	0
11:15 PM	0
11:30 PM	0
11:45 PM	0

(2) 24 Hour ATR Eastern
Study Name Driveway (Exit Only)
Start Date 10/12/2023
Start Time 12:00 AM
Site Code
Counter: MIO
Set up by: KY

Channel Direction	Direction	Direction
	Southbound (Illegal Entry)	Northbound
12:00 AM	0	0
12:15 AM	0	0
12:30 AM	0	0
12:45 AM	0	0
1:00 AM	0	0
1:15 AM	0	0
1:30 AM	0	0
1:45 AM	0	0
2:00 AM	0	0
2:15 AM	0	0
2:30 AM	0	0
2:45 AM	0	0
3:00 AM	0	0
3:15 AM	0	0
3:30 AM	0	0
3:45 AM	0	0
4:00 AM	0	0
4:15 AM	0	0
4:30 AM	0	0
4:45 AM	0	0
5:00 AM	0	0
5:15 AM	0	0
5:30 AM	0	0
5:45 AM	0	0
6:00 AM	0	0
6:15 AM	0	0
6:30 AM	0	0
6:45 AM	0	0
7:00 AM	0	3
7:15 AM	1	1

(2) 24 Hour ATR Eastern
Study Name Driveway (Exit Only)
Start Date 10/12/2023
Start Time 12:00 AM
Site Code
Counter: MIO
Set up by: KY

Channel Direction	Direction	Direction
	Southbound (Illegal Entry)	Northbound
7:30 AM	0	6
7:45 AM	0	5
8:00 AM	1	6
8:15 AM	0	7
8:30 AM	0	10
8:45 AM	0	13
9:00 AM	0	9
9:15 AM	0	0
9:30 AM	0	0
9:45 AM	0	0
10:00 AM	0	1
10:15 AM	0	0
10:30 AM	0	0
10:45 AM	0	1
11:00 AM	0	0
11:15 AM	0	1
11:30 AM	0	1
11:45 AM	0	1
12:00 PM	0	4
12:15 PM	0	3
12:30 PM	0	5
12:45 PM	0	4
1:00 PM	0	0
1:15 PM	0	1
1:30 PM	0	2
1:45 PM	0	1
2:00 PM	0	0
2:15 PM	0	0
2:30 PM	0	1
2:45 PM	0	3
3:00 PM	0	2

(2) 24 Hour ATR Eastern
Study Name Driveway (Exit Only)
Start Date 10/12/2023
Start Time 12:00 AM
Site Code
Counter: MIO
Set up by: KY

Channel Direction	Direction	Direction
	Southbound (Illegal Entry)	Northbound
3:15 PM	0	3
3:30 PM	0	1
3:45 PM	0	3
4:00 PM	0	8
4:15 PM	0	5
4:30 PM	0	5
4:45 PM	0	8
5:00 PM	0	10
5:15 PM	0	13
5:30 PM	0	6
5:45 PM	0	0
6:00 PM	0	0
6:15 PM	0	0
6:30 PM	0	0
6:45 PM	0	0
7:00 PM	0	0
7:15 PM	0	0
7:30 PM	0	0
7:45 PM	0	0
8:00 PM	0	0
8:15 PM	0	0
8:30 PM	0	0
8:45 PM	0	0
9:00 PM	0	0
9:15 PM	0	0
9:30 PM	0	0
9:45 PM	0	0
10:00 PM	0	0
10:15 PM	0	0
10:30 PM	0	0
10:45 PM	0	0

(2) 24 Hour ATR Eastern
Study Name Driveway (Exit Only)
Start Date 10/12/2023
Start Time 12:00 AM
Site Code
Counter: MIO
Set up by: KY

Channel Direction	Direction	Direction
	Southbound (Illegal Entry)	Northbound
11:00 PM	0	0
11:15 PM	0	0
11:30 PM	0	0
11:45 PM	0	0

Study Name ATR Genius Kids**Start Date 10/12/2023****Start Time 12:00 AM**

	Entering Trips	Exiting Trips	Net Difference	Existing Parking Demand (Spaces)
6:00 AM	0	0	0	0
6:15 AM	0	0	0	0
6:30 AM	1	0	1	1
6:45 AM	0	0	0	1
7:00 AM	5	3	2	3
7:15 AM	4	1	3	6
7:30 AM	6	6	0	6
7:45 AM	11	5	6	12
8:00 AM	9	7	2	14
8:15 AM	11	7	4	18
8:30 AM	13	11	2	20
8:45 AM	16	13	3	23
9:00 AM	3	9	-6	17
9:15 AM	0	0	0	17
9:30 AM	0	0	0	17
9:45 AM	1	0	1	18
10:00 AM	2	1	1	19
10:15 AM	0	0	0	19
10:30 AM	0	0	0	19
10:45 AM	1	1	0	19
11:00 AM	1	0	1	20
11:15 AM	0	1	-1	19
11:30 AM	0	1	-1	18
11:45 AM	4	2	2	20
12:00 PM	5	4	1	21
12:15 PM	3	3	0	21
12:30 PM	0	5	-5	16
12:45 PM	0	4	-4	12
1:00 PM	3	0	3	15
1:15 PM	3	1	2	17
1:30 PM	3	2	1	18
1:45 PM	0	1	-1	17
2:00 PM	0	0	0	17
2:15 PM	1	0	1	18
2:30 PM	2	1	1	19
2:45 PM	2	3	-1	18
3:00 PM	2	2	0	18
3:15 PM	3	3	0	18
3:30 PM	2	1	1	19
3:45 PM	1	3	-2	17
4:00 PM	5	8	-3	14
4:15 PM	6	5	1	15
4:30 PM	5	5	0	15
4:45 PM	5	8	-3	12
5:00 PM	11	10	1	13
5:15 PM	8	13	-5	8
5:30 PM	0	6	-6	2
5:45 PM	0	0	0	2