

Rising Tide Car Wash

W. Atlantic Boulevard and NW 30th Avenue
Pompano Beach, Florida

TRAFFIC STATEMENT

prepared for:
Rising Tide U, Inc.

KBP CONSULTING, INC.

April 2025

Rising Tide Car Wash

W. Atlantic Boulevard and NW 30th Avenue

Pompano Beach, Florida

Traffic Statement

April 2025

Prepared for:

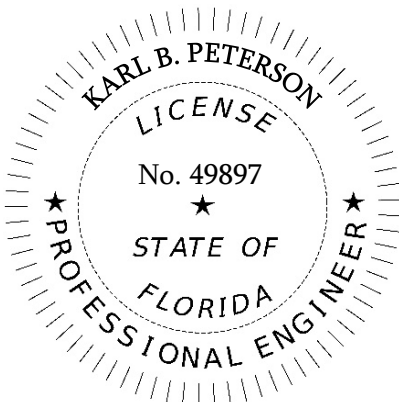
Rising Tide U, Inc.

Prepared by:

KBP Consulting, Inc.

APPROVED BY:

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED
AND SEALED BY:



ON THE DATE ADJACENT TO THE SEAL.
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INTRODUCTION

An automated car wash is planned to be located in the northeast quadrant of the intersection at W. Atlantic Boulevard (State Road 814) and NW 30th Avenue in Pompano Beach, Broward County, Florida. The location of this project site is illustrated in Figure 1 on the following page. More specifically, the Broward County Folio Number for the subject site is 4842 33 45 0010.

KBP Consulting, Inc. has been retained by Rising Tide U, Inc. to prepare a traffic statement in connection with this proposed development. This study addresses the vehicular traffic volumes expected to be generated by the proposed use, the projected turning movement volumes at the project driveway on W. Atlantic Boulevard, and the vehicle queuing characteristics of the car wash tunnel.

This traffic statement is divided into five (5) sections, as listed below:

1. Inventory
2. Trip Generation
3. Trip Distribution and Driveway Assignment
4. Vehicle Queuing Analysis
5. Summary & Conclusions

INVENTORY

Existing Land Use and Access

The subject site has a land area of approximately 52,371 square feet (+/- 1.20 acres) and is currently vacant. There is no formal vehicular access to the site. A recent site survey is presented in Appendix A.

Proposed Land Use and Access

The subject site will be developed with a single-tunnel automated car wash with a total building area of approximately 3,500 square feet. Vehicular access to the site will be provided via one (1) right-turn in / right-turn out only driveway on W. Atlantic Boulevard. A cross-access connection will be provided to the currently undeveloped parcel to the east. Appendix B contains the preliminary site plan for the proposed car wash facility.

Roadway System

W. Atlantic Boulevard (State Road 814) is a six-lane divided, state-maintained principal arterial roadway oriented in the east-west direction. This facility extends from State Road A1A in Pompano Beach to the Sawgrass Expressway in Coral Springs – a distance of approximately 13 miles. Within the project study area, the posted speed limit on W. Atlantic Boulevard is 45 miles per hour (mph) and the state's access classification of this roadway is "5". NW 30th Avenue is a locally maintained, two-lane roadway oriented in the north-south direction. The posted speed limit is 25 miles per hour (mph) and this facility serves the residential community to the north.

TRIP GENERATION

A trip generation analysis has been conducted for the proposed development on this site. The analysis was performed using the trip generation rates and equations published in the Institute of Transportation Engineer's (ITE) *Trip Generation Manual (11th Edition)*. The trip generation analysis was undertaken for daily, AM peak hour, and PM peak hour conditions.

According to the referenced ITE manual, the most appropriate land use category for the proposed development is ITE Land Use Code #948 – Automated Car Wash. However, the data for this land use is somewhat limited. As such, data for ITE Land Use Code #949 – Car Wash and Detail Center was utilized to supplement the trip generation data. The automated car wash trip generation data based upon the number of car wash tunnels is limited to weekday PM peak hours. It is noted that both data points for the one (1) tunnel sites indicate a rate of approximately 50 trips / tunnel. As such, this rate has been applied to this one (1) tunnel site in Pompano Beach.

A review of the car wash / detail center data indicates that the AM peak hour trip generation data is 63% of the PM peak hour data. And the PM peak hour rate reflects approximately 8.7% of the total daily trips. As such, the AM peak hour and the daily trip generation rates for this site were estimated accordingly and are presented below.

AUTOMATED CAR WASH (ITE LAND USE #948)¹

- ❑ Weekday: $T = 574.71 (X)$
where T = number of trips and X = number of car wash tunnels
- ❑ AM Peak Hour: $T = 31.50 (X)$ (63% in / 37% out)
- ❑ PM Peak Hour: $T = 50.00 (X)$ (50% in / 50% out)

Utilizing the above-listed trip generation rates, a trip generation analysis was undertaken for the proposed car wash facility. The results of this effort are documented in Table 1 on the following page and the trip generation data from the referenced ITE publication (for both Land Uses #948 and #949) is presented in Appendix C.

¹ Due to limited data for this land use, AM peak hour and daily trip generation rates were developed based upon data for ITE Land Use #949 – Car Wash and Detail Center.

Table 1 Rising Tide Car Wash Trip Generation Analysis Pompano Beach, Florida								
Land Use	Size	Daily Trips	AM Peak Hour Trips			PM Peak Hour Trips		
			In	Out	Total	In	Out	Total
Proposed Automated Car Wash	1 Tunnel	575	20	12	32	25	25	50

Compiled by: KBP Consulting, Inc. (April 2025).

Source: ITE Trip Generation Manual (11th Edition) Land Uses #948 and #949.

As indicated in Table 1 above, the proposed project is anticipated to generate 575 daily vehicle trips, 32 AM peak hour vehicle trips (20 inbound and 12 outbound) and 50 vehicle trips (25 inbound and 25 outbound) during the typical afternoon peak hour.

Trip Generation Comparison

The subject site was previously approved for a gas station with 18 fueling positions and a 2,822 square foot convenience store. The number of daily and peak hour vehicle trips estimated to be generated by this development are as follows:

- Daily Trips: 2,930
- AM Peak Hour Trips: 183
- PM Peak Hour Trips: 241

Excerpts from the traffic study for this development program as proposed in 2012 are presented in Appendix D. The currently proposed car wash development program will generate significantly less daily and peak hour traffic than the previously approved gas station / convenience store development program.

TRIP DISTRIBUTION AND DRIVEWAY ASSIGNMENT

The trip distribution for the proposed automated car wash was developed based upon knowledge of the study area, examination of the surrounding roadway network characteristics, review of current traffic volumes, and existing land use patterns. All entering and exiting vehicular traffic will utilize the proposed driveway on W. Atlantic Boulevard. Figure 2 on the following page presents the trip distribution patterns, and the AM and PM peak hour driveway volumes associated with the proposed development. Based upon the projected low driveway volumes anticipated during the AM and PM peak hours, an exclusive westbound right-turn lane is not required / warranted on W. Atlantic Boulevard.



VEHICLE QUEUING ANALYSES

According to the site plan presented in Appendix B, the queuing lanes (including three separate pay stations) for vehicles that wish to enter the car wash tunnel has a length / storage capacity of approximately 30 vehicles without obstructing the future cross access drive that will serve the parcel to the east. In order to assess the adequacy of the proposed queuing capacity, vehicle queuing data was collected at a similar Rising Tide Car Wash facility on a typical Friday and a typical Saturday (during good weather conditions) throughout the hours of operation. The site selected for this study is located at 2970 N. State Road 7 in Margate, Florida.

The queuing data was collected on Friday, March 21, 2025, and on Saturday, March 22, 2025. The hours of operation for this site are 8:00 AM to 7:00 PM on both Fridays and Saturdays. Vehicle queues were measured in 15-minute intervals for the section of the queuing lane between the entry point for the queuing lane and the pay stations. The results of this data collection effort are presented in Appendix E. A summary of the queuing data is presented below.

