MEMORANDUM

DATE:

August 5, 2020

TO:

Zoning Review Office

FROM:

Office of Administrative Hearings

RE:

Case No. 2019-0534-X - Appeal Period Expired

The appeal period for the above-referenced cases expired on August 3, 2020. There being no appeal filed, the subject file is ready for return to the Zoning Review Office and is placed in the 'pick up box.'

/dlw

c: Case File

Office of Administrative Hearings

IN RE: PETITION FOR SPECIAL EXCEPTION*

BEFORE THE

(5401 Campbell Boulevard)

15th Election District

6th Council District

Whitemarsh Associates, LLC

Legal Owner

Petitioner

OFFICE OF

ADMINISTRATIVE HEARINGS

FOR BALTIMORE COUNTY

* Case No. 2019-0534-X

* * * * * * * * *

OPINION AND ORDER

This matter comes before the Office of Administrative Hearings ("OAH") for consideration of a Petition for Special Exception filed on behalf of Whitemarsh Associates, LLC, Legal Owner ("Petitioners"). The special exception petition was filed pursuant to § 502.1 of the Baltimore County Zoning Regulations ("BCZR") for a fuel service station in the ML IM zone, and for such further relief as the Administrative Law Judge ("ALJ") may require.

Christopher Hoffman appeared in support of the petition on behalf of the conditional contract purchaser, Wawa, Inc. Adam M. Rosenblatt, Esq. represented the Petitioner. Patrick Richardson, the engineer who prepared the site plan, also appeared and was recognized as an expert in land use, engineering, and the BCZR. The site plan was admitted as Petitioner's Exhibit 1. A traffic engineer, Mickey Cornelius appeared and was recognized as an expert in the field. Finally, Edward Steere, AICP, also appeared and was recognized as an expert in land use, real estate development, and the BCZR. There were no Protestants or interested citizens in attendance. Substantive Zoning Advisory Committee ("ZAC") comments were received from the Department of Environmental Protection and Sustainability ("DEPS") which indicated that the property must comply with Critical Area regulations, and that the plans must also be presented to the

Development Review Committee ("DRC") for determination of plan process prior to the issuance ORDER RECEIVED FOR FILING

Date 1220 By Nignon of any permits for grading and construction. In addition, ZAC comments were received from the State Highway Administration ("SHA") indicating that the Petitioner must contact the SHA to obtain an entrance permit. Finally, the Department of Planning ("DOP") also submitted comments in opposition to the requested relief, primarily because of the flood plain issue discussed below.

BACKGROUND

The subject parcel was the subject of Case No. 2019-0451-SPH in which a floodplain waiver was requested and ultimately granted. Initially, by Order dated December 5, 2019 the undersigned denied the waiver based on the misconception that even after all the stormwater construction was completed the proposed Wawa development would still be at least partially within the floodplain. The Petitioner filed a timely Motion for Reconsideration which explained and documented the fact that the floodplain waiver would enable Petitioner to construct such stormwater management facilities as would be required to take the proposed Wawa development outside the floodplain. Based on these representations I granted the requested waiver, stating that "I will defer to the judgment and expertise of the Director of Public Works, who has reviewed Petitioner's engineering studies and concludes that the proposed floodplain site work "will have zero adverse impact on the floodplain." However, I condition this approval as follows:

"All provisions of Baltimore County Code ("BCC") § 32-8-207 shall be satisfied before any permits are issued or any development may proceed."

In the instant case Mr. Rosenblatt acknowledges that should the requested Special Exception be granted the Petitioner must still comply with all provisions of BCC § 32-8-207 before they will be granted permits for any of their proposed construction (other than stormwater management construction related to floodplain ameliorization). In other words, they must still obtain all required floodplain waivers and permits from all federal, state, and county agencies.

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By Drugnon

However, as Mr. Rosenblatt also points out, under the holding in *Attar v. DMS*Tollgate, LLC, 451 Md. 272, 289 (2017), in a case such as this, a petitioner, "is not prevented by the BCZR from proceeding with the request for the Special Exception before receiving approval for the proposed floodplain relocation." It is in this context that the Special Exception relief in this case will be considered. In other words, as I made clear to Mr. Rosenblatt and the Petitioner, the merits of the Special Exception petition will be considered separate and apart from the floodplain issue; but any Special Exception relief I grant will still be conditioned upon them obtaining all the necessary floodplain approvals. Requiring the Petitioner to comply with all the onerous floodplain regulations will satisfy the sustainability goals of the Baltimore County Master Plan 2020, which requires the continued enforcement of development regulations "for the protection of water quality, streams, wetlands, and floodplains." *Id.* at 156.

FINDINGS OF FACT

The site is approximately 4.05 acres in size and zoned ML and IM. As depicted on the site plan, the subject property lies at the southeast corner of Philadelphia Road and Campbell Avenue in White Marsh. As described by the witnesses and as depicted in an aerial photograph (Petitioner's Exhibit 4), the surrounding area consists of a variety of commercial uses such as a FedEx Ground facility, car dealerships, a Lowe's Home Improvement store, and assorted fast food restaurants. As discussed below, there are four other fuel service stations within the relevant "trade area" of this site; however, none are in close proximity —as also demonstrated by the aerial photo. Of note, there are no residential uses nearby.

A. The requirements of BCZR §§ 253 and 405 concerning fuel service stations

Because there were no protestants at the hearing Mr. Rosenblatt was allowed to proffer the following. The proposed development is for a 4700 sq. ft. Wawa convenience store and 12 fuel ORDER RECEIVED FOR FILING

By Waynon

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pumps covered by canopies. The site plan fully conforms with the standards set forth in BCZR § 405.4. There is far more than the required square footage; the proposed parking exceeds requirements; the landscape transition areas are provided and all landscaping will comply with the Baltimore County Landscape Manual. Further, all setbacks, traffic flow, and parking regulations are satisfied. Finally, restrooms, water, and compressed air pumps will also be provided. At present, there are no plans for seating within or outside the Wawa store.

In its ZAC comments the DOP noted that under BCZR § 253.2.B the grant of a special exception for a fuel service station must be based on a finding that "such use will serve primarily the industrial uses and related activities in the surrounding industrial area." And DOP observes that the proposed facility will not provide truck refueling access for the nearby FedEx facility. While this is true, I'm quite sure that FedEx has its own fueling facilities. Moreover, I find that the proposed Wawa facility will indeed primarily serve the surrounding industrial area, and related activities, by providing fuel and all the accourtements of a modern fuel/food/beverage store to the employees and customers of the surrounding businesses. As noted above, there are no other such facilities in the immediate vicinity.

Petitioner's land use and planning expert, Edward Steere, produced a detailed and informative impact analysis for this proposed project. (Petitioner's Exhibit 10A, and 10B). this impact analysis clearly establishes that this proposed Wawa facility will primarily serve the surrounding industrial uses, as required by BCZR § 253.2.B. This impact analysis also establishes that there is sufficient unmet demand for fuel and services to support this additional fuel/convenience store in this proposed location. In fact, after considering the existing and projected average daily car trips in the area, as well as the four other existing fuel/convenience centers, Mr. Steere found that there is an unmet demand of over 5 million gallons of fuel per year.

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Further, even if there was opposition from any of the other four fuel centers (and there is not), that would not be a valid reason to deny the special exception because "prevention of competition is not a proper element of zoning." *Attar, supra,* 451 Md. at 290, *quoting, Kreatchman v. Ramsburg,* 224 Md. 209, 219 (1961). Finally, there are no abandoned fuel stations within a half mile of the site, so the special exception is permitted under BCZR § 405.3.

B. The requirements of BCZR § 502.1 governing Special Exceptions

In order to comply with BCZR § 502.1 a special exception request must satisfy nine separate conditions, if applicable. The record evidence in this case satisfies all applicable conditions. First, provided that the developer complies with all federal, state and county floodplain laws, the proposed special exception use will not, in my view, be detrimental to the health, safety or general welfare of the surrounding areas.

Second, the traffic engineer, Mr. Cornelius, produced a detailed traffic study based on state and county standards that establishes this proposed use will not create congestion on the surrounding roads. (Petitioner's Exhibit 7). This traffic study was approved by the SHA in December 2018 and is valid for 5 years. (Petitioner's Exhibit 8). As Cornelues explained, the vast majority of the projected traffic in the area consists of customers and employees of the existing businesses in the area. In other words, it is already present. The Wawa will merely experience "pass by" traffic; that is, motorists who are heading to these other existing locations who stop in for fuel and/or convenience items at this proposed Wawa. In addition, and as requested by the SHA, the access off of Philadelphia Road will be a single right turn only lane into the Wawa, with no egress onto Philadelphia Road. This will serve to avoid traffic hazards and congestion on that busy arterial road. The sole egress point will be on Campbell Boulevard well back from its

Date 1220

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intersection with Philadelphia Road. Just east of the proposed site Campbell Boulevard dead ends,

and there are only a couple businesses located east of this proposed site. In sum, this proposed special exception use will have minimal impacts on traffic.

I also find that this proposed Wawa will not cause a fire hazard, will not overcrowd the land, will not cause an undue concentration of population, and will not interfere with adequate provisions for schools, parks, water, sewerage, transportation or other public services. There are no basic service map issues in this vicinity.

Finally, as to the remaining § 502.1 criteria, which all relate to environmental impacts, I again find that so long as the floodplain issues are fully addressed this proposed Wawa will have no greater environmental impact at this location than it would anywhere else in the BL or IM zones.

Special Exception

Under Maryland law, a special exception use enjoys a presumption that it is in the interest of the general welfare, and therefore, valid. *Schultz v. Pritts*, 291 Md. 1 (1981). The *Schultz* standard was revisited in *Attar v. DMS Tollgate*, *LLC*, *supra*, where the court of appeals discussed the nature of the evidentiary presumption in special exception cases. The court again emphasized a special exception is properly denied only when there are facts and circumstances showing that the adverse impacts of the use at the particular location in question would be above and beyond those inherently associated with the special exception use. Based on the record evidence in this case I find that the special exception relief should be granted under these legal standards.

THEREFORE, IT IS ORDERED this <u>2nd</u> day of **July**, **2020**, by this Administrative Law Judge, that the Petition for Special Exception seeking relief from BCZR § 502.1 for a fuel service station in the ML IM zone, be and is hereby GRANTED.

The relief granted herein shall be subject to the following:

ORDER RECEIVED FOR FILING

Date Hayaran

- Petitioner may apply for necessary permits and/or licenses upon receipt of this Order. However, Petitioner is hereby made aware that proceeding at this time is at its own risk until 30 days from the date hereof, during which time an appeal can be filed by any party. If for whatever reason this Order is reversed, Petitioner would be required to return the subject property to its original condition.
- 2. Prior to issuance of Permits, Petitioner must comply with the ZAC comments submitted by DEPS and SHA; copies of which are attached hereto and made a part hereof.
- 3. As stated in the prior Order in Case No. 2019-0451-SPH, all provisions of BCC §. 32-8-207 shall be satisfied before any permits are issued or any development may proceed.

Any appeal of this decision must be made within thirty (30) days of the date of this

PAUL M. MAYHEW

Managing Administrative Law Judge

for Baltimore County

PMM:dlw

Order.

ORDER RECEIVED FOR FILING

DV





To be filed with the Department of Permits, Approvals and Inspections

To the Office of Administrative Law of Baltimore County for the property located at:

Address 5 10 Campbell Boulevard which is presently zoned ML IM

Deed References: 13490/220

Property is to be posted and advertised as prescribed by the zoning regulations.

which is presently zoned ML IM
10 Digit Tax Account # 1 5 1 4 6 5 1 4 4

Property Owner(s) Printed Name(s) Whitemarsh Associates, LLC

(SELECT THE HEARING(S) BY MARKING \underline{X} AT THE APPROPRIATE SELECTION AND PRINT OR TYPE THE PETITION REQUEST)

The undersigned legal owner(s) of the property situate in Baltimore County and which is described in the description and plan attached hereto and made a part hereof, hereby petition for:		
 a Special Hearing under Section 500.7 of the Zoning Regulations of Baltimore County, to determine whether or not the Zoning Commissioner should approve 		
 Z a Special Exception under the Zoning Regulations of Baltimore County to use the herein described property for SEE ATTACHED 		
3 a Variance from Section(s)		

of the zoning regulations of Baltimore County, to the zoning law of Baltimore County, for the following reasons: (Indicate below your hardship or practical difficulty <u>or</u> indicate below "TO BE PRESENTED AT HEARING". If you need additional space, you may add an attachment to this petition)

I, or we, agree to pay expenses of above petition(s), advertising, posting, etc. and further agree to and are to be bounded by the zoning regulations and restrictions of Baltimore County adopted pursuant to the zoning law for Baltimore County. Legal Owner(s) Affirmation: I / we do so solemnly declare and affirm, under the penalties of perjury, that I / We are the legal owner(s) of the property which is the subject of this / these Petition(s). CEIVED FOR FILING Legal Owners (Petitioners): Contract Purchaser/Lessee: SEE ATTACHED N/A SEE ATTACHED Name #2 - Type or Print rame #1 - Type or Print Name- Type or Print Signature # 2 Signature #1 Signature Mailing Addres State Mailing Address City State Zip Code Telephone # Email Address Zip Code **Email Address** Telep Attorney for Petitioner: Representative to be contacted: Adam M. Rosenblatt Adam M. Rosenblatt Name - Type or Print Name Type or Print Venable, 210 W. Pennsylvania Ave., Suite 500, Towson, MD Venable, 210 W. Pennsylvania Ave, Suite 500, Towson, MD City State Mailing Address Mailing Address City amrosenblatt@venable.com 21204 21204 410-494-6271 /410-494-6271 /amrosenblatt@venable.com Email Address Zip Code Telephone # Zip Code **Email Address** Telephone #

Do Not Schedule Dates:

Filing Date 12 15 12019

Reviewer_

ATTACHMENT TO PETITION FOR SPECIAL EXCEPTION

REQUESTED RELIEF

- 1. Special Exception for a fuel service station in the ML IM zone.
- 2. Also, for such further relief as the Administrative Law Judge may require.

ATTACHMENT TO ZONING PETITION

OWNER:

WHITEMARSH ASSOCIATES, LLC

Tack Gease

Authorized Representative

30 E. Padonia Road, Suite 500 Timonium, Maryland 21093

410-560-1502, fax 443-901-1208

ZONING PROPERTY DESCRIPTION FOR 5401 CAMPBELL BOULEVARD 15TH ELECTION DISTRICT 6TH COUNCILMANIC DISTRICT BALTIMORE COUNTY, MARYLAND

BEGINNING FOR THE SAME at a point on the southeast side right-of-way of Philadelphia Road (Maryland Route #7) at a distance of 385 +/- feet south of the centerline of the nearest improved intersecting street Campbell Boulevard:

Thence the following courses and distances:

- (1) North 30 degrees 21 minutes 40 seconds East 319.87 feet,
- (2) North 30 degrees 21 minutes 40 seconds East 60.80 feet,
- (3) South 50 degrees 21 minutes 27 seconds East 186.78 feet,
- (4) 305.48 feet along the arc of a non-tangent curve to the right having a radius of 957.00 feet subtended by a chord bearing South 41 degrees 12 minutes 46 seconds East 304.18 feet,
- (5) 30.23 feet along the arc of a non-tangent curve to the right having a radius of 385.74 feet subtended by a chord bearing South 29 degrees 49 minutes 23 seconds East 30.22 feet,
- (6) North 62 degrees 25 minutes 20 seconds East 60.00 feet;
- (7) 102.65 feet along the arc of a non-tangent curve to the right having a radius of 445.74 feet subtended by a chord bearing South 20 degrees 58 minutes 48 seconds East 102.43 feet,
- (8) South 14 degrees 22 minutes 57 seconds East 70.46 feet,
- (9) North 74 degrees 34 minutes 22 seconds West 4.39 feet,
- (10) North 74 degrees 34 minutes 22 seconds West 679.28 feet to the point of beginning.

Containing a net area of 144,708 square feet or 3.322 acres.

PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF
THE STATE OF MARYLAND, LICENSE NUMBER 16597,
EXPIRATION DATE: 08-15-2021



Debra Wiley

1-1 (0 km

From:

SGT ROBERT BLACK <1opie@comcast.net>

Sent:

Monday, June 29, 2020 10:19 PM

To:

Barbara Lukasevich; CARobinson@Venable.com; amrosenblatt@venable.com;

Administrative Hearings; DKarceski@Venable.com

Subject:

Recertification's For 2020-0046-A, 2020-0041-X And 2019-0534-X

Attachments:

Re-Cert 1 2019-0534-X.doc; Re-Cert 2 2019-0534-X.doc; Re-Cert 1 2020-0041-X.doc; Re-Cert 2 2020-0041-X.doc; Re-Cert 1 2020-0046-A.doc

CAUTION: This message from 1opie@comcast.net originated from a non Baltimore County Government or non BCPL email system. Hover over any links before clicking and use caution opening attachments.

Recertification's for 7908 New Battle Grove Road, 4313 Ebenezer Road and 5401 Campbell Boulevard. Thanks.

RECEIVED

JUN 3 0 2020

OFFICE OF ADMINISTRATIVE HEARINGS RETEINED

NEW TOTAL TELES

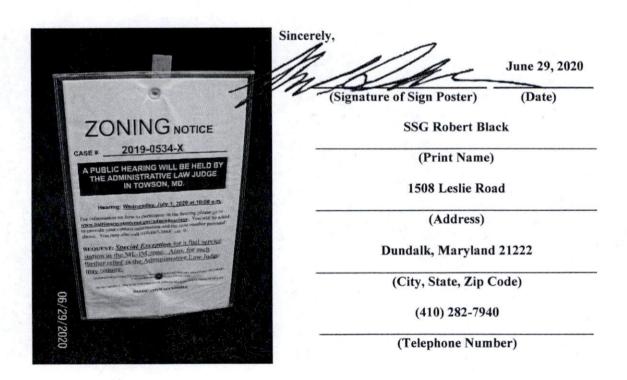
CERTIFICATE OF POSTING

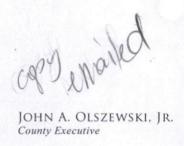
	2019-0534-X RE: Case No.:
	Petitioner/Developer:
	Whitemarsh Associates, LLC
	July 1, 2020 Date of Hearing/Closing:
Baltimore County Department of Permits, Approvals and Inspections County Office Building, Room 111 111 West Chesapeake Avenue Fowson, Maryland 21204 Attn: Kristen Lewis: Ladies and Gentlemen: This letter is to certify under the penaloposted conspicuously on the property le	RECEIVED JUN 3 0 2020 OFFICE OF ADMINISTRATIVE HEARINGS ties of perjury that the necessary sign(s) required by law were ocated at:
5401 Campbell Boulevard	SIGN 1 Recertification
The sign(s) were posted on	June 11, 2020 (Month, Day, Year)
ZONING NOTICE CASE # 2019-0534-X A PUBLIC HEARING WILL BE HELD BY THE ADMINISTRATIVE LAW JUDGE IN TOWSON, MD. Hearing: Wednesday, July 1, 2020 at 10:00 a.m. For information on love to porticipate us the bearing please 30 to 10 miles from a trust of the state of	Sincerely, June 29, 2020 (Signature of Sign Poster) (Date) SSG Robert Black (Print Name) 1508 Leslie Road (Address) Dundalk, Maryland 21222 (City, State, Zip Code) (410) 282-7940

(Telephone Number)

CERTIFICATE OF POSTING

	2019-0534-X
	RE: Case No.:
	Petitioner/Developer:
	Whitemarsh Associates, LLC
	July 1, 2020 Date of Hearing/Closing:
Baltimore County Department of	
Permits, Approvals and Inspection	S
County Office Building, Room 111	
11 West Chesapeake Avenue	RECEIVED
Towson, Maryland 21204	JUN 3 0 2020
Attn: Kristen Lewis:	OFFICE OF ADMINISTRATIVE HEARINGS
Ladies and Gentlemen:	ADMINISTRA
	enalties of perjury that the necessary sign(s) required by law were rty located at:
5401 Campbell Boulevard	SIGN 2 Recertification
The sign(s) were posted on	June 11, 2020
	(Month, Day, Year)







MICHAEL D. MALLINOFF, Director Department of Permits, Approvals & Inspections

June 9, 2020

NOTICE OF ZONING HEARING

The Administrative Law Judge of Baltimore County, by authority of the Zoning Act and Regulations of Baltimore County, will hold a virtual hearing on the property identified herein as follows:

CASE NUMBER: 2019-0534-X

5401 Campbell Boulevard

S/west corner of intersection at Philadelphia Road and Campbell Blvd.

15th Election District – 6th Councilmanic District

Legal Owners: Whitemarsh Associates, LLC

Special Exception for a fuel service station in the ML-IM zone. Also, for such further relief as the Administrative Law Judge may require.

Hearing: Wednesday, July 1, 2020 at 10:00 a.m.

For information on how to participate in the hearings please go to www.baltimorecountymd/gov/adminhearings. You will be asked to provide your contact information and the case number provided above. You may also call 410-887-3868, ext. 0.

Michael Mallinoff

A. Mun

Director

MM:kl

C: Adam Rosenblatt, 210 W. Pennsylvania Avenue, Rm. 500, Towson 21204

NOTE: (1) THE PETITIONER MUST HAVE THE ZONING NOTICE SIGN POSTED BY AN APPROVED POSTER ON THE PROPERTY BY THURSDAY, JUNE 11, 2020.

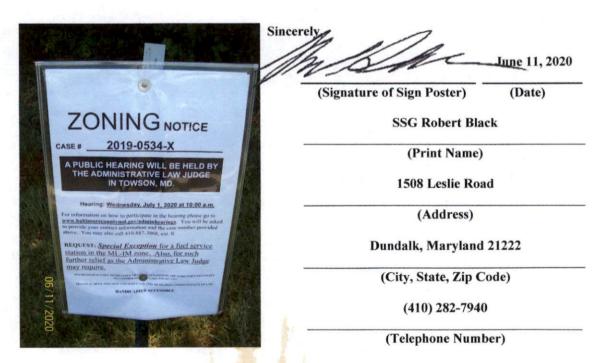
CERTIFICATE OF POSTING

	2019-0534-X RE: Case No.:
	Petitioner/Developer:
	Whitemarsh Associates, LLC
	July 1, 2020 Date of Hearing/Closing:
Baltimore County Department of Permits, Approvals and Inspections County Office Building, Room 111 111 West Chesapeake Avenue Towson, Maryland 21204	
Attn: Kristen Lewis:	
Ladies and Gentlemen:	
This letter is to certify under the penal posted conspicuously on the property le	tes of perjury that the necessary sign(s) required by law were cated at:
5401 Campbell Boulevard	SIGN 1
	June 11, 2020
The sign(s) were posted on	(Month, Day, Year)
	Sincerely, June 11, 2020
9	(Signature of Sign Poster) (Date)
ZONING NOTICE	SSG Robert Black
CASE # 2019-0534-X A PUBLIC HEARING WILL BE HELD BY THE ADMINISTRATIVE LAW JUDGE	(Print Name)
IN TOWSON, MD. Hearing: Wednesday, July 1, 2020 at 19:00 a.m.	1508 Leslie Road
For information on how to prairicipate in the hearing placing go to warms halfingerequipt and early infinitelying. You will be asked to provide your contact information and the case manter provided above. You may also sall 410-887-3868, est. 0.	(Address)
REQUEST: Special Exception for a fuel service station in the M_I-M zone. Also, for such further relief as the Administrative Law Judge flux require.	Dundalk, Maryland 21222
постандения по	(City, State, Zip Code)
	(410) 282-7940

(Telephone Number)

CERTIFICATE OF PGS FING

	2019-0534-X
	RE: Case No.:
	Petitioner/Developer:
	Whitemarsh Associates, LLC
	Date of Hearing/Closing:
Baltimore County Department of Permits, Approvals and Inspections County Office Building, Room 111 111 West Chesapeake Avenue Fowson, Maryland 21204	
Attn: Kristen Lewis:	
Ladies and Gentlemen:	
	nalties of perjury that the necessary sign(s) required by law were ty located at:
5401 Campbell Boulevard	SIGN 2
	June 11, 2020
The sign(s) were posted on	(Month, Day, Year)



LERTIFICATE OF PG5 ING

	2019-0534-X
	RE: Case No.:
	Petitioner/Developer:
	Whitemarsh Associates, LLC
	March 27, 2020 Date of Hearing/Closing:
Baltimore County Department of Permits, Approvals and Inspections County Office Building, Room 111 111 West Chesapeake Avenue Fowson, Maryland 21204	
Attn: Kristen Lewis:	
Ladies and Gentlemen:	
This letter is to certify under the per posted conspicuously on the propert	nalties of perjury that the necessary sign(s) required by law were y located at:
5401 Campbell Boulevard	SIGN 1
The sign(s) were posted on	March 7, 2020
	(Month, Day, Year)



Sincerely,

March 7, 2020

(Signature of Sign Poster) (Date)

SSG Robert Black

(Print Name)

1508 Leslie Road

(Address)

Dundalk, Maryland 21222

(City, State, Zip Code)

(410) 282-7940

(Telephone Number)

CERTIFICATE OF PGS ING

	RE: Case No.:
	Petitioner/Developer:
	Whitemarsh Associates, LLC
	March 27, 2020 Date of Hearing/Closing:
Baltimore County Department of Permits, Approvals and Inspections County Office Building, Room 111 111 West Chesapeake Avenue Fowson, Maryland 21204	
Attn: Kristen Lewis:	
Ladies and Gentlemen:	
This letter is to certify under the penaltic posted conspicuously on the property loc	es of perjury that the necessary sign(s) required by law were eated at:
5401 Campbell Boulevard S	IGN 2
Γhe sign(s) were posted on	March 7, 2020 (Month, Day, Year)
	Sincerely, March 7, 2020
	(Signature of Sign Poster) (Date)
ZONING NOTICE	SSG Robert Black
CASE #	(Print Name)
A PUBLIC HEARING WILL BE HELD BY THE ADMINISTRATIVE LAW JUDGE IN TOWSON, MD.	1508 Leslie Road
PLACE: 105 W. CHESAPEAKE AVE. TOWSON MD 21204 DATE AND TIME: Friday, March 27, 2020 at 1:30 p.m.	(Address)
Service station in the ML-IM zone. Also, for such further relief.	Dundalk, Maryland 21222
Administrative Law Judge may require.	(City, State, Zip Code)
HANDLAPED ALEXHUSE	(410) 282-7940
A SECOND PORT OF THE PROPERTY	(Telephone Number)

The Daily Record

200 St. Paul Place Suite 2480 Baltimore, Maryland 21202 1 (443) 524-8100 www.thedailyrecord.com

PUBLISHER'S AFFIDAVIT

We hereby certify that the annexed advertisement was published in The Daily Record, a daily newspaper published in the State of Maryland 1 times on the following dates:

3/6/2020

Order #: Case #:

11865450 2019-0534-X

Description:

NOTICE OF ZONING HEARING - CASE NUMBER: 2019-0534-X

Darlene Miller, Public Notice Coordinator (Representative Signature)

V.

Du

NOTICE OF ZONING HEARING

The Administrative Law Judge of Baltimore County, by authority of the Zoning Act and Regulations of Baltimore County, will hold a public hearing in Towson, Maryland on the property identified herein as follows: CASE NUMBER: 2019-0534-X

5401 Campbell Boulevard

S/west corner of intersection at Philadelphia Road and Campbell Blvd.

15th Election District - 6th Councilmanic District

Legal Owners: Whitemarsh Associates, LLC
Special Exception for a fuel service station in the ML-IM zone. Also, for such
further relief as the Administrative Law Judge may require.

Hearing: Friday, March 27, 2020 at 1:30 p.m. in Room 205, Jefferson Building, 105 West Chesapeake Avenue, Towson 21204

Michael Mall inoff

Director of Permits, Approvals and Inspections for Baltimore County NOTES: (1) HEARINGS ARE HANDICAPPED ACCESSIBLE, FOR SPECIAL ACCOMODATIONS, PLEASE CONTACT THE ADMINISTRATIVE HEARINGS OFFICE AT 410-887-3868.
(2) FOR INFORMATION CONCERNING THE FILE AND/OR HEARING,

CONTACT THE ZONING REVIEW OFFICE AT 410-887-3391.

CERTIFICATE OF POSTING

	RE: Case No.:	2019-0534-)
	Petitioner/Developer:	
	Whitemarsl	Associates, LL(
	Date of Hearing/Closing:	March 27, 2020
Baltimore County Department of Permits, Approvals and Inspections County Office Building, Room 111 111 West Chesapeake Avenue Towson, Maryland 21204		
Attn: Kristen Lewis:	a a	
Ladies and Gentlemen:		
This letter is to certify under the penalties of posted conspicuously on the property located	perjury that the necessary sign(s) re at:	quired by law were
5401 Campbell Boulevard SIC	GN 1	
ine sign(s) were posted on	farch 7, 2020 (Month, Day, Year)	
Sin	icerely,	<u> March</u> 7, 2020
Θ.	(Signature of Sign Poster)	(Date)
ZONING romai	SSG Robert Blac	k
2019-0534-X	(Print Name)	 .
A PUBLIC HEARING WILL BE HELD BY THE ADMINISTRATIVE LAW JUDGE IN TOWSON, MD.	1508 Leslie Road	i '
DEL PRODUCE INCOME TO THE PRODUCE OF THE PRODUCE INCOME IN THE PRODUCE IN THE PRO	(Address)	
A community of the control of the co	Dundalk, Maryland 2	21222
S. C. S.	(City, State, Zip Co	de)
	(410) 282-7940	
	(Telephone Numbe	r)

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CERTIFICATE OF POSTING

1	RE: Case No.:	2019-0534-X
	Petitioner/Developer:	
	Whitemarsh	Associates, LLC
	Date of Hearing/Closing:	March 27, 2020
Baltimore County Department of Permits, Approvals and Inspections County Office Building, Room 111 I11 West Chesapeake Avenue Fowson, Maryland 21204		·
Attn: Kristen Lewis:		
Ladies and Gentlemen:		
This letter is to certify under the penalties of perj posted conspicuously on the property located at:_		equired by law were
5401 Campbell Boulevard SIGN	N 2	
	rch 7, 2020	
The sign(s) were posted on(M	lonth, Day, Year)	
Since	rely,	March 7, 2020
	(Signature of Sign Poster)	(Date)
ZONING Notice	SSG Robert Bl	lack
2019-0534-X	(Print Name)
A PUBLIC HEARING WILL BE HELD BY THE ADMINISTRATIVE LAW JUDGE IN TOWSON, MD.	1508 Leslie Ro	oad
PLACE DS W. CHESAPEANE AVE TOWSON MD 21204 DATE AND TIMES ELSOY, Warch 27/2020 at 1-30 p.m.	(Address)	
works. Special Exception for a fuel cruice spation in the ME-IM zone Alva for such further relief as the	Dundalk, Marylan	d 21222
Administrative Law Judge may we likewise!	(City, State, Zip	Code)
D. Concernation of the Con	(410) 282-79	40
	(Telephone Nur	nber)



JOHN A. OLSZEWSKI, JR. County Executive

MICHAEL D. MALLINOFF, Director

Department of Permits,

Approvals & Inspections

February 25, 2020

NOTICE OF ZONING HEARING

The Administrative Law Judge of Baltimore County, by authority of the Zoning Act and Regulations of Baltimore County, will hold a public hearing in Towson, Maryland on the property identified herein as follows:

CASE NUMBER: 2019-0534-X

5401 Campbell Boulevard

S/west corner of intersection at Philadelphia Road and Campbell Blvd.

