

Department of Transportation Division of Highway and Bridge Maintenance 360 Lincoln Avenue Warwick, RI 02888

January 9, 2024

Derek L. Hug, P.E., PTOE Pare Corporation 8 Blackstone Valley Place Lincoln, RI 02865

Subject: Physical Alteration Permit (PAP) Applicability Request

1112 Reservoir Avenue, Cranston

Dear Mr. Hug:

We have reviewed your PAP applicability request (copy attached, received on December 22, 2023) for the proposed redevelopment of a former Pizza Hut location into a marijuana dispensary at 1112 Reservoir Avenue (Route 2) in Cranston.

Your letter states that the modifications proposed will be limited to the building structure itself with no alterations to driveway access, and no impacts to the State drainage system since there are no changes in site impervious, grading or drainage patterns. Your letter also includes an evaluation of the change in use with respect to traffic impacts and safety, which you concluded that there would be no significant impacts to Reservoir Avenue as a result of the proposed change. The report notes that there is overgrown vegetation within the State Right of Way adjacent the Pocasset River Bridge that should be trimmed to help improve sightline for the driveway, please be aware we have notified our roadside maintenance staff requesting that the overgrowth be addressed.

With that said, based on the information provided, we have determined that a Physical Alteration Permit is not required. If the project scope changes and results in any potential impacts to the State Highway Right-of-Way (ROW), please let us know so we can review and provide more guidance if necessary.

If you have any questions, please contact Pam Brooks P.E. at 401-734-4889.

Sincerely,

Matthew J. Ouellette, P.E.

Matthew J. Ouellette

Deputy State Highway Maintenance Operations Engineer

Enclosure(s): Request Letter received 12/22/23

cc: Brooks, Lapatin, Ouellette, Rocchio, Walusiak (w/o att)











December 15, 2023 Revised December 22, 2023

Mr. Sam Lapatin Acting Managing Engineer Rhode Island Department of Transportation Division of Highway and Bridge Maintenance 360 Lincoln Avenue Warwick, RI 02886

Re: Physical Alteration Permit (PAP) Applicability Request

1112 Reservoir Avenue Cranston, Rhode Island (Pare Project No.: 23211.00)

Dear Mr. Lapatin:

On behalf of Ancora Advisors, LLC, Pare Corporation (Pare) is requesting a determination of applicability for the proposed redevelopment of a former Pizza Hut location into a marijuana dispensary at 1112 Reservoir Avenue (Route 2) in Cranston, Rhode Island. Access to the property is to be provided through the existing driveways, which are not anticipated to be altered. Figure 1 shows the site location.

All substantial modifications to the site will be limited to the building structure itself. There are no plans to change any grading within the site, or to the amount of impervious area within the site. Therefore, there is no anticipation that there will be any change in drainage patterns onsite that may impact the state drainage system along Reservoir Avenue. A site plan for the project is enclosed.

As part of this request, Pare reviewed the anticipated trip generation for the proposed dispensary use and a safety review of the current access to Reservoir Avenue. Further discussion of those topics are in the following paragraphs.

#### **Trip Generation**

Trip generation for the proposed development was completed using the industry standard Institute of Transportation Engineers (ITE) *Trip Generation, 11th Edition.* The Trip Generation Manual provides traffic generation information for various land uses compiled from studies conducted by members nationwide. The proposed project consists of the redevelopment of an existing building previously used as Pizza Hut with an area of approximately 3,800 square feet into a medical dispensary. To determine the approximate trips generated with the proposed use in comparison to its previous use, trips were calculated using Land Use Code (LUC) 930 – Fast Casual Restaurant and compared to LUC 882 – Marijuana Dispensary.





FIGURE 1 LOCUS MAP

1112 RESERVOIR AVENUE CRANSTON, RHODE ISLAND



Mr. Sam Lapatin (3) Revised December 22, 2023

A summary of the previous and anticipated site-generated trips from the site is provided in Table 1 below. Copies of the trip generation worksheets are enclosed. The proposed site is anticipated to generate an additional 35 trips during the morning peak hour, and an additional 20 trips during the afternoon peak hour. Over a 24-hour period on an average weekday, the proposed site is anticipated to generate an additional 433 trips.