Friday, March 21, 2025

- 85th Percentile Queue: 12.00 Vehicles
- 95th Percentile Queue: 13.85 Vehicles
- Maximum Queue: 15 Vehicles (Time: 5:15 – 5:30 PM)

Saturday, March 22, 2025

- 85th Percentile Queue: 16.00 Vehicles
- 95th Percentile Queue: 17.85 Vehicles
- Maximum Queue: 19 Vehicles (Time: 1:30 – 1:45 PM)

As mentioned previously, the proposed queuing capacity for the Rising Tide Car Wash site in Pompano Beach will be approximately 30 vehicles. As documented at the existing Rising Tide Car Wash study site in Margate, the anticipated vehicle queues throughout the typical peak days (i.e. Fridays and Saturdays) should be easily accommodated by the capacity of the proposed queuing lanes.

SUMMARY & CONCLUSIONS

An automated car wash is planned to be located in the northeast quadrant of the intersection at W. Atlantic Boulevard (State Road 814) and NW 30th Avenue in Pompano Beach, Broward County, Florida. The subject site has a land area of approximately 1.20 acres and is currently vacant. The subject site will be developed with a single-lane automated car wash with a total building area of approximately 3,500 square feet. Vehicular access to the site will be provided via one (1) right-turn in / right-turn out only driveway on W. Atlantic Boulevard. A cross-access connection will be provided to the currently undeveloped parcel to the east.

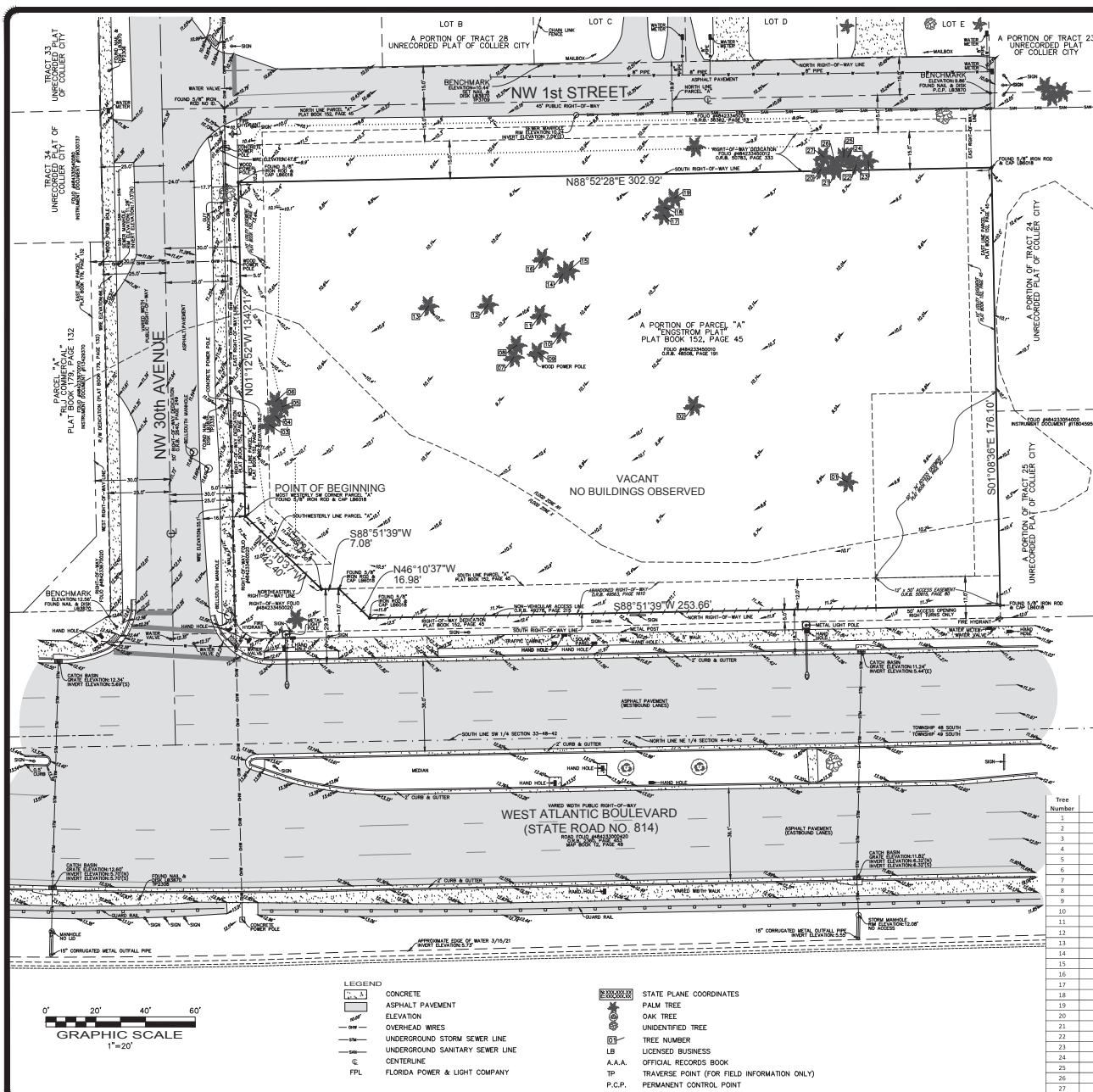
The trip generation analysis indicates that the proposed project is anticipated to generate 575 daily vehicle trips, 32 AM peak hour vehicle trips (20 inbound and 12 outbound) and 50 vehicle trips (25 inbound and 25 outbound) during the typical afternoon peak hour. These volumes represent a significant reduction when compared with those daily and peak hour trips estimated to be generated by the previously approved gas station and convenience store on this site.

The projected relatively low driveway volumes anticipated during the AM and PM peak hours indicate that an exclusive westbound right-turn lane is not required / warranted on W. Atlantic Boulevard. And lastly, the vehicle queuing capacity for the car wash is expected to be more than adequate based upon observations and data collected at a similar Rising Tide Car Wash facility in Margate, Florida.

Appendix A

Rising Tide Car Wash – Pompano Beach

Site Survey



LEGAL DESCRIPTION:

PARCEL "A", "ENSTROM PLAT", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 152, PAGE 45, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, LESS AND EXCEPT: THE NORTH 15 FEET THEREOF, AS TAKEN BY THE CITY OF POMPANO BEACH, BY VIRTUE OF ORDER OF TAKING RECORDED IN OFFICIAL RECORDS BOOK 30362, PAGE 53, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

BEGIN AT THE SOUTHEAST CORNER OF SAID PARCEL "A", SAID POINT BEING ON THE EAST LINE OF SAID PARCEL "A" AND THE NORTH RIGHT-OF-WAY LINE OF WEST ATLANTIC BOULEVARD (STATE ROAD 814), THENCE SOUTH 85°04'44" WEST, ALONG SAID NORTH RIGHT-OF-WAY LINE, A DISTANCE OF 272.77 FEET; THENCE NORTH 46°11'32" WEST, A DISTANCE OF 42.40 FEET TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF NW 30TH AVENUE; THENCE NORTH 01°13'47" WEST, ALONG SAID EAST RIGHT-OF-WAY LINE, A DISTANCE OF 149.21 FEET; THENCE NORTH 85°13'33" EAST, A DISTANCE OF 302.85 FEET TO A POINT ON THE EAST LINE OF SAID PARCEL "A"; THENCE SOUTH 01°09'51" EAST, ALONG SAID EAST LINE, A DISTANCE OF 179.10 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH ROAD RIGHT-OF-WAY VACATED PER THE CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA ORDINANCE NO. 2012-42 RECORDED IN OFFICIAL RECORDS BOOK 49693, PAGE 1610 AND THE CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA ORDINANCE NO. 2013-42 RECORDED IN OFFICIAL RECORDS BOOK 49693, PAGE 1308, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