15th Election District – 6th Councilmanic District Legal Owners: Whitemarsh Associates, LLC

Special Exception for a fuel service station in the ML-IM zone. Also, for such further relief as the Administrative Law Judge may require.

Hearing: Friday, March 27, 2020 at 1:30 p.m. in Room 205, Jefferson Building, 105 West Chesapeake Avenue, Towson 21204

Michael Mallinoff Director

MM:kI

C: Adam Rosenblatt, 210 W. Pennsylvania Avenue, Rm. 500, Towson 21204

NOTES: (1) THE PETITIONER MUST HAVE THE ZONING NOTICE SIGN POSTED BY AN APPROVED POSTER ON THE PROPERTY BY SATURDAY, MARCH 7, 2020.

- (2) HEARINGS ARE HANDICAPPED ACCESSIBLE; FOR SPECIAL ACCOMMODATIONS PLEASE CALL THE ADMINISTRATIVE HEARINGS OFFICE AT 410-887-3868.
- (3) FOR INFORMATION CONCERNING THE FILE AND/OR HEARING, CONTACT THE ZONING REVIEW OFFICE AT 410-887-3391

TO: THE DAILY RECORD

Friday, March 6, 2020 - Issue

Please forward billing to:

Adam Rosenblatt

Venable

210 W. Pennsylvania Avenue, Ste. 500

Towson, MD 21204

410-494-6271

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RE: PETITION FOR SPECIAL EXCEPTION * 5401 Campbell Boulevard; SW of intersection of Philadelphia Road and Campbell Blvd * 15th Election & 6th Councilmanic Districts Legal Owner(s): Whitemarsh Associates, LLC *

BEFORE THE OFFICE

OF ADMINSTRATIVE

HEARINGS FOR

BALTIMORE COUNTY

2019-534-X

ENTRY OF APPEARANCE

Petitioner(s)

Pursuant to Baltimore County Charter § 524.1, please enter the appearance of People's Counsel for Baltimore County as an interested party in the above-captioned matter. Notice should be sent of any hearing dates or other proceedings in this matter and the passage of any preliminary or final Order. All parties should copy People's Counsel on all correspondence sent and all documentation filed in the case.

RECEIVED
DEC 11 2019

Peter Max Zummerman

PETER MAX ZIMMERMAN
People's Counsel for Baltimore County

CAROLE S. DEMILIO Deputy People's Counsel Jefferson Building, Room 204 105 West Chesapeake Avenue Towson, MD 21204

Cante S Vemlio

(410) 887-2188

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that on this 11th day of December, 2019, a copy of the foregoing Entry of Appearance was mailed to Adam Rosenblatt, Esquire, 210 W. Pennsylvania Avenue, Suite 500, Towson, Maryland 21204, Attorney for Petitioner(s).

Peter Max Zummegman

PETER MAX ZIMMERMAN
People's Counsel for Baltimore County



JOHN A. OLSZEWSKI, JR. County Executive

MICHAEL D. MALLINOFF, Director

Department of Permits,

Approvals & Inspections

June 22, 2020

Adam M. Rosenblatt, Venable 210 W. Pennsylvania Ave Suite 500 Towson MD 21204

RE: Case Number: 2019-0534-X, 5401 Campbell Boulevard

To Whom It May Concern:

The above referenced petition was accepted for processing **ONLY** by the Bureau of Zoning Review, Department of Permits, Approvals, and Inspection (PAI) on December 05, 2019. This letter is not an approval, but only a **NOTIFICATION**.

The Zoning Advisory Committee (ZAC), which consists of representatives from several approval agencies, has reviewed the plans that were submitted with your petition. All comments submitted thus far from the members of the ZAC are attached. These comments are not intended to indicate the appropriateness of the zoning action requested, but to ensure that all parties (zoning commissioner, attorney, petitioner, etc.) are made aware of plans or problems with regard to the proposed improvements that may have a bearing on this case. All comments will be placed in the permanent case file.

If you need further information or have any questions, please do not hesitate to contact the commenting agency.

Ce Cery truly yours.

W. Carl Richards, Jr. Supervisor, Zoning Review

WCR/kl

Enclosures

c: People's Counsel

BALTIMORE COUNTY, MARYLAND

Inter-Office Correspondence



TO:

Hon. Paul M. Mayhew; Managing Administrative Law Judge

Office of Administrative Hearings

FROM:

Jeff Livingston, Department of Environmental Protection and

Sustainability (EPS) - Development Coordination

DATE:

December 13, 2019

SUBJECT:

DEPS Comment for Zoning Item

2019-0534-X

Address

5401 Campbell Blvd.

(Whitemarsh Associates, LLC

Property)

Zoning Advisory Committee Meeting of December 16, 2019.

__X__ The Department of Environmental Protection and Sustainability offers the following comments on the above-referenced zoning item:

X Development of the property must comply with the Regulations for the Protection of Water Quality, Streams, Wetlands and Floodplains (Sections 33-3-101 through 33-3-120 of the Baltimore County Code).

Additional Comments:

- Development of this site would require a variance to the Law for the Protection of Water Quality Streams, Wetlands and Floodplains. Any such buffer variance request must clearly meet the requirements of Section 33-3-106 and the legislative intent outlined in Section 33-3-103. Given the amount of impact to forested nontidal wetlands and Forest Buffer Easement proposed on the plan accompanying the zoning petition, the development proposal does not appear to meet the variance criteria.
- 2. This project will require presentation to the Development Review Committee (DRC) for determination of plan process prior to issuance of any permits for grading or construction.

Reviewers: Glenn Shaffer & Steve Ford

BALTIMORE COUNTY, MARYLAND

Inter-Office Correspondence





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Reviewers:

Glenn Shaffer & Steve Ford



Larry Hogan
Governor

Boyd K. Rutherford
Lt. Governor

Pete K. Rahn
Secretary

Gregory Slater
Administrator

Date: 12/11/19

Ms. Kristen Lewis
Baltimore County Department of
Permits, Approvals and Inspections
County Office Building, Room 109
111 West Chesapeake Avenue
Towson, Maryland 21204

Dear Ms. Lewis:

We have reviewed the site plan to accompany the petition for variance on the subject of the Case number referenced below, which was received on 12/11/19. A field inspection and internal review reveals that an entrance onto 12/11/19 consistent with current State Highway Administration guidelines is required. As a condition of approval for 2019-0534-X, Case Number 2019-0534-X.

Special Exception of the Case number of the Case Number 2019-0534-X.

Whitemous Afsociates, LCC 5401 Compbell Box levieve.

The applicant must contact the State Highway Administration to obtain an entrance permit. Should you have any questions regarding this matter feel free to contact Richard Zeller at 410-229-2332 or 1-866-998-0367 (in Maryland only) extension 2332, or by email at (rzeller@mdot.maryland.gov).

Sincerely,

Wendy Wolcott, P.L.A.

Metropolitan District Engineer

Maryland Department of Transportation

State Highway Administration

District 4 - Baltimore and Harford Counties

WW/RAZ

cc: Mr. Michael Pasquariello, Utility Engineer, SHA

BALTIMORE COUNTY, MARYLAND

Inter-Office Correspondence





TO:

Hon. Paul M. Mayhew; Managing Administrative Law Judge

Office of Administrative Hearings

FROM:

Jeff Livingston, Department of Environmental Protection and

Sustainability (EPS) - Development Coordination

DATE:

December 13, 2019

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2019-0534**-**X

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(Whitemarsh Associates, LLC

Property)

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Reviewers:

Glenn Shaffer & Steve Ford



Larry Hogan
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Lt. Governor
Pete K. Rahn
Secretary
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Administrator

Date: 12/11/19

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Case Number 2019-0534×

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Sincerely,

Wendy Wolcott, P.L.A.

Metropolitan District Engineer

Maryland Department of Transportation

State Highway Administration.

District 4 - Baltimore and Harford Counties

WW/RAZ

cc: Mr. Michael Pasquariello, Utility Engineer, SHA

BALTIMORE COUNTY, MARYLAND INTER-OFFICE MEMORANDUM

TO:

Michael D. Mallinoff

DATE: 6/30/2020

RECEIVED

OFFICE OF ADMINISTRATIVE HEARINGS

Director, Department of Permits, Approvals and Inspections

FROM:

C. Pete Gutwald

Director, Department of Planning

SUBJECT: ZONING ADVISORY COMMITTEE COMMENTS (Amended)

Case Number: 19-534

INFORMATION: Property Address:

5401 Campbell Boulevard

Petitioner:

Whitemarsh Associates, LLC

Zoning:

ML-IM

Requested Action:

Special Exception

The Department of Planning has reviewed the petition for a special exception for a fuel station and convenience store.

A site visit was conducted on September 30, 2019. The site sits at the southeast intersection of Campbell Boulevard and Philadelphia Roads. To the north of the site is a commercial and office complex. To the west are commercial uses. It is nearly entirely vegetated with forest along the southern portion of the site, wetlands and extensive floodplain covering the majority of the site. It is bounded on the south by the floodplain and forested buffer to a tributary to White Marsh Run that drains into Bird River. In summary the site has particularly extensive environmental conditions and is bordered to the north and west by intensively developed commercial and industrial uses.

The Department did not support the ZAC 19-453 request for a waiver to floodplain on the basis of compliance with the Baltimore County Master Plan 2020 sustainability goals – specifically: "Continue to protect, enhance, and restore degraded waterways to meet water quality standards and permit requirements. (1) Continue to enforce development regulations "Continue to enforce development regulations for the protection of water quality, streams, wetlands, and floodplains" (Page 156).

The petitioner has not demonstrated the proposed development of the convenience store and gas pumps meets Baltimore County Zoning Regulations (BCZR 253.1.B.1.and BCZR 405 Fuel Service Stations). BCZR Section 253.2.B. states "or in an I. M. District; provided, further, that it is shown that any such use will service primarily the industrial uses and related activities in the surrounding industrial area". The nearest industrial use is a Fed Ex trucking operation that has an access directly across from the site. The proposed design does not provide for truck access and refueling to serve this use or other similar industrial uses that might require fueling. No information has been submitted by the Petitioner to indicate how the use "will service primarily the industrial uses and related activities..." of the area. Relevant to this issue Whitemarsh Associates, LLC submitted a 2020 Comprehensive Zoning Map Process petition Issue 6-025 requesting a change in zoning from ML-IM to BM-IM.

In the event that the petition is approved the Department has the following design comments:

1. Relocate the dumpster away from Philadelphia Road to an internal location.

एक्ष्माम् अनुन

SHIPLES IN TATEMING

Date: 6/19/2020

Page 2

Subject: ZAC # 19-534

2. Design the canopy and store to be compatible with adjacent uses and provide documentation of the basis for the design (BCZR 405.4.C.1.e.) Submit a design plan for the canopy and store with accompanying illustrations

For further information concerning the matters stated herein, please contact Wally Lippincott at 410-887-3480.

Prepared by:

Krystle Patchak

Division Chief:

enifer G. Nugent

CPG/JGN/kma/

e: Wally Lippincott
James Hermann, R.L.A., Department of Permits, Approvals and Inspections
Adam Rosenblatt, Venable LLP
Office of the Administrative Hearings
People's Counsel for Baltimore County



Larry Hogan Governor Boyd K. Rutherford Lt. Governor Pete K. Rahn Secretary Gregory Slater

Date: 12/11/19

Ms. Kristen Lewis
Baltimore County Department of
Permits, Approvals and Inspections
County Office Building, Room 109
111 West Chesapeake Avenue
Towson, Maryland 21204

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Special Exception Whitemansh Associates, LLC 5401 Compbell Barberland.

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Sincerely,

Wendy Wolcott, P.L.A.

Metropolitan District Engineer

Maryland Department of Transportation

State Highway Administration

District 4 - Baltimore and Harford Counties

WW/RAZ

cc: Mr. Michael Pasquariello, Utility Engineer, SHA

Donna Mignon

From:

Rosenblatt, Adam M. < AMRosenblatt@Venable.com>

Sent:

Monday, June 29, 2020 12:38 PM

To:

Donna Mignon

Cc:

Administrative Hearings

Subject:

RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

Attachments:

Exhibit 3_ Richardson Resume(49466214.1).pdf; Exhibit 2_ Attar Case(49466204.1).pdf; Exhibit 1_ Site Plan(49466160.1).pdf; Exhibit 4 Aerial Photograph.PNG; Exhibit 5A-E(49467505.1).pdf; Exhibit 9_ Ed Steere Resume(49466693.1).pdf; Exhibit 8_ SHA Approval of Traffic Study(49466337.1).pdf; Exhibit 7_ Traffic Study(49466267.1).pdf; Exhibit 6_ Mickey Resume(49466242.1).doc; Exhibit 10A Executive Summary.pdf; Exhibit

10B Full Report.pdf; Exhibit 11 Wawa Aerial.jpg

CAUTION: This message from AMRosenblatt@venable.com originated from a non Baltimore County Government or non BCPL email system. Hover over any links before clicking and use caution opening attachments.

Donna, here are the Exhibits for this hearing:

- 1. Site Plan
- Attar case
- 3. Rick Richardson Resume
- 4. Aerial photograph
- 5. Site photos
- 6. Mickey Cornelius Resume
- 7. Traffic Impact Analysis
- SHA Approval Letter
- 9. Ed Steere Resume
- 10. Ed Steere Report
 - a. Executive Summary
 - b. Full Report
- 11. Wawa Exhibit

Adam M. Rosenblatt, Esq. | Venable LLP t 410.494.6271 | f 410.821.0147 | m 410.294.9430 210 W. Pennsylvania Avenue, Suite 500, Towson, MD 21204

AMRosenblatt@Venable.com | www.Venable.com

From: Donna Mignon <dmignon@baltimorecountymd.gov>

Sent: Monday, June 29, 2020 11:17 AM

To: Rosenblatt, Adam M. <AMRosenblatt@Venable.com>

Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

Caution: External Email

Hi Adam,

No problem. Thank you.

Donna

RECEIVED

JUN 2 9 2020

OFFICE OF ADMINISTRATIVE HEARINGS From: Rosenblatt, Adam M. < AMRosenblatt@Venable.com >

Sent: Monday, June 29, 2020 11:16 AM

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Just waiting on one more exhibit and I will send them all to you. Should be early afternoon. Thank you again.

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From: Donna Mignon < dmignon@baltimorecountymd.gov>

Sent: Friday, June 26, 2020 11:44 AM

To: Rosenblatt, Adam M. < AMRosenblatt@Venable.com >

Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

Caution: External Email

Hi Adam,

Thank you.

Have a great weekend.

Donna

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Hi Donna,

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Thank you and have a nice weekend.

Adam M. Rosenblatt, Esq. | Venable LLP t 410.494.6271 | f 410.821.0147 | m 410.294.9430 210 W. Pennsylvania Avenue, Suite 500, Towson, MD 21204

AMRosenblatt@Venable.com | www.Venable.com

From: Donna Mignon < dmignon@baltimorecountymd.gov>

Sent: Tuesday, June 23, 2020 11:49 AM

To: Rosenblatt, Adam M. < AMRosenblatt@Venable.com> Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m. **Caution: External Email** Thank you so much. From: Rosenblatt, Adam M. < AMRosenblatt@Venable.com > Sent: Tuesday, June 23, 2020 11:47 AM To: Donna Mignon dmignon@baltimorecountymd.gov Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m. CAUTION: This message from AMRosenblatt@venable.com originated from a non Baltimore County Government or non BCPL email system. Hover over any links before clicking and use caution opening attachments. Absolutely. My plan is to email everything on Friday. Adam M. Rosenblatt, Esq. | Venable LLP t 410.494.6271 | f 410.821.0147 | m 410.294.9430 210 W. Pennsylvania Avenue, Suite 500, Towson, MD 21204 AMRosenblatt@Venable.com | www.Venable.com From: Donna Mignon dmignon@baltimorecountymd.gov Sent: Tuesday, June 23, 2020 11:31 AM To: Rosenblatt, Adam M. < AMRosenblatt@Venable.com > Subject: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m. Caution: External Email Good Morning Adam, Just a friendly reminder, that we need any exhibits you wish to present at the hearing emailed to us at : administrativehearings@baltimorecountymd.gov Thank you so much. Have a great day. Donna Mignon, Legal Assistant **Baltimore County Office of Administrative Hearings** 105 West Chesapeake Avenue, Suite 103 Towson, Maryland 21204 410-887-3868

CONNECT WITH BALTIMORE COUNTY								
www.baltimorecount	ymd.gov			-				

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Monday, June 29, 2020 12:44 PM

To:

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Subject:

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Yes, we have 4 potential witnesses registered (Rick Richardson, Christopher Hoffmann, Mickey Cornelius, and Ed Steere).

Adam M. Rosenblatt, Esq. | Venable LLP t 410.494.6271 | f 410.821.0147 | m 410.294.9430 210 W. Pennsylvania Avenue, Suite 500, Towson, MD 21204

AMRosenblatt@Venable.com | www.Venable.com

From: Administrative Hearings <administrativehearings@baltimorecountymd.gov>

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Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

Caution: External Email

Thank you Adam.

Did you give Kristen any witnesses names and emails, that need to speak at your hearing?

Donna Mignon, Legal Assistant
Baltimore County Office of Administrative Hearings
105 West Chesapeake Avenue, Suite 103
Towson, Maryland 21204
410-887-3868

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From: Donna Mignon < dmignon@baltimorecountymd.gov >							
Sent: Tuesday, June 23, 2020 11:31 AM							
To: Rosenblatt, Adam M. < AMRosenblatt@Venable.com >							
Subject: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.							
Caution: External Email							
Good Morning Adam, Just a friendly reminder, that we need any exhibits you wish to present at the hearing emailed to us at administrativehearings@baltimorecountymd.gov							
Thank you so much. Have a great day.							
Donna Mignon, Legal Assistant Baltimore County Office of Administrative Hearings 105 West Chesapeake Avenue, Suite 103 Towson, Maryland 21204 410-887-3868							
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152 A 3d 765

451 Md. 272 Court of Appeals of Maryland.

Afshin ATTAR, et al.

v.

DMS TOLLGATE, LLC, et al.

No. 12 Sept. Term 2016

January 23, 2017

Synopsis

Background: Protesters petitioned for judicial review of decision of county board of appeals granting, with conditions, application for special exception to zoning regulation for construction of fuel service station with convenience store with sales area larger than 1,500 square feet in land zoned as business local with automotive services. The Circuit Court, Baltimore County, Colleen Cavanaugh, J., affirmed, and protesters appealed. The Court of Special Appeals, 2015 WL 9461754, affirmed. Certiorari review was granted.

Holdings: The Court of Appeals, Hotten, J., held that:

- [1] evidence presented to board of appeals was sufficiently precise to establish relevant neighborhood that would be impacted by grant of special exception;
- [2] board did not impermissibly shift burden of persuasion to protesters;
- [3] opinion of protesters' expert in traffic engineering was insufficient to show adverse effects of special exception use above and beyond those inherently associated with proposed use; and
- [4] whether one of five gas stations located within one-mile radius of proposed gas station and convenience might go out of business was not relevant to whether special exception use would have adverse economic impact as it related to general welfare.

Affirmed.

Procedural Posture(s): On Appeal.

West Headnotes (14)

[1] Administrative Law and Procedure Decision reviewed

Administrative Law and Procedure - Review using standard applied below

An appellate court reviews the decision of an administrative agency under the same statutory standards as the circuit court, meaning the appellate court reevaluates the decision of the agency, not the decision of the lower court.

1 Cases that cite this headnote

PROTUTONER'S

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NO.

[2] Administrative Law and Procedure - Conclusions of law in general

Administrative Law and Procedure Substantial evidence

In reviewing the decision of an administrative agency, the court's role is limited to determining if there is substantial evidence in the record as a whole to support the agency's findings and conclusions, and to determine if the administrative decision is premised upon an erroneous conclusion of law.

2 Cases that cite this headnote

[3] Administrative Law and Procedure - Substantial evidence

"Substantial evidence" that will support an administrative agency's findings of fact and conclusions of law is such relevant evidence as a reasonable mind might accept as adequate to support a conclusion.

3 Cases that cite this headnote

[4] Administrative Law and Procedure - Review for correctness or error

Administrative Law and Procedure Substantial evidence

A reviewing court may not substitute its judgment for that of the county board of appeals unless the agency's conclusions were not supported by substantial evidence or were premised on an error of law.

I Cases that cite this headnote

[5] Zoning and Planning & Auto service/retail store combinations

Evidence presented to county board of appeals was sufficiently precise to establish relevant neighborhood that would be impacted by grant of special exception for construction and operation of fuel service station with convenience store containing sales area larger that 1,500 feet, in property zoned as business local with automotive services; board referenced testimony concerning roads and intersections surrounding subject property, it referenced testimony regarding commercial development surrounding property, it referenced exhibit depicting five gas stations within one-mile radius of proposed site, and it referenced expert testimony regarding flood plain surrounding property.

[6] Zoning and Planning - Findings, reasons, conclusions, minutes or records

The description of the neighborhood impacted by a special exception to a zoning regulation must be precise enough to enable a party or appellate court to comprehend the area that the county board of appeals considered, and in this context, precision is determined through a review of the evidence in the record describing the impact on the surrounding properties, as referenced within the board's opinion.

[7] Zoning and Planning - Presumptions and burden of proof

Zoning and Planning & Variances and exceptions

A special exception to a zoning regulation is presumed to be in the interest of the general welfare, and therefore a special exception enjoys a presumption of validity.

3 Cases that cite this headnote

[8] Zoning and Planning Presumptions and burden of proof

County board of appeals did not impermissibly shift to protesters burden of persuasion on property owners' application for special exception to zoning regulation to construct fuel service station with convenience store containing sales area larger that 1,500 feet, in property zoned as business local with automotive services, when board ruled that protesters' evidence was insufficient to show adverse effects of special exception above and beyond those inherently associated with such use, and thus, that protesters' evidence was insufficient to rebut presumption of validity of special exception. Md. Rule 5-301(a).

[9] Zoning and Planning - Presumptions and burden of proof

Both the burden of production and the burden of persuasion on the issue of whether an application for a special exception to a zoning regulation should be granted fall on the applicant, whereby the applicant must persuade the county board of appeals by a preponderance of the evidence that the special exception will conform to all applicable requirements.

4 Cases that cite this headnote

[10] Evidence - Operation and Effect

A presumption does not necessarily shift the burden of persuasion; rather, it merely satisfies the burden of going forward on a fact presumed and may satisfy the burden of persuasion if no rebuttal evidence is introduced by the other side.

I Cases that cite this headnote

[11] Evidence Operation and Effect

The party favored by a presumption is not relieved of the requirement of presenting evidence to establish a prima facie case as to those issues for which he bears the burden of proof, if the adverse party sufficiently rebuts the presumption; in such instances, the presumption merely enhances the probative value of other evidence adduced.

1 Cases that cite this headnote

[12] Zoning and Planning - Presumptions and burden of proof

Opinion of expert in traffic engineering that proposed use of land on application for special exception to zoning regulation for construction and operation of fuel service station with convenience store containing sales area larger that 1,500 feet, in property zoned as business local with automotive services, would result in potential congestion and traffic difficulty on road as result of turning fuel delivery trucks was insufficient to show adverse effect above and beyond those inherently associated with proposed use, and thus, was insufficient to rebut presumption in favor of validity of special exception.

[13] Zoning and Planning 🕞 Variances and exceptions in general

There was no error for Court of Appeals to review in decision of county board of appeals granting, with conditions, application for special exception to zoning regulation for construction of fuel service station with convenience store containing sales area larger that 1,500 feet, in property zoned as business local with automotive services, with respect to evidence of possibility of negative impact of special exception use on floodplain, where board made no factual conclusion on issue but ruled that possibility of negative impact on floodplain would be determined separately by state and federal authorities, and conditioned grant of special exception upon determination that there would be no adverse effect upon safety and welfare of citizenry.

[14] Zoning and Planning Presumptions and burden of proof

Whether one of five gas stations located within one-mile radius of proposed fuel service station with convenience store might go out of business was not relevant to whether special exception to zoning regulation to allow for construction of station and convenience store in property zoned as business local with automotive services would have adverse economic impact as it related to general welfare, and thus, did not rebut presumption of validity of special exception.

**767 Circuit Court for Baltimore County, Maryland, Case No. 03-C-14007926, Colleen Cavanaugh, Judge

Attorneys and Law Firms

- G. Macy Nelson (Law Office of G. Macy Nelson, LLC, Towson, MD), on brief, for petitioners.
- G. Scott Barhight (Adam D. Baker, Whiteford, Taylor & Preston, LLP, Towson, MD), on brief, for respondent.

Peter Max Zimmerman, Esq., Carole S. DeMilio, Esq., Towson, MD, for amicus curiae for People's Counsel for Baltimore County.

Argued before Barbera, C.J., Greene, Adkins, McDonald, Watts, Hotten, Getty, JJ.

Opinion

Hotten, J.

*276 In October 2012, William and Mary Groff, the property owners, and Respondent, DMS Tollgate, LLC (collectively "Applicants") applied for a Petition for a Special Exception of the Baltimore County Zoning Regulations ("BCZR"), to operate a fuel service station with a convenience store containing a sales area larger than 1,500 square feet. The petition requested that Tollgate be permitted to construct a Wawa on an 8.51 acre property known as 10609 Reisterstown Road ("the property"). The property is zoned as BL-AS, or Business Local with Automotive Services. ¹ The property is bordered by Reisterstown Road, Groff Lane, and the Gwynns Falls stream.

This zoning was obtained through the 2012 Baltimore County Comprehensive Zoning Map Process after extensive discussions between Tollgate, several county agencies and community groups. In exchange for the community groups granting the rezoning request, on August 28, 2012, Tollgate entered into a "DECLARATION OF COVENANTS AND AGREEMENTS," which required that the property be developed "in a manner consistent with and compl[e]mentary to the historic character of" the adjacent property.

The Office of Administrative Hearings ("OAH") conducted a hearing in which the Applicants appeared in support of the *277 grant of the Special Exception. Petitioners in this Court, Afshin Attar, Ashkan Rahmanattar, Malik Imran, and Perry S. Crowl (collectively "Protestants") attended **768 in opposition. Witnesses for the Protestants testified at the hearing as to how the proposed Wawa would cause traffic congestion, a harmful environmental impact, and a detrimental effect upon the economic stability of the neighborhood. In its Opinion and Order dated October 31, 2013, OAH found that "these are impacts that are inherent in the operation of a gasoline/convenience store[,]" and granted the Petition with conditions. ²

The Opinion and Order of the Administrative Law Judge stated:
The relief granted herein shall be subject to the following:

- 1. [Applicants] may apply for appropriate permits and be granted same upon receipt of this Order; however, [Applicants] are hereby made aware that proceeding at this time is at their own risk until such time as the 30-day appellate process from this Order has expired. If, for whatever reason, this Order is reversed, [Applicants] would be required to return, and be responsible for returning, said property to its original condition.
- 2. Unless extended by subsequent order, the special exception granted herein must be utilized within two (2) years from the date of this Order.
- 3. The "special exception area" shall include the 1.70 acre (74,088 SF) area of the proposed Wawa service station and convenience store, but shall not include the 0.43 acre (18,628 SF) area of proposed relocated Groff Lane.
- 4. Approval by Baltimore County of a landscape and light plan for the site.
- 5. Approval by county, state and federal authorities of the floodplain study and/or floodplain map amendment or revision as sought by [Applicants].
- 6. Approval and issuance of all necessary permits by the State Highway Administration.

The Protestants appealed to the Board of Appeals for Baltimore County ("the Board"), which approved the conditions for the Special Exception after a *de novo* evidentiary hearing. The Board noted that Tollgate

*278 decided to proceed with the request for a Special Exception before receiving County approval for the proposed road relocation and approval for the flood plain relocation from [the Federal Emergency Management Agency]. Under the BCZR this approach is not prohibited and therefore the grant of a Special Exception has no bearing on the approval o[r] non-approval of the foregoing matters.

The Board granted the Special Exception "with the same conditions as those imposed by the Administrative Law Judge below."

The Protestants appealed for judicial review in the Circuit Court for Baltimore County. The circuit court found that the Board's findings: "were both reasonable and supported by substantial evidence in the record[]" and "were premised upon the proper application and conclusions of law[.]" The circuit court accordingly affirmed the decision of the Board on December 19, 2014. Thereafter, the Protestants appealed to the Court of Special Appeals. In an unreported opinion dated December 28, 2015, the Court of Special Appeals affirmed the decision of the circuit court. We granted the Petition for Writ of Certiorari filed by the Protestants. 447 Md. 297, 135 A.3d 416 (2016). Protestants present two questions for our review:

- 1. Whether Maryland's special exception jurisprudence requires the Baltimore County Board of Appeals to define the boundaries of the neighborhood of the proposed special exception before approving that special exception and, if so, whether the Board of Appeals' opinion satisfied Maryland's minimum requirements for articulating the facts found regarding the neighborhood's boundaries.
- 2. Whether the Court of Special Appeals erred when it held that the Applicant **769 met its burden of proof, as articulated by the concurring opinion in *People's Counsel for Baltimore County, et al. v. Loyola College in Maryland*, 406 Md. 54, [956 A.2d 166] (2008).

We conclude that the Board's description of the neighborhood impacted by the special exception was precise enough to enable a party or appellate court to comprehend the area that the Board considered.

*279 Secondly, we conclude that while an applicant for a special exception bears both the burden of persuasion and production, the coexistent presumption in favor of an applicant is not a mutually exclusive evidentiary burden. The Board correctly determined that the Protestants failed to sufficiently rebut the presumption of validity of a special exception. Accordingly, we affirm the judgment of the Court of Special Appeals.

Standard of Review

[1] [2] [3] [4] An appellate court reviews the decision of an administrative agency "under the same statutory standards as the [c]ircuit [c]ourt," meaning "we reevaluate the decision of the agency, not the decision of the lower court." Gigeous v. Eastern Correctional Inst., 363 Md. 481, 495–96, 769 A.2d 912, 921 (2001) (citation and footnote omitted). In reviewing the decision of an agency, our role "is limited to determining if there is substantial evidence in the record as a whole to support the agency's findings and conclusions, and to determine if the administrative decision is premised upon an erroneous conclusion of law." United Parcel Serv., Inc. v. People's Counsel, 336 Md. 569, 577, 650 A.2d 226, 230 (1994). Substantial evidence is "such relevant evidence as a reasonable mind might accept as adequate to support a conclusion." Md. State Police v. Warwick Supply & Equip. Co., Inc., 330 Md. 474, 494, 624 A.2d 1238, 1248 (1993) (citation omitted). Further, we may not substitute our judgment for that of the Board of Appeals unless the agency's conclusions were not supported by substantial evidence or were premised on an error of law. Stansbury v. Jones, 372 Md. 172, 182, 184, 812 A.2d 312, 318, 319 (2002).