**Table 1: Trip Generation Summary** 

Land Use		Weekday, AM Peak Hour of Adjacent Street Traffic	Weekday, PM Peak Hour of Adjacent Street Traffic	Weekday, All Day
Existing Fast Casual Restaurant (LUC 930) – 3,800 SF	Enter Exit Total	3 2 5	29 <u>23</u> 52	185 <u>184</u> 369
Proposed	Enter	21	36	401
Marijuana Dispensary (LUC	<u>Exit</u>	<u>19</u>	36	401
882) – 3,800 SF	Total	40	72	802
Additional Trips Generated	Enter	18	7	216
	<u>Exit</u>	<u>17</u>	<u>13</u>	217
	Total	35	20	433

#### Traffic Safety Analysis

On December 5, 2023, a spot speed study was conducted on Reservoir Avenue near the site driveway to assess driving speeds along it. A summary of the speed data results is shown in Table 2 below. The complete data log can be found attached. The most notable metric presented is the 85<sup>th</sup> percentile speed, which was utilized for the sight distance analysis. The largest 85<sup>th</sup> percentile speed of 34 miles per hour on Reservoir Avenue was rounded up to a design speed of 35 miles per hour to provide a more conservative analysis.

**Table 1: Reservoir Avenue Speed Study Summary** 

	Posted Speed	Average Speed	True Median (50 <sup>th</sup> Percentile)	85 <sup>th</sup> Percentile	10 MPH Pace	% over Posted
Northbound	35	28	28	34	21-30	10
Southbound	35	27	27	33	21-30	2

Based on the speed data obtained, a design speed of 35 miles per hour was selected for Reservoir Avenue. According to the latest editions of the American Association of State Highway and Transportation Officials (AASHTO) publication *A Policy on the Geometric Design of Highways and Streets*, the minimum safe stopping sight distance for 35 miles per hour is 250 feet. A summary of the sight distance for the driveway can be seen in Table 3.



Mr. Sam Lapatin (4) Revised December 22, 2023

Table 3: Site Drivewa	v Intersection Sight	t Distance Summary

			Desirable ISD (ft)	Measured ISD (ft)
Reservoir Avenue	Looking south (left)	250	335	216
Driveway	Looking north (right)	250	390	360

Sight distance looking left from the Reservoir Avenue driveway is limited due to the presence of overgrown vegetation and wooden fence around the property. To improve sight lines from this driveway, it is recommended to prune overgrown vegetation within the state highway right-of-way between the site and the adjacent bridge over the Pocasset River, which not only reduces sight distance from this driveway, but also partially blocks the sidewalk along Reservoir Avenue. Removal of this vegetation will restore sight distance to a value in excess of the minimum value and may exceed the desirable value.



Photo 1. Sight line looking southwest (left) from the Reservoir Avenue driveway



Photo 2. Sight line looking northeast (right) from the Reservoir Avenue driveway

In addition to the sight distance analysis, crash data was requested from the Cranston Police Department for the most recent three-year period for Reservoir Avenue along the site frontage. A breakdown of the crashes based on type and severity are listed in Table 4 below.



Mr. Sam Lapatin (5) Revised December 22, 2023

**Table 4: Crash Data Summary** 

	hes		ash erity			Crash	Туре		
Roadways/Intersection	Total Crashes	Non-Fatal Injuries	Fatalities	Rear End	Sideswipe	Head On	Single Vehicle	Angle	Other/ Unknown
Reservoir Avenue at 1112 Reservoir Avenue	0	0	0	0	0	0	0	0	0
Reservoir Avenue at Delway Road	4	1	0	1	1	1	0	1	0
TOTAL	4	1	0	1	1	1	0	1	0

A total of 4 crashes occurred within the most recent three years, all at the intersection of Reservoir Avenue and Delway Road. One of these crashes resulted in non-fatal injury, while no fatalities were reported.

Based on the information provided above, Pare Corporation believes there will be no significant impacts on Reservoir Avenue (Route 2) as a result of the proposed change in use.

We trust the information contained above and enclosed will be sufficient for your review and determination of applicability. Please feel free to contact me at 401-578-8543 or <a href="mailto:dhug@parecorp.com">dhug@parecorp.com</a> if you have any questions or need additional information.

Sincerely,

Derek L. Hug, P.E., PTOR Managing Engineer

BSO/DLH/

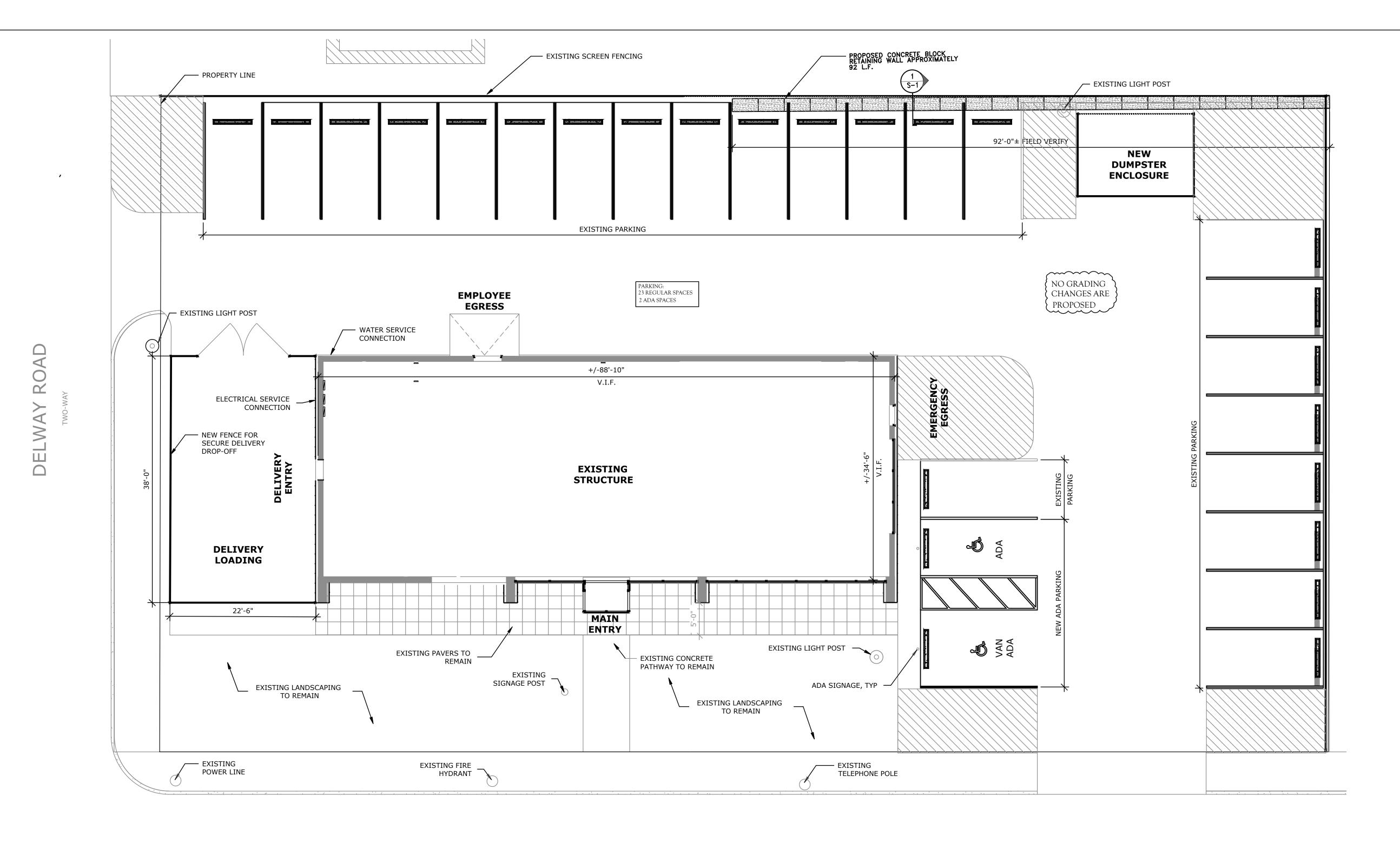
c: David Pontarelli, Ancora Advisors, LLC