ALSO LESS AND EXCEPT THAT PORTION CONVEYED TO THE CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA BY THAT CERTAIN QUIT CLAIM DEED RECORDED IN OFFICIAL RECORDS BOOK 50785, PAGE 333, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

SURVEYOR'S DESCRIPTION:

PARCEL "A", "ENSTROM PLAT", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 152, PAGE 45, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, LESS AND EXCEPT THE NORTH 15 FEET THEREOF, AS TAKEN BY THE CITY OF POMPANO BEACH, BY VIRTUE OF ORDER OF TAKING RECORDED IN OFFICIAL RECORDS BOOK 30362, PAGE 53, AND THE SOUTH 15 FEET OF THE NORTH 30 FEET OF SAID PARCEL "A", AS TAKEN BY THE CITY OF POMPANO BEACH, BY VIRTUE OF QUIT CLAIM DEED RECORDED IN OFFICIAL RECORDS BOOK 50785, PAGE 333, TOGETHER WITH THAT PORTION 12 FOOT DEEP PORTION OF ABANDONED RIGHT-OF-WAY PER ORDINANCE NO. 2012-42, RECORDED IN OFFICIAL RECORDS BOOK 49693, PAGE 1610, ALL OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, SAID SITE BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE MOST WESTERLY SOUTHWEST CORNER OF SAID PARCEL "A", SAID LINE LYING ON THE EAST RIGHT-OF-WAY LINE OF NW 30TH AVENUE AS SHOWN ON SAID PLAT; THENCE NORTH 01°12'52" WEST ALONG SAID EAST RIGHT-OF-WAY LINE, ALSO BEING THE WEST LINE OF SAID PARCEL "A" 134.21 FEET TO A POINT ON THE SOUTH LINE OF THE NORTH 15 FEET OF SAID PARCEL "A"; THENCE NORTH 85°02'28" EAST ALONG SAID SOUTH LINE, BEING THE SOUTH RIGHT-OF-WAY LINE OF NW 1ST STREET AS RECORDED IN AFOREMENTIONED OFFICIAL RECORDS BOOK 50785, PAGE 333 FOR 302.82 FEET TO A POINT ON THE EAST LINE OF SAID PARCEL "A"; THENCE SOUTH 01°08'36" EAST ALONG SAID EAST LINE 179.10 FEET TO A POINT ON THE NORTH RIGHT-OF-WAY LINE OF WEST ATLANTIC BOULEVARD (STATE ROAD NO. 814) AS RECORDED IN THE AFOREMENTIONED ORDINANCE; THENCE ALONG THE SOUTH LINE OF SAID ABANDONED RIGHT-OF-WAY, THE FOLLOWING TWO COURSES AND DISTANCES: 1) SOUTH 85°13'38" WEST 253.66 FEET; 2) NORTH 46°11'32" WEST 16.98 FEET TO A POINT ON THE SOUTH LINE OF SAID PARCEL "A"; THENCE SOUTH 85°13'39" WEST ALONG SAID SOUTH LINE, ALSO BEING THE NORTH RIGHT-OF-WAY LINE OF SAID WEST ATLANTIC BOULEVARD (STATE ROAD NO. 814) AS SHOWN ON SAID PLAT 7.08 FEET; THENCE NORTH 46°10'37" WEST ALONG THE SOUTHWESTERLY LINE OF SAID PARCEL "A", ALSO BEING A NORTHEASTERLY RIGHT-OF-WAY LINE OF SAID WEST ATLANTIC BOULEVARD (STATE ROAD NO. 814) 42.40 FEET TO THE POINT OF BEGINNING.

SAID LANDS LYING AND BEING IN THE CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA AND CONTAINING 52,371 SQUARE FEET (1.2023 ACRES), MORE OR LESS.

- NOTES:
1. THIS SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OR AN ELECTRONIC SIGNATURE AND ELECTRONIC SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
 2. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. BROWARD COUNTY BENCHMARK #004/2011; ELEVATION: 13.632 FEET.
 3. FLOOD ZONE: X/AH; BASE FLOOD ELEVATION: NONE/12 FEET; PANEL #1201C03564; COMMUNITY #1205056; MAP DATE: 7/31/24.
 4. THIS SITE LIES IN SECTION 15, TOWNSHIP 48 SOUTH, RANGE 48 EAST, BROWARD COUNTY, FLORIDA.
 5. BEARINGS ARE BASED ON STATE PLANE COORDINATES AND ARE RELATIVE TO THE NORTH AMERICAN DATUM OF 1983 WITH THE 1990 ADJUSTMENT, F-T-22E ZONE, WITH THE SOUTH LINE OF PARCEL "A" BEING NEARLY 7°.
 6. REASONABLE EFFORTS WERE MADE REGARDING THE EXISTENCE AND THE LOCATION OF UNDERGROUND UTILITIES. THIS FIRM, HOWEVER, DOES NOT ACCEPT RESPONSIBILITY FOR THIS INFORMATION, BEFORE EXCAVATION OR CONSTRUCTION CONTACT THE APPROPRIATE UTILITY COMPANIES FOR FIELD VERIFICATION.
 7. THE HORIZONTAL POSITIONAL ACCURACY OF WELL DEFINED IMPROVEMENTS ON THIS SURVEY IS ±0.07'. THE VERTICAL ACCURACY OF ELEVATIONS OF WELL DEFINED IMPROVEMENTS ON THIS SURVEY IS ±0.07'.
 8. THIS SITE CONTAINS 0 DELINEATED PARKING SPACES.
 9. ALL RECORDED DOCUMENTS ARE PER BROWARD COUNTY RECORDS.
 10. THE TREE SYMBOLS DEPICTED HEREON ARE NOT SCALED TO TREE CANOPY.
 11. THE FLOODER DOCUMENTS ARE, WHEN DEPICTED HEREON, ARE PLACED IN APPROXIMATE LOCATIONS, AS SCALED FROM THE IMAGE FROM THE FEMA.DRG WEBSITE.
 12. THIS SURVEY WAS PREPARED WITHOUT BENEFIT OF A COMMITMENT FOR TITLE INSURANCE. ONLY PLATTED OR KNOWN EASEMENTS ARE DEPICTED HEREON.
 13. THE SURVEYOR'S DESCRIPTION HEREON WAS WRITTEN BY THE SURVEYOR TO CLARIFY THE DEEDED DESCRIPTION.

CERTIFICATION:

TO RISING TIDE CAR WASH FRANCHISE LLC:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 3, 4, 8, & 9 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON 4/2/25.

DATE OF PLAT OR MAP: 4/2/25

John F. Pulice

Digitally signed by John F. Pulice
Date: 2025.04.11 14:28:31 -0500

STATE OF FLORIDA

JOHN F. PULICE, PROFESSIONAL SURVEYOR AND MAPPER L52691
VICTOR R. GILBERT, PROFESSIONAL SURVEYOR AND MAPPER L56274
MICHAEL M. MOSSEY, PROFESSIONAL SURVEYOR AND MAPPER PSM5660
STATE OF FLORIDA

TREE TABLE

Tree Number	Common Name	DBH (Inches)	Canopy (feet)	Height (feet)
1	CABBAGE PALM	12"	13'	18'
2	CABBAGE PALM	12"	9'	15'
3	CABBAGE PALM	12"	10'	20'
4	CABBAGE PALM	12"	10'	20'
5	CABBAGE PALM	12"	10'	20'
6	CABBAGE PALM	12"	10'	20'
7	CABBAGE PALM	12"	15'	18'
8	CABBAGE PALM	12"	15'	18'
9	CABBAGE PALM	12"	15'	18'
10	CABBAGE PALM	12"	15'	18'
11	CABBAGE PALM	14"	5'	12'
12	CABBAGE PALM	12"	12'	23'
13	CABBAGE PALM	12"	14'	22'
14	CABBAGE PALM	10"	10'	25'
15	CABBAGE PALM	10"	4'	25'
16	CABBAGE PALM	10"	6'	25'
17	CABBAGE PALM	12"	10'	28'
18	CABBAGE PALM	10"	10'	28'
19	CABBAGE PALM	12"	10'	28'
20	CABBAGE PALM	10"	10'	25'
21	CABBAGE PALM	12"	10'	25'
22	CABBAGE PALM	12"	10'	25'
23	CABBAGE PALM	12"	10'	23'
24	CABBAGE PALM	12"	10'	25'
25	CABBAGE PALM	12"	10'	25'
26	CABBAGE PALM	12"	10'	25'
27	CABBAGE PALM	10"	10'	12'

PROPOSED RISING TIDE

ATLANTIC BLVD & NW 30TH AVE
POMPANO BEACH, FLORIDA 33069
(CITY OF POMPANO BEACH, BROWARD COUNTY)

BOUNDARY AND TOPOGRAPHIC SURVEY ALTA/NSPS LAND TITLE SURVEY

PULICE LAND SURVEYORS, INC.

5381 NOB HILL ROAD
SUNRISE, FLORIDA 33351
TELEPHONE: (954) 572-1777
FAX: (954) 572-1777
E-MAIL: surveys@puliceandsurveyors.com
WEBSITE: www.puliceandsurveyors.com
CERTIFICATE OF AUTHORIZATION L543870

DRAWN BY: L.H. SCALE: 1" = 20' FILE: RISING TIDE CAR WASH FRANCHISE LLC
CHECKED BY: J.F.P. SURVEY DATE: 4/2/25 ORDER NO.: 74016

Appendix B

Rising Tide Car Wash – Pompano Beach

Preliminary Site Plan



View 02

06



View 01

03

CURRENT USE:	VACANT
PROPOSED USE:	3,500 SF CAR WASH
LAND USE DESIGNATION:	COMMERCIAL (C)
ZONING DESIGNATION:	B-3 - GENERAL COMMERCIAL
WATER/WASTEWATER SERVICE PROVIDER:	BROWARD COUNTY WWD
BUILDING AREA (FOOTPRINT)	3,500 SF
TOTAL SITE AREA	52,371 SF (1.2023 AC)
BUILDING AREA (FOOTPRINT)	REQUIRED PROPOSED
MAX. BLDG. HEIGHT	10' 2" 32'-10"
REQUIRED PARKING	REQUIRED PROPOSED
Car Wash (3,500 @ 1 PER 500 SF)	7 SPACES 35
ACCESSIBLE PARKING (1 PER 25 SPACES)	REQUIRED PROPOSED
1 SPACE	1 SPACE
BICYCLE PARKING (4 PER 10 VEHICULAR SPACES)	REQUIRED PROPOSED
4 SPACES	4 SPACES
PROPOSED SETBACKS:	REQUIRED PROPOSED
BUILDING	NONE
FRONT (SOUTH)	79'-8" BLDG
REAR (NORTH)	30'
SIDE (WEST)	NONE
SIDE (EAST)	NONE
PROPOSED LANDSCAPE BUFFERS:	REQUIRED PROPOSED
FRONT (SOUTH)	10'
REAR(NORTH)	10'
SIDE (WEST)	10'
SIDE (EAST)	10'

Site Data

02



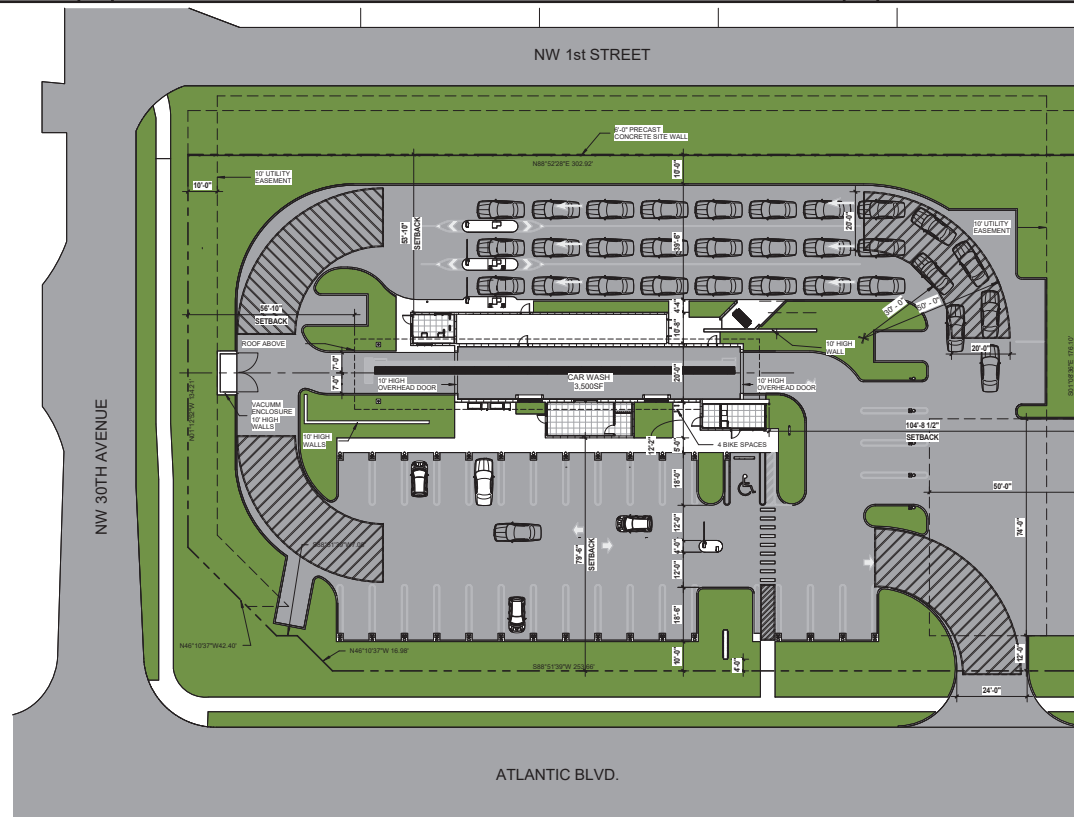
View 04

05



View 03

04



Site Plan

SCALE: 1" = 20'-0"

01

CONSULTANT
 Grego
 ry B.
 Molina
 P.E.
 DATE: 04-11-25
 12-42-04-0402

GBM
 ARCHITECTURE P.A.
 ARCHITECTURE
 MASTER PLANNING
 330 HMMARBREE ST.,
 SUITE 108
 FORT LAUDERDALE,
 FLORIDA 33312
 WWW.GBMARCHITECTURE.COM
 T 954.999.5633

SPECIAL EXEMPTION
 RISING TIDE
 Atlantic Blvd. & NW 30th Ave.
 Pompano Beach, FL 33069

DRAWING ISSUE DATES:

Site Plan

SHEET
 A-1.0
 PROJECT 250225
 DATE 04-11-25
 PERMIT NO.



ILLUSTRATIVE SITE PLAN
RISING TIDE CAR WASH
POMPANO BEACH, FLORIDA

Appendix C

Rising Tide Car Wash – Pompano Beach

ITE Trip Generation Data

Land Use: 948

Automated Car Wash

Description

An automated car wash is a facility that allows for the mechanical cleaning of the exterior of vehicles. Manual cleaning service may also be available at the facility. Self-service car wash (Land Use 947) and car wash and detail center (Land Use 949) are related uses.

Additional Data

The sites were surveyed in the 1990s and the 2000s in New Jersey, New York, and Washington.

Source Numbers

552, 555, 585, 599, 954

Automated Car Wash (948)

Vehicle Trip Ends vs: Car Wash Tunnels

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: 3

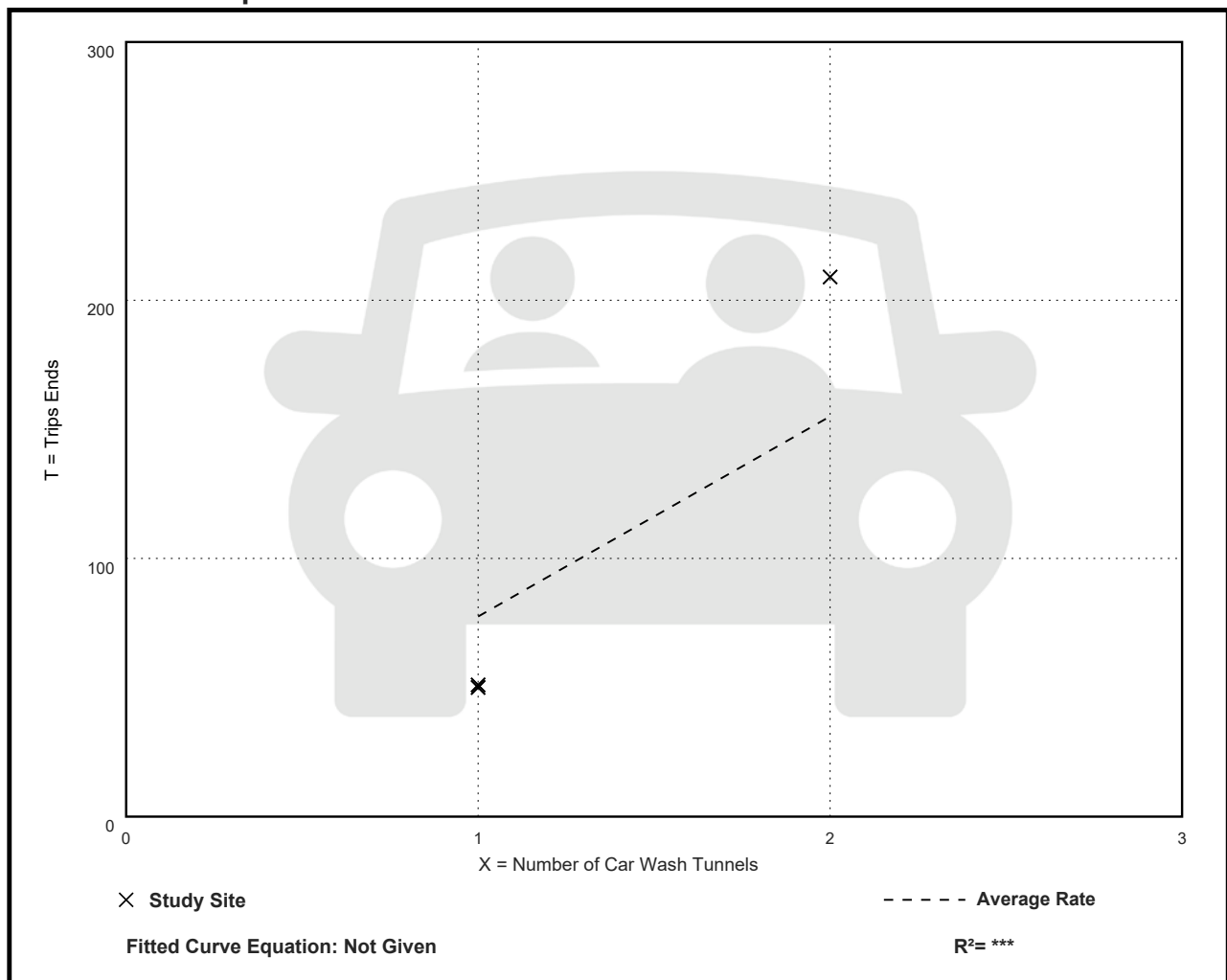
Avg. Num. of Car Wash Tunnels: 1

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Car Wash Tunnel

Average Rate	Range of Rates	Standard Deviation
77.50	50.00 - 104.50	33.07

Data Plot and Equation



Land Use: 949

Car Wash and Detail Center

Description

A car wash and detail center is a facility that provides for the manual cleaning of the exterior of vehicles as well as interior car-detailing services. Self-service car wash (Land Use 947) and automated car wash (Land Use 948) are related uses.

Additional Data

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip generation resource page on the ITE website (<https://www.ite.org/technical-resources/topics/trip-and-parking-generation/>).

The site was surveyed in the 2010s in Minnesota.

Source Number

866

Car Wash and Detail Center (949)

Vehicle Trip Ends vs: Wash Stalls

On a: Weekday

Setting/Location: General Urban/Suburban

Number of Studies: 1

Avg. Num. of Wash Stalls: 5

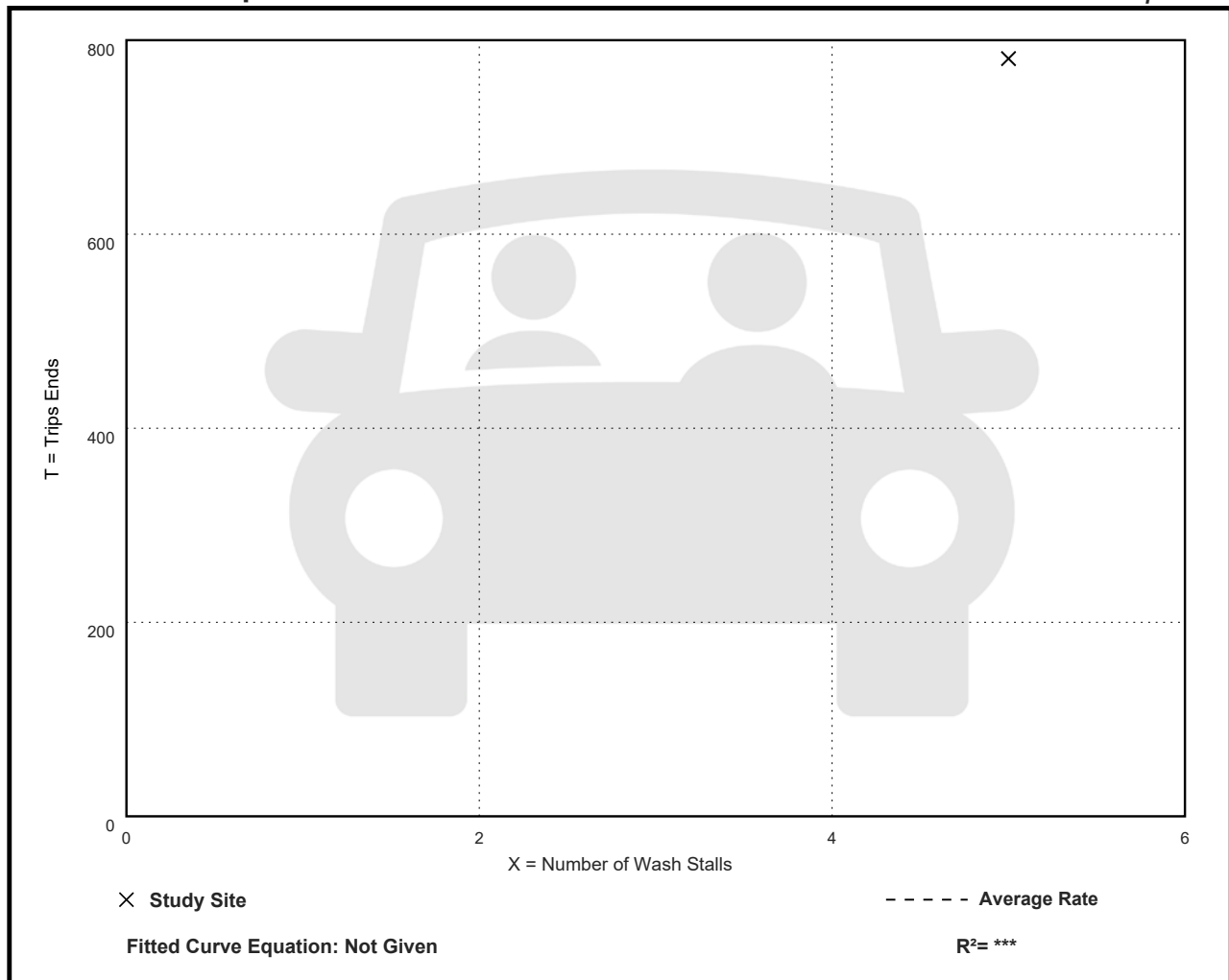
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Wash Stall

Average Rate	Range of Rates	Standard Deviation
156.20	156.20 - 156.20	***

Data Plot and Equation

Caution – Small Sample Size



Car Wash and Detail Center (949)

Vehicle Trip Ends vs: Wash Stalls

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. Num. of Wash Stalls: 5

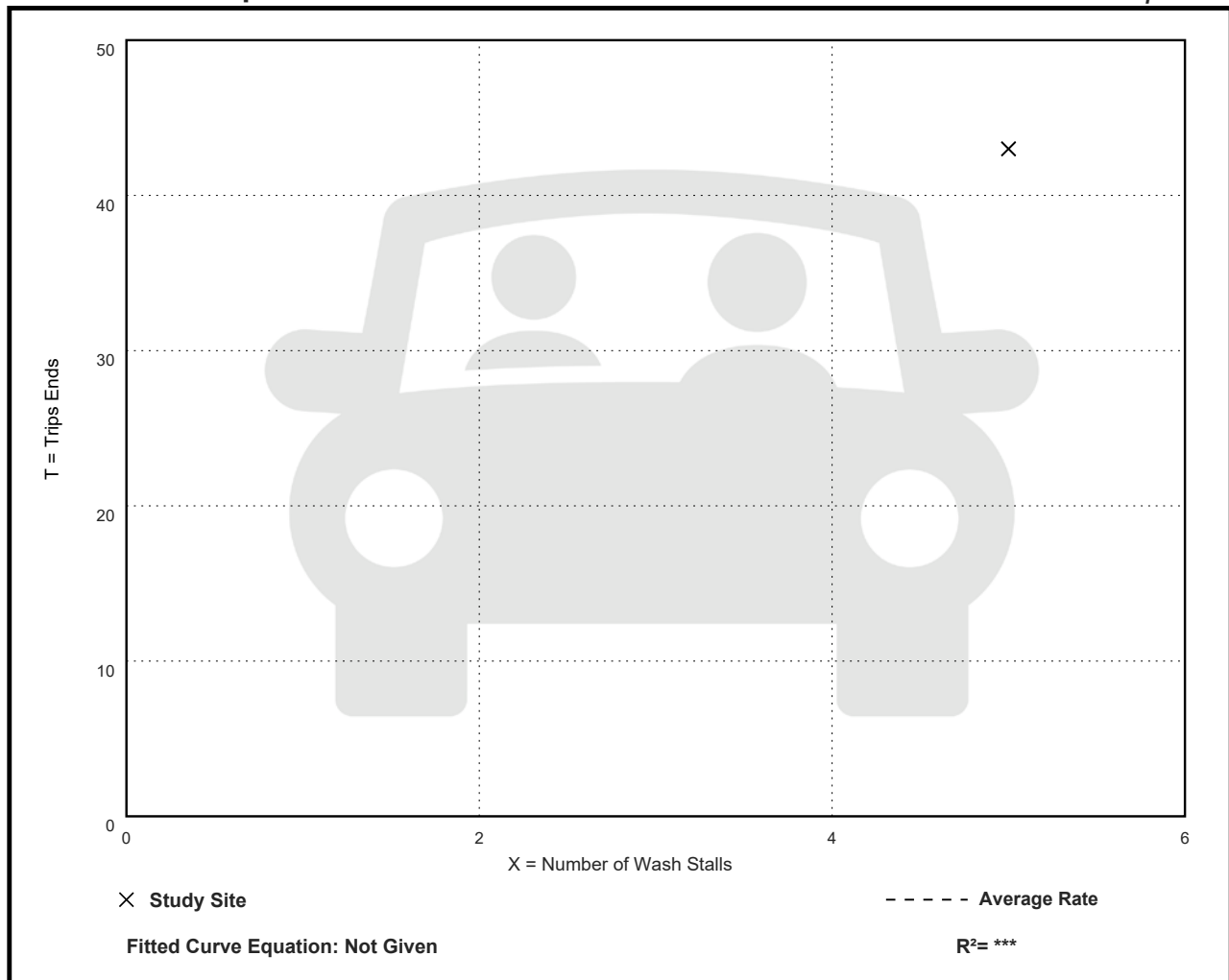
Directional Distribution: 63% entering, 37% exiting

Vehicle Trip Generation per Wash Stall

Average Rate	Range of Rates	Standard Deviation
8.60	8.60 - 8.60	***

Data Plot and Equation

Caution – Small Sample Size



Car Wash and Detail Center (949)

Vehicle Trip Ends vs: Wash Stalls

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: 1

Avg. Num. of Wash Stalls: 5

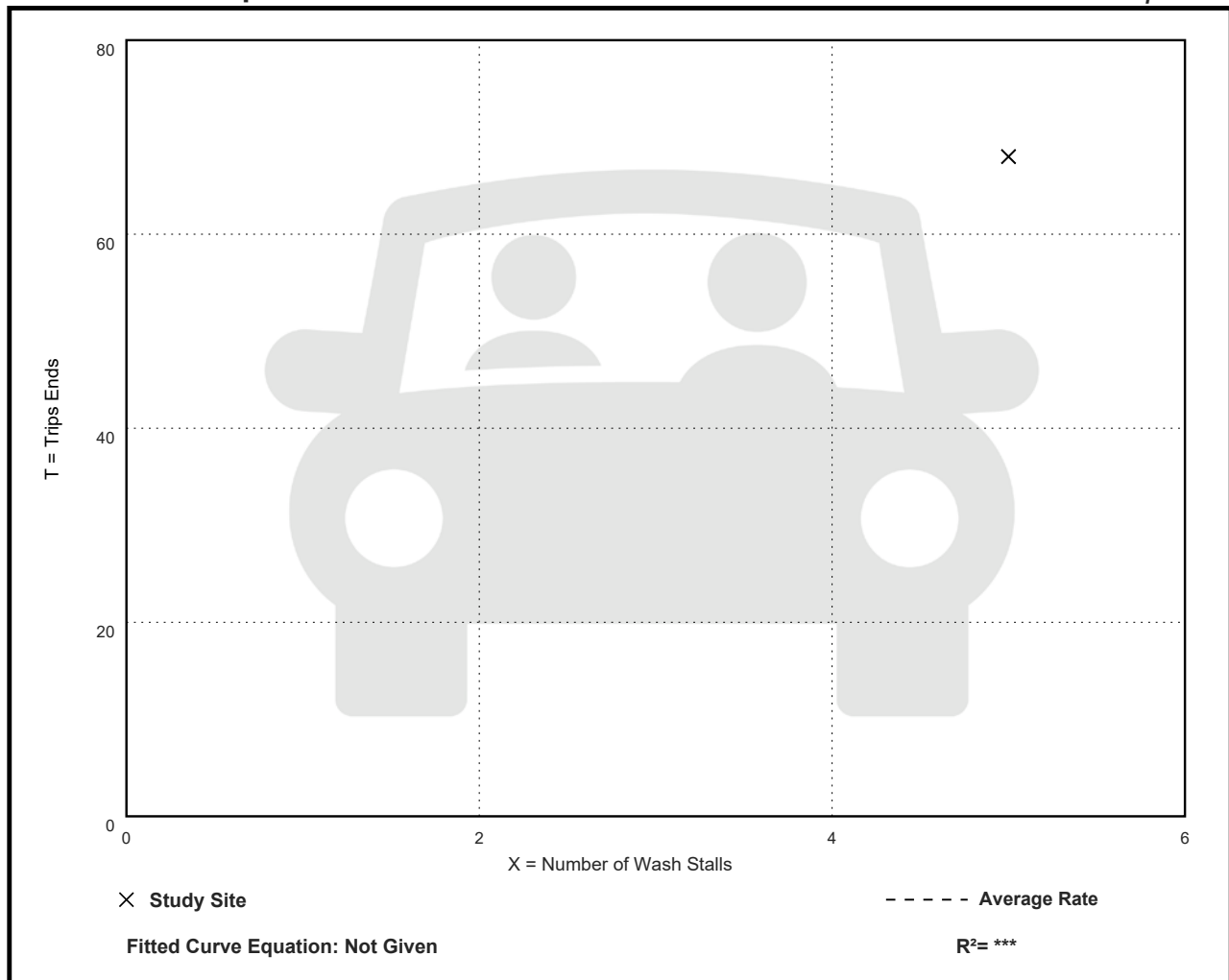
Directional Distribution: 49% entering, 51% exiting