Discussion

I. The Board's Opinion Referenced Ample Evidence of Record Which Sufficiently Enables Us to Comprehend the Area the Board Considered. Thus, the Board Sufficiently Defined the Neighborhood.

[5] The Protestants argue that the Board erred when it failed to define the boundaries of the Wawa's neighborhood. In *280 support, Protestants urge that an applicant for a special exception must establish the boundaries of the neighborhood, and the zoning tribunal's written decision must satisfy Maryland law's minimum requirements for articulating the facts found regarding the neighborhood's boundaries.

Under BCZR § 502.1(A), a special exception use is prohibited if it is "detrimental to the health, safety or general welfare of the locality involved." In Schultz v. Pritts, we held that an applicant for a special exception "does not have the burden of establishing affirmatively that his proposed use would be a benefit to the community. If he shows to the satisfaction of the Board that the proposed use would be conducted without real detriment to the neighborhood ... he has met his burden." 291 Md. 1, 11, 432 A.2d 1319, 1325 (1981).

BCZR § 502.1 does not explicitly require that a neighborhood's boundary be specifically defined.

We further held in Montgomery County v. Butler, "[t]he phrase 'detriment to the **770 neighborhood' implies necessarily that the Board's task is to determine if there is or likely will be a detriment to the surrounding properties." 417 Md. 271, 305, 9 A.3d 824, 844 (2010) (emphasis added). Thus, we held that, within the context of a special exception, the "neighborhood" means "the surrounding properties." Id. See also Montgomery v. Bd. of Cty. Comm'rs for Prince George's Cty., 263 Md. 1, 5, 280 A.2d 901, 903 (1971) (holding that, in the rezoning context, "[t]he concept of a neighborhood is a flexible one, and will vary according to the geographical location involved[.]"); Woodlawn Area Citizens Ass'n v. Bd. of Cty. Comm'rs for Prince George's Cty, 241 Md. 187, 198, 216 A.2d 149, 156 (1966) (holding that, in the rezoning context, "what constitutes a neighborhood ... is not and should not be precisely and rigidly defined[.]").

In Alviani v. Dixon, we considered whether the Anne Arundel County Board of Appeals erred when it granted variances 4 to enable applicants to satisfy criteria for a special *281 exception, regarding the construction of an automotive service station. 365 Md. 95, 775 A.2d 1234 (2001). The protestants in Alviani specifically "allege[d] that the Board failed to properly define the relevant neighborhood that was considered when the Board found that the variances would not affect the neighborhood." Id. at 117, 775 A.2d at 1247. We disagreed and found, "after examining the record, that the Board established the relevant neighborhood[,]" as the Board's description was "precise enough to enable a party or an appellate court to comprehend the area that the Board considered when deciding to grant the variances." Id. at 117, 119, 775 A.2d at 1247, 1248.

We outline *infra* how, for purposes of determining the sufficiency of the description of the "neighborhood," our rezoning jurisprudence is inapposite to our special exception jurisprudence. Parallel to this analysis, in *Alviani v. Dixon*, we addressed how our use variance jurisprudence is inapposite to our area variance jurisprudence. In *Alviani* we held:

The standards applied to area variances are more relaxed than those applied to use variances because the impact of an area variance is viewed as being much less drastic than that of a use variance. Consequently, the cases cited by appellants do not support their contention that the surrounding "neighborhood" must be defined with the same precision in approving area variances as is required in approving use variances.

365 Md. at 120, 775 A.2d at 1248 (citations and quotation omitted).

Lucas v. People's Counsel for Balt. Cty. involved a petition for a special exception for an "airport" zoning special exception on a farm zoned for agriculture, located within a National Historic District in Baltimore County. 147 Md.App. 209, 216–17, 807 A.2d 1176, 1180 (2002), disapproved of on other grounds by People's Counsel for Balt. Cty. v. Loyola Coll. in Md., 406 Md. 54, 956 A.2d 166 (2008). In Lucas, the Honorable James A. Kenney, III employed the standard outlined in Alviani, and found that the Board's definition of the relevant area was insufficient, as it relied on only amorphous descriptions of the area to be considered:

The Board relied on testimony regarding the adverse effect of the airport on the "land around Helmore Farm," on "the horse industry in the area," on the "historical district," and on "Greenspring Valley." The Board's definition of the relevant area does not provide the precision required for a *282 party or an appellate court to comprehend the adversely affected area and to determine if the neighborhood reasonably constitutes the immediate environment of the subject property.

147 Md.App. at 241, 807 A.2d at 1195.

[6] In accord with our precedent in Alviani, in conjunction with the special **771 exception jurisprudence reflected by Schultz, Butler, and Lucas, we hold that the description of the neighborhood impacted by the special exception must be precise enough to enable a party or appellate court to comprehend the area that the Board considered. Precision is determined through a review of the evidence in the record describing the impact on the surrounding properties, as referenced within the Board's opinion. See also Critical Area Comm'n for Chesapeake & Atl. Coastal Bays v. Moreland, LLC, 418 Md. 111, 135, 12 A.3d 1223, 1238 (2011) (holding that meaningful judicial review is possible when the Board summarizes substantial evidence in support of its findings).

In the case at bar, the Board's opinion stated in relevant part:

The [Applicants] offered into evidence the testimony of Ken Schmid, of Traffic Concepts, Inc., who was admitted as an expert in the fields of Traffic Engineering and Transportation Planning. Mr. Schmid opined that the proposed use will not create congestion of the roads, streets or alleys in the area of the subject property. The proposed relocation of Groff Lane to create a four way signalized intersection, according to Mr. Schmid, will create a safer and more convenient pattern of traffic circulation for the subject property and the surrounding area.

The [Applicants] called Mr. Rick Richardson, of Richardson Engineering, who was offered and accepted by the Board as an expert in the fields of civil engineering, zoning and development.

*283 Mr. Richardson testified that the proposed fuel service station is not ... located within a mile radius of any abandoned fuel service station(s).

The Protestants called to testify John Seitz, of Transportation Resource Group, Inc. who was accepted by the Board as an expert in the area of Traffic Engineering. Mr. Seitz testified that as a part of his investigation of the proposed use of the subject site he evaluated the potential truck turning radius for fuel delivery trucks entering the proposed site using a computer based

traffic modeling program and determined that a fuel delivery truck attempting to turn into the proposed site would cause potential congestion and traffic difficulty of Groff Mill Road because of the wide turning angle required for such trucks.

The Protestants next called Andrew Miller, PhD who was admitted as an expert in hydrological studies. Dr. Miller testified concerning the Flood Plain Study prepared by the [Applicants]. According to Dr. Miller the subject area contains a portion of the existing flood plain which will be filled in to facilitate construction of the site.

The Board's opinion references ample evidence of record for us to appreciate the area considered by the Board. The Board referenced testimony concerning the roads and intersections surrounding the subject property, including: Tollgate Road, Reisterstown Road, Groff Lane, and Reisterstown Road's intersection with Owings Mills Boulevard. The Board referenced testimony regarding the commercial development surrounding the property. In accordance with BCZR § 405.3, ⁵ the Board referenced **772 testimony regarding an exhibit which depicted the five gas stations contained within a one-mile radius from the property. The Board referenced testimony regarding *284 the flood plain surrounding the property. Unlike in *Lucas*, there was ample evidence presented to the Board regarding the immediate environs of the proposed Wawa, which the Board referenced in its opinion. Here, the evidence presented to the Board regarding the area impacted by the special exception, as referenced in the Board's opinion, was precise enough to enable a party or appellate court to comprehend the area that the Board considered. Thus, we will not disturb the Board's decision.

BCZR 405.3 "Condition for disapproving special exception[]" provides in pertinent part "the Zoning Commissioner, prior to granting any special exception for a fuel service station, shall consider the presence of abandoned fuel service stations in the vicinity of the proposed site."

The Protestants further contend that we require a delineation of the neighborhood in rezoning matters, and accordingly, this same requirement should be extended to apply in special exception cases. We disagree.

Rezoning cases are inapposite to our analysis because of the respective burdens in rezoning and special exception matters. We have stated that:

[T]here is a strong presumption of the correctness of original zoning and comprehensive rezoning and that to sustain a piecemeal change therefrom there must be produced strong evidence of mistake in the original zoning and comprehensive rezoning and that to sustain a piecemeal change therefrom there must be produced strong evidence of mistake in the original zoning or else evidence of a change in conditions resulting in a substantial change in the character of the neighborhood.

Heller v. Prince George's Cty., 264 Md. 410, 412, 286 A.2d 772, 773 (1972) (citation omitted); see also Border v. Grooms, 267 Md. 100, 110, 297 A.2d 81, 86 (1972) (holding "that which reasonably constitutes the neighborhood of the subject property is one of the basic facts to be established by an applicant for rezoning, and because of its fundamental involvement in any case resting on a contention of a change in the character of the neighborhood it must be satisfactorily shown upon the record.") (emphasis added).

[7] Given the heavy burden upon the party seeking a rezoning, and the strong presumption in favor of the original zoning, "some delineation of the general boundaries encompassed" *285 is an apt evidentiary element in the rezoning context. Border, 267 Md. at 110, 297 A.2d at 86; see also Heller, 264 Md. at 412, 286 A.2d at 773 (holding that, in the rezoning context, "there is a strong presumption of the correctness of the original zoning" and "[t]he burden of proof, of course, is quite onerous and it rests squarely on the one seeking the reclassification."). There is an inverse evidentiary presumption, however, in the

special exception context. A special exception is presumed to be in the interest of the general welfare, and therefore a special exception enjoys a presumption of validity. *Schultz*, 291 Md. at 11, 432 A.2d at 1325. Given these conflicting presumptions, our requirement for a precise definition of the neighborhood within rezoning matters does not extend to special exception cases.

II. The Burden of Proof Was Not Inappropriately Assigned to the Protestants

[8] The Protestants argue that the Board of Appeals erred when it assigned the burden of proof to the Protestants and concluded that the Protestants' evidence did "not rebut the presumption of validity of the Special Exception use in this case." We disagree. A special exception in Baltimore **773 County is granted pursuant BCZR § 502.1, which provides, in pertinent part:

Before any special exception may be granted, it must appear that the use for which the special exception is requested will not:

- A. Be detrimental to the health, safety or general welfare of the locality involved;
- B. Tend to create congestion in roads, streets or alleys therein[.]

In Schultz we held:

[T]he appropriate standard to be used in determining whether a requested special exception use would have an adverse effect and, therefore, should be denied is whether there are facts and circumstances that show that the particular use proposed at the particular location proposed would *286 have any adverse effects above and beyond those inherently **774 associated with such a special exception use irrespective of its location within the zone.

291 Md. at 22-23, 432 A.2d at 1327. We further held that a special exception is presumed to be in the interest of the general welfare, and therefore a special exception enjoys a presumption of validity. *Id.* at 11, 432 A.2d at 1325.

[9] It is undisputed that "both the burden of production and the burden of persuasion on the issue of whether the special exception should be granted[]" fall on the applicant, whereby the applicant must persuade the Board "by a preponderance of the evidence that the special exception will conform to all applicable requirements." Loyola Coll. in Md., 406 Md. at 109, 956 A.2d at 199.

The Protestants, however, assert that the Board "assigned the burden of proof to the Protestants[]" when it stated: "The Protestants' concerns taken from the available evidence do not rebut the presumption of validity of the Special Exception in this case." Directly prior to this finding, however, the Board articulated the Schultz standard:

there is a presumption under Maryland Law that a Special Exception is in [] the general interest of the jurisdiction and therefore valid and that a Special Exception is properly denied only when there are facts and circumstances showing the adverse impacts of the use at the particular location in question would be above and beyond those inherently associated with the Special Exception use.

[10] [11] The Board's opinion did not improperly assign the burden of proof to the Protestants. While an applicant for a special exception bears both the burden of persuasion and of production, the concurrent presumption in favor of a special exception applicant is not a mutually exclusive evidentiary burden. As the Honorable Glenn T. Harrell, Jr. explained within the context of presumptions of civil actions under Maryland Rule 5-301(a):

[A] presumption does not necessarily shift the burden of persuasion. Rather, it merely satisfies the burden of going *287 forward on a fact presumed and may satisfy the burden of persuasion if no rebuttal evidence is introduced by the other side. ... Stated differently, the party favored by the presumption is not relieved of the requirement of presenting evidence to establish a prima facie case as to those issues for which he bears the burden of proof if the adverse party sufficiently rebuts the presumption. In such instances, the presumption merely enhances the probative value of other evidence adduced.

Anderson v. Litzenberg, 115 Md.App. 549, 564, 694 A.2d 150, 157 (1997). Here, the Protestants did not set forth sufficient evidence to indicate that the proposed fuel service station would have any adverse effects above and beyond those inherently associated with such use under the Schultz standard. 291 Md. at 15, 432 A.2d at 1327. Thus, the Board simply stated that, in light of the Applicants having presented sufficient evidence demonstrating compliance with BCZR § 502.1 and the general presumption of validity enjoyed by special exception uses, the evidence as a whole did not warrant denial of the petition for the special exception. See Anderson, 115 Md.App. at 564, 694 A.2d at 157. The Board's opinion did not inappropriately assign the burden of proof.

III. The Evidence Presented by the Protestants Was Not Sufficient to Rebut the Presumption of the Validity of a Special Exception. ⁶

Protestants argued in their reply brief that the issue of whether there was substantial evidence in the record to support the Board's conclusions is not before this Court. As we noted in *Garner v. Archers Glen Partners*, *Inc.*, 405 Md. 43, 949 A.2d 639 (2008):

Since the time when this Court's jurisdiction became largely dependent upon the issuance of a writ of certiorari, we have consistently held that, in a case decided by an intermediate appellate court, we shall not consider an issue unless it was raised in a certiorari petition, a cross-petition, or the order by this Court granting certiorari. We again decline to address an issue not raised fairly in an otherwise successful Petition for Writ of Certiorari.

405 Md. at 60-61, 949 A.2d at 649 (citations omitted). See also Md. Rule 8-131(b) ("Unless otherwise provided by the order granting the writ of certiorari, in reviewing a decision rendered by the Court of Special Appeals ... the Court of Appeals ordinarily will consider only an issue that has been raised in the petition for certiorari or any cross-petition and that has been preserved for review by the Court of Appeals."). This Court granted certiorari on the question of whether the Court of Special Appeals erred when it held that the Applicants met their burden of proof, as articulated in the concurring opinion in People's Counsel for Balt. Cty. v. Loyola Coll. in Md., 406 Md. 54, 956 A.2d 166 (2008). We find that the sufficiency of the evidence in this matter is a necessary facet of the burden of proof issue, on which this Court granted certiorari. Moreover, the Protestant's Petition for Writ of Certiorari argued that the Board erred because it failed to address the fact the record contained genuine questions of fact regarding the Wawa's effect on traffic congestion, the Gwynns Falls stream and its flood plain, and the economic stability of the neighborhood.

The Protestants next argue that they presented evidence generating a genuine question of fact as to whether the special *288 exception will create congested roads per BCZR § 502.1(B), and that it will have detrimental environmental and economic impacts per BCZR § 502.1(A).

A. Road Congestion

[12] BCZR § 502.1(B) requires that a special exception not "[t]end to create congestion in roads, streets or alleys therein[.]" At the hearing before the Board, the Applicants called Ken Schmid of Traffic Concepts, Inc. as an expert in the fields of Traffic Engineering and Transportation Planning. Mr. Schmid testified that the proposed use will not create congestion in the roads, streets, or alleys. Mr. Schmid testified that he and his company submitted two Traffic Impact Studies on behalf of the Applicants

to the Maryland State Highway Administration in support of the planned relocation of Groff Road. On cross-examination, Mr. Schmid acknowledged that the planned road relocation had not yet received approval. The Board ultimately conditioned the grant of the Special Exception upon approval and issuance of all necessary permits by the State Highway Administration. In addition, the Applicants presented the testimony of Mr. Rick Richardson, who was accepted by the Board as an expert in the fields of civil engineering, zoning and development. Mr. Richardson testified that the Wawa will meet or surpass the requirements of *289 BCZR § 502.1. In rebuttal, Protestants **775 provided testimony from John Seitz of Transportation Resource Group to support their contention that the proposed Wawa would result in potential congestion and traffic difficulty off Groff Mill Road as a result of turning fuel delivery trucks.

The Schultz special exception test considers whether the proposed use will have a greater impact here than one would ordinarily expect. The Protestants did not present "facts and circumstances [pertaining to congestion in the roads, streets, or alleys] that show that the particular use proposed at the particular location proposed would have any adverse effects above and beyond those inherently associated with such a special exception use[.]" 291 Md. at 15, 432 A.2d at 1327 (emphasis added). Thus, the Protestants did not sufficiently rebut the presumption of validity under Schultz.

B. Floodplain Relocation

[13] The Protestants provided evidence that the Gwynns Falls floodplain may be impacted by the construction of the Wawa. The Board, however, did not render a factual conclusion on this issue: "The possibility of a negative impact upon the flood plain by [the Applicants'] plans will be determined separately by way of the investigation by State and Federal authorities and pursuant to Baltimore County Code (Section 32–8–101 [et seq.]) will only be granted when there is no adverse effect upon the safety and welfare of the citizenry." Tollgate is not prevented by the BCZR from proceeding with the request for the Special Exception before receiving approval for the proposed floodplain relocation. Because the Board did not render, nor was it required to make, a factual conclusion on this issue, and we cannot arrive at such a conclusion, there was no error from the Board for us to review. See United Parcel Serv., Inc. v. People's Counsel, 336 Md. at 577, 650 A.2d at 230 (stating that our role "is limited to determining if there is substantial evidence in the record as a whole to support the agency's findings and conclusions, and to determine if the administrative decision is premised upon an erroneous conclusion of law.").

*290 C. Economic Impact

[14] Lastly, Protestants argue that the Wawa will negatively impact the economic stability of the neighborhood, as the addition of a sixth gas station in the area may result in one of the five existing gas stations going out of business. We have held that the "prevention of competition is not a proper element of zoning." *Kreatchman v. Ramsburg*, 224 Md. 209, 219, 167 A.2d 345, 351 (1961) (citations omitted). The economic effects of zoning should be considered only as they affect the general welfare. *Id.* at 222, 167 A.2d at 352. The speculative testimony provided by the Protestants as to the increase in supply in excess of demand within the fuel service station market fails to rebut the presumption of validity under *Schultz*.

As we noted, the Board conducted an analysis of BCZR 405.3 and determined that "[t]he evidence presented at the hearing established that there are no abandoned fuel service stations located within either one-half mile or one-mile of the proposed site." Contrary to the Protestants' contention, the Wawa may increase competition within the relevant fuel service station marketplace, increase consumer welfare, and thus, may even *increase* the general welfare of the locality.

JUDGMENT OF THE COURT OF SPECIAL APPEALS IS AFFIRMED. COSTS TO BE PAID BY PETITIONERS.

All Citations

451 Md. 272, 152 A.3d 765

End of Document

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EDUCATION

BSCE University of Delaware, 1982

Professional Engineer in Maryland 1988, Virginia 1993, Washington DC 1997, Delaware 1997

WORK EXPERIENCE

October 1999 to Present, Richardson Engineering, LLC

Owner of engineering firm specializing in Commericial and Residential Land Development. Work includes preparation of zoning plats, site development plans and project management for site development projects. Projects including: Giant Food Stores in Baltimore City and County, Krispy Kreme Stores in Maryland, Verizon switch station expansions in Maryland, Parkway 100 and Techwood Center in Anne Arundel County, and Columbia Technology Campus in Howard County.

July 1999 to September 1999, Purdum and Jeschke, LLC

Chief engineer responsible for preparation of layout and construction documents for commercial land developments. Work included preparation of zoning plats, site development plans and project management for sites in Maryland. Projects including: Loyola College play fields, Baltimore City. Md.; St Paul's Lutheran Church, Baltimore Co.; Red Star Yeast, Baltimore City; Giant Food Stores in Baltimore City.

February 1997 to June 1999, William Monk, Inc.

Chief engineer responsible for preparation of layout and construction documents for commercial land developments. Work included preparation of zoning plats, site development plans and project management for sites in Maryland and Washington DC.

Major projects including: Edmondson Square Shopping Center, Baltimore City, Md. Amoco Oil Company, sites in Baltimore, Anne Arundel, Prince George's, Howard and Baltimore City. Chick-fil-A Restaurant, Baltimore, Anne Arundel and Frederick Co., Md. International Trade Center Office Warehouse, Anne Arundel Co. Md. KFC Restaurants in Maryland and Washington DC.

April 1986 to Jan. 1997, STV Incorporated

Project Manager in the Site Development Department. Responsible for supervision of the preparation of design documents for the department, including review and sealing all documents submitted to reviewing agencies.

Major projects including: The New International Terminal at BWI Airport: Responsible for management of the civil aspects of the site construction including airfield taxiway and hardstand construction, reconstruction of the existing roadways and extention of the upper level roadway bridge to service the building addition. FILA Warehouse - 650,000 SF warehouse in Brandon Woods Industrial Park, Anne Arundel County, Md. Work included coordination with ongoing infrastructure grading, utilities, construction and sediment control for the adjacent activities. FILA Warehouse - 500,000 SF warehouse in Holabird Industrial Park, Baltimore City, Md. Work included getting permission to construct across Municipal Utilities, and Chesapeake Bay Critical Area mitigation. Amoco Oil Company Convenience Mart on Route 140 and Sandymount Road, Carroll County, Md. Blockbuster Video - New store in Jacksonville, Baltimore County, Md. EXXON Company USA - Demolish and Rebuild' Belvedere and

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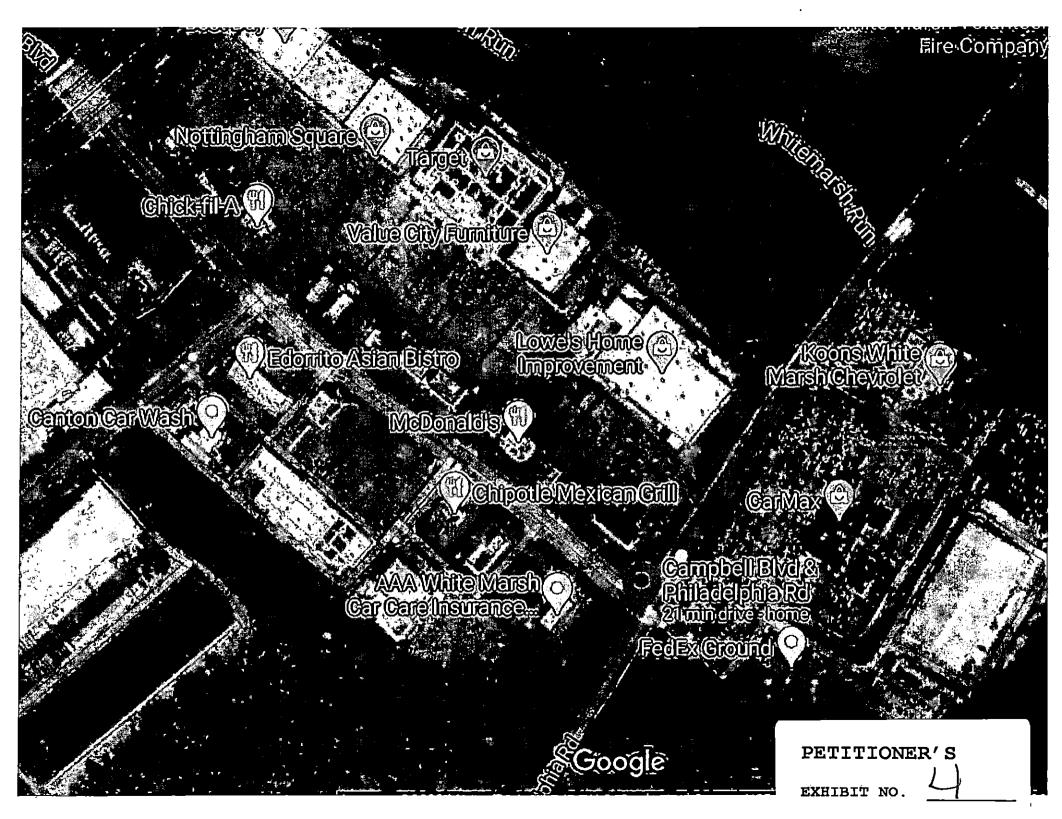
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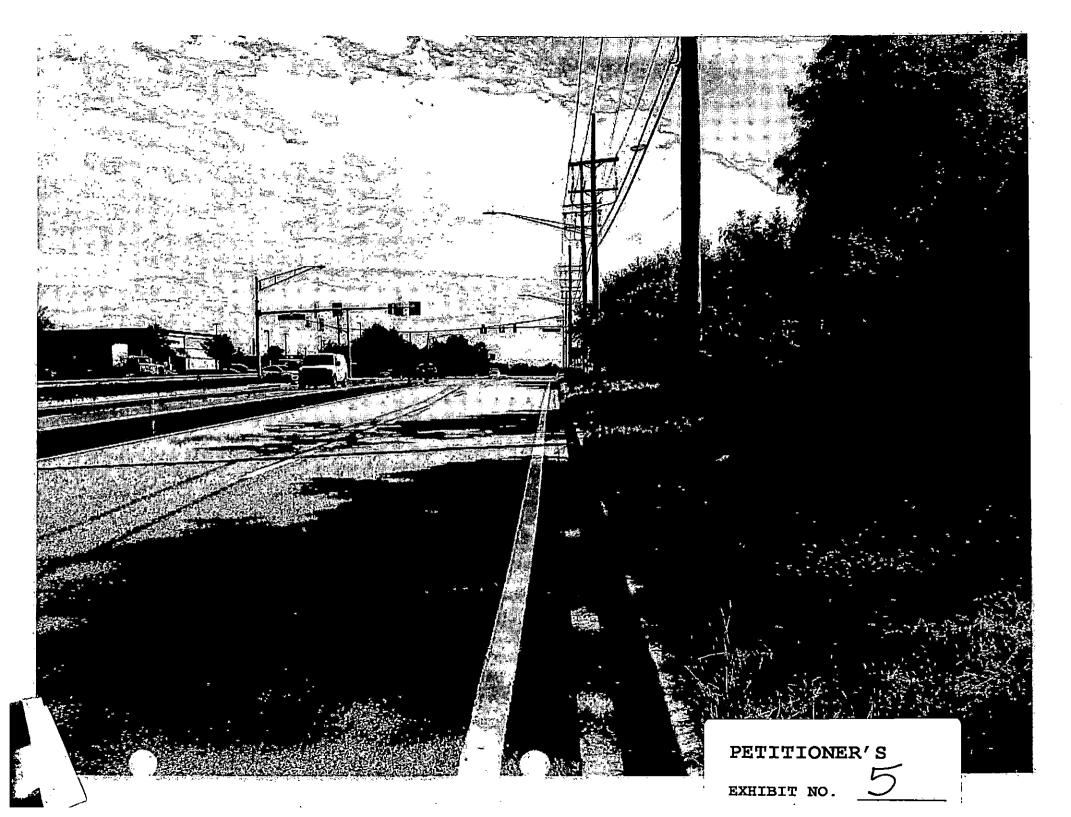
York Roads, Baltimore City, Md. Parkway Crossing Shopping Center - Work included reconstruction for several stores, and a new culvert and access from Perring Parkway including a State Highway Access Permit and WRA approval. Old Dominion Freight Lines - 25,000 SF Addition to existing warehouse, Howard County, Md. Ashton Meadows 300 unit apartment complex in Howard County, Md. Sunrise House of Towson 56 unit three story assisted living facility, Baltimore County, Md. SCM Chemicals Hawkins Point Plant Numerous projects including (2) million gallon tanks and secondary containment, chlorinator replacement, railroad track improvements, technical center building addition and secondary containment for existing tanks. Work included a stormwater management master plan for the facility, Chesapeake Bay Critical Area mitigation and railroad track design. National Gypsum - Canton Plant expansion including dock improvements, storm water management for the Chesapeake Bay Critical Area, grading, utilities, and sediment control. Bayview Medical Campus - Design of infrastructure for the first phase of development of the campus including 0.6 mile road and utilities, and a 19 acre park with a pond.