Enclosures: Site Plan

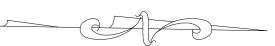
Trip Generation Worksheets Speed Study Summary



12/22/2023



RESERVOIR AVENUE



# RETAINING WALL AND PARKING LAYOUT PLAN

# WORLD BLOCK RETAINING WALL NOTES

- 1. ALL WALL CONSTRUCTION IS TO BE FIELD DOCUMENTED BY SAB ENGINEERING IN ORDER TO PROVE CONFORMANCE TO THESE CONSTRUCTION DOCUMENTS, PROPER COMPACTION OF SOILS AND THE PRESENCE OF DRAINAGE MATERIALS. COORDINATING THIS DOCUMENTATION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. CONCRETE USED FOR WALL UNITS SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 3 K.S.I.. WALL UNITS SHALL COMPLY WITH WORLD BLOCK SPECIFICATIONS, ASTM C-94 AND ACI-301-99, HAVE 4½% - 7½% ENTRAINED AIR, 3"-5" SLUMP, AND MUST BE PLACED AT A MINIMUM OF 50°.
- 3. WALL CONSTRUCTION SHALL FULLY COMPLY WITH WORLD BLOCK STANDARD SPECIFICATIONS.
- 4. UNDERDRAINS SHALL BE PERFORATED, 4" DIAMETER AND SHALL MEET THE REQUIREMENTS OF AASHTO M252 AND/OR ASTM F949. ALL DRAINS ARE TO PITCH A MINIMUM OF 1/8" PER FOOT. UNDERDRAINS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DRAINS NOT SPECIFIED TO TIE INTO THE SITE DRAINAGE SHALL DRAIN TO DAYLIGHT.
- 5. RETAINED SOIL SHALL BE DETERMINED TO MEET OR EXCEED THE REQUIREMENTS BELOW IN THE ABSENCE OF A GEOTECHNICAL ENGINEERING STUDY. SOILS NOT MEETING THESE REQUIREMENTS SHALL BE EXCAVATED AND REPLACED WITH ACCEPTABLE SOILS. THE UNDERLYING SOILS SHALL BE INVESTIGATED FOR THE PRESENCE OF SOFT CLAYS TO A DEPTH OF 1.5 TIMES THE HEIGHT OF THE RETAINING WALL. IF WEAK SOILS ARE PRESENT, THEY SHALL BE EXCAVATED AND REPLACED WITH ACCEPTABLE SOILS.
- LEVELING PAD SHALL BE <sup>2</sup> CRUSHED STONE WITH NO MORE THAN 5% PASSING A #200 SIEVE.

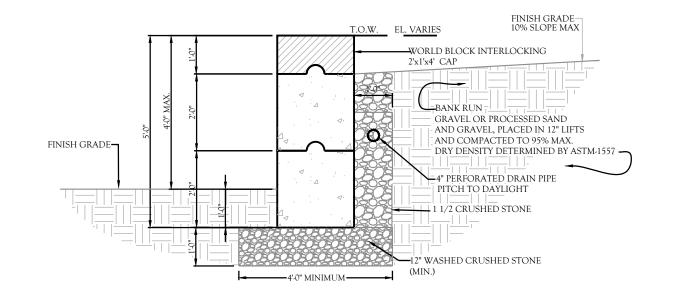
FREE DRAINING BACKFILL SOIL SHALL BE 1-1/2" CRUSHED STONE PLACED DIRECTLY BEHIND WALL FOR THE DEPTHS SPECIFIED ON PLANS (1'-0" MIN.) AND SHALL EXTEND VERTICALLY FROM LEVELING PAD TO 4" BELOW TOP OF WALL. EXPOSED DRAINAGE STONE SHALL BE PROTECTED FROM FINE SOIL MIGRATION THROUGHOUT CONSTRUCTION. BACKFILL SOIL BEYOND DRAINAGE ZONE SHALL BE CLEAN BANK RUN GRAVEL WITH NO MORE THAN 10% PASSING THE #200 SIEVE AND SHALL MEET OR EXCEED THE REQUIREMENTS BELOW. ORGANIC

AND FROST SUSCEPTIBLE SOILS ARE NOT PERMITTED WITHIN A MIN. DISTANCE BEHIND THE WALL EQUAL TO THE HEIGHT OF THE WALL. 6. ALL DRAINAGE AND FOUNDATION SOIL SHALL BE COMPACTED TO 95% OF ITS MAX. DRY DENSITY, AS DETERMINED BY ASTM D1557, USING HAND-OPERATED PLATE COMPACTION EQUIPMENT.

- BACKFILL SOIL BEYOND CONSOLIDATION ZONE SHALL BE COMPACTED TO 95% OF ASTM D1557. CONTRACTOR SHALL ENSURE THAT FOUNDATION SOIL IS CAPABLE OF SUPPORTING A MIN. OF 3 K.S.F..
- 7. THE FOLLOWING MINIMUM SOIL PROPERTIES WERE USED IN THE DESIGN: SOIL WEIGHT (PCF) FRICTION ANGLE (DEG) BACKFILL/INFILL SOIL RETAINED SOIL
- FOUNDATION SOIL LEVELING PAD FREE DRAINING BACKFILL
- 8. ENSURE THAT THE FIRST COURSE OF WALL UNITS IS IN FULL CONTACT WITH THE LEVELING PAD. INSTALL NEXT COURSE OF UNITS SUCH THAT THE VERTICAL GAPS ARE STAGGERED BETWEEN ADJACENT COURSES.
- 9. CONTRACTOR AND ENGINEER-OF-RECORD SHALL APPROVE/PROVIDE ALL ELEVATIONS AND INVERTS IN THESE PLANS PRIOR TO ORDERING MATERIAL.

# GENERAL NOTES

- ALL MEASUREMENTS ARE TO BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.
- GRADING BEHIND RETAINING WALLS IS NOT TO EXCEED 14° (1' VERTICAL ON 10' HORIZONTAL).
- ALL EXCAVATION IS TO BE IN ACCORDANCE WITH THE RHODE ISLAND STATE BUILDING CODE AND OSHA REGULATIONS.
- RETAINING WALLS ARE TO BE NO HIGHER THAN SPECIFIED IN THE PROVIDED CROSS SECTION.
- 5. ALL OF THE BASE PREPERATION SHALL BE OVERSEEN BY A REPRESENTATIVE FROM SAB ENGINEERING.

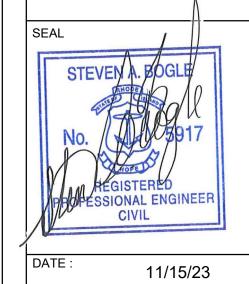




DRAWN BY: SCALE: PROJECT: CLIENT

Revisions GENERAL NOTES ENGINEER





PROJECT NO.: SAB- -23 **KMR** NTS CHECKED BY: SAB

PROPOSED **GRAVITY BLOCK** RETAINING WALL AND PARKING PLAN

1112 RESERVOIR AVENUE CRANSTON, RI

LAYOUT PLAN

SHEET NO.

# **Marijuana Dispensary**

(882)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.

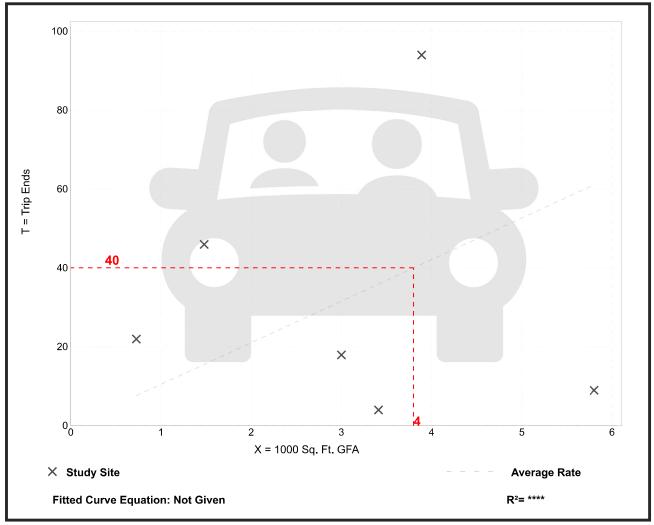
Setting/Location: General Urban/Suburban

Number of Studies: 6 Avg. 1000 Sq. Ft. GFA: 3

Directional Distribution: 52% entering, 48% exiting

# Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
10.54	1.17 - 31.08	12.69



# **Marijuana Dispensary**

(882)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

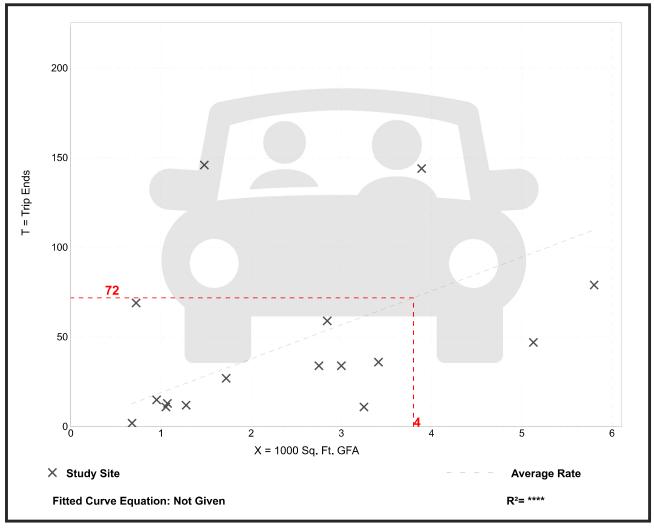
Setting/Location: General Urban/Suburban

Number of Studies: 16 Avg. 1000 Sq. Ft. GFA: 2

Directional Distribution: 50% entering, 50% exiting

# Vehicle Trip Generation per 1000 Sq. Ft. GFA

Ave	erage Rate	Range of Rates	Standard Deviation
	18.92	2.94 - 98.65	21.73



# **Marijuana Dispensary**

(882)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday

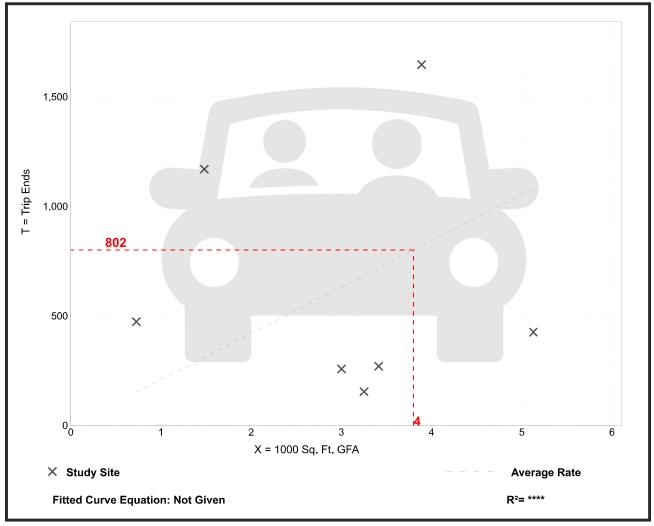
Setting/Location: General Urban/Suburban

Number of Studies: 7 Avg. 1000 Sq. Ft. GFA: 3

Directional Distribution: 50% entering, 50% exiting

# Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
211.12	48.00 - 791.22	246.90



# **Fast Casual Restaurant**

(930)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

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: 1 Avg. 1000 Sq. Ft. GFA: 1

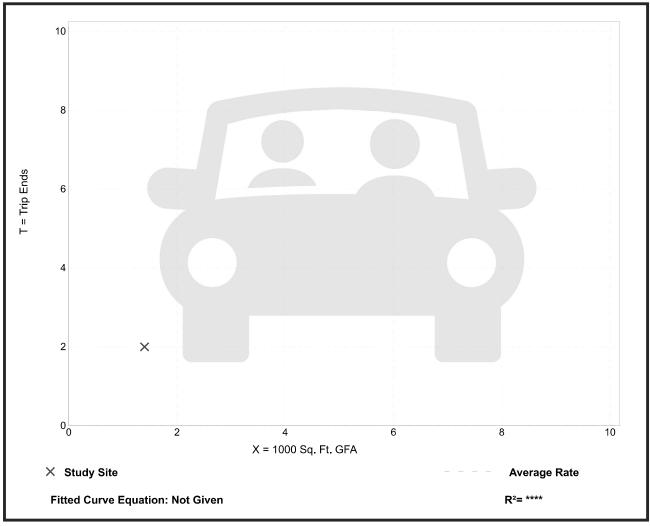
Directional Distribution: 50% entering, 50% exiting

# Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
1.43	1.43 - 1.43	*

### **Data Plot and Equation**

#### Caution - Small Sample Size



# **Fast Casual Restaurant**

(930)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

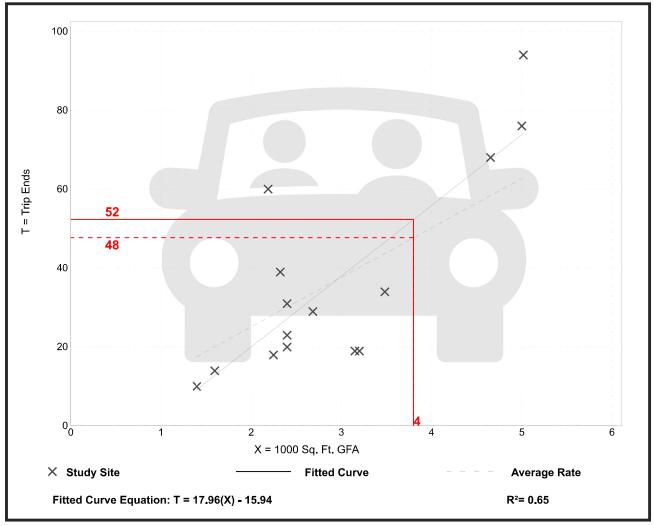
Setting/Location: General Urban/Suburban

Number of Studies: 15 Avg. 1000 Sq. Ft. GFA: 3

Directional Distribution: 55% entering, 45% exiting

# Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
12.55	5.94 - 27.40	5.52



# **Fast Casual Restaurant**

(930)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday

Setting/Location: General Urban/Suburban

Number of Studies: 1 Avg. 1000 Sq. Ft. GFA: 1

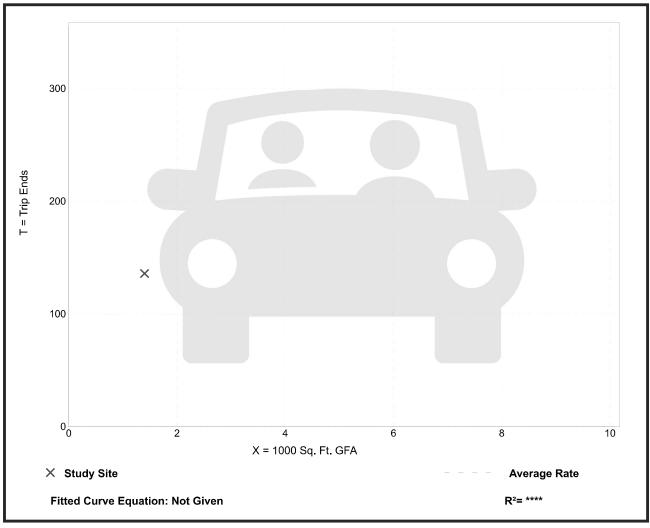
Directional Distribution: 50% entering, 50% exiting

# Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
97.14	97.14 - 97.14	*

### **Data Plot and Equation**

#### Caution - Small Sample Size



# Pare Corporation 8 Blackstone Valley Place Lincoln, RI, 02865

401-334-4100 www.parecorp.com

Roadway: Reservoir Avenue City/State: Cranston, RI Weather: 35 and Clear

Taken By: BSO

#	Northbound	Southbound
1	27	28
2	25	23
3	24	25
4	28	30
5	35	21
6	32	23
7	28	25
8	30	26
9	36	28
10	42	
		30
11	41	32
12	27	32
13	30	35
14	35	29
15	25	34
16	22	28
17	29	23
18	31	25
19	27	24
20	37	23
21	30	32
22	38	23
23	34	22
24	30	23
25	33	23
26	27	26
	31	28
27		
28	28	21
29	23	24
30	31	35
31	25	28
32	23	30
33	27	32
34	21	33
35	22	30
36	24	27
	21	
37		24
38	22	26
39	27	23
40	26	23
41	23	34
42	38	36
43	40	23
44	26	26
45	32	22
46	34	27
47	21	18
48	25	22
49	29	20
50	29	29
51	34	24
52	25	25
53	30	29
54	21	22
55	23	24
56	28	23
57	29	27
58	27	35
59	25	27
60	23	22
61	31	29
62	29	28

File Name: 23211.00 1112 Reservoir Ave

Site Code : 23211.00 Start Date : 12/5/2023

Page No : 1

Pare Corporation

8 Blackstone Valley Place
Lincoln, RI, 02865
401-334-4100 www.parecorp.com

File Name: 23211.00 1112 Reservoir Ave

Site Code : 23211.00 Start Date : 12/5/2023

Page No : 2

# Northbound S	Southbound  35  38  22  28  23  28  27  35  32  32  32  34  25  27  24
64 25 65 27 66 21 67 29 68 24 69 26 70 43 71 38 72 24 73 28 74 23 75 25 76 31	38 22 28 23 28 27 35 32 32 32 34 25 27 24
65 27 66 21 67 29 68 24 69 26 70 43 71 38 72 24 73 28 74 23 75 25 76 31	22 28 23 28 27 35 32 32 34 25 27 24 26
66     21       67     29       68     24       69     26       70     43       71     38       72     24       73     28       74     23       75     25       76     31	28 23 28 27 35 32 32 34 25 27 24 26
67 29 68 24 69 26 70 43 71 38 72 24 73 28 74 23 75 25 76 31	23 28 27 35 32 32 34 25 27 24 26
68     24       69     26       70     43       71     38       72     24       73     28       74     23       75     25       76     31	28 27 35 32 32 34 25 27 24 26
69     26       70     43       71     38       72     24       73     28       74     23       75     25       76     31	27 35 32 32 34 25 27 24 26
70 43 71 38 72 24 73 28 74 23 75 25 76 31	35 32 32 34 25 27 24 26
71 38 72 24 73 28 74 23 75 25 76 31	32 32 34 25 27 24 26
72 24 73 28 74 23 75 25 76 31	32 34 25 27 24 26
72 24 73 28 74 23 75 25 76 31	34 25 27 24 26
74 23 75 25 76 31	25 27 24 26
75 25 76 31	27 24 26
75 25 76 31	24 26
76 31	24 26
78 35	22
79 30	26
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81 23	23
82 32	30
83 30	35
84 21	34
85 23	27
86 23	29
86 23 87 21	28
88 22	27
89 28	24
90 24	32
91 23	34
92 35	32
93 32	30
94 28	28
95 26	27
96 46	33
97 35	35
98 32	30
99 33	24
100 25	25
101	

			10 MPH Pace	Number in	Percent in	Number of Vehicles Over	Percent of Vehicles Over	Average	True Median (50th
Class	Vehicle Count	85 Percentile	Speed	Pace	Pace	35 MPH	35 MPH	Speed	Percentile)
Northbound	100	34	21 - 30	69	69	10	10	28	28
Southbound	100	33	21 - 30	74	74	2	2	27	27
Summary	200	34	21 - 30	143	72	12	6	28	27