Vehicle Trip Generation per Wash Stall

Average Rate	Range of Rates	Standard Deviation
13.60	13.60 - 13.60	***

Data Plot and Equation

Caution – Small Sample Size



Appendix D

Rising Tide Car Wash – Pompano Beach

Excerpts from the RaceTrac Traffic Impact Study



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VIA E-MAIL/U.S. MAIL

Mr. Cory Hopkins, P.E., Assistant Project Manager
RaceTrac Petroleum, Inc.
3225 Cumberland Boulevard, Suite 100
Atlanta, GA 30339

**RE: Raceway – Atlantic Boulevard at NW 30th Avenue Plat Traffic Analysis
McMahon Project No. L11623.01**

Dear Cory:

McMahon Associates, Inc. (McMahon) has completed a transportation engineering analysis associated with the development of the parcel of land located on the northeast corner of Atlantic Boulevard and NW 30th Avenue, in the City of Pompano Beach. The site is currently vacant. The proposed development will include a Raceway gas station with 18 fueling positions and a 2,822 square foot convenience store. This traffic analysis is being prepared to determine if the plat requirement for the construction of a westbound right-turn lane at the intersection of Atlantic Boulevard and NW 30th Avenue can be waived.

Based on a meeting with Broward County staff, the analysis contained herein includes an evaluation of existing and future volumes for the westbound right-turn movement at the intersection of Atlantic Boulevard and NW 30th Avenue, as well as a review of three-year, historical crash records for the intersection.

Existing (2011) Traffic Conditions

Existing (2011) turning movement counts were collected on November 2, 2011 for the westbound right-turn movement at the intersection of Atlantic Boulevard at NW 30th Avenue. The counts were collected from 7:00 AM to 9:00 AM and from 4:00 PM to 6:00 PM. From the collected turning movement data, it was determined that the AM and PM peak hours for the westbound right-turn movement occur from 7:45 AM to 8:45 AM and 5:00 PM to 6:00 PM, respectively. The traffic volume data is included in **Appendix A. Figure 1** graphically depicts the existing (2011) peak hour volumes.



NW 30th Avenue

SITE

13 (14)

Atlantic Boulevard

LEGEND

XX AM Peak Hour

(XX) PM Peak Hour

Figure 1
Existing (2011) Traffic Volumes
Raceway – Atlantic Boulevard at
NW 30th Avenue Plat Traffic Analysis
Pompano Beach, FL



Background (2035) Traffic Conditions

A growth rate was calculated for the study area roadways and was applied to existing (2011) peak hour counts for the westbound right-turn movement at the intersection of Atlantic Boulevard and NW 30th Avenue to determine background traffic conditions for Year 2035. The growth rate was based on a review of Year 2009 and Year 2035 daily and peak hour traffic volumes obtained from Broward County for the following roadway segments near the study intersection:

- Atlantic Boulevard east of Florida's Turnpike
- NW 31st Avenue north of Atlantic Boulevard.

The Broward County tables are included in **Appendix B**. Review of the volumes indicates a compound growth rate of approximately one (1) percent for the study area. The one (1) compound growth rate was applied to Year 2011 traffic counts to determine Year 2035 traffic projections for background traffic conditions. The background (2035) peak hour traffic volumes are shown on **Figure 2**.

Trip Generation Analysis

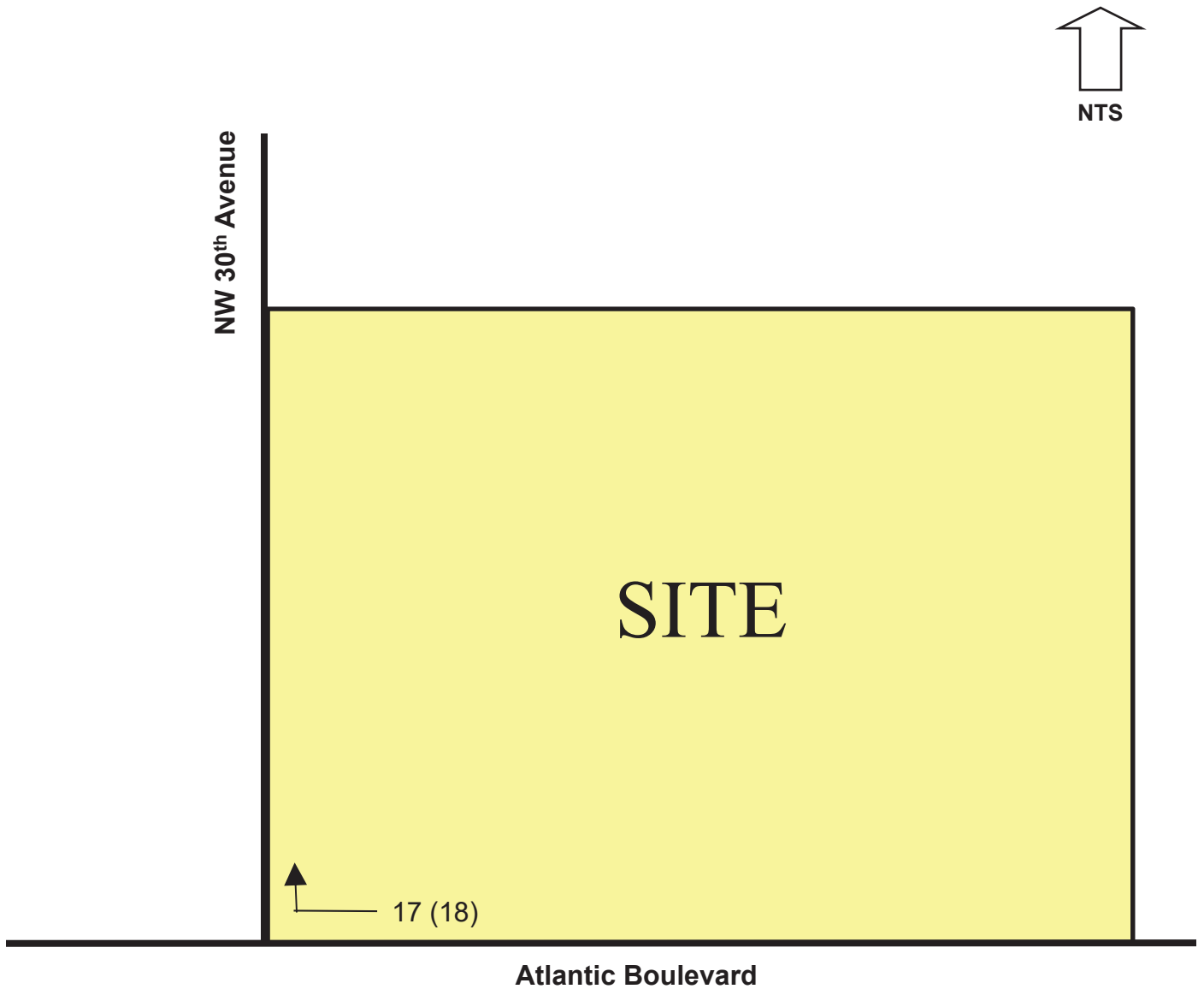
Using trip generation information obtained from the Institute of Transportation Engineers (ITE), *Trip Generation*, 8th Edition, and information from the ITE, *Trip Generation Handbook*, June 2004, trip generation estimates were developed for the proposed development. The trip generation analysis, summarized in **Table 1**, indicates that the proposed development is anticipated to generate 2,930 gross daily trips, 183 gross AM peak hour trips, and 241 gross PM peak hour trips. Excerpts from ITE are attached in **Appendix C**.

Project Distribution

Access to the site is being proposed via a right-in/right-out driveway connection to Atlantic Boulevard and a full median opening along NW 30th Avenue.

The project trip distribution for the proposed development, graphically depicted in **Figure 3**, was based on existing volume patterns for Atlantic Boulevard, as well as consideration for the residential neighborhood along NW 30th Avenue just north of the project site. Based on the most recent counts provided by Broward County, the traffic distribution along Atlantic Boulevard includes approximately 51 percent to/from the east and 49 percent to/from the west. Given the extensive residential community located just north of the project site with roadway connections to NW 30th Avenue, the proposed project distribution includes the following:

- 10 percent to/from the north along NW 30th Avenue
- 46 percent to/from the east along Atlantic Boulevard
- 44 percent to/from the west along Atlantic Boulevard.



LEGEND
XX AM Peak Hour
(XX) PM Peak Hour

Figure 2
Background (2035) Traffic Volumes
**Raceway – Atlantic Boulevard at
NW 30th Avenue Plat Traffic Analysis**
Pompano Beach, FL

TABLE 1
TRIP GENERATION ANALYSIS
RACEWAY- ATLANTIC BOULEVARD AT NW 30TH AVENUE TRAFFIC ANALYSIS

DAILY

LAND USE	ITE CODE	INTENSITY	TRIP GENERATION RATE ⁽¹⁾	IN	OUT	TOTAL TRIPS			PASS-BY ⁽²⁾		NEW TRIPS		
						IN	OUT	TOTAL			IN	OUT	TOTAL
PROPOSED USES													
Gas Station with Convenience Store	945	18 FP	T = 162.78 (X)	50%	50%	1,465	1,465	2,930	1,641	56%	645	644	1,289

AM PEAK HOUR

LAND USE	ITE CODE	INTENSITY	TRIP GENERATION RATE ⁽¹⁾	IN	OUT	TOTAL TRIPS			PASS-BY ⁽²⁾		NEW TRIPS		
						IN	OUT	TOTAL			IN	OUT	TOTAL
PROPOSED USES													
Gas Station with Convenience Store	945	18 FP	T = 10.16 (X)	50%	50%	92	91	183	113	62%	36	34	70

PM PEAK HOUR

LAND USE	ITE CODE	INTENSITY	TRIP GENERATION RATE ⁽¹⁾	IN	OUT	TOTAL TRIPS			PASS-BY ⁽²⁾		NEW TRIPS		
						IN	OUT	TOTAL			IN	OUT	TOTAL
PROPOSED USES													
Gas Station with Convenience Store	945	18 FP	T = 13.38 (X)	50%	50%	121	120	241	135	56%	54	52	106

(1) Source: ITE Trip Generation Manual, 8th Edition.

(2) Source: ITE Trip Generation Handbook, June 2004 Edition for AM and PM peak hour conditons. Daily pass-by rate based on PM peak hour conditions.

Appendix E

Rising Tide Car Wash – Pompano Beach

Queuing Data – Margate, Florida

**Table E-1
Rising Tide Car Wash
Queuing Data
2970 State Road 7, Margate, Florida**

Time Period	Drive-Through Lane
Friday, March 21, 2025	Max. Number of Vehicles in Queue
8:00 AM - 8:15 AM	4
8:15 AM - 8:30 AM	6
8:30 AM - 8:45 AM	6
8:45 AM - 9:00 AM	7
9:00 AM - 9:15 AM	5
9:15 AM - 9:30 AM	4
9:30 AM - 9:45 AM	4
9:45 AM - 10:00 AM	6
10:00 AM - 10:15 AM	7
10:15 AM - 10:30 AM	6
10:30 AM - 10:45 AM	7
10:45 AM - 11:00 AM	8
11:00 AM - 11:15 AM	9
11:15 AM - 11:30 AM	9
11:30 AM - 11:45 AM	12
11:45 AM - 12:00 PM	8
12:00 PM - 12:15 PM	8
12:15 PM - 12:30 PM	9
12:30 PM - 12:45 PM	7
12:45 PM - 1:00 PM	13
1:00 PM - 1:15 PM	14
1:15 PM - 1:30 PM	12
1:30 PM - 1:45 PM	13
1:45 PM - 2:00 PM	11
2:00 PM - 2:15 PM	9
2:15 PM - 2:30 PM	14
2:30 PM - 2:45 PM	11
2:45 PM - 3:00 PM	4
3:00 PM - 3:15 PM	6
3:15 PM - 3:30 PM	11
3:30 PM - 3:45 PM	9
3:45 PM - 4:00 PM	13
4:00 PM - 4:15 PM	10
4:15 PM - 4:30 PM	9
4:30 PM - 4:45 PM	7
4:45 PM - 5:00 PM	12
5:00 PM - 5:15 PM	10
5:15 PM - 5:30 PM	15
5:30 PM - 5:45 PM	10
5:45 PM - 6:00 PM	8
6:00 PM - 6:15 PM	5
6:15 PM - 6:30 PM	5
6:30 PM - 6:45 PM	10
6:45 PM - 7:00 PM	6

Weather: Clear / Sunny

Maximum Queue: 15

85th Percentile Queue: 12.00

95th Percentile Queue: 13.85

**Table E-2
Rising Tide Car Wash
Queuing Data
2970 State Road 7, Margate, Florida**

Time Period	Drive-Through Lane
Saturday, March 22, 2025	Max. Number of Vehicles in Queue
8:00 AM - 8:15 AM	8
8:15 AM - 8:30 AM	5
8:30 AM - 8:45 AM	5
8:45 AM - 9:00 AM	6
9:00 AM - 9:15 AM	4
9:15 AM - 9:30 AM	7
9:30 AM - 9:45 AM	8
9:45 AM - 10:00 AM	5
10:00 AM - 10:15 AM	4
10:15 AM - 10:30 AM	8
10:30 AM - 10:45 AM	9
10:45 AM - 11:00 AM	7
11:00 AM - 11:15 AM	12
11:15 AM - 11:30 AM	13
11:30 AM - 11:45 AM	13
11:45 AM - 12:00 PM	18
12:00 PM - 12:15 PM	17
12:15 PM - 12:30 PM	18
12:30 PM - 12:45 PM	17
12:45 PM - 1:00 PM	15
1:00 PM - 1:15 PM	16
1:15 PM - 1:30 PM	16
1:30 PM - 1:45 PM	19
1:45 PM - 2:00 PM	16
2:00 PM - 2:15 PM	14
2:15 PM - 2:30 PM	11
2:30 PM - 2:45 PM	15
2:45 PM - 3:00 PM	13
3:00 PM - 3:15 PM	11
3:15 PM - 3:30 PM	13
3:30 PM - 3:45 PM	5
3:45 PM - 4:00 PM	10
4:00 PM - 4:15 PM	13
4:15 PM - 4:30 PM	15
4:30 PM - 4:45 PM	8
4:45 PM - 5:00 PM	7
5:00 PM - 5:15 PM	8
5:15 PM - 5:30 PM	6
5:30 PM - 5:45 PM	6
5:45 PM - 6:00 PM	4
6:00 PM - 6:15 PM	7
6:15 PM - 6:30 PM	5
6:30 PM - 6:45 PM	6
6:45 PM - 7:00 PM	3

Weather: Clear / Sunny

Maximum Queue: 19

85th Percentile Queue: 16.00

95th Percentile Queue: 17.85