February 1985 to March 1996, Spellman, Larson and Associates Engineer/Designer/Draftsman for land development projects in Baltimore County

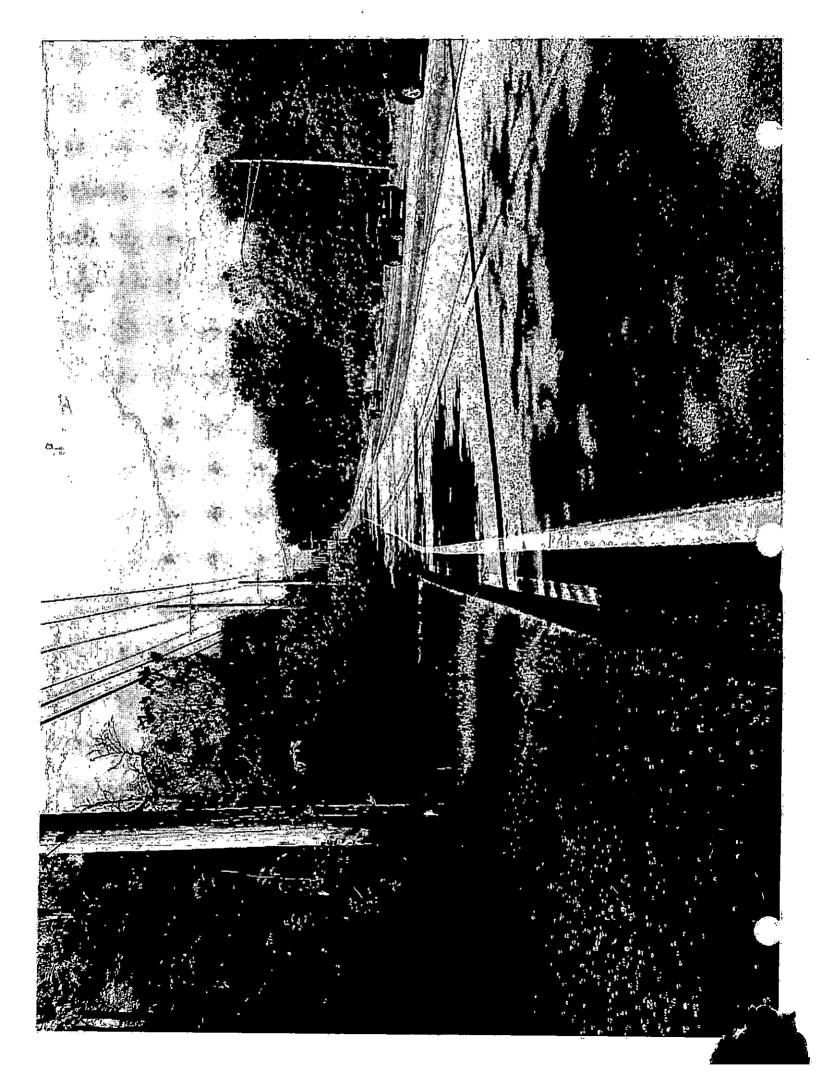
May 1982 to January 1985, CBI Industries

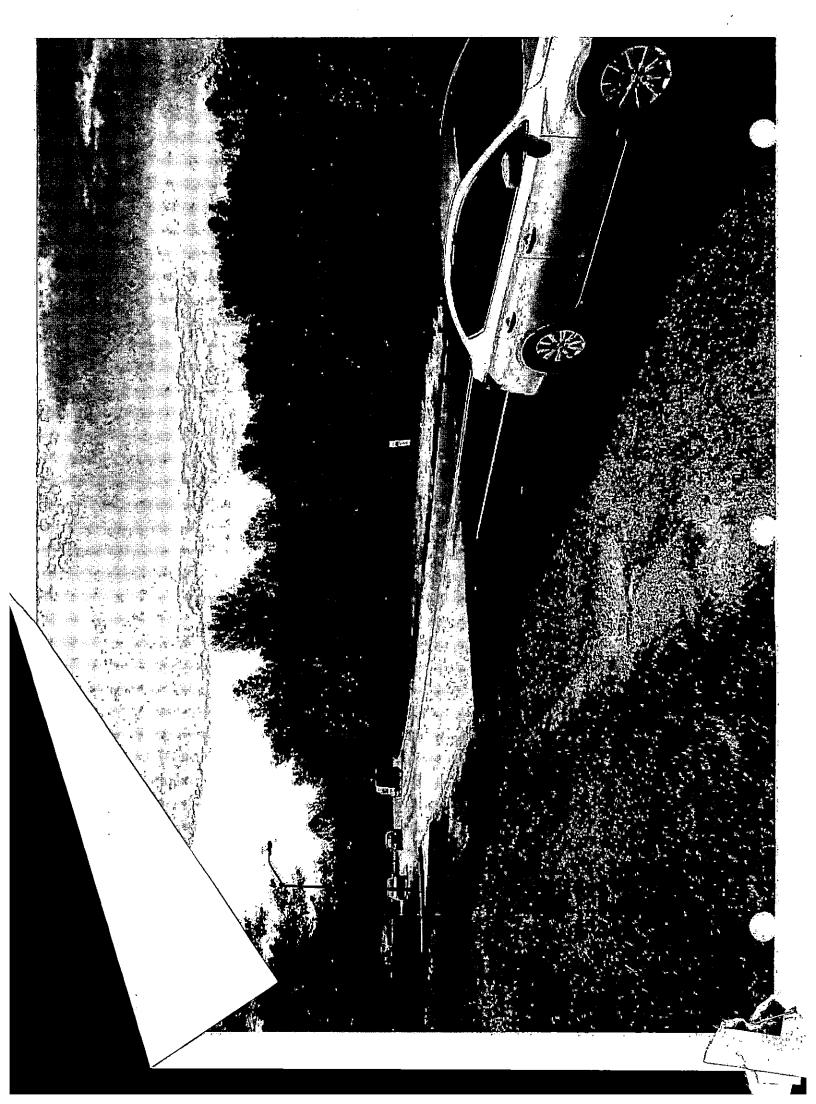
Engineer for construction of steel plate structures. Field engineer responsible for layout of materials, and coordination with field personnel. Worked on the Peach Bottom No. 2 Recirculation and Reheat Piping Replacement preparing procedures and policies for the construction and field supervision of the work.

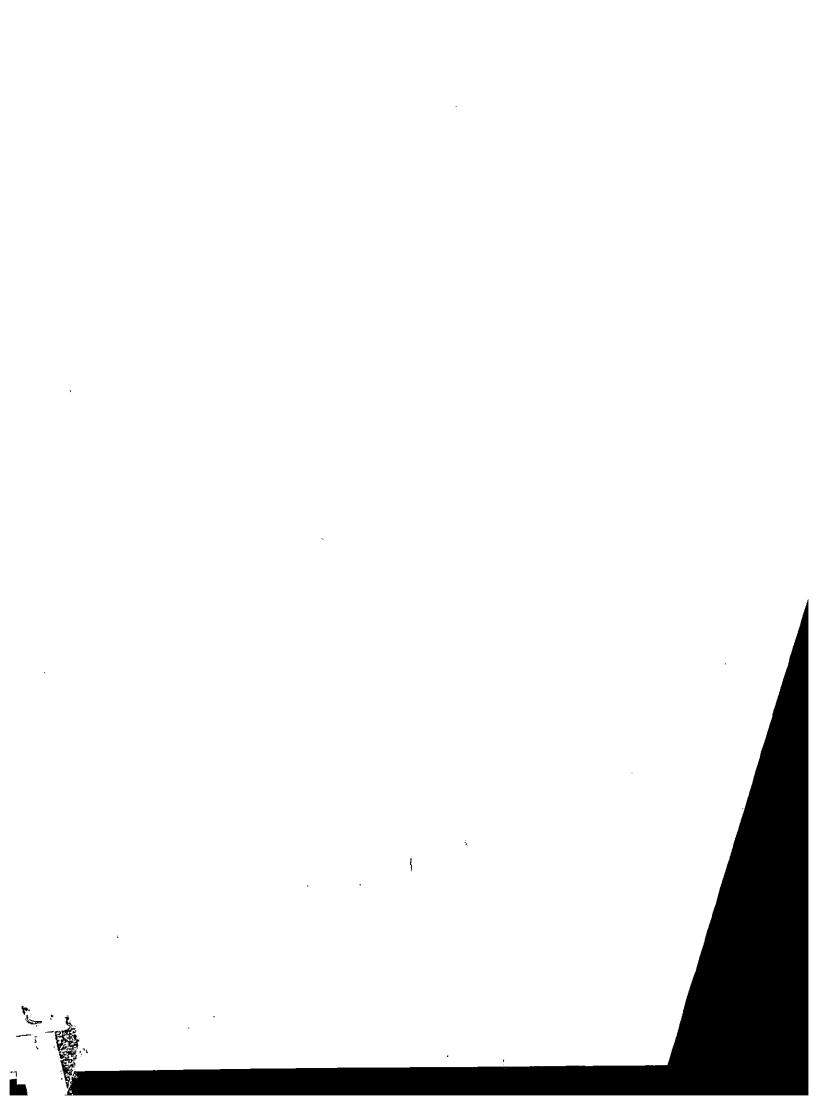


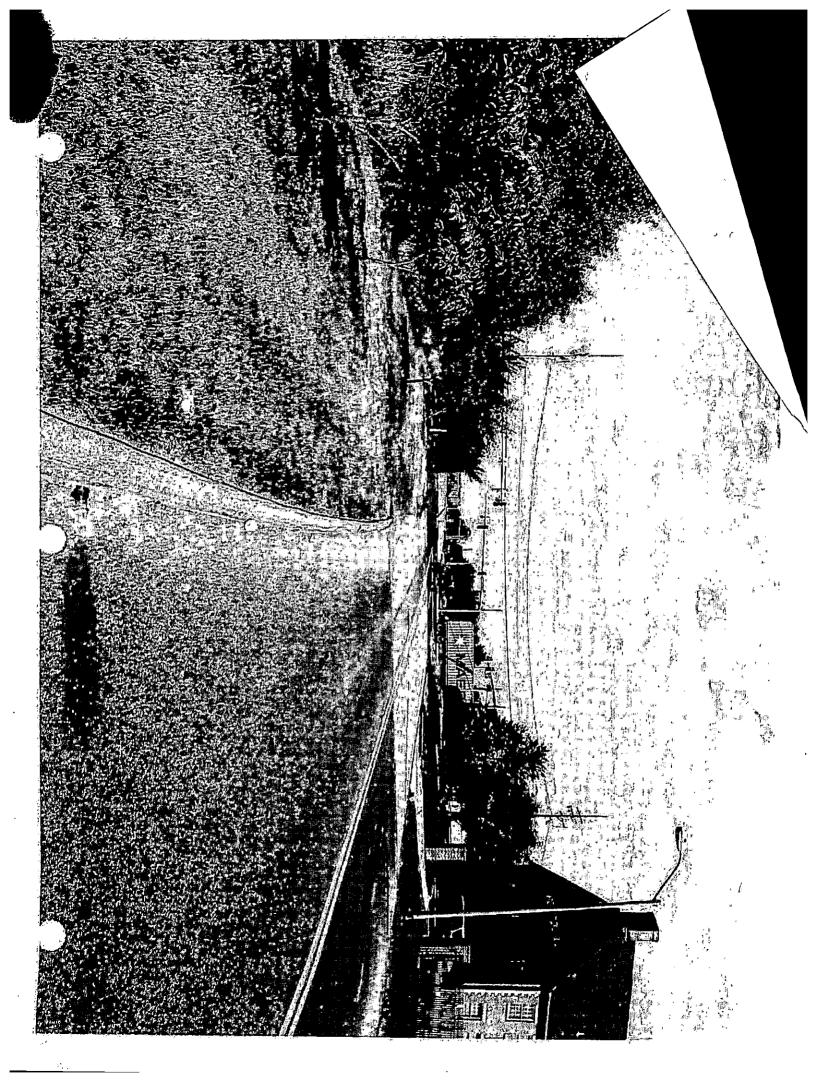
















MICKEY A. CORNELIUS P.E., PTOE, RSP Senior Vice President



Merging Innovation and Excellence

"A Leader in Sustainable Transportation Solutions"

Cornelius, proudly one of the first certified Professional Traffic Operations Engineers (PTOE) in the nation, is a President of the firm, responsible for managing all of the firm's traffic engineering, transportation planning data collection activities. Mr. Cornelius is among the first 100 professionals nationwide to receive the lew Road Safety Professional (RSP) Level One Certification, demonstrating proficiency in the foundations of cinciples. He is experienced in many aspects of traffic engineering and transportation planning, including traffic forecasting and associated modeling, geometric design, traffic signals and signal systems evaluation/design, culation, traffic calming, and transportation systems management.

rofessional Engineer, Mr. Cornelius has over 37 years of experience in the highway transportation and profession. His experience in both the public and private sectors has provided him with a broad range of Mr. Cornelius has conducted over 2,000 traffic engineering studies and has served as a transportation opment of Master Plans for both private firms and public agencies. His educational and professional lifted him as an expert in the field of traffic engineering and transportation planning before numerous all Planning and Zoning Boards in Maryland, as well as in Virginia, Pennsylvania, New Jersey and New

or Vice President esident

1987 - 1996 Traffic Engineer The Traffic Grow, Inc.

1984 - 1987
Traffic Engineering Consultant
Street Traffic Studies, Ltd.

1982 – 1984 Civil Engineer, Highway Construction S.J. Groves and Sons

Educational Background

- B.S. in Civil Engineering with emphasis in Transportation Pennsylvania State University
- Traffic Engineering Courses
 - Northwestern University Traffic Institute
 - Polytechnic Institute of New York

Affiliations

- Registered Professional Engineer (P.E.) MD, DE, PA, VA, NC, SC, UT
- Certified Professional Traffic Operations Engineer (PTOE)
- Certified Road Safety Professional (RSP)

- Institute of Transportation Engineers (I.T.E.)
- National Society of Professional Engineers (N.S.P.E.)
- County Engineers Association of Maryland (CEAM)
- American Society of Civil Engineers (ASCE)

Examples of places where Mr. Cornelius has testified as an expert witness

MARYLAND

- City of Annapolis City Council
- Anne Arundel County Board of Appeals; Zoning Hearing Examiner
- City of Baltimore City Council; Planning Commission
- Baltimore County County Review Group, Zoning Commissioner, Board of Appeals; Circuit Court; District Court; Administrative Law Judge
- Town of Bel Air Planning Board; Town Commissioners; Zoning Hearing Examiner
- Carroll County Board of Appeals; County Commissioners; Planning Board
- City of Bowie Planning Advisory Board; Mayor and City Council
- Cecil County Technical Advisory Committee
- Charles County Board of Appeals
- Dorchester County Board of Appeals
- Frederick County Planning Board; County Commissioners; Board of Appeals

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MICKEY A. CORNELIUS, P.E., PTOE, RSP

Senior Vice President

- i County Zoning Hearing Examiner
- H Junty Planning Board; Zoning Board; Bo. Appeals; Hearing Examiner
- Town o Indian Head Planning Commission
- Montgomery County Planning Board; Zoning Hearing Examiner; Board of Appeals
- Town of North East Planning Commission
- Prince George's County Planning Board; County Council; Hearing Examiner
- Washington County Board of Appeals
- City of Westminster Mayor and Common Council
- Wicomico County Board of Zoning Appeals

NEW JERSEY

- State Court of Administrative Law
- Cumberland County Manchester Township Zoning Hearing Board
- City of Millville Planning Commission

PENNSYLVANIA

- York County Manchester Township Zoning Hearing Board
- Shrewsbury Borough Planning Commission

New York

Town of East Hampton - Planning Commission

VIRGINIA

- Town of Warrenton Planning Commission; Town Council
- Town of Herndon Planning Commission; Town Council

Mr. Cornelius' Representative List of Projects

Bowie Town Center - Prince George's County, Maryland Canton Crossing - Baltimore City, Maryland Columbia Downtown Cordon and Travel Survey - Howard County, Maryland Coppin State University - Baltimore City, Maryland Festival at Bel Air - Harford County, Maryland Festival at Waldorf - Charles County, Maryland Fort Detrick - Frederick, Maryland Fort Ritchie Master Plan - Washington County, Maryland Foundry Row - Baltimore County, Maryland Frederick County Corridor Studies - Frederick County, Maryland Howard County Red Light Running Study - Howard County, Maryland Johns Hopkins Medical Campus - Baltimore County, Maryland

Konterra – Prince George's County, Maryland Maple Lawn Farms – Howard County, Maryland MD 228 Corridor Study – Charles County, Maryland Northrop Grumman – Anne Arundel County, Maryland Owings Mills Boulevard Master Plan – Baltimore County, Maryland

Oxford Square TOD – Howard County, Maryland Piney Orchard – Anne Arundel County, Maryland Sheppard Pratt Hospital – Baltimore County, Maryland Sinai Hospital – Baltimore City, Maryland Towson University Master Plan – Baltimore County, Maryland

Turf Valley – Howard County, Maryland Upper Chesapeake Hospital – Bel Air, Maryland VCU Master Plan – Richmond, Virginia Washington County Hospital – Washington County, Maryland

Waverly Woods – Howard County, Maryland West Ocean City Transportation Study – Worcester County, Maryland

Wawa Store MD 7 @ Campbell Boulevard

Baltimore County, Maryland November 9, 2018 Revised June 26, 2020

Traffic Impact Analysis

Prepared for: Whitemarsh Associates, LLC.



PETITIONER'S

EXHIBIT NO.

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APPENDICES

APPENDIX A - Intersection Turning Movement Counts and Aerial Photographs

APPENDIX B - Intersection Capacity Analysis Worksheets

APPENDIX C—Trip Assignment for Approved Developments

APPENDIX D - Access Concept Plan

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 17243, Expiration Date: 02/07/2021.



Prepared by:

Mickey A. Cornélius, P.E., PTOE, RSP

Carl R. Wilson, Jr., P.E., PTOE Richard Huang, P.E., PTOE

CRW:smb/mlj/amr

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INTRODUCTION AND SUMMARY OF FINDINGS

Study Purpose

The Traffic Group, Inc. has prepared this Traffic Impact Study to quantify the impact the proposed development of the Wawa Convenience Store and fuel pumps in the southeast quadrant of the intersection of MD 7 (Philadelphia Road) at Campbell Boulevard will have on surrounding traffic operations. Specifically, the convenience store will feature a footprint of 4,737 sq. ft. In addition, a total of 12 fuel dispensers will be constructed on site.

Access to the property is proposed via one full movement point along Campbell Boulevard just west of MD 7. In addition, a right-in is proposed along MD 7. Full buildout of the project is expected within three years.

Study Criteria/Methodology

This document has been prepared in accordance with requirements set forth by the Maryland Department of Transportation State Highway Administration (MDOT SHA) and Baltimore County. All Intersection Capacity Analyses are conducted using Critical Lane Volume (CLV) Methodology. In addition, a Synchro analysis has been developed for the study intersections to model traffic operations and quantify Highway Capacity manual (HCM) levels of service. The Institute of Transportation Engineers (ITE) <u>Trip Generation Manual</u> (10th Edition) was utilized for all future trip projections.

Baltimore County's Basic Services Map for Transportation was consulted to confirm that the study intersection is not situated within a deficient traffic shed.

This report is a revision to the traffic study dated November 9, 2018, to incorporate the comments of MDOT SHA in their approval of the study. No changes have been made to the traffic analyses.

Scope of Services

- > Conduct a field inspection to collect physical information concerning the nearby road system including compilation of aerial.
- > Collect intersection turning movement counts during the morning, and evening peak periods at the study intersections.
- Obtain background development information from Baltimore County Representatives.

- > Apply a regional traffic growth factor to the MD 7 corridor.
- > Undertake trip generation and trip distribution for all approved background developments and subject sites.
- > Provide an overall assessment of traffic operations.

Summary of Findings and Recommendations

This analysis will demonstrate that the study intersections currently exhibit acceptable levels of service. With the full buildout of the proposed Wawa, the intersections will maintain acceptable operations without the need for capacity related improvements when considering both CLV and HCM criteria.

Queuing was reviewed based on SimTraffic output for all study intersections. The analysis reveals that the development of Wawa will have a minimal impact on queuing. With the exception of the northbound MD 7 left turn movement at Campbell Boulevard, all turning demand can be accommodated within available storage bays. The site will not contribute any vehicles to this movement as only right turns in along MD 7 are proposed. As a result of traffic added to the intersection, the projected queue length increases by less than one vehicle, and improvements are not required.

To accommodate existing pedestrian demand, crosswalks and pedestrian phasing is proposed on the south and east legs of the intersection.

It is our opinion that the subject site could be developed without need for additional improvements.

EXISTING TRAFFIC CONDITIONS

Site Information

The proposed Wawa is located in the southeast quadrant of the intersection of MD 7 (Philadelphia Road) at Campbell Boulevard in the White Marsh section of Baltimore County. A map detailing the location can be found in Exhibit 1. Currently the site is wooded and undeveloped. There is no existing access to the property.

Study Area

Based on the location of the site and the adjacent signalized intersection, the study area for this project is MD 7 at Campbell Boulevard and MD 7 at Mohrs Lane.

In the vicinity of the subject site, MD 7 is a four-lane undivided roadway. Approximately 200 feet south of Campbell Boulevard, the roadway narrows to two lanes. The posted speed limit along this segment of the road is 40 MPH.

The intersection of MD 7 at Campbell Boulevard is signalized. Auxiliary turn lanes are available for southbound left and right turn movements. In the northbound direction, a separate left turn lane is available. The traffic signal currently operates under split phase conditions.

MDOT SHA owns and maintains MD 7. The roadway is classified as an Urban Minor Arterial on the State Secondary System. There are no access controls along the length of this route.

Within Baltimore County, MD 7 extends from US Rt. 40 (Pulaski Highway) to the Harford County Line. The roadway continues into Harford County and beyond.

Campbell Boulevard currently terminates just east of MD 7. To the west of the intersection, the roadway features two travel lanes divided by a median. Several businesses access Campbell Boulevard to the east of MD 7.

MDOT SHA required the intersection of MD 7 at Mohrs Lane to be included in this study. Currently, Mohrs Lane is a dead-end street serving less than half a dozen houses because the bridge over the CSX Rail has been removed but not yet replaced. Baltimore County has a Capital Project to ultimately replace the bridge.

Exhibit 2 has been prepared to detail the lane use and traffic control device at the study intersection. An aerial photograph of the intersection can be found in Appendix A.

Traffic Volumes

Intersection turning movement counts were collected at the study intersections on May 10, 2018 during a typical weekday while schools were in session. Complete details on the turning movement counts can be found in Appendix A. Because of the short distance of the southbound MD 7 thru lane at Campbell Bouelard, thru volumes were counted by lane.

The morning and evening peak periods are summarized in Exhibit 3. As shown within the exhibit, traffic volumes are heavier in the southbound direction during the morning peak period and heavier in the northbound direction during the evening peak period.

Because the southbound MD 7 rightmost lane ends 200 feet south of the intersection with Campbell Boulevard, volumes were counted by lane to establish an accurate lane use factor. During the AM peak hour, 88% of southbound traffic used the left thru lane while 87% of PM traffic was observed in the left lane.

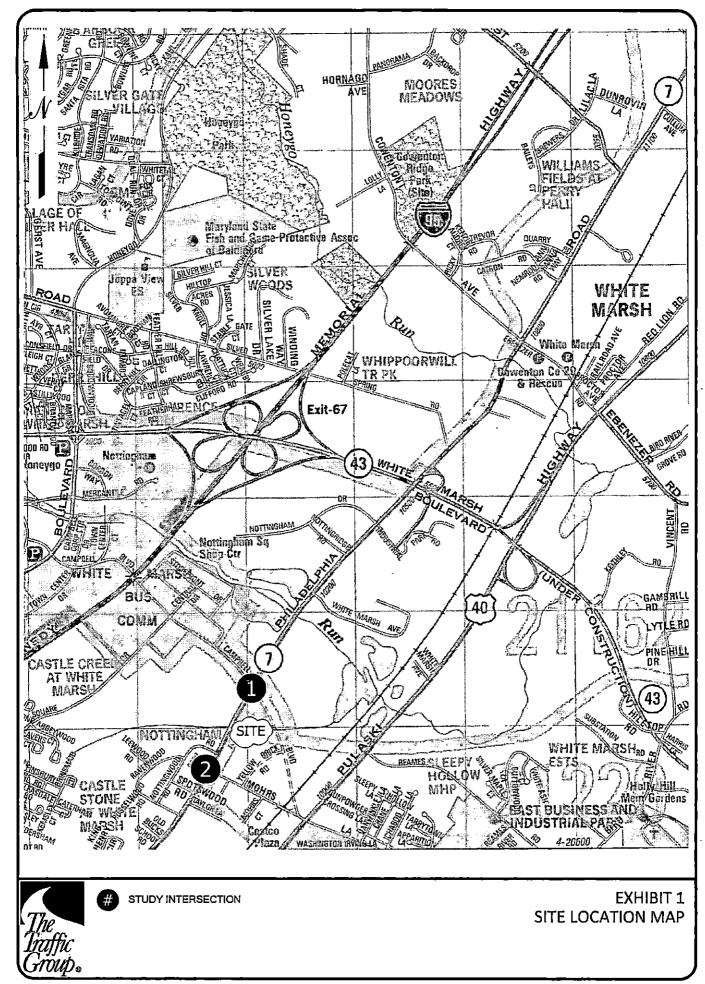
Analysis of Existing Traffic Conditions

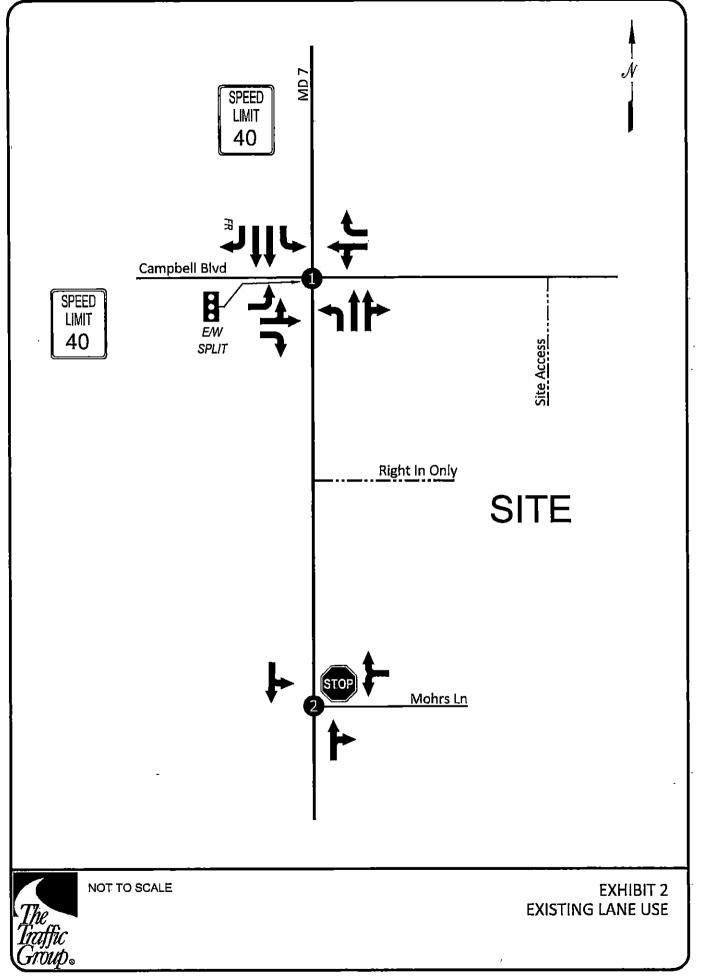
Intersection Capacity Analysis was undertaken at the study intersections using Critical Lane Volume (CLV) Methodology. A Synchro Model was also developed. The results of the analysis are summarized in Exhibit 15. Complete capacity worksheets can be found in Appendix B.

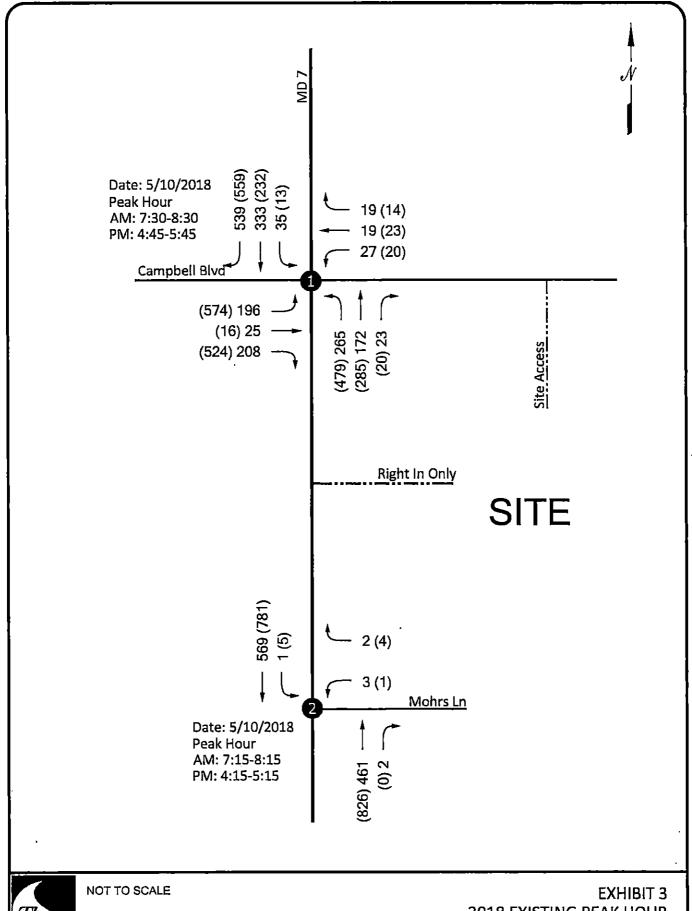
A review of Exhibit 12 reveals that the intersection of MD 7 at Campbell Boulevard and MD 7 at Mohrs Lane currently feature acceptable Levels of Service during each of the studied peak periods.

SimTraffic queuing results are summarized in Exhibit 16. Output from the simulation can be found in Appendix B. As shown, all queue lengths can be accommodated within available storage areas with the exception of the MD 7 northbound left turn to Campbell Boulevard during the PM peak.

<u>Baltimore County's Basic Services Map for Transportation</u> was consulted to review levels of service based on Baltimore County's Loaded Cycle Methodology. Loaded Cycle Methodology is based on the number of cycle failures observed at an intersection during the peak hour. Since this methodology cannot be reflected for future conditions, it reported for the existing condition only. The intersection is acceptable and there are no deficient traffic sheds in the area. A portion of the Basic Services Map detailing the relevant location can be found in Appendix A. The updated 2020 map shows no changes to the study area.









00 - MORNING PEAK HOUR (00) - EVENING PEAK HOUR EXHIBIT 3 2018 EXISTING PEAK HOUR TRAFFIC VOLUMES

BACKGROUND TRAFFIC CONDITIONS

Design Year

It is anticipated that full buildout of the Wawa Site located in the southeast quadrant of MD 7 at Campbell Boulevard will be by the year 2021. MDOT SHA historic volumes for the MD 7 corridor indicate a slight reduction in volume over 10 years. A summary of the volumes can be found in Exhibit 4. To present a conservative analysis, a 1% annual growth rate was applied to MD 7 for a period of three years. Exhibit 4 contains a summary of the regional traffic growth. Adding the regional traffic growth to the existing peak hour traffic conditions results in the 2021 base peak hour traffic volumes as shown in Exhibit 5.

Background Traffic

Based on previous Traffic Impact Studies undertaken by The Traffic Group, Inc. and information received from Baltimore County, a total of four background developments have been identified in the vicinity of the site. They include the following:

- > Cowenton North
- Cowenton South
- > Philadelphia Road Commercial
- > Nottingham Ridge Industrial Site

The map showing the relative location of each of the approved background developments can be found in Exhibit 7. Exhibit 8 contains a list of the background developments and includes details on the trip generation determined for each. The trip generation is based on material contained in ITE's Trip Generation Manual (10th Edition).

Based on the previously approved Traffic Impact Studies, the trips were distributed and assigned to the surrounding road network. Details on the trip distribution and assignment for individual background developments can be found in Appendix C. The combined trips generated by all approved developments are summarized in Exhibit 9. Combining the trips generated by the background developments with the base peak hour traffic volumes results in the 2021 background peak hour traffic volumes as shown in Exhibit 10.

Analysis of Background Traffic Conditions

CLV Analysis was undertaken for the background condition which considers regional traffic growth and the impact of approved background developments. All results are shown in Exhibit 15. Complete capacity worksheets can be found in Appendix B.

A review of Exhibit 15 reveals that under the background condition, each intersection is projected to maintain Level of Service "C" or better conditions which is acceptable to both MDOT SHA and Baltimore County.

Similarly, the Synchro Model was updated to show the background condition. Results of the levels of service can be found in Exhibit 15, while worksheets are contained in Appendix B. A review of the results shows acceptable conditions are projected at both locations.

The SimTraffic Model results are shown in Exhibit 16. All queue lengths are projected to remain acceptable with the exception of the northbound MD 7 left turn to Campbell Boulevard. This movement currently exceeds its storage bay.

TRAFFIC GROWTH PROJECTION

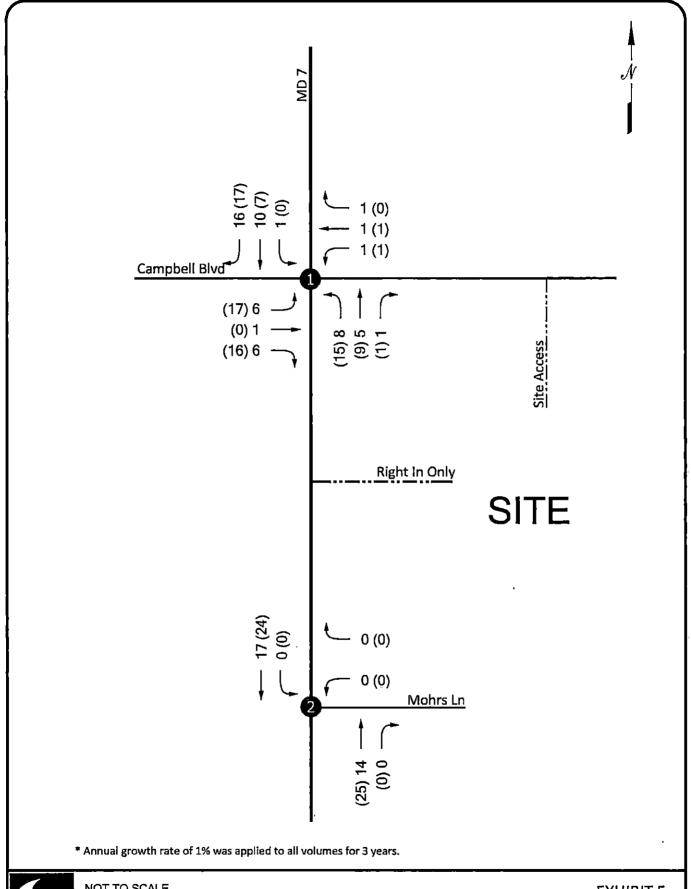
Average Growth: -0.19% Mathematical Growth: -0.23%

Year	ADT Volume	Vol. increase	% increase	Average %
2007	17,031			
2008	16,522	-509	-2.99%	-2.99%
2009	16,450	<i>-</i> 72	-0.44%	-1.71%
2010	16,551	101	0.61%	-0.94%
2011	16,622	71	0.43%	-0.60%
2012	15,550	-1,072	-6.45%	-1.77%
2013	15,581	31	0.20%	-1.44%
2014	15,532	-49	-0.31%	-1.28%
2015	15,943	411	2.65%	-0.79%
2016	16,254	311	1.95%	-0.48%
2017	16,645	391	2.41%	-0.19%
17,500 17,000 16,500		· \		
16,000				
15,500 -	<u>.</u>			
15,000 200	7 2008 2009 20	10 2011 2012.		5 2016 2017
		Year		



EXHIBIT 4
TRAFFIC GROWTH PROJECTION
MD 7 (CAMPBELL BLVD TO MD 43)

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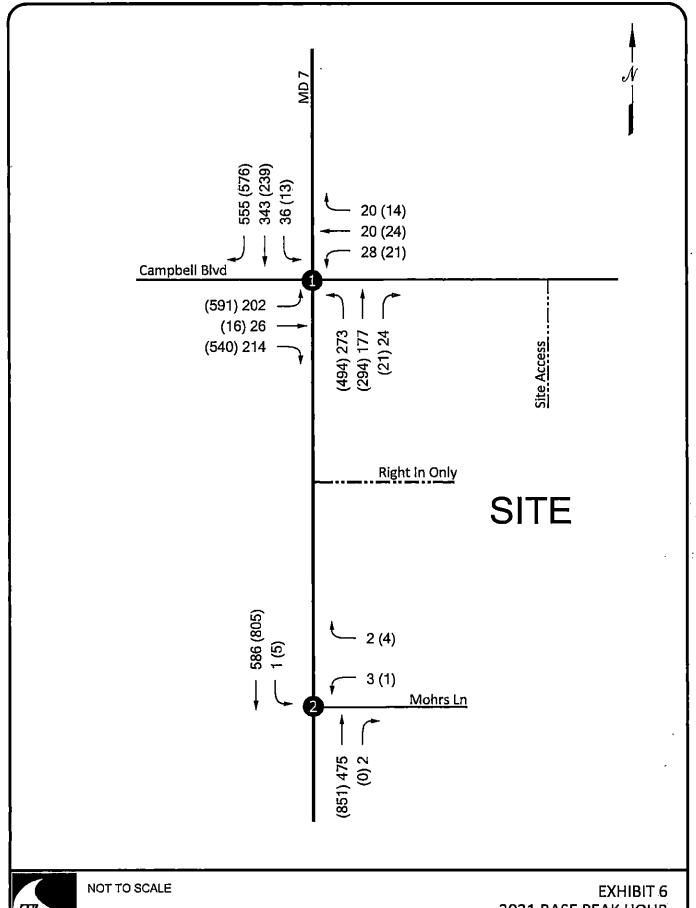




NOT TO SCALE

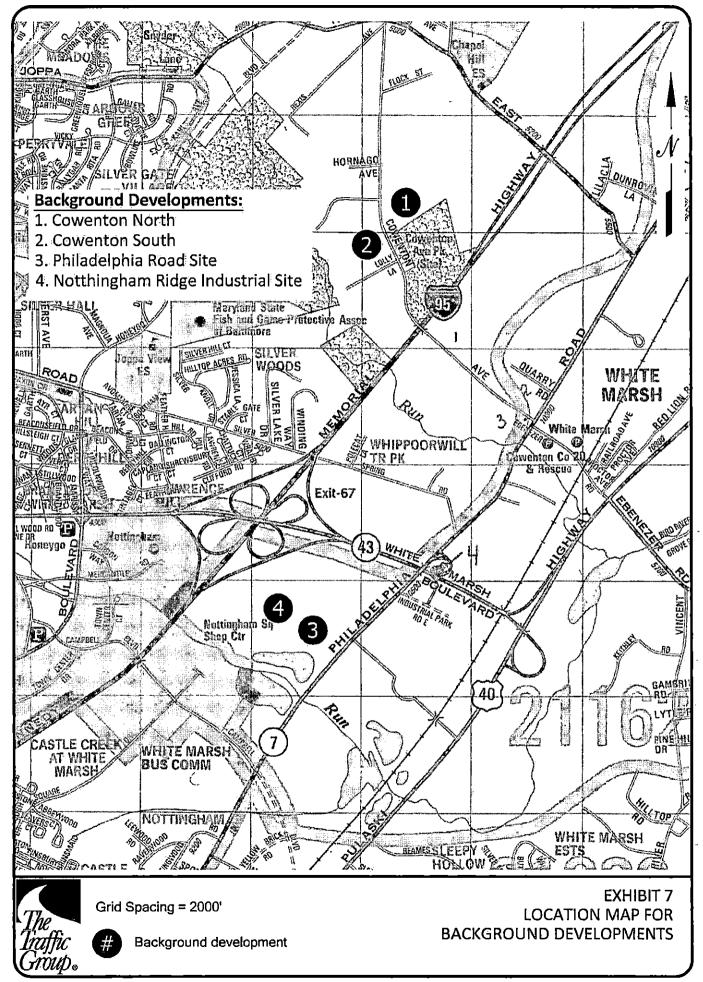
00 - MORNING PEAK HOUR (00) - EVENING PEAK HOUR

EXHIBIT 5 REGIONAL TRAFFIC GROWTH 1% FOR 3 YEARS





00 - MORNING PEAK HOUR (00) - EVENING PEAK HOUR EXHIBIT 6 2021 BASE PEAK HOUR TRAFFIC VOLUMES



Trip Generation for Background Developments

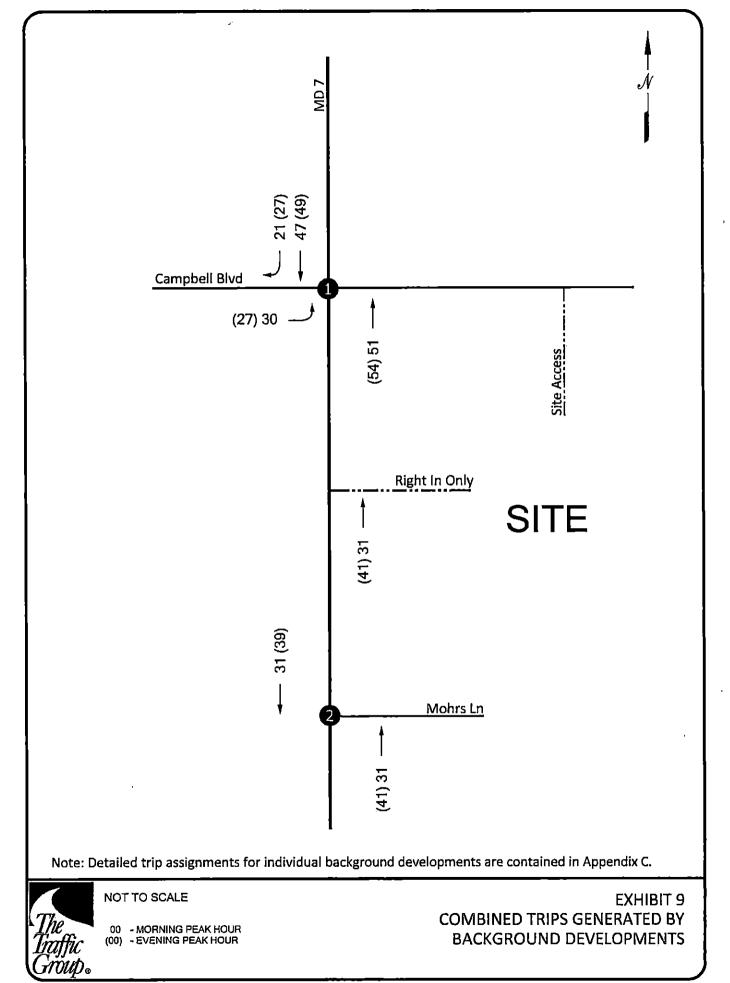
	Acceptation (Control of Control o	c:	_	A٨	/I Peāk H	our	PN	PM Peak Hour				
No.	Land. Use.	Siz	e	In	Out	Total	ln	Out	Total			
1.	Cowenton North						•	•	·			
	Single Family Detached	48	Units	11	32	43	34	20	54			
2.	Cowenton South											
	Residential Condominium	311	Units	22.	106	128	102	50	152			
	Retail	20,000	sq.ft.	36	22	58	98	106	204			
	Pass-by Trips (PM -34%)						<u>-33</u>	<u>-36</u>	<u>-69</u>			
	Net New Retail Trips			36	22	58	65	70	135			
3.	Philadelphia Road Commercial											
	Convenience Market w/Gas	5,200	sq.ft.	106	107	213	132	133	265			
	Pass-by Trips(AM -63%, PM-66%)	,		<u>-67</u>	<u>-67</u>	<u>-134</u>	<u>-87</u>	<u>-88</u>	<u>-175</u>			
	Net Trips			39	40	79	45	45	90			
	Automobile: Sales	35,000	sq.ft.	50	17	67	37	55	92			
	Hotel	125	Rooms	39	2 7	66	38	37	75			
	High Turn-over Restaurant	18,648	sq.ft.	111	91	202	110	74	184			
	Pass-by Trips (PM-43%)						-47	-32	-79			
	Net Trips			111	91	202	63	42	105			
	Coffee Shop	2,100	sq.ft.	108	103	211	45	45	90			
	Pass-by Trips (AM-89%, PM-89%)			<u>-96</u>	<u>-92</u>	<u>-188</u>	<u>-40</u>	<u>-40</u>	<u>-80</u>			
	Net Trips			12	11	23	5	5	10			
	Shopping Center	2,700	sq.ft.	11	6	17	25	28	53			
	Pass-by Trips (PM-34%)						<u>-9</u>	<u>-10</u>	<u>-19</u>			
	Net Retail Trips			11	6	17	16	18	34			
4.	Nottingham Ridge Industrial Site							•				
	High-Cube Warehouse/Distribution Center	586,50	0 sq.ft.	45	20	65	22	48	70			

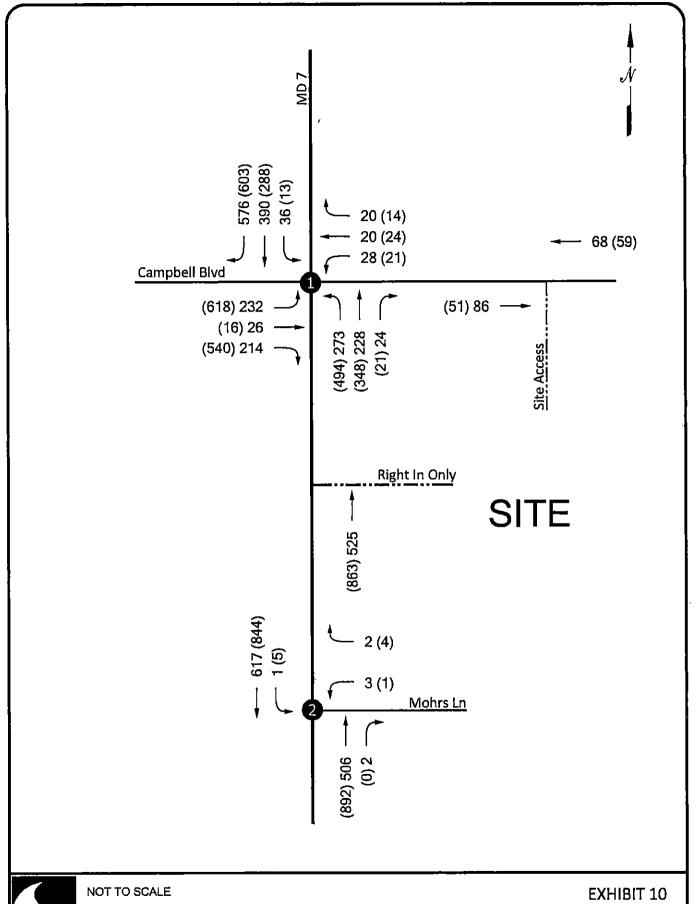
Note: 1. Background #1 ~#3 trip information obtained from Approved TIS for Philadephia Road Site, Dated August 3, 2017.

2. Background #4 trip information obtained from preliminary traffic study for Nottingham Ridge Industrial Site.



EXHIBIT 8
TRIP GENERATION FOR
BACKGROUND DEVELOPMENTS







00 - MORNING PEAK HOUR (00) - EVENING PEAK HOUR 2021 BACKGROUND PEAK HOUR TRAFFIC VOLUMES

TOTAL TRAFFIC CONDITIONS

Site Information

The proposed Wawa Site is located in the southeast quadrant of MD 7 at Campbell Boulevard in the White Marsh section of Baltimore County. A 4,737 sq. ft. convenience store is proposed to be developed on site. In addition, 12 fuel pumps will be available.

Access to the property is proposed to be one right-in along MD 7 and one full access point along Campbell Boulevard.

Trip Generation/Distribution

ITE's <u>Trip Generation Manual</u> (10th Edition) was again utilized to quantify the trips projected to be generated by the subject site. Because of the size of the convenience store, Land Use Code #960 was selected for this project which represents a super convenience store. As shown in Exhibit 11, a total of 394 morning peak hour trips and 328 evening peak hour trips are projected to be generated by the use.

The proposed use on site will generate a significant number of pass-by trips because of the nature of convenience retailing. As a result, pass-by trips were deducted based on data contained in ITE's <u>Trip Generation Handbook</u> (3rd Edition). The resulting new trips are summarized in Exhibit 11.

All site trips were distributed and assigned to the road network based on existing traffic patterns and anticipated future demand. The trip assignment for the site is summarized in Exhibit 12. The pass-by trips are shown in Exhibit 13.

Adding the site trips to the background peak hour traffic volumes results in the 2021 total peak hour traffic volumes as shown in Exhibit 14.

Analysis of Total Traffic Conditions

Intersection Capacity Analysis was again undertaken for the subject site, this time with consideration given to full development of the property. As shown in Exhibit 15, all intersections are projected to maintain Level of Service "C" or better conditions when considering full buildout when reviewing either CLV or Synchro results. Complete capacity worksheets can be found in Appendix B.

The SimTraffic queuing results are summarized in Exhibit 16. A review shows the Wawa site will add minimal vehicles to all queue lengths. With the exception of the northbound MD 7 left turn

to Campbell Boulevard, all queues can be accommodated within existing bays. The site will not add any traffic to this movement, and improvements to lengthen the existing bay are constrained by a culvert located to the south. As a result, no improvements are required.

To accommodate existing pedestrian demand, crosswalks and pedestrian phasing is proposed on the south and east legs of the intersection.

The right-in from MD 7 is proposed to be designed with channelization and flex posts to reinforce the right-in, only movement. This conceptual design has been approved by MDOT SHA.

A concept showing the proposed access improvements is included in Appendix D.

Trip Generation Rates

•	*Dir	*Directional Distribution								
Formula/Rate	AM Pea	PM Peak Hour.								
	IN	OUT	IN	OUT						
Super Convenience Market w/Gas (ksf, ITE-960)										
Morning Trips = 83.14 x ksf	50%	50%	50%	50%						
Evening Trips = 69.28 x ksf										

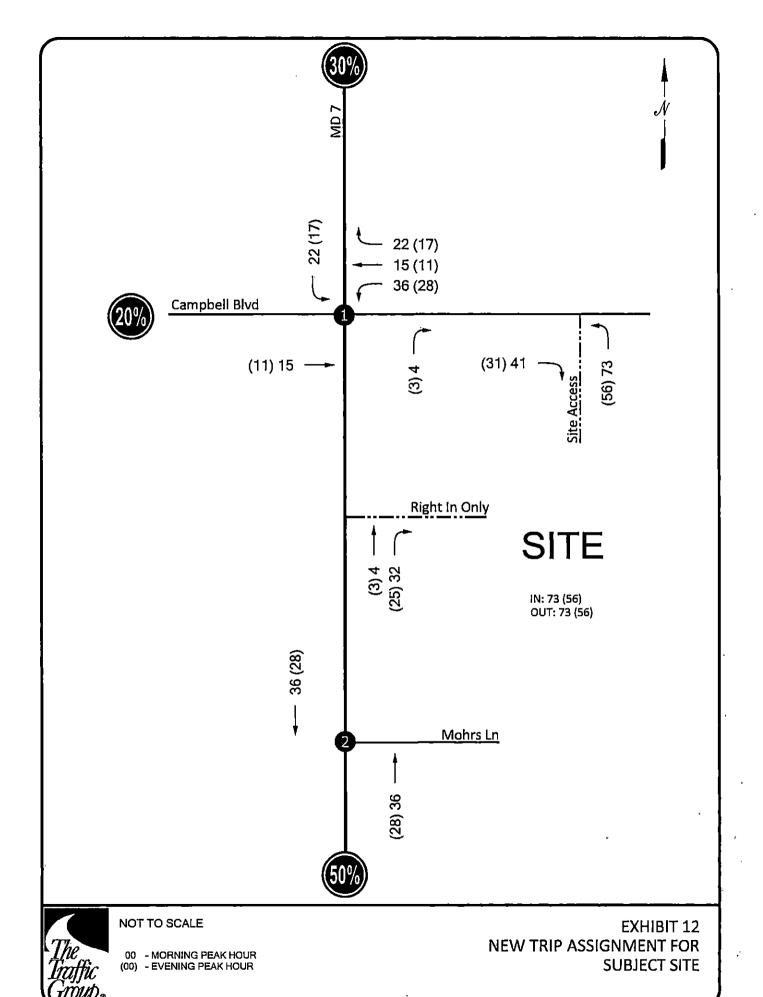
Trip Generation for Subject Site

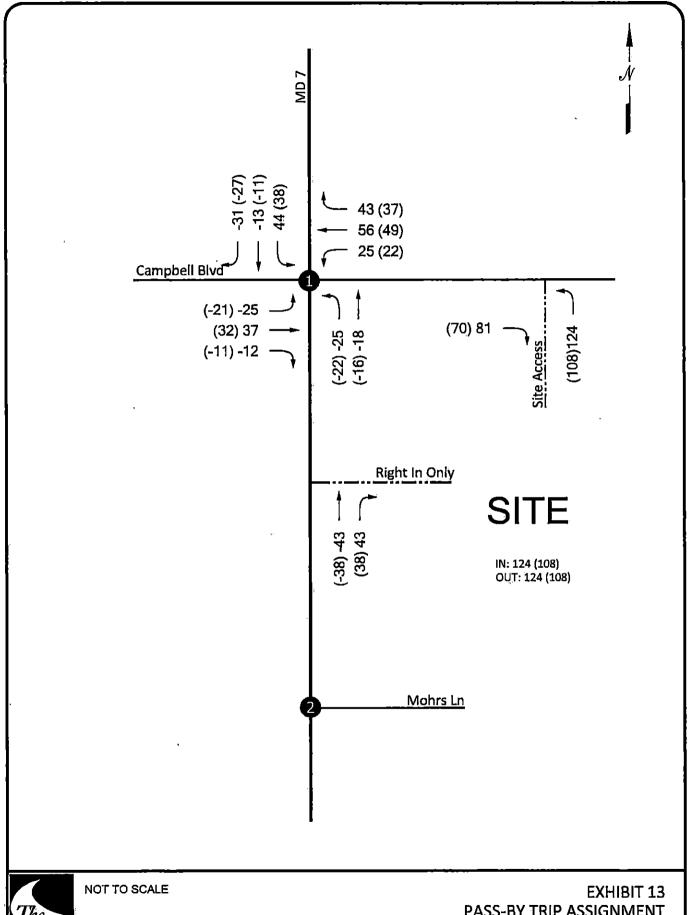
No. Journal Hom	Cinn	Αſ	VI Peak.Ho	our	PM Peak Hour					
No. Land Use	Size	ln	Out	Total	In	Out	Total			
Super Conv. Store w/Gas F	ump 4,737 sq.ft	197	197	394	164	164	328			
Pass-by	Trips (AM-63%, PM 66%)	<u>-124</u>	<u>-124</u>	<u>-248</u>	<u>-108</u>	<u>-108</u>	<u>-216</u>			
	Net New Trips	<i>73</i>	<i>7</i> 3	146	56	<i>56</i>	112			

١,



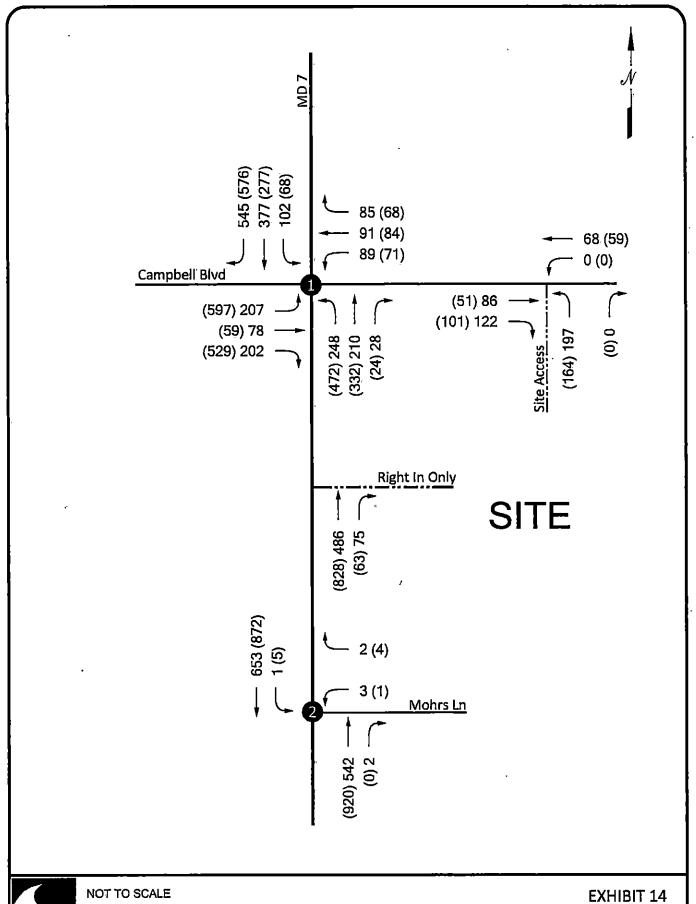
EXHIBIT 11 TRIP GENERATION FOR SUBJECT SITE





00 - MORNING PEAK HOUR (00) - EVENING PEAK HOUR

PASS-BY TRIP ASSIGNMENT FOR SUBJECT SITE





00 - MORNING PEAK HOUR (00) - EVENING PEAK HOUR 2021 TOTAL PEAK HOUR TRAFFIC VOLUMES

CLV	2018	2021	2021
	Existing Traffic	Background Traffic	Total Traffic
Morning Peak.Hour Traffic	LOS/CLV	LOS/CLV	LOS/CLV
1. MD 7 & Campbell Blvd	A/737	A/819	A/931
w/Proposed Community Enhancement Improvements			A/877
2. MD 7 & Mohrs Ln	A/576	A/624	A/660
Evening Peak Hour Traffic			
1. MD 7 & Campbell Blvd	B/1,078	C/1,170	C/1,262
w/Proposed Community Enhancement Improvements			B/1109
2. MD 7 & Mohrs Ln	A/836	A/902	A/930

нсм		2018 Existing Traffic.	2021 Background Traffic	2021 Total Traffic
Morning Peak Hour Traffic	Control Type	LOS/Delay	LOS/Delay	LOS/Delay
1. MD 7 & Campbell Blvd	Signal	C/21.8	C/22.4	C/30.9
EB		C/31.0	C/31.3	D/38.7
WB		D/48.3	D/48.2	D/50.7
NB		B/12.0	B/12.7	8/17.7
SB		B/18.7	C/20.4	C/24.8
w/Community Enhancement Improvements				C/32.7
EB	Signal			C/31.9
WB				D/40.8
NB				C/28.9
S8			 -	C/33.1
2. MD 7 & Mohrs Ln	Stop	<u>.</u>		
WB/LR - Mohrs Ln		C/16.8	C/18.3	C/19.7
SB/LT - MD 7		A/<1.0	A/<1.0	A<1.0
Evening Peak Hour Traffic				
1. MD 7 & Campbell Blvd	Signal	C/25.3	C/28.8	D/36.3
ЕВ		C/21.5	C/24.5	C/30.7
WB		D/49.4	D/52.7	D/52.9
NB		C/24.5	C/28.1	C/34.9
SB		D/39.4	D/42.9	D/47.8
w/Community Enhancement Improvements				D/35.4
EB				C/30.5
WB				D/47.8
NB				C/34.1
SB				D/46.9
2. MD 7 & Mohrs Ln	Stop			
WB/LR - Mohrs Ln		C/20.0	C/22.2	C/23.3
SB/LT - MD 7		A/<1.0	A/<1.0	A<1.0



EXHIBIT 15 RESULTS OF INTERSECTION CAPACITY ANALYSIS

SimTraffic 95th Queue Output

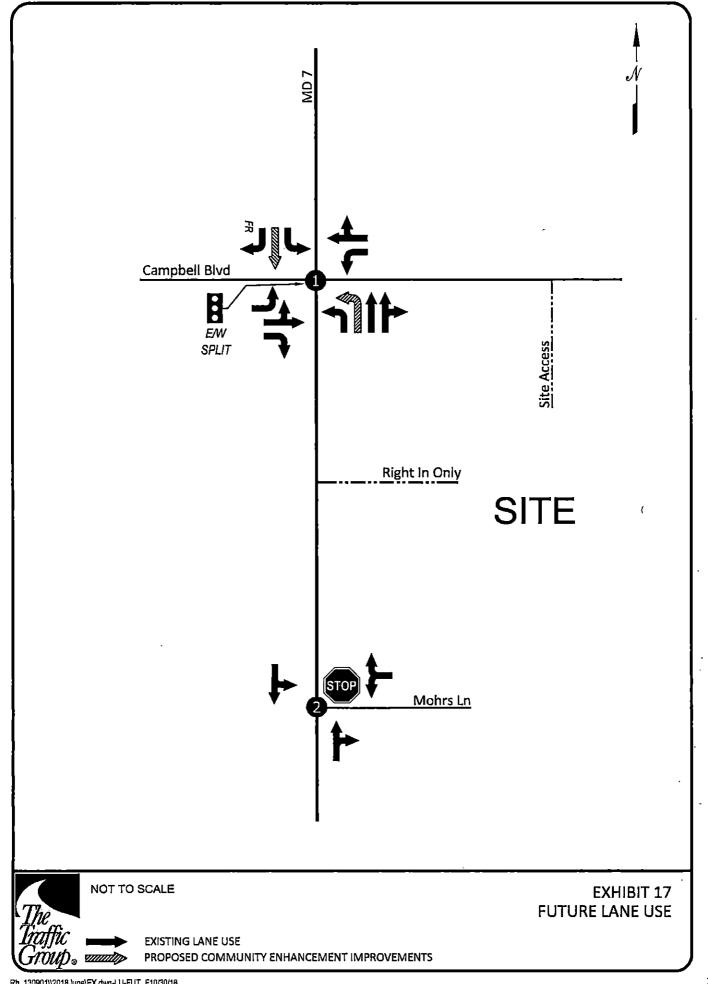
			<u>.</u>	×	95th C)ueue			
		2018 E	xisting	2021 Bac	kground	2021	Total	Total v	v/PCEI
Intersection	Storage Length	ΑM	₽M	AM	PM	AM	PM	AM	PM
1. MD 7 & Cam	pbell Bivd								!
EB/L	800	136	260	146	296	162	360	140	270
EB/LT	800	102	233	108	253	144	334	131	243
EB/R	200' + 100' Taper	60	100	64	115	64	164	89	177
WB/LT	200'	69	67	78	74	190	181	168	153
WB/R	200'	30	· 27	30	26	52	52	51	49
NB/L	220' + 75' Taper	142	273	154	306	169	316	119	199
NB/L	220' + 75' Taper							135	207
NB/T	>1000'	56	192	76	307	92	349	86	120
NB/TR	350'	56	131	71	193	89	204	83	114
SB/L	250' + TWLTL	44'	33	47	67	118	147	153	116
SB/T	>1000'	191	203	231	312	285	305	300	242
SB/T	>1000'	47	56	90	228	141	181		
2. MD 7 & Moh	rs Ln								
WB/LR	>500'	<25	<25	<25	<25	<25	26	<25	26
SB/LT	>1000'	<25	34	<25	45	31	63	<25	71

Note: 1. Results shown was average number of 10 simulation runs.

2. PCEI represents Proposed Community Enhancement Improvements.



EXHIBIT 16 RESULTS OF INTERSECTION QUEUE ANALYSIS (SIMTRAFFIC)



RESULTS, RECOMMENDATIONS, AND CONCLUSIONS

Study Purpose

The Traffic Group, Inc. has prepared this Traffic Impact Study to quantify the impact the proposed development of the Wawa Convenience Store and fuel pumps in the southeast quadrant of the intersection of MD 7 (Philadelphia Road) at Campbell Boulevard will have on surrounding traffic operations. Specifically, the convenience store will feature a footprint of 4,737 sq. ft. In addition, a total of 12 fuel dispensers will be constructed on site.

Access to the property is proposed via one full movement point along Campbell Boulevard just west of MD 7. In addition, a right-in is proposed along MD 7. Full buildout of the project is expected within three years.

Study Criteria/Methodology

This document has been prepared in accordance with requirements set forth by MDOT SHA and Baltimore County. All Intersection Capacity Analyses are conducted using CLV Methodology. In addition, a Synchro analysis has been developed for the study intersections to model traffic operations and quantify HCM levels of service. ITE's <u>Trip Generation Manual</u> (10th Edition) was utilized for all future trip projections.

Baltimore County's Basic Services Map for Transportation was consulted to confirm that the study intersection is not situated within a deficient traffic shed.

Summary of Findings and Recommendations

This analysis demonstrates that the study intersections currently exhibit acceptable levels of service. With the full buildout of the proposed Wawa, the intersections will maintain acceptable operations without the need for capacity related improvements when considering both CLV and HCM criteria.

Queuing was reviewed based on SimTraffic output for all study intersections. The analysis reveals that the development of Wawa will have a minimal impact on queuing. With the exception of the northbound MD 7 left turn movement at Campbell Boulevard, all turning demand can be accommodated within available storage bays. The site will not contribute any vehicles to this movement as only right turns in along MD 7 are proposed. As a result of traffic added to the intersection, the projected queue length increases by less than one vehicle, and improvements are not required.

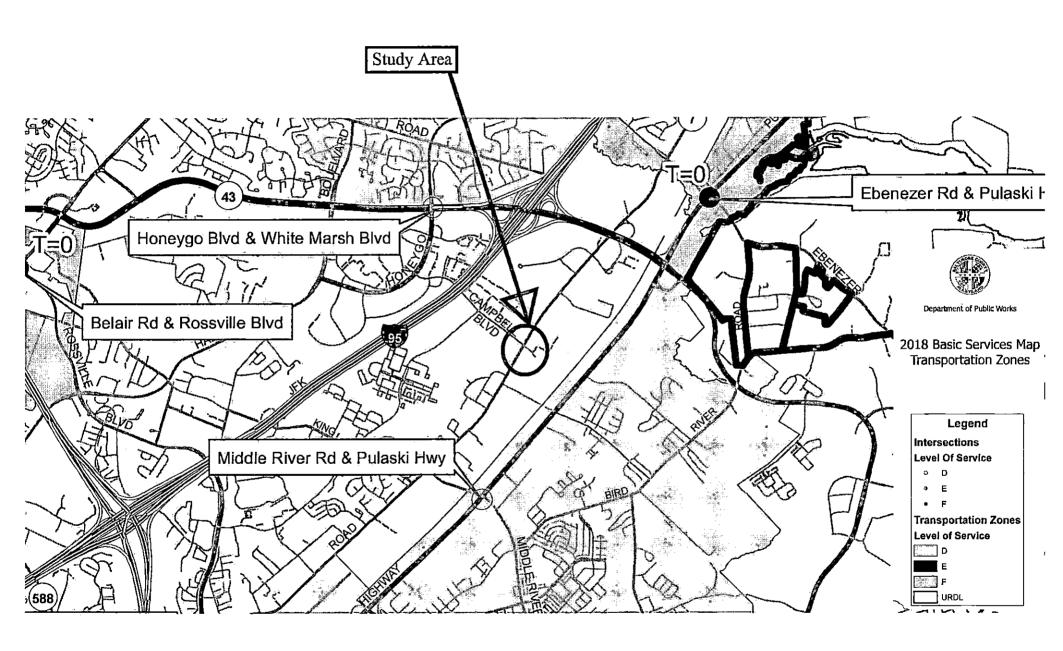
To accommodate existing pedestrian demand, crosswalks and pedestrian phasing is proposed on the south and east legs of the intersection.

It is our opinion that the subject site could be developed without need for additional improvements.

APPENDIX A

Intersection Turning Movement Counts and Aerial Photographs





4:45 - 5:45	5:00 - 6:00 PEAK HOUR	4:45 - 5:45	4:30 - 5:30	4:15 - 5:15	4:00 - 5:00	1 Hr Totals	2 Hr Totals	5:45 - 6:00	5:30 - 5:45	5:15 - 5:30	5:00 - 5:15	4:45 - 5:00	4:30 - 4:45	4:15 - 4:30	4:00 - 4:15	Md	7:30 - 8:30	8:00 - 9:00 PEAK HOUR	7:45 - 8:45	7:30 - 8:30	7:15 - 8:15	7:00 - 8:00	1 Hr Totals	2 Hr Totals	8:45 - 9:00	8:30 - 8:45	8:15 - 8:30	8:00 - 8:15	7:45 - 8:00	7:30 - 7:45	7:15 - 7:30	7:00 - 7:15	АМ							TOTALS TURNING MOVEMENT COUNT - SUMMARY
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PEDESTRIAN AND BICYCLE OBSERVATIONS - SUMMARY

Intersection of: MD 7

Counted by: VCU Date: May 10, 2018

Thursday

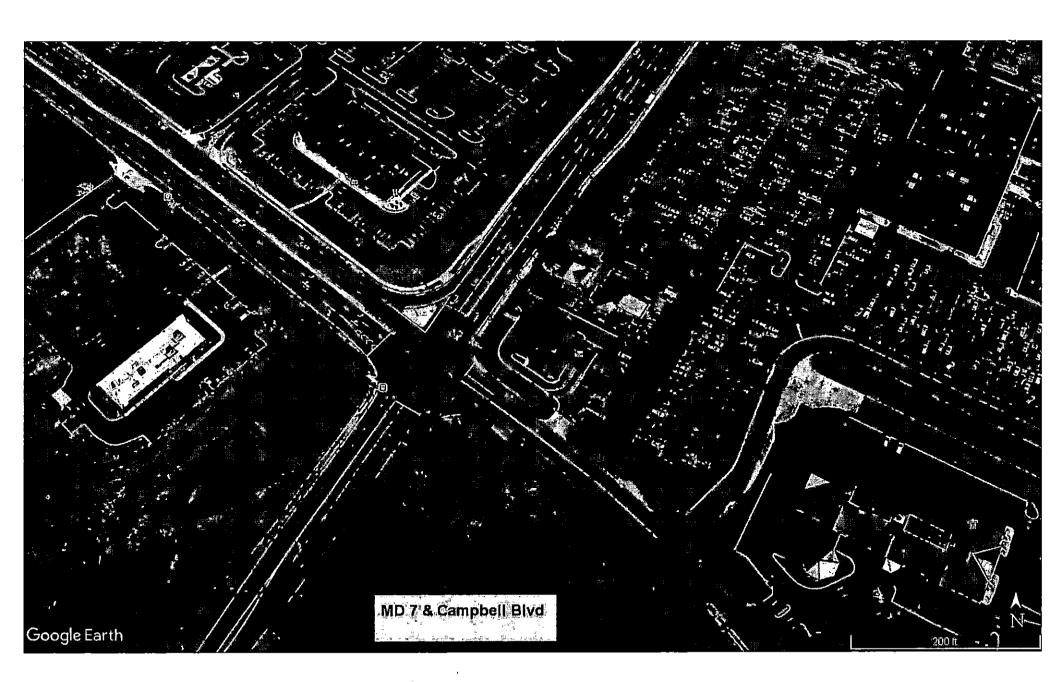
and: Campbell Boulevard

Weather: Sunny/Warm

The Traffic Group

	Location: Baltimore County, Maryla	nd	Entered by: SN	Star Rating: 4
	NORTH LE	EG .		ITH LEG MD 7
TIME	Pedestrians	Bicycles	Pedestrians	Bicycles
AM			- " -	
7:00 - 7:15	o	0	0	0
7:15 - 7:30	2	0	o	0
7:30 - 7:45	o	0	o	0
7:45 - 8:00	o	0	1	0
8:00 - 8:15	0	0	4	О
8:15 - 8:30	0	0	2	0
8:30 - 8:45	o	0	o	0
8:45 - 9:00	0	0	0	0
TOTALS	2	0	7	0
РМ				
4:00 - 4:15	o -	0	0	0
4:15 - 4:30	o l	0	0	0 .
4:30 - 4:45	О	0	o	0
4:45 - 5:00	0	0	0	0
5:00 - 5:15	1	0	0	0
5:15 - 5:30	1	0	O	o
5:30 - 5:45	0	0	0	0
5:45 - 6:00	a	0	a	0
TOTALS	Ž	Ō.	0	0
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	Pedestrians	Bicycles	Pedestrians	Bicycles
AM		<u> </u>		
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7:15 - 7:30	0	0	0	0
7:30 - 7:45	0	0	0	0
7:45 - 8:00	0	0	0	0
8:00 - 8:15	0	0	0	0
8:15 - 8:30	0	0	o	0
8:30 - 8:45	o	0	o	o
8:45 - 9:00	0	0	О	o
TOTALS	0	0	0	0
PM	-			
4:00 - 4:15	0	0	0	0
4:15 - 4:30	0	0	0	0
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TOTALS	0	0	0	0



8:00 - 9:00 PEAK HOUR 7:15 - 8:15 PM 2 Hr Totals 1 Hr Totals TOTALS TURNING MOVEMENT COUNT - SUMMARY 4:15 - 4:30 4:30 - 4:45 4:45 - 5:00 5:00 · 5:15 7:00 - 7:15 7:15 - 7:30 7:30 - 7:45 7:45 - 8:00 8:45 - 9:00 1 Hr Totals 2 Hr Totals 7:45 - 8:45 8:30 - 8:45 8:15 - 8:30 8:00 - 8:15 5:16 - 5:30 4:00 - 4:15 7:30 - 8:30 7:15 - 8:15 7:00 - 8:00 TIME Intersection of: MD 7 RIGHT 2 00000 0 0 000000 and: Mohrs Lane Location: Baltimore County, Maryland TRAFFIC FROM NORTH MD 7 THAU 203 177 568 553 549 569 14.5 14.5 13.6 7 2 2 3 191 187 199 192 190 196 138 128 S 돌 TOTAL 192 188 200 195 203 559 570 570 556 552 768 778 196 191 129 2 4 4 3 3 ROH 2 00000000 40040 TRAFFIC FROM SOUTH MD 7 THE 8 4 4 46.26 127 88 雪 0000 돌 000000 TOTAL 4 4 4 7 101 122 127 113 Counted by: VCU Entered by: RIGHT Date: May 10, 2018 9 TRAFFIC FROM EAST Mohrs Lane THRU 텰 Ę 00000 00000 TOTAL 4 0 0 0 0 3 Thursday 喜 TRAFFIC FROM WEST Star Rating: 00000 픧 00000 돌 000000 000000 00000 TOTAL Tiuffic Croup 000000 00000 m + + € S+N N+S 1617 1580 1617 1571 1542 370 398 413 399 407 352 384 386 3089 990 1038 1037 1002 1004 1509 1038 208 241 267 274 276 256 240 232 276 1994

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TOTALS	0	0	0	0				
PM								
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4:15 - 4:30	0	0		1				
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5:00 - 5:15	a	0						
5:15 - 5:30	0	0						
5:30 - 5:45	0	0						



APPENDIX B

Intersection Capacity Analysis Worksheets



CRITICAL LANE VOLUME (CLV) METHODOLOGY for MSHA

E/W Road: Campbell Blvd

N/S Road: MD 7

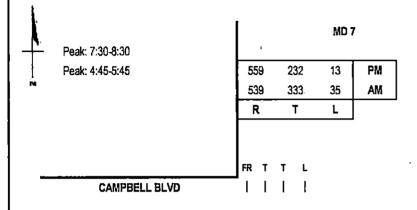
Conditions: 2018 Existing Traffic

Date of Count: 5/10/2018 Day of Week: Thursday

Analyst: Richard Huang



rh, 130901\\2018june\clv\1.xls-clv, f07/20/18



19 14 <u>—</u> LT 7 19 23 27 20 AM PM

CAMPBELL BLVD

L L-	Т		
		196	574
T LT		25	16
R R		208	524

Note: SB lane use factor was adjusted based on ovserved traffic volumes.

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	L	T TR
Г	т т	R
		
265	172	23
479	285	20
<u></u>		
MD 7		
	479	L T 265 172 479 285

Capacity Analysis - East/West Split

	Morning Peak Hour									
	Thru Volumes + Opposing Lefts				AM					
Dir [VOL	x LUF	= Total	VOL	x LUF	= Total.	CLV			
ЕВ	221	0.60	133				133			
WB	46	1.00	46				46			
NB	195	0.55	107	35	1,00	35	-			
							558			
SB	333	0.88	293	265	1.00	265				

CLV TOTAL= Level of Service (LOS)=

AM V/C =0.46

	_		Evening	j Peak Ho	DUT		
	7	hru Volum	es	+(Opposing 1	.efts	PM
Dir	VOL.	x LUF	= Total	VOL	x LUF	= Total	CLV
EΒ	590	0.60	354				354
WB	43	1.00	43				43
NB	305	0.55	168	13	1.00	13.	681
SB	232	0.87	202	479	1.00	479	1 078

Level of Service (LOS)=

PM V/C =0.67

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CRITICAL LANE VOLUME (CLV) METHODOLOGY for MSHA

E/W Road: Campbell Blvd

N/S Road: MD7

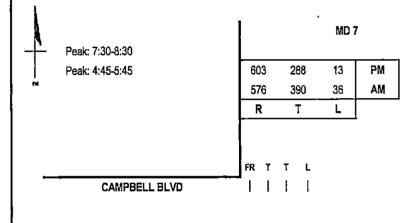
Conditions: 2021 Background Traffic

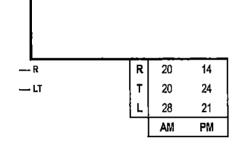
Date of Count: 5/10/2018

Day of Week: Thursday

Analyst: Richard Huang







		AM	PM
L —	ŗ	232	618
LT —	Т	26	16
R —	R	214	540

Note: SB lane use factor was adjusted based on ovserved traffic volumes.

		1	1 1	CAMPBELL BLVD
		Ļ	T TR	
	L_L	Т	R	
AM	273	228	24	
PM	494	348	21	
	····			
	MD 7			

Capacity Analysis - East/West Split

Morning Peak Hour									
	Thru Volumes + Opposing Lefts						AM		
Dir	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV		
EB	258	0.60	155			-	155		
WB	48	1,00	48			_	48		
NB	252	0.55	139	36	1.00	36			
1							616		
SB	390	0.88	343	273	1.00	273			

CLV TOTAL= Level of Service (LOS)=

,,		•••		
	AM	V/C	=0.	51

	Evening Peak Hour									
	Thru Volumes + Opposing Lefts					efts	PM			
Dir	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV			
ЕВ	634	0.60	380				380			
WB	45	1.00	45				45			
NB	369	0.55	203	13	1.00	13				
				1			745			
SB	288	0.87	251	494	1.00	494				
				•						

CLV TOTAL= Level of Service (LOS)= C

PM V/C =0.73

rh, 130901\\2018june\clv\1.xls-clv, f07/20/18

CRITICAL LANE VOLUME (CLV) METHODOLOGY for MSHA

E/W Road: Campbell Blvd

N/S Road: MD7

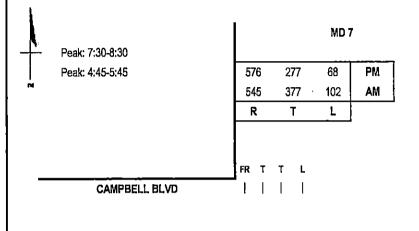
Conditions: 2021 Total Traffic

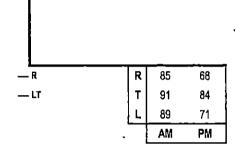
Date of Count: 5/10/2018

Day of Week: Thursday

Analyst: Richard Huang







CAMPBELL BLVD

		AM	PM
ե—	L,	207	597
LT	T	78	59
R —	R	202	529
1			

Note: SB lane use factor was adjusted based on ovserved traffic volumes.

		,	· · · ·				
		L	T TR				
	L	τ	R				
AM	248	210	28				
PM	472	332	24				
MD 7							

Capacity Analysis - East/West Split

Morning Peak Hour									
		Thru Volumes + Opposing Lefts							
Dir	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV		
EB	285	0.60	171				171		
WB	180	1.00	180				180		
NΒ	238	0.55	131	102	1.00	102			
							580		
SB	377	0.88	332	248	1.00	248			

CLV TOTAL= 931

Level of Service (LOS)= A

AM V/C =0.58

Evening Peak Hour										
	Ţ	hru Volun	nes	+(Opposing	Lefts	PM			
Dir	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV			
EB	656	0.60	394		•		394			
WB	155	1.00	155				155			
NB	356	0.55	196	68	1.00	68				
				:			713			
SB	277	0.87	241	472	1.00	472				

CLV TOTAL= 1,262
Level of Service (LOS)= C

PM V/C =0.79

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CRITICAL LANE VOLUME (CLV) METHODOLOGY for MSHA

E/W Road: Mohrs Ln N/S Road: MD 7

Conditions: 2018 Existing Traffic

Date of Count: 5/10/2018

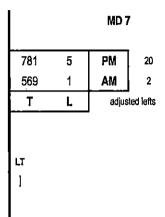
Day of Count: Thursday

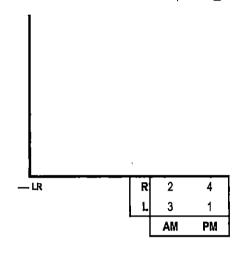
Analyst: Richard Huang

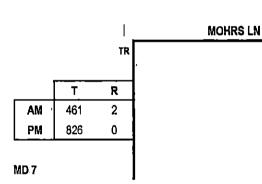




Peak: 7:15-8:15 Peak: 4:15-5:15







Capacity Analysis

			Mornin	g Peak H	DUT		
		Thru Volu	mes	+(Opposing	Lefts	AM
Dir	VOL	x ĻUF	= Total	VOL	x LUF	= Total	CLV
WB	5	1.00	5				5
NB	463	1.00	463	1	1,00	1	571
SB	571	1.00	571				3/1

CLV TOTAL= 576
Level of Service (LOS)= A

	Evening Peak Hour											
		Thru Volui	nes	+(Opposing	Lefts		PM				
Dir	VOL	x LUF	= Total	VOL	x LUF	= To	tal	CLV				
WB	5	1.00	5					5				
NB	826	1.00	826	5	1.00	5	5	831				
SB	801	1,00	801		CLV TO	TAI =		836				

Level of Service (LOS)= A

CLV V/C =0.52

Scenario ID - EXIST2

CLV V/C =0.36

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CRITICAL LANE VOLUME (CLV) METHODOLOGY for MSHA

E/W Road: Mohrs Ln N/S Road: MD 7

Conditions: 2021 Background Traffic

Date of Count: 5/10/2018

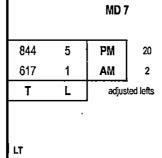
Day of Count: Thursday

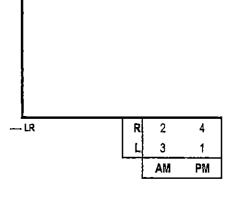
Analyst: Richard Huang



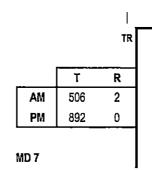


Peak: 7:15-8:15 Peak: 4:15-5:15





MOHRS LN



Capacity Analysis

Morning Peak Hour										
		Thru Volu	mes	+(Opposing	Lefts	AM			
Dir	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV			
WB	5	1.00	5				5			
NB	508	1.00	508	1	1.00	1	619			
SB	619	1.00	619		011170		204			

CLV TOTAL= 624
Level of Service (LOS)= A

			our					
		Thru Volu	nes	+(Opposing	Lefts		PM
Dir	VOL	x LUF	= Total	VOL	x LUF	= To	tai	CLV
WB	5	1,00	5					5
NB SB	89 <u>2</u> 864	1.00	892 864	5	1.00	5	j	 897
لتت	351			!	CLV TO	TAL=		902

Level of Service (LOS)= A

CLV V/C =0.56

Scenario ID - BACK2

CLV V/C = 0.39

rh, 130901\\2018june\c\\2.xls-clv, f07/03/18

CRITICAL LANE VOLUME (CLV) METHODOLOGY for MSHA

E/W Road: Mohrs Ln N/S Road: MD·7

Conditions: 2021 Total Traffic

Date of Count: 5/10/2018

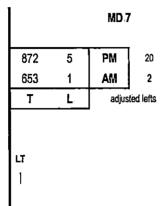
Day of Count: Thursday

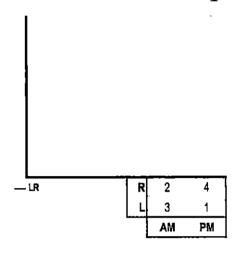
Analyst: Richard Huang

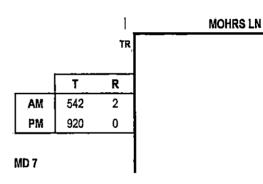




Peak: 7:15-8:15 Peak: 4:15-5:15







Capacity Analysis

			Mornis	g Peak H	our .		
Ī		Thru Volu	mes	+(Opposing	Lefts	AM
Dir	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV
WB	5	1.00	5				5
NB	544	1.00	544	1	1.00	1	655
SB	655	1.00	655				033
					CLV TO	TAI =	660

CLV TOTAL= 660

Level of Service (LOS)= A

CLV V/C =0.41

			Evenin	g Peak H	our		
		Thru Volut	mes	+(Opposing	Lefts	PM
Dir	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV
WB	5	1.00	5	·			5
NB	920	1.00	920	5	1.00	5	925
SB	892	1.00	892		CLVTO		920

CLV TOTAL= 930
Level of Service (LOS)= A

CLV V/C =0.58

Scenario ID - TOT2

m

	<u></u>	→	~	1	←	•	•	<u>†</u>	<u></u>	<u> </u>	_	4
Movement - Land	# EBU	F EBTO	EBR	WBL	AWBTA	WBR	⊉3NBL.	BNBT %	UNBR.	S SBL	SBT	SBR
Lane Configurations	ኻ	4	77		4	74	*	1 12		75	个 个	*
Traffic Volume (veh/h)	196	25	208	27.	19	. 19	265	172	23	35	¥ 333	539
Future Volume (veh/h)	196	25	208	27	19	19	265	172	23	35	333	539
Number .	. 7	4	14.	3	8	. 18	5	2	. 12	1	6	. 16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1,00	D	1.00	1:00		1.00	1.00	4,50	1(00,	1.00	· · · · · · · · · · · · · · · · · · ·	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1,00
Adj Sat Flow, veh/h/ln	1863	1863	1863	1900	1863	1863	1863	1863	1900	1863	1863	1863
Adj Flow Rate, veh/h	225	0	219	28	20	20	279	181	24	37	351	0
Adj No. of Lanes	- 2	0:	1	0	1	1	1	2	0-	1	2	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2⁄	2	2	2	2	2
Cap, veh/h	549	0	426	43	31	65	593	1583	207	618	883	658
Arrive On Green	0.15	0.00	0.15	0.04	0.04	0.04	0:11	0.50	0.50	0.03	0.42	0.00
Sat Flow, veh/h	3548	0	1583	1056	754	1583	1774	3148	412	1774	2124	1583
Grp Volume(v), veh/h	225	0.4	Nick Control of the	48	0	20	279	101	104	- 37		0
Grp Sat Flow(s),veh/h/ln	1774	0	1583	1810	0	1583	1774	1770	1790	1774	1062	1583
Q Serve(g_s), s	5.0	and the second s	and the second second	2.3	0.0		7.3		2.7	ો1.0	10.1	District and the second
Cycle Q Clear(g_c), s	5.0	0,0	10.3	2,3	0.0	1.1	7.3	2.6	2.7	1.0	10,1	0.0
Prop In Lane	1.00		1.00	0,58	, Marian	1.00	1.00		0.23	1.00	india de la companya	1.00
Lane Grp Cap(c), veh/h	549	0	426	74	0	65	593	890	900	618	883	658
V/C Ratio(X)	0.41	0:00	0.51	0.64	0.00	0,31,	. 0.47	0.11	0:12	0.06	0.40	0.00
Avail Cap(c_a), veh/h	1014	0	633	372	0	326	917	890	900	752	883	658
HCM Platoon Ratio	1:00	1.00	1.00	1.00	1.00	1.00	1.00	1:00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00.
Uniform Delay (d), s/veh	33.4	0.0	27.1	41.3	0.0	40.7	11.5	11.5	11.5	13.9	17.9	0.0
Incr Delay (d2), s/veh	0.5	0.0	1.0	9.0	0.0	2.6	0.6	0.3	0.3	0.0	1.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	· 0:0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	0.0	4.6	1.3	0.0	0.5	3.6	1.3	1.4	0.5	3.1	0.0
LnGrp Delay(d),s/veh	33.9	0.0	28.1	50.3,	0,0	43.4	12.1	11!7	11.7	13.9	19.2	0.0
LnGrp LOS	C	MAN SECTION AND SE	C	D	9 809 Mg	D	B	В	В	В	8 	entinos e vid
Phhiogoliskol' Acivit.		444					Star No.	747	# 197.g :	. 412409	700	
Approach Delay, s/veh		31.0	······································	·	48.3	man (William man	in the second	12.0	ma naman inga gapata	ens militarieme	18.7	-
Approach LOS 🔮 💮	A CONTRACTOR	iệ⊁ Ci-≸	, At	1/100	:≇* D×	. A A	4,42	· 8			ъ В	Maria I
illmer	- A	. 2	3	4 .4	5	6	10.70	6.	j.		e de la companya de	
Assigned Phs		2		4	5	* 6		8	* Zeri	437	1	W. 47
Phs Duration (G+Y+Rc), s	8.4	50.0	of Marie Marie Marie Sanction of the	19.5	16.0	42.4		9.6				i
Change Period (Y+Rc), s	6.0	- 6.0· ·	*852	6.0	6.0		r e		· · · Žigingi s	- SE - C	n Se	
Max Green Setting (Gmax), s	9.0	44.0	Land The project of the corn.	25.0	26.0	27,0	and the state of t	18.0	Olem married transfer Line 2 A St. St. St. St.	an ann an air an ai	anni e 12st triustramanan 7.i.	ilinite manuscrattiis
Max Q Clear Time (g_c+l1); s		4.7	e i Vari	12.3	9:3	12:1		4.3		55	445.00	9
Green Ext Time (p_c), s	0.0	1.1	etakken endys ett Europe	1.3	0.7	1.8	ana at 1966 di sebenara dhe anno i el l	0.2	neer milimuuni militti (rustuur)	nermannet de la Marie de la mate e de mais e	maren (1866), resemble terremental (1866)	anna treathail teanna i le
Intersection Summary	1 3					0.00	. W .			1.34		50
HCM 2010 Ctrl Delay			21.8									
HCM 2010 LOS			C	in the same	6 g				The state of the s	- 5	4	
Notes	AWY.				441	1887				ndi.	wini	

11/07/2018

Page 1

Future Volume (veh/h) 5. Number Initial Q (Qb), veh Ped-Bike Adj(A_pbT) 1.0 Parking Bus, Adj 1.0 Adj Sat Flow, veh/h/ln: 180	74 16 74 16 77 4 0 0 00 1.00 00 1.00 03 1863 03 0 2 0 97 0.97 2 2 07 0 28 0.00 48 0	0 1.00 1.00 1863 540 1 0.97 2 858 0.28	20 20 3 0 1:00 1.00 1.00 21 0 0.97 2 32	23 23 23 8 0 1.00 1863 24	14 14 14 1.00 1.00 1.00 1.863 14 1 0.97	NBL 479 479 479 0 1,00 1,00 1863 494 1 0,97	285 285 285 0 0 1.00 1863 294 2 0.97	20 20 212 0 1000 1.00 1.900 21 0	13 13 13 14 0 1.00 1.00 1863 13 1 0.97	\$BT\\ \frac{1}{4}\\ 232\\ 232\\ 6\\ 0\\ 1.00\\ 1863\\ 239\\ 2\\ 0.97	559 559 559 16 0 1.00 1.00 1863 0
Future Volume (veh/h) 5	74 16 74 16 74 16 77 4 0 0 00 00 1.00 63 1863 03 0 2 0 97 0.97 2 2 07 0 28 0 00 48 0	524 524 14 0 1.00 1.00 1.863 540 1 0.97 2 858 0.28	20 31 0 1.00 1.00 1900 21 0 0.97 2	23 23 8 0 1.00 1863 24 1 0.97	14 14 18 0 1.00 1.00 1.863 14 1 0.97 2	479 479 0 1,00 1,00 1,663 494 1 0,97	285 285 0 1.00 1863 294 20.97	20 0 1100° 1.00° 1.00 21 0 0.97	13 13 0 1.00 1.00 1863 13	232'- 232 6- 0 1.00 1863'- 239	559 16 0 1.00 1.00 1863 0
Future Volume (veh/h) 5. Number Initial Q (Qb), veh Ped-Bike Adj(A_pbT) 1.0 Parking Bus, Adj 1.0 Adj Sat Flow, veh/h/ln 180 Adj Flow Rate, veh/h 60 Adj No. of Lanes Peak Hour Factor 0.0 Percent Heavy Veh, % Cap, veh/h 100	74 16 7 4 0 0 00 00 00 1.00 63 1863 03 0 2 0 97 0.97 2 2 07 0 28 000 48 0	524 14 0 1.00 1.00 1863 540 1 0.97 2 858 0.28	20 31 0 1.00 1.00 1900 21 0 0.97 2	23 8 0 1.00 1863 24 1 0.97	14 0 1.00 1.00 1.00 1863 14 1 0.97	479 0 1,00 1,00 4,863 494 1 0,97	285 0 1.00 1863 294 2.0.97	20 0 1100° 1.00° 1.00 21 0 0.97	13 0 1.00 1.00 1.863 13	232 6 0 1.00 1863 239 2	559 16 0 1.00 1.00 1863 0
Number Initial Q (Qb), veh Ped-Bike Adj(A_pbT) 1.0 Parking Bus, Adj 1.0 Adj Sat Flow, veh/h/ln 180 Adj Flow Rate, veh/h 60 Adj No. of Lanes Peak Hour Factor 0.0 Percent Heavy Veh, % Cap, veh/h 100	7 4 0 0 00 00 1.00 63 1863 03 0 2 0,97 2 2 07 0.97 2 2 07 0	14 0 1.00 1.00 1863 540 1 0.97 2 858 0.28	3 0 1:00: 1.00 1900 21 0 0.97 2	1.00 1863 24 0.97	18 0 1.00 1.00 1863 14 1 0.97	0 1.00 1.00 1.00 494 1 0.97	1.00 1863 294 20.97	0 1000 1.00 1.00 1900 21 0 0.97	0 1.00 1.00 1.00 1863 13	1.00 1863 239 2*	16 0 1.00 1.00 1863 0
Initial Q (Qb), veh Ped-Bike Adj(A_pbT) 1.0 Parking Bus, Adj 1.0 Adj Sat Flow, veh/h/ln 180 Adj Flow Rate, veh/h 60 Adj No. of Lanes Peak Hour Factor 0.0 Percent Heavy Veh, % Cap, veh/h 100	0 0 00 1.00 63 1863 03 0 2 0,97 97 0.97 2 2 07 0 28 0.00 48 0	0 1.00 1.00 1863 540 1 0.97 2 858 0.28	0 1:00 1.00 1900 21 0 0.97 2 32	0 1.00 1863 24 1 0.97	0 1.00 1.00 1863 14 1 0.97	0 1,00 1,00 4,863 494 1 0,97	1.00 1863 294 2 0.97	0 1,00 1.00 1,900 21 0 0.97	0 1.00 1.00 1863 13	0 1.00 1863 239 2*	0 1.00 1.00 1863 0
Ped-Bike Adj(A_pbT) 1.1 Parking Bus, Adj 1.1 Adj Sat Flow, veh/h/In 18 Adj Flow Rate, veh/h 6 Adj No. of Lanes 9 Peak Hour Factor 0.9 Percent Heavy Veh, % 0 Cap, veh/h 10	00 1.00 63 1863 03 0 2 0, 97 0.97 2 2 07 0 28 0.00 48 0	1.00 1.00 1863 540 1 0.97 2 858 0.28	1:00 1.00 1900 21 0 0.97 2 32	1.00 1863 24 1 0.97 2	1.00 1.00 1863 14 1 0.97	1,00 1,00 1863 494 1 0,97	1.00 1863 294 2 0.97	1:00+ 1.00 1900 21 0- 0.97	1.00 1.00 1863 13	1.00 1863 239 23	1.00 1.00 1863 0
Parking Bus, Adj 1.1 Adj Sat Flow, veh/h/In 188 Adj Flow Rate, veh/h 60 Adj No. of Lanes 9 Peak Hour Factor 0.9 Percent Heavy Veh, % 0 Cap, veh/h 100	00 1.00 63 1863 03 0 2 0,97 2 2 07 0 28 0,00 48 0	1.00 1863 540 1 0.97 2 858 0:28	1.00 1900 21 0 0.97 2 32	1863 24 1 0.97 2	1.00 1863 14 1 0.97 2	1.00 1863 494 1 0.97	1863 294 2 0.97	1.00 1900 21 0 0.97	1.00 1863 13	1863 239 2	1.00 1863 0 1
Adj Sat Flow, ven/h/ln 188 Adj Flow Rate, veh/h 60 Adj No. of Lanes Peak Hour Factor 0.9 Percent Heavy Veh, % Cap, veh/h 100	63 1863 03 0 2 0 97 0.97 2 2 07 0 28 0.00 48 0	1863 540 1 0.97 2 858 0:28	1900 21 0 0.97 2 32	1863 24 1 0.97 2	1863 14 1 0.97 2	1863 494 1 0.97	1863 294 2 0.97	1900 21 0 0.97	1863 13	1863 239 2	1863 0 1
Adj Flow Rate, veh/h 60 Adj No. of Lanes Peak Hour Factor 0.9 Percent Heavy Veh, % Cap, veh/h 100	03 0 2 0,97 97 0.97 2 2 07 0 28 0.00 48 0	540 1 0.97 2 858 0.28	21 0 0.97 2 32	24 1 0.97 2	14 0.97 2	494 1 0.97	294 2 0.97	21 0 0.97	13 . 1	239 2	0 1
Adj No. of Lanes Peak Hour Factor O.: Percent Heavy Veh, % Cap, veh/h 100	2 0, 97 0.97 2 2 07 0 28 0.00 48 0	10.97 2 858 0.28	0.97 2 32	1 0.97 2	0.97 2	1 0.97	0.97	0.97	1	2⁴	1
Peak Hour Factor 0.9 Percent Heavy Veh, % Cap, veh/h 100	97 0.97 2 2 07 0 28 0.00 48 0	0.97 2 858 0.28	0.97 2.* 32	0.97 2	0.97	0.97	0.97	0.97	ani anamana makamana ma	and the second second second second	oranional drivings of
Peak Hour Factor 0.9 Percent Heavy Veh, % Cap, veh/h 100	2 2 07 0 28 0.00 48 0	2 858 0:28	2. 32	2	2				0.97	0.97	0.07
Percent Heavy Veh, % Cap, veh/h 100	2 2 07 0 28 0.00 48 0	858 0:28	32	2		ባ:	-	Management and the second			0.97
Cap, veh/h 100	28 0.00 48 0	0:28		36		_ Δ΄	2	2	2	2	2
	48 0	and the same of the same of the	0.04		59	582	1299	92	256	307	225
A CONTROL OF THE PROPERTY OF T	48 0	and the same of the same of the	0.04	0.04	0:04	0.26	± 0,39	0.39	0.01	0.14	0.00
Sat Flow, veh/h 35	00	1583	849	971	1583	1774	3352	238	1774	2161	1583
Grp Volume(v), veh/h 6	03 0	540	45	. 0.1	14	494	154	161	13	239	0,
Grp Sat Flow(s), veh/h/ln 17	na ann an	1583	1820	0	1583	1774	1770	1821	1774	1080	1583
	2.6 0.0		2.1	0.0	0.7	19.2	5.0	5.1	0.5	9.2	0.0
Cycle Q Clear(g_c), s 12		20.4	2.1	0.0	0,7	19.2	5.0	5.1	0.5	9.2	0.0
	00	1.00	0.47		1.00	1.00	e Helionia I	0:13:	1,00		1.00
Lane Grp Cap(c), veh/h 10		858	68	0	59	582	686	706	256	307	225
V/C'Ratio(X) 0.		0:63	0.67	0.00	0.24	0.85	0.23	0.23	0.05	0.78	0.00
Avail Cap(c_a), veh/h 11		905	338	0	294	722	905	931	420	603	442
	00 1.00		1:00	1.00	1.00	1.00.	1.00	1.00	1.00	1:00	1.00
	00.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
	6 0.0	13.7	40.9	0:0	40.2	20.9	17.7	17.7	31.0	35.6	0.0
).7 0.0	1.3	10.7	0.0	2.1	7.9	0.2	0.2	0.1	4.3	0.0
	0.0	0.0	0.0	0.0	0.0	0:0'	0.0	0:0	0.0	0.0	0.0
	3.3 0.0	9,1	1.3	0.0	0.4	10.5	2.5	2.6	0.3	2.9	0.0
EnGro Delay(d) s/veh 2/				0.0		28.8	17.8	17.9	31:1	39.9	
LnGrp LOS	C	В	D D	Name of the last o	D	C	В	В	C	D	N. S. A. C. S.
Approach Vol. veh/h	1143			59		- Area	809			252	ì
Approach Delay, s/veh	21.5			49.4			24.5	illine mid men	in more and a second	39.4	···
The state of the s	Z1.3	· O++++++++++++++++++++++++++++++++++++	(,6%,		jisi (27.5 C		Herenando originamento	00.7 D	
	· · · · · · · · · · · · · · · · · · ·										
Himer Case : Service of the Second					6:1	7-4	The second second	11.		mild De	Mark Co.
Assigned Phs			4 4		6	**************************************	8		2 200	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	***************************************
	7.1 39.4		30.4	28.2	18.2		9.2				ورونيات ماليستونين و
	6.0		6.0	6.0	6.0	. Zadow Bogomagi	-6.0		·		······································
	0.0 44.0		27.0	29.0	24.0		16.0				
	2:5 7:1		22.4	21.2	11.2		4.1	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Green Ext Time (p_c), s).0 1.8		2.0	1.0	1.0		0.1				
Intersection Summary				7		3		7 · 7 · 7 · 7		61.	
HCM 2010 Ctrl Delay		25.3								-11. 12.00 [11.	
The second secon	A many majority	THE PERSON NAMED IN COLUMN PARTY.			All alternation			* 1		A CONTRACTOR OF THE PARTY OF TH	- Contract Contract
Notes - Market - Market	AND A CORD NAMED WAS IN PROPERTY OF THE PARTY OF T		78-80-E		1k#96	1 14-1713	* 3 * 2		14 7 J	40.00	260

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Movement	C EBL	E YEBIN	EBR	WBIG	-WBT-	WER	NBL	NBT	NBR.	SBL	SBT	SBR
Lane Configurations	7		7		4	7	ř	ት ጮ		7	^	7
Traffic Volume (veh/h)	232	26	214	28	20	20	273	228	24:	36	390	57.6
Future Volume (veh/h)	232	26	214	28	20	20	273	228	24	36	390	576
Number		4	. 14	3	. 8	18.	. 5.	2	12	1	.6	, 16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	. 0	0	0
Ped-Bike Adj(A_pbT) *	1.00	The Mark	1.00	1.00	and the	1:00	-1.00	n Give val	1,00	- 1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln 📗 👙	1863	1863	1863	1900	1863	1863	-1863.₹	1863	1900	1863	1863	1863
Adj Flow Rate, veh/h	263	0	225	29	21	21	287	240	25	38	411	0
Adj No. of Lanes	2	0	1 1 2	. 0	1	111	× 1	2	0.,	1 30 14:50	² 2 ⁵	a 1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh; %	. 2	2	2		2	2	2	2.	2	2	2	2
Cap, veh/h	562	0	437	45	33	68	550	1617	167	584	868	647
Arrive On Green	0.16	0.00	0.16	0.04	0.04	0.04	0.12	0.50	0.50	0.03	0.41	0:00
Sat Flow, veh/h	3548	0	1583	1050	760	1583	1774	3239	334	1774	2124	1583
Grp Volume(v), veh/h	263	0	225	50	0 ,	21	287	130	135	38	411	× 0
Grp Sat Flow(s),veh/h/ln	1774	0	1583	1810	0	1583	1774	1770	1804	1774	1062	1583
Q Serve(g_s), s	5.9	0.0	10.6	2.4	0.0	1.1	7.7	3.5	3.6	"1.1.".	12.5	0.0
Cycle Q Clear(g_c), s	5.9	0.0	10.6	2.4	0.0	1.1	7.7	3.5	3.6	1.1	12.5	0.0
ProplinLane.	11.00	4.6	1:00	0.58	6,	1.00	1:00=		0:19	1.00		1.00
Lane Grp Cap(c), veh/h	562	0	437	77	0	68	550	883	900	584	868	647
V/C Ratio(X)	CONTRACTOR OF STREET	0.00	0.51	Proceedings - Water State of the	0.00	0,31	0.52	0.15	0:15	0.07	0:47	, 0.00
Avail Cap(c_a), veh/h	1006	0	636	370	0	323	864	883	900	716	868	647
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d); s/veh:	33.7	0:0	26.9	41.5	0.0	40.9	12.4	11.9		14.3	19.1	0.0
Incr Delay (d2), s/veh	0.6	0.0	0.9	8.7	0.0	2.6	0.8	0.4	0.4	0.0	1.9	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0:0	0.0	0.0	0.0	0.0	0.0	0.0	0:0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	0.0	4.7	1.4	0.0	0.5	3.8	1.8	1,8	0.5	3.9	0.0
LnGrp Delay(d),s/veh	34.3	0:0	27.9	50.2	0:0	43.5	13,1,	12.3	12:3	14.4	21.0	0.0
LnGrp LOS	· C		C	D		D	<u>B</u>	В	<u>B</u>	B	C	
Approach Vol, veh/h		488			71		. 4 Strike Valence Promoted Affician ex-	552			449	
Approach Delay, s/veh		31.3			48.2	,	and the second subject to	12.7	despitation of the same		20.4	
Approach LOS	an digit	C.			, D	***************************************		, B			,C	
limer.	. 4	: 5 L	: A R	, A	5.1	6	· 76*	8				5425 AT
Assigned Phs	1	······································	estale and	4	5	6	2.0	8	and maked		5	Tayr 14
Phs Duration (G+Y+Rc), s	8.4	50.0	<u></u>	20.0	16.4	42.0		9.8			·	
Change Period (Y+Rc), s	6.0		A STATE OF THE PARTY OF THE PAR	6.0	6.0	6.0	and the second second	6.0			*****	
Max Green Setting (Gmax), s		44.0		25,0	26.0	27.0	nan di inada an Kar	18.0				
Max Q Clear Time (g_c+l1), s		5.6	·	12.6	9.7	14.5		4.4	X		***************************************	
Green Ext Time (p_c), s	0,0	1.5		1.4	0.7	2.0	ing the second linear section is the second	0.2	anii (1884) aanaa ahaa ahaa (1866)	**************************************	Allemania de la constitución	
				Maria di Maria	~ 5		All the second		San Carlo Ca	and the second	o. Maria	C. (March Barrier)
Intersection Summary See	APP 4	2.00	A. a. alfa	40.6			8. 3.6 3.	0 - 0 - 0		ri (AL)) sen	<u> </u>
HCM 2010 Ctrl Delay		en elistikken some kanalise in deleter	22.4	······································	Employed of the second of the	and the state of t	and the second s		Marie Sandar			entition of the
HCM 2010 LOS			C.	3 - 11		*	•at git.	* The second		4 4		Appelle is the of
Notes: 1.57	100	200	100		P-9-2-9			(de la composition della comp	460			

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Viovement -	J EBU	» EBT	EBR'	WBL	> WBT	. WBR	NBL	NBT.	NBR	SBL	SBT	#SBR
Lane Configurations	ሻ	ર્સ	7		र्स	75		∱ ∱		7	<u> </u>	
Traffic Volume (veh/h)	618	116	540.	. 21	24	್ರೇ 14°	494	⊬ 348	21		288	603
Future Volume (veh/h)	618	16	540	21	24	14	494	348	21	13	288	603
Number.	Z.	4	, 14	3.	8	. 18	5	and the second second		1		16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00	Angaganga - waya - maana da	1.00	1.00	gangan and an artist of the same of the sa	1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1,00	1.00	1.00
Adj Sat Flow, veh/h/ln-	1863	1863	1863	1900	1863	1863	1863	, 1863	1900	1863	1863	1863
Adj Flow Rate, veh/h	648	0	557	22	25	14	509	359	22	13	297	0
Adj No. of Lanes	2	* 0	1	and the second second	1	1.	* 1	2	Andrew Control	AND DESCRIPTION OF TAXABLE	2	************
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy/Veh. %	2	2	_ 2	<u> </u>	2	2	2	. 2	. 2	. 2	2	SOCIOLOGICO SESSO S
Cap, veh/h	1000	0	851	33	37	· 61	567	1389	85	265	360	264
Arrive On Green	0.28	0.00	0.28	0.04	0.04	0.04	0.26	0.41	0.41	0.01	0,17	0.00
Sat Flow, veh/h	3548	0	1583	852	968	1583	1774	3389	207	1774	2161	1583
Grp Volume(v), veh/h	648	0,	557	47	0	14	509	187	194*	13	297	0
Grp Sat Flow(s), veh/h/ln	1774	0	1583	1820	0	1583	1774	1770	1826	1774	1080	1583
Q Serve(g_s), s.*	14.9	0.0	23.4	2:4	• 0.0	0.8	20.9	6.5	6.5	0.6	12,4	0.0
Cycle Q Clear(g_c), s	14.9	0.0	23.4	2.4	0.0	0.8	20.9	6.5	6.5	0.6	12.4	0.0
Prop In Lane.	1:00		1.00	- '0:47		√1,00	- 1.00	min the second second second	0:11	1.00	Colonian mineral expension (in minds to the Steep market and
Lane Grp Cap(c), veh/h	1000	0	851	70	0	61	567	725	748	265	360	264
V/C Ratio(X)	0.65	0.00	0.65	0.67	0.00	0.23	0.90	0.26	. 0.26	0.05	0:82	0.00
Avail Cap(c_a), veh/h	1028	0	863	313	0	272	666	836	862	415	557	408
HCM/Platoon Ratio	1.00	1.00	1:00	1:00	1.00	1.00	1.00	1.00	1.00	1:00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh		0.0	15.4	44.2	0.0	43.5	21.8	18.1	CONTRACT CONTRACTOR CO	31.6	37.5	0:0
Incr Delay (d2), s/veh	1.4	0.0	1.8	10.7	0.0	1.9	13.6	0.2	0.2	0.1	5.9	0.0
Initial Q Delay(d3),s/veh	0.0	0.0-	0.0	- 0.0	0,0	0.0	. 0:0:		::	0.0 *	0.0	
%ile BackOfQ(50%),veh/ln	7.5	0,0	10.5	1.4	0.0	0.4	12.2	3.2	3.3	0.3	4.0	0.0
LnGrp Delay(d),s/veh	30.8	0.0	17.1	54.9	0.0	45.4	35.3	, <u>18.3</u> .	18.3	31.7	43.4	0.0
LnGrp LOS	C		<u>B</u>	<u>D</u>	· = 0	<u>D</u>	<u>D</u>	<u>B</u>	В.	C	D	
Approach Vol, veh/h		1205			61			890	-		310	
Approach Delay, s/veh	****	24.5		and the second s	52.7	and the second	·	28.1	and the second	Najvoje sa propinski postani sa propinski postani sa propinski postani sa propinski postani sa propinski posta	42.9	on the second
Approach LOS	Agridia.	C		, et	D	, 1884.	27.	C	3800 mg / #		D. "	
Timer	1	12	3	·······45	5	6	7/	8.4	- 444	144	3.5	114
Assigned Phs	1,			4	5	* 6	A	. 8		A STATE OF THE STA	to a vicensian	et, eximum mijoh
Phs Duration (G+Y+Rc), s	7.1	44.2		32.3	29.8	21.5		9.6			V	
Change Period (Y+Rc), s	6.0	6.0		∌ 6.0⊧	6.0		j ke	% 6.0°	is Sign		6	
Max Green Setting (Gmax), s	9.0	44.0		27.0	29.0	24.0	2 Marie 1 10 10 10 10 10 10 10 10 10 10 10 10 1	16.0	and the second	and the second second	Transport American	illinenskipperistiil
Max Q Clear Time (g_c+l1); s	2.6	8.5		25.4	22.9	14.4		4.4	· .		· -	
Green Ext Time (p_c), s	0.0	2.2	TATALON TON THE PARTY AND	0.9	0.9	1.2	***************************************	0.1	uddillennet Christmanish Artifendensisher	and the state of t		
Intersection Summary	<u>ک</u> ت	ir" a	4.0 TA	7			e or	16	i dava	Pares	rakasan j	1 e
HCM 2010 Ctrl Delay	- American	ru service segging.	28.8	e-schallage e	THE PARTY OF THE P	arragas di Onia			THE CONTRACTOR OF THE CONTRACT	CONTRACTOR AND AND ASSESSMENT		Decree Court
HCM 2010 Ctr Delay	mmanthailte inna		20.0 C		enemian Siemon men	-certifik	######################################	Andrews Comments of the Commen	**************************************		were and were the second	in management
			<u>`</u>	- In City Control of the Control	<u> </u>							
Nates	11/4									¥	4.0	AND SEV

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Movement		•	→	•	*	←	*	4	†	/	\	+	4
Traffic Volume (velvh)		∜ EBĽA	ene. (.),	EBR	WBL:	*****	·WBR/	NBL:	and the state of the state of	NBR	SBL		SBR
Future Volume (vehhh) 207 78 202 89 91 85 248 210 28 102 377 545 Number 7 4 114 3 8 8 18 5 24 12 12 1 6 18 6 18 6 18 6 19 18 6 19 18 18 6 19 18 18 18 18 18 18 18 18 18 18 18 18 18		.			42. W 23. T 14. P.P.			<u> </u>					
Number	Egypte grant and the proportion of the beautiful to the control of			California de la compania del la compania de la compania de la compania del la compania de la compania de la compania del la compania		the second second second	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	The state of the s	The second second	Andrews Committee of the second	Market and a second		
Initial Q (2b), veh		· · · · · · · · · · · · · · · · · · ·											
Pad-Bike Adj(A, pbT)	making and the contract of the		***	Maria and the second se	Allegan tamen i i i i i i i i i i i i i i i i i i i	Nonethern Contraction Contraction	***************************************	part and the Committee of the Committee		*************	yanna da iliki isiyaan ahaan ahaa		
Parking Bus, Ad			0			0	_		0			0	
Acij Sat Flow, veh/h/h 1863 186												4.00	
Adj Rov Rate, vehih 150 177 213 94 96 89 261 221 29 107 397 0 Adj No. of Lanes 1 1 1 1 0 1 1 1 2 0 1 1 2 0 1 2 1 Peak Hour Factor 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95													
Adj No. of Lanes	The state of the s												**************************
Peak Hour Factor				AND A SECTION AND ADDRESS OF THE PERSON ADDRESS OF				CONTRACTOR CONTRACTOR					. 0
Percent Heavy Veh; %												the state of the s	
Cap, veh/h On Green O155 O155 O159 O159 O159 O170 O170 O170 O170 O170 O170 O170 O170												time Maria mora de la cidade de la como como	
Arrive On Green	,			The second secon				Andrew Commencer Control Commencer	CONTRACTOR OF THE PARTY OF THE	ALLES PRODUCTION OF THE	Annahira da la constantia de la constantia		3
Sat Flow, veh/h 1774 1863 1583 899 918 1583 1774 3152 409 1774 2124 1583 Grp Volume(v), veh/h 160 1777 213 199 0 89 261 123 127 107 397 0 Grp Sat Flow(s), veh/h/ln 1774 1863 1583 1818 0 1583 1774 1770 1791 1774 1062 1583 Genve(g.s.), s. 80 9.1 11.7 10.4 0.0 53 8.7 4.3 4.4 3.7 14.6 0.0 Cycle Q Clear(g. c.), s. 8.0 9.1 11.7 10.4 0.0 5.3 8.7 4.3 4.4 3.7 14.6 0.0 Cycle Q Clear(g. c.), s. 8.0 9.1 11.7 10.4 0.0 5.3 8.7 4.3 4.4 3.7 14.6 0.0 Cycle Q Clear(g. c.), s. 8.0 9.1 11.7 10.4 0.0 5.3 8.7 4.3 4.4 3.7 14.6 0.0 Cycle Q Clear(g. c.), s. 8.0 9.1 11.7 10.4 0.0 5.3 8.7 4.3 4.4 3.7 14.6 0.0 Cycle Q Clear(g. c.), s. 8.0 9.1 11.7 10.4 0.0 5.3 8.7 4.3 4.4 3.7 14.6 0.0 Cycle Q Clear(g. c.), s. 8.0 9.1 11.7 10.4 0.0 5.3 8.7 4.3 4.4 3.7 14.6 0.0 Cycle Q Clear(g. c.), s. 8.0 9.1 11.7 10.4 0.0 5.3 8.7 4.3 4.4 3.7 14.6 0.0 Cycle Q Clear(g. c.), s. 8.0 9.1 11.7 10.4 0.0 5.3 8.7 4.3 4.4 3.7 14.6 0.0 Cycle Q Clear(g. c.), s. 8.0 9.1 11.7 10.4 0.0 5.3 8.7 4.3 4.4 3.7 14.6 0.0 Cycle Q Clear(g. c.), s. 8.0 9.1 11.7 10.4 0.0 5.3 8.7 4.3 4.4 3.7 14.6 0.0 Cycle Q Clear(g. c.), s. 8.0 9.1 11.7 10.4 0.0 5.3 8.7 4.3 4.4 3.7 14.6 0.0 Cycle Q Clear(g. c.), s. 8.0 9.1 11.7 10.4 0.0 5.3 8.7 4.3 4.4 3.7 14.6 0.0 Cycle Q Clear(g. c.), s. 8.0 9.1 11.7 10.4 0.0 5.3 8.7 4.3 4.4 3.7 14.6 0.0 Cycle Q Clear(g. c.), s. 8.0 9.1 11.7 10.4 0.0 5.3 8.7 4.3 4.4 3.7 14.6 0.0 Cycle Q Clear(g. c.), s. 8.0 9.1 11.7 10.4 0.0 1.00 1.00 1.00 1.00 1.00 1.00													
Grp Volume(v), veh/h 150 177 213 190 0 89 261 123 127 107 397 0 Grp Sat Flow(s), veh/h/ln 1774 1863 1583 1818 0 1583 1774 1770 1791 1774 1062 1583 Q Serve(g. s), s 8.0 9.1 11.7 104 0.0 5.3 8.7 4.3 4.4 3.7 14.6 0.0 Cycle Q Clear(g. c), s 8.0 9.1 11.7 10.4 0.0 5.3 8.7 4.3 4.4 3.7 14.6 0.0 Cycle Q Clear(g. c), s 8.0 9.1 11.0 4.0 5.3 8.7 4.3 4.4 3.7 14.6 0.0 Cycle Q Clear(g. c), seth 288 281 415 232 0 202 495 764 773 588 786 593 V/C Ratio(X) 0.56 0.63 0.51 0.82 2.0 0.0 4.4				Transfer of the Contract of th		Charles of the last of the las	Therese the section of the section of						
GP Sat Flow(s),veh/h/n													A
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Cycle Q Clear(g c), s 8.0 9.1 11.7 10.4 0.0 5.3 8.7 4.3 4.4 3.7 14.6 0.0 Prop In.Lane 1:00 1:00 0.49 1:00 1:00 1:00 0.23 1:00 1:00 1:00 1:00 1:00 1:00 1:00 1:0						_							
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V/C Ratio(X) 0.56 0.63 0.51 0.82 0.00 0.44 0.53 0.16 0.18 0.50 0.00 Avail Cap(c_a) veh/h 435 457 565 321 0 280 751 764 773 649 796 593 HCM Plation Ratio 1.00		#\$####################################	ne al l'al di laca de la companya de			*******************	Kenake Xerassa essenti		ennety degrades equipment engine	444 MARKET PROPERTY AND ADDRESS OF THE PARTY A		anne filippose militai keengaf 606 ki milita oo	
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HCM Platoon Ratio	The state of the s					***************							
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Incr Delay (d2), s/veh													
Initial O Delay(d3),s/veh											***************************************		
%ile BackOfQ(50%),veh/ln 4.1 4.9 5.2 5.9 0.0 2.4 4.3 2.2 2.3 1.8 4.5 0.0 LnGrp Delay(d),s/veh 42.0 42.9 33.0 54.5 0.0 42.6 17.4 18:1 18:1 17.8 26.7 010 LnGrp LOS D D D D D B B B B C Approach Vol, veh/h 540 279 511 504													
EnGrip Delay(d),s/veh 42.0 42.9 33.0 54.5 0.0 42.6 17.4 18.1 18.1 17.8 26.7 010 LnGrp LOS D D D D D B B B B B C Approach Vol, veh/h 5540 279 5111 504 50													
Lingrp LOS													
Approach Vol; veh/h Approach Delay, s/veh Approach EOS D B C C C C C C C C C C C C C C C C C C				Marine		0.0			Million Production Name				, UIU
Approach Delay, s/veh 38.7 50.7 17.7 24.8 Approach LOS D D B C Imer 1 2 3 4 5 6 7 88 Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s 11.5 50.0 21.4 17.3 44.2 19.0 Change Period (Y+Rc), s 6i0 6.0 6i0 6i0 6i0 6i0 Max Green Setting (Gmax), s 9.0 44.0 25.0 26.0 27.0 18.0 Max Q Clear Time (g c+l1), s 5.7 6i4 13.7 10.7 16.6 12.4 Green Ext Time (p_c), s 0.1 1.4 1.7 0.6 1.7 0.6 Intersection Summary HCM 2010 Ctrl Delay 30.9 HGMI2010 LOS C						יי מלמיים							######################################
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Max Q Clear Time (g_c+l1), s 5.7 6.4 13.7 10.7 16.6 12.4 Green Ext Time (p_c), s 0.1 1.4 1.7 0.6 1.7 0.6 Intersection Summary HCM 2010 Ctrl Delay 30.9 HGMI2010/LOS C C	Change Period (Y+Rc), s	6.0	6.0		6.0	6.0	6.0		6.0	Anna Anna Anna Anna Anna Anna Anna Anna	12 ca	4. A	
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HCM 2010 Ctrl Delay 30.9 HCMI2010/LOS C	Green Ext Time (p_c), s	0.1	1.4		1.7	0.6	1,7		0.6				
HCM 2010 Ctrl Delay 30.9 HCM/2010/LOS C	Intersection Summary												
HCMI2010ILOS C				30.9									
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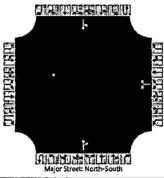
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Page 1

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Vlovement		√ EBT∤	GEBR (WBL.	War.	WBR.	NBL	NBT &	NBR	SBI	SBT	SBR
Lane Configurations	ሻ	4	7		4	7	ሻ	1 13		7	个 个	ř
Traffic Volume (yeh/h)	597	« 59 ⁾	529	71	84	68	472	332	24	68	277	576
Future Volume (veh/h)	597	59	529	71	84	68	472	332	24	68	277	576
Number	7	4	. 14	3	. 8	18	5.	2	12	1	, 6	. 16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	and the same of th	Himanath	1.00	41.00t.	film), g			den joh			\$a.	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1863	1900	~****	1 <u>863</u>	1863	1863	1900.	1863	1863	1863
Adj Flow Rate, veh/h	659	0	545	73	87	70	487	342	25	70	286	0
Adj No. of Lanes	- 2	0	1	0	1.	1	1,	2	0	1.	2	. 1
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh. %	2.	2:	2	2	2	. ,2	. 2	2	2′	. 2	2.	2
Cap, veh/h	918	0	797	91	108	173	535	1194	87	309	340	249
Arrive On Green 💲 💮	0.26	0.00	0.26	0.11	0.11	0.11	0.24	0.36	0.36	0.05	0.16	0.00
Sat Flow, veh/h	3548	0	1583	831	990	1583	1774	3346	243	1774	2161	1583
Grp Volume(v), veh/h	659	0	545	160	0	70	487	180	187	70	286	0
Grp Sat Flow(s),veh/h/ln	1774	0	1583	1821	0	1583	1774	1770	1820	1774	1080	1583
Q Serve(g_s), s	17.6	0.0	27.0	9.0	0.0	4.3	22.8	7.6	7.7	3.4	13.4	0.0
Cycle Q Clear(g_c), s	17.6	0.0	27.0	9.0	0.0	4.3	22.8	7.6	7.7	3.4	13.4	0.0
Prop In Lane			₃ 1.00°	0.46		_1:00:	1.00		0.13	1.00		1.00
Lane Grp Cap(c), veh/h	918	0	797	199	0	173	535	631	649	309	340	249
V/C Ratio(X)	U51 4	0.00	0.68	0.81	0.00	A 4 . 1 . 1	0.91	0:29	0.29	0.23	0.84	0.00
Avail Cap(c_a), veh/h	918	0	797	279	0	243	594	746	767	381	497	364
HCM Platoon Ratio	1.00	1.00	1.00	1:00	1.00	1.00	1.00.	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	35.2	0,0	19.6	45.4	0.0	43.3	25.6	24.0	24.1	34.5	42.7	0.0
Incr Delay (d2), s/veh	2.7	0.0	2.4	11.0	0.0	1.5	17.3	0.2	0.2	0.4	8.3	0.0
Initial Q Delay(d3);s/veh		0.0	0.0	0.0	Distillation and security and sections of	*****************	- 0.0	0.0	0.0	Brown and a second	0.0	* 0.0
%ile BackOfQ(50%),veh/In	9.0	0.0	12.3	5.1	0.0	2.0	13.7	3.7	3.9	1.7	4.4	0.0
LnGrp Delay(d);s/veh	37.9	0.0	^{22.0}	56.4	0.0	44.9	* 42.9	24.3	24.3	Marie Commission of Chicago	51.0	0.0
LnGrp LOS	D		C	<u> </u>		D	<u>D</u>	C	C	C	D	
Approach Vol, veh/h	. Attended and the Salaharan Manager	1204		aa	230			854		: 	356	
Approach Delay, s/veh	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	30.7			52.9		**************************************	34.9	· · · · · · · · · · · · · · · · · · ·		47.8	·
Approach LOS	10 Ac.	C			D	:: : :		· C	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	in and the same	D.	ليستنسا
Diner 3	1	2		2.4	5		7.					- Marses
Assigned Phs		2	are employed and the	4	5	6	N.	8	Section		e in terminal	
Phs Duration (G+Y+Rc), s	10.7	43.2	· · · · · · · · · · · · · · · · · · ·	33.0	31.5	22.4		17.4				*
Change Period (Y+Rc), s	6.0	6.0	eneninistration	6.0	6.0	6.0	i. Hensimetrierierieri	6.0	ra l direction de la comme de la			
Max Green Setting (Gmax), s	9.0	44,0		27.0	29,0	24.0	and the second s	16.0	z tynyjája i like zpe paniec		Manuscottine (1) Philipsophia and could	Annual Street
Max Q Clear Time (g_c+l1), s		9.7		29.0	24:8	15.4		11.0	yana *	to loa		
Green Ext Time (p_c), s	0.0	2.1	go and sequences of the last	0.0	0.7	1.0	Maria de Carresto	0.4	i i Martin di indica di America d America di America di	Carrier on a little Terrore	e-ministra, a equal de la California.	and the second
"- "				The state of the s			-#*\> _#\/#*			64 × 9500		(Kalibarana)
Intersection Summary S												
HCM 2010 Ctrl Delay	······································		36.3									
HCM.2010·LOS	i de la compania de La compania de la co	ing stronger all the second	D,	manja in Samuela da	um initiation		- Marian Control State (Marian Control State		4 materials 25 manual	EN A	and the second s	
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The state of the s		The state of the s										

RH 11/07/2018

1	HCS7-Two-Way Stop	o Conta or Medoric	e e e e e e e e e e e e e e e e e e e
General Information		Site Information	
Analyst	RH	Intersection	MD 7 & Mohrs Ln
Agency/Co	The Traffic Group, Inc.	Jurisdiction	Baltimore County MD
Date Performed	7/3/2018	East/West Street	Mohrs Ln
Analysis Year	2018	North/South Street	MD7
Time Analyzed	Existing AM Peak Hour	Peak Hour Factor	0.95
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	2013-0901 WAWA		
Lanes 🗼 🎉			
		PERMIT	·



Vehic			

	3/897	* . 1	in .			1	a de la			g and a	Maria va	d' self		. A.	16.4	, 1
Approach		Eastl	bound			Westl	bound		L	Norti	nbound			South	bound	
Movement	Ü	ŅĽ.	Ť	R	Û	, L		R.	ື ປ	L	". T	R.	U	L C		R
Priority		10	. 11	12		7	8	9	10	, 1	2	3	4U	4,	5:	6
Number of Lanes	1-2	0	Ó	0		0	: 1	0	0	, 0	11	0	0	0.	1*	Ö;
Configuration							LR					TR		ĹĪ		
Volume (veh/h)		Ç.				3.2	i glana	2	i C	, E	461	2 ,		, t	569	
Percent Heavy Vehicles (%)						3		3						3		
Proportion Time Blocked	i de de d								la r			3 V (2	i 8		t ₹7.	
Percent Grade (%)						(0									
Right Turn Channelized		(200) 11 9 7 10 10 10 10 10 10 10 10 10 10 10 10 10 1			i Çizê atv	* 4900	nt full of	j grandi Tarih	Çar.			SE sui breek) (SES)	F. (2)	- cardina	. 1219c.
Median Type Storage				Undi	vided											
Critical and Follow-up He	adwa	ys			a seeing	in a yangang	ger.		2	**************************************	15g2 - 66g	fe i ye.		8	20% (17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Note - N
Base Critical Headway (sec)						7.1		6.2						4.1		
RECORDS CO. Law Co. Co. Co. Co. Co. Co. Co. Co.										200					,	I

Base Critical Headway (sec)						7.1		6.2					4.1	
Critical Headway (sec)		Mibbs		L. j		6.43	i kalenda	6.23	2 · 1 · .		59 Car 8 3 C Car		4.13	
Base Follow-Up Headway (sec)						3.5		3.3					2.2	
Follow-Up Headway (sec)		Part et.	J-404		i ido	3.53		3.33				100	2.23	
Delay, Queue Length, and	l Leve	l of Se	ervice	ir ni	, j				2 m	*		· · · · · · · · · · · · · · · · · · ·	v.	
	1	1		i			_	Ĭ	1		1			

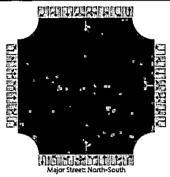
	1	3	3 W	\$# #2			100	V 300	2.7 Mai			140	A. A.	72.	70.	
Flow Rate, v (veh/h)	Ì						5							1		
Capacity, c (veh/h)	econocide i di	(B) (a); 1			1,1100		311,	61 1888 A 1,775					1	1070	3.4	
v/c Ratio							0.02							0.00		
95% Queue Length, Q ₉₅ (veh)	7.5914					1	0.1-		1 /		Carpenter Section	2.	: : "**********************************	0.0	**\$5671	1
Control Delay (s/veh)							16.8					'		8.4		
Level of Service (LOS)	l Jud	E	ig Se House of Allice		و آدو (۱۳۵۱ - ۱۳۵۱ - ۱۳۵۵ (۱۳۵۶ - ۱۳۵۶ - ۱۳۵۶ - ۱۳۵۱ - ۱۳۵۱ - ۱۳۵۱ - ۱۳۵۱ - ۱۳۵۱ - ۱۳۵۱ - ۱۳۵۱ - ۱۳۵۱ - ۱۳۵۱ - ۱۳۵۱		, c) (1)	d.	a ka a Na a Kasa	,		3	Α		\$ d
Approach Delay (s/veh)						10	6.8							0).0	
Approach LOS	*	Asset 1					C' 131 / .	1864 c	*	(A)() 12 - M (A)			1 32 k	24	0,444,0	

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HCSTM TWSC Version 7.5 2EA.xtw

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General Information		Site Information	
Analyst	RH	Intersection	MD 7 & Mohrs Ln
Agency/Co.	, The Traffic Group, Inc	* Jurisdiction	Baltimore County, MD
Date Performed	7/3/2018	East/West Street	Mohrs Ln
Analysis Year	2018	North/South Street	MD 7
Time Analyzed	Existing PM Peak Hour	Peak Hour Factor	0.98
Intersection Orientation	North-South:	Analysis Time Period (hrs)	0.25 The state of
Project Description	2013-0901 WAWA		

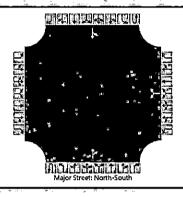


					Major	Street: No	rth-South									
Vehicle Volumes and Adju	stme	nts			TE COMM	1 38 ji ji ji ji 1				, b				*	* 874	Kip"
Approach		Easti	oound			West	bound		T.	North	bound			South	bound	
Movement	Ú.	L	· T	R	Ü	L	Ţ	R	٠Ú	Ŀ	Ţ	Ŕ	U	iê E	1	R
Priority		10	11	12		7	8	9	10	1	2	3	4U	4	5	6
Number of Lanes		. 0	0	0	us Declaration	a	1	0	0	0		0	0	0	1.	0
Configuration							LR					TR		LT		
Volume (veh/h)	i di	(ac. =1) 5/		- C	2 4			4			826	0.	6 (5)	5.	781	Visit 1
Percent Heavy Vehicles (%)						3		3						3		
Proportion Time Blocked	9.5					vojak .	enter source	k greg	Janaar II. y	, yesas	e 195	0.k		Pilonio de	[) jua
Percent Grade (%)							0				_					
Right Turn Channelized	The second	of registrated a	Mr. Fall	a province	è		Properties of	is seems.	***	ios a jet	r Especial La companya			wyse i wie	- X-9	t kg ra
Median Type Storage				Undi	ivided							_				
Critical and Follow-up He	adwa	ys.		2.	***	* -		n elle	100		1 To 1		* .		, , , , , , , , , , , , , , , , , , ,	\$ P
Base Critical Headway (sec)						7,1		6.2						4.1		,
Critical Headway (sec)	n ribika		, s)	6.43	2	6.23		,,	i en	j		4.13		ر ان در اخران
Base Follow-Up Headway (sec)						3.5	<u> </u>	3.3						2.2		
Follow-Up Headway (sec)		37		\$ 44° 7,5 ° 7		3.53	2377 Sa	3.33	,		Sie Section 12	4 10	77.4 1	2:23	k 5,2	HS M
Delay, Queue Length, and	Leve	l of S	ervice	. 7	3 3	F	4. 4	* **		a. J	, 3 A.	es grade (chi.		The W	in the second	À
Flow Rate, v (veh/h)							5							5		
Capacity, c (veh/h)	· iĝ.	1 1991 - 1	1 5		e 44	l skûse	, 246		1 7. 1		ge profit is a	Dia: 4949	í st	789		
v/c Ratio							0.02				_			0.01		
95% Queue Length, Q ₉₅ (veh)		4				E	0.1	100		I E	1 (1 (4)) 2 (1 (4))	4		0.0		
Control Delay (s/veh)							20.0							9.6		
Level of Service (LOS)	and t		1805	100 m	i Alph	100	- C	, Sec.	J. *	64	a del	F int *.	8	A A		
Approach Delay (s/veh)						2	0.0							0).2	
Approach LOS	4		:		1		C.	• •				in the				

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General Information		Site Information	
Analyst	RH	Intersection	MD 7 & Mohrs Ln
Agency/Ca.	The Traffic Group, Inc.	Jurisdiction	Baltimore County, MD
Date Performed	7/3/2018	East/West Street	Mohrs Ln
Analysis Year	2021	North/South Street	MODERN BELLEVILLE
Time Analyzed	Background AM Peak Hour	Peak Hour Factor	0.95
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	2013-0901 WAWA		



				and /		

	Eastbound Westbound								North	oound			South	cound	
ܲ	i i P	T	R	ΰ	L	T	R	U	Ĺ	T	Ŕ	, U	L.	T.	Ŕ
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						LR					TR		ĻΤ		
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/ 						(2 DEC - 10	7.50	r" ia		* ;; *	Y 1/1 1	ije [†] er − − − 1 − − − i		1 1 1 1 1 1	
						0									
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		•	Undi												
	1 2 2 2	0	10 11	10 11 12 0 0 0 Undi	10 11 12 0 0 0 Undivided	10 11 12 7 0 0 0 0 0 3 3 Undivided	10 11 12 7 8 0 0 0 0 0 1 LR 3 3	10 11 12 7 8 9 0 0 0 0 0 1 0 LR 3 3 3	10 11 12 7 8 9 1U 0 0 0 0 0 1 0 0 LR 3 3 3	10 11 12 7 8 9 1U 1 0 0 0 0 0 0 1 0 0 0 LR 3 3 3 Undivided	10 11 12 7 8 9 1U 1 2 0 0 0 0 0 1 0 0 0 1 LR 506 3 3 3 3 Undivided	10 11 12 7 8 9 1U 1 2 3 0 0 0 0 0 1 0 0 0 1 0 LR TR 3 3 3 3 3 506 2 Undivided	10 11 12 7 8 9 1U 1 2 3 4U 0 0 0 0 0 1 0 0 0 1 0 0 LR TR 3 3 3 3 5 506 2 Undivided	10 11 12 7 8 9 1U 1 2 3 4U 4 0 0 0 0 0 1 0 0 0 1 0 0 0 TR LT LT 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10 11 12 7 8 9 1U 1 2 3 4U 4 5 0 0 0 0 0 1 0 0 0 1 0 0 0 1 LR TR LT 3 3 3 3 3 3 3 3 Undivided

Circlear and Tonow-up inc	N/A AAG	y 5				-							·			=
Base Critical Headway (sec)						7.1		6.2						4.1		
Critical Headway (sec)	eddirej l		t es , dig			6.43		6.23	in in Since the second			. 144 144 - 14		4.13	1	
Base Follow-Up Headway (sec)						3.5		3.3						2,2		
Follow-Up Headway (sec)	3807	ansa ania		11000	\/\frac{1}{2} \frac{1}{2} \fra	3.53		3:33	12.00 m		/ Telline	1.60 (2) 1.60		2.23	1. 48595	' off.'
Delay, Queue Length, and	Leve	l of S	ervice	R	338 638				5-4-10 ·		1 81 m2 (2) 88 m		100 m			
Flow Rate, v (veh/h)				•			5	_						1		
Capacity, c (veh/h).	4 (276	" :	1w_1	· .	, e		i.	1028	i	
v/c Ratio							0.02							0.00		
95% Queue Length, Qos (veh)	r f ^{ar} iy j	Programme of the second	lan × ≥0.1.	i. Is		1. ·	0.1	Sec. or 1				gyd\$.		0.0	n 2 3	

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Control Delay (s/veh)

Level of Service (LOS)

Approach LOS

Approach Delay (s/veh)

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18.3

C

18.3

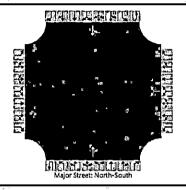
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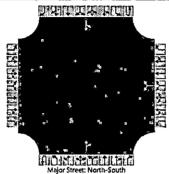
8.5

	HCS7 Jwo Way Stor	-Control Report	
General Information		Site Information	
Analyst	RH	Intersection	MD 7 & Mohrs Ln
Agency/Co.	The Traffic Group, Inc	Jurisdiction	Baltimore County, MD
Date Performed	7/3/2018	East/West Street	Mohrs Ln
Analysis Year	2021	North/South Street	MD.7.
Time Analyzed	Background PM Peak Hour	Peak Hour Factor	0.98
Intersection Orientation	North-South	- Analysis Time Period (hrs)	0.25
Project Description	2013-0901 WAWA		· · · · · · · · · · · · · · · · · · ·
Lanes 🖟 📜			



Approach	1	Easti	oound			West	ound			North	bound			South	bound	
Movement		ļ.	T	R	Ú	i L	Ť	ı R	٠,0	L.	, T	R	Ú	Ľ,	4	R
Priority		10	11	12		7	8	9	10	1	2	3	4U	4	5	6
Number of Lanes		0	0	0	8 . Edi	O.	1,	0	0	0	1	0	O.	0-	. 1	0
Configuration							LR					TR	İ	LT		
Volume (veh/h)		15.5				1	. 46	4		Simotos .	892	0		-5	844	
Percent Heavy Vehicles (%)						3		. 3						3		
Proportion Time Blocked							14(3)1	,					e	*		
Percent Grade (%)	T)									
Right Turn Channelized	I Table	25	Jelí Te		eri nagi.	i f magai	TLÝME	i Maria		Ar A	C H		E.	* / 	**************************************	5 (1.4) 1 (1.4)
Median Type Storage				Undiv	/ided											
Critical and Follow-up He	eadwa	ys	die d		. <u> </u>	. (*A-) . M. tag ()	3	- W	# Acc. 1		\$ **	3		1.		
Base Critical Headway (sec)						7.1		6.2						4,1		
	*								77.5				-1,074 0 4	4.13	2. 5.	lusti -
Critical Headway (sec)	ьŒ.,	. Bush o	lidely is	없는 등년		6.43	i iii	6.23			Ç adı	140		4.13	giller .	×1 11,19
Critical Headway (sec) Base Follow-Up Headway (sec)	till	. Projek d				3.5	i i i i i i i i i i i i i i i i i i i	3.3						2.2		
- 1, 35c		. Oznajek e				em typici		1 .32491 I		Fig. 9				g 17/2° (je		
Base Follow-Up Headway (sec)	<u> </u>		ervice			3.5		3.3						2.2		330
Base Follow-Up Headway (sec) Follow-Up Headway (sec)	<u> </u>		ervice			3.5 3.53		3.3 3.333					# # # # # # # # # # # # # # # # # # #	2.2	34	<u> </u>
Base Follow-Up Headway (sec) Follow-Up Headway (sec) Delay, Queue Length, an	<u> </u>		ervice			3.5 3.53		3.3 3.333					表 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.2 2.23	34	<u> </u>
Base Follow-Up Headway (sec) Follow-Up Headway (sec) Pelay, Queue Length, and Flow Rate, v (veh/h)	<u> </u>	elof s	ervice			3.53	5	3.3 3.33					2	2.2 2.23	1 ************************************	325 1, will 1
Base Follow-Up Headway (sec) Follow-Up Headway (sec) Delay, Queue Length, and Flow Rate, v (veh/h) Capacity, c (veh/h)	<u> </u>	elof s	envice			3.53	5	3.3 3.33						2.2 2.23 5 744	1 ************************************	
Base Follow-Up Headway (sec) Follow-Up Headway (sec) Pelay, Queue Length, and Flow Rate, v (veh/h) Capacity, c (veh/h) v/c Ratio	<u> </u>	elof s	ervice			3.53	5 214 0.02	3.3 3.33					# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.2 2.23 5 744 0.01	1 ************************************	
Base Follow-Up Headway (sec) Follow-Up Headway (sec) Delay, Queue Length, and Flow Rate, v (veh/h) Capacity, c (veh/h) v/c Ratio 95% Queue Length, Q95 (veh)	<u> </u>	elof s	ervice			3.53	5 214 0.02 0.1	3.3 3.33					X	2.2 2.23 5 744 0.01	1 ************************************	

General Information 🦿		Site Information	
Analyst	RH	Intersection	MD 7 & Mohrs Ln
Agency/Co.	The Traffic Group, Inc	Jurisdiction	Baltimore County, MD
Date Performed	7/3/2018	East/West Street	Mahrs Ln
Analysis Year	2021 美国的 新 美 电 电影的	North/South Street 🦠 💀	MD7 1
Time Analyzed	Total AM Peak Hour	Peak Hour Factor	0.95
Intersection Orientation	North-South	Analysis Time Period (hrs).	0.25
Project Description	2013-0901 WAWA		

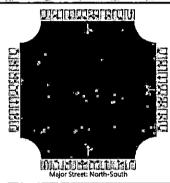


					AJO: Majo	or Street: Nor	1) 13 (i th-South									
Vehicle Volumes and Adju	ıstme	nts		- 25	and in .	n Ša			·			S. **E	· ·	A		were.
Approach		Eastb	ound	,		West	bound			Northi			1	South	ocund	
Movement	, >Ua	L.	T	R	Ų	L	T	Ř.	0	\$ 15 TE	Ţ	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes	er .	0	0	0	9	0	1 :	, 0	0	0	1	0	0	0	Ť.	0
Configuration							LR					TR		LT		
Volume (veh/h)	2.0	oğu I		. 4		ੂ 3 tj		. 2 2	Mag.		542	2		1	653	
Percent Heavy Vehicles (%)						3		3			 · · _			3		
Proportion Time Blocked	\$ <u>;</u>							: v**			i i i i	, a , a , a			* / [/***	
· Percent Grade (%)							o					•		-		•
Right Turn Channelized	E Sold Count	alian . C	1				ii			war war didn't	Carabinia	3		1. 1.		. b. 14
Median Type Storage				Undi	vided											
Critical and Follow-up He	adwa	ys	ga in se sega	184 M/ W	alligie	A. A. A. A.	ta na 🚾 .	: 10 m	A.		76	« B#	· · · · · · · · · · · · · · · · · · ·	er di		His.
Base Critical Headway (sec)						7,1	<u>. </u>	6.2		ŀ	Į			4,1		ŀ
Critical Headway (sec)					.	6.43		6.23						4.13		1
Base Follow-Up Headway (sec)						3.5		3.3						2.2		
Follow-Up Headway (sec)		dr *	poor sign			3.53		3.33	. 1000 · · · · ·	P0 140	,		80	د 2:23		(186g * ⁵¹
Delay, Queue Length, and	l Leve	l of S	ervice			7 1		// W.	a****	9. 39	2	Alexa .	with s	* *		
Flow Rate, v (veh/h)	<u> </u>			<u> </u>		T	5						T	1		l -
Capacity, c (veh/h)							251		1777 A 100		#00 			995		
v/c Ratio							0.02							0.00		
95% Queue Length, Q ₉₅ (yeh)	James 1	sip 1	6 r 2	60 A.E	- () () () () () () () () () (2.5	0.3	1 7 2			51 - 124 E.	9- p D-	ř.	0.0	; [3]	
Control Delay (s/veh)	[1	19.7							8.6		
Level of Service (LOS)	25.50	1	,	i	17,11	-	, c	77.5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			SV:		Α	7000	r
Approach Delay (s/veh)		-	-	-		1:	9.7							0	.0	
Approach LOS	Figure 1.5	an	:			100	C .	- Aug -			. %	1 J. 6 J. 4 L.	,	» i		. 46.

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General Information		Site Information	
Analyst	RH	Intersection	MD 7 & Mohrs Ln
Agency/Co.	The Traffic Group, Inc	Jurisdiction	Baltimore County, MD
Date Performed	7/3/2018	East/West Street	Mohrs Ln
Analysis Year	.2021	North/South Street	MD 7
Time Analyzed	Total PM Peak Hour	Peak Hour Factor	0.98
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	2013-0901 WAWA		



Vehicle Volumes and Adju	ustme	nts	# 1944 - 18 ₂ 95; 1 a →	3.	e dig	27 301	, i			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	4 Sec.	20 C.	112		**	26 ∰ 2 10 mg
Approach		East	bound		l .	West	bound				nbound			South	bound	
Movement	U	L	Ţ	R	Û	L.	ן ד	* Ř	Ü	î Ľ	Ţ	R	ŭ.	T.L	Ť	Ŕ
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0،	* 0	. 0	*	0	1	Ò	0	0	1	0	0	O		0
Configuration							LR					TR		LT		
Volume (veh/h)		1	T.		1.e ²	1	6	4			920	(0)		5	872	
Percent Heavy Vehicles (%)						3		3						3		
Proportion Time Blocked							is a							i:		
Percent Grade (%)							0									
Right Turn Channelized							* * * * * *				25					
Median Type Storage	I			Und	ivided											
Critical and Follow-up He	adwa	ys	# ₄					* 1	· ·		de-	· j. ·			et.	4
Base Critical Headway (sec)						7,1		6.2						4.1		
Critical Headway (sec)	i i i i i i i i i i i i i i i i i i i			. 4		6.43		6.23			,	. van e	i	4.13	1.2	1 18.1
Base Follow-Up Headway (sec)						3.5		3.3						2.2		
Follow-Up Headway (sec)	1 4 2 2					3.53	14:	3,33		4.5	a diga			2.23		
Delay, Queüe Length, and	d'Leve	of S	ervic	2 * ,				isi .	2.		. 3	Tu k				.27
Flow Rate, v (veh/h)				Ī			5							5		
Capacity, c (veh/h)							202	1		W. Aug	ii.	-		726		4.11
v/c Ratio							0.03							0.01		
95% Queue Length, Q ₉₅ (veh)	i, n. i		ra e.		\$ # A/2 5	ledic	0.1	s	^ v	A LA ENGLA	£"			0.0	. g. 251.	
Control Delay (s/veh)							23.3							10.0		
Level of Service (LOS)				\$ 7.) 	, s	· · C	Barana Barana		Elyatis	1001-15		4 8 4	* A	rufte:	
Approach Delay (s/veh)		•	_			2	3.3							(0.2	
Approach LOS	. <u>}</u>	ेवर्षका र	7.00	. 18		Carlo	Ć		2 to 10	Tg. dib			$(\mathbf{E} + p^{1-\alpha})$			1.00

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Summary of All Intervals

RuniNumber	(4) (1)		a 10 k	# 7 W 2	\$ 10_V-000	5 7 7 74 T	4-5 A	s of Land
Start Time	7:50		7:50	7:50	7:50	7:50	7:50	7:50
End Time	9:00		9:00:	9:00	9:00	9:00	9:00	9:00
Total Time (min)	70		70	70	70		70	70
Time Recorded (min)	60		60	. 60	6 €	60	. 60	60
# of Intervals	2		2	2	2	2	2	2
# of Recorded Intervals	1861	4 3 8 6 6	1944	4.	and the same	and the second of the second o	· - 1	ille gi
Vehs Entered	1845		1866	1885	1845		1778	1930
Vehs Exited *	1852	1	1856	. 1899	1857	1828	1792	1943
Starting Vehs	36		25	35	41	31	38	38
Ending Vehs	**29	W.	35	21*	y⇔ >> 29) 1986 - 1986 - 1986 - 1986 - 1986 - 1986 - 1986 - 1986 - 1986 - 1986 - 1986 - 1986 - 1986 - 1986 - 1986 - 19	24	25
Travel Distance (mi)	767		774	786	770		739	798
Travel Time (hr)	32.9	estrope of the same	33.1	33.8	32.5	32.5	30.8	Fs. 34.3
Total Delay (hr)	9.2		9.2	9.6	8.8	9.1	8.0	9.6
Total Stops	835	ig de si	843	851	· 4819	812 ≥	* * \$757 *	855
Fuel Used (gal)	30.7		30.7	31.4	30.3	30.4	29. 1	31.8

Summary of All Intervals

Run Number					7		8	and the	9	álě.	Avg:					
Start Time					7:50		7:50		7:50		7:50					
End Time					9:00		9:00		9:00		9:00					
Total Time (min)					70		70		70		70					
Time:Recorded (min)	***************************************		, VI		60	446	60		60	*	60		17.0	 		111
# of Intervals					2		2		2		2					
# of Recorded Intervals		.54	. 4	-111-	' '		1		. 1'		1.					
Vehs Entered		.,,		,	1904		1890		1804		1854					
Vehs Exited	12			. 3	1908		1892	Louisian	1806	. 4	1863			 		in
Starting Vehs					37	.,,	37	,	32		35					
Ending Vehs		ia di di			33	- 33	35		30	Na de	29	idazeni	3	;		
Travel Distance (mi)					795		784		756	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	773					
Travel Time (hr)					34,5	1	33.3		31.5		32.9		7.		:	* 8
Total Delay (hr)			.,		10.0		9.2		8.2		9.1				•	
Total Stops			ili eta		881		838		796		828		1	E:	4	
Fuel Used (gal)					31.8		31.2		29.8		30.7			 		

Interval #0 Information Seeding

Start Time 7:50	
End Time 8:00	
Total Time (min)	
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

	1114		
Inton/91	##T	Information	Recording
IIIICI VOI	777 1	II II OM HIGHOU	i iccon an ia

Start Time	8:00	
End Time	9:00	
Total:Time (min)	60	
Volumes adjusted by Grov	wth Factors.	

Run Number	11	· 10+	24	9 11 1	Park Chart 4	5 5	· 6
Vehs Entered	1845	1866	1885	1845	1820	1778	1930
Vehs Exited	1852	1856	1899	1857	1828	· 1792	1943
Starting Vehs	36	25	35	41	31	38	38
Ending Vehs	* 29	* 35	21	29	23	24'	- 25
Travel Distance (mi)	767	774	786	770	758	739	798
Travel Distance (mi) Travel Time (hr)	767 32.9	774 33.1/_	786 33.8	770 32.5	758 32.5	739 30.8	798 *34 <u>.3</u>
		and the state of t			ar againgggagaan can again an arrain a saga	renewal and the second second	
Travel Time (hr)		33,1	33.8	32.5	32.5	30.8	34.3

Interval #1 Information Recording

Start Time	8:00		
End Time	9:00		
Total Time (min)	- 60		ச. இது இது இது படித்திர
Volumes adjusted by Gro	owth Factors		

Run Number 2000 and an action	36 · · · · · · · · · · · · · · · · · · ·	8	9.	- Avg∵	er stellen.	$\dot{m} \approx 0.00$	Quign Kis
Vehs Entered	1904	1890	1804	1854			-
Vehs Exited	1908	1892	1806	1863		Helia and the second second	
Starting Vehs	37	37	32	35			
Ending Vehs	33	35	30	29	· ·	*******************************	
Travel Distance (mi)	795	784	756	773			
Travel Time (hr)	34.5	33.3	31.5	, 32.9		a di managan	
Total Delay (hr)	10.0	9.2	8.2	9.1			
Total Stops * * *	- 881 4	838	796_	₹ ₹828			
Fuel Used (gal)	31.8	31.2	29.8	30.7			

Intersection: 1: MD 7 & Campbell Blvd

Viovement	A MEBRO	B EB§	#.#EB-7	WB.	WB-	NB	N INE	NB 4	(SB)	SB	S SB	· · · · · · · · · · · · · · · · · · ·
Directions Served	L	LТ	R	LT	R	L	Т	TR	L	T	Ţ	
Maximum Queue (ft)	157)	'141.	70	80	31	171	65	71	54	221	96	
Average Queue (ft)	83	46	36	32	11	82	24	23	17	115	7	
95th Queue (ft)	136	102	60	, 69	30	142	. 56	56	44	191	47.	
Link Distance (ft)	835	835		237	237		298	298		886	886	
Upstream Blk Time (%)	igis in participation	P _b	.ag∵ iba	. a 14.		et 196	and and	· C. Harris	861.1 W.	ů,	w N	1.748
Queuing Penalty (veh)												
Storage Bay Dist (ft)			350			220			200			and the same
Storage Blk Time (%)						0				1		
Queuing Penalty (veh)	e in the second	N partier propiers.				0				0		-,

Intersection: 9: MD 7 & Mohrs Ln

Wovement:	E A WEA	III SB										4
Directions Served	LR	LT										
Maximum Queue (ft)	31	13	and Carlotter and Carlotter	article process					Total Carlotter		*	
Average Queue (ft)	5	0										
95th Queue (ft)	23	9.		-					odenski pri na oveni	man in the same of the same		
Link Distance (ft)	261	621						 				
Upstream Blk Time (%)	្នំ ក្នុងក €ឹ	6.9	igita, ita	5	4 a . 99	t ija	wet in the	 والماري	u terrili .	arta og	4	
Queuing Penalty (veh)								 				
Storage Bay Dist (ft)		ell.				1 K) W						
Storage Blk Time (%)												
Queuing Penalty (veh)		· · · · · · · · · · · · · · · · · · ·	The state of the s					7.5				

Network Summary

Network wide Queuing Penalty: 0

Summary of All Intervals

Run Number		10	2 4	3 . ∗		: PE 67"	. (E) (6
Start Time	4:50	4:50	4:50	4:50	4:50	4:50	4:50
End Time	6:00	6:00	6:00	6:00	6:00	6:00	6:00
Total Time (min)	70	70	70	70	70	70	70
Time Recorded (min)	60	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2	2
# of Recorded Intervals	1.60	- Ja 4	cated Lage		inger i dil	3-1	- e i i
Vehs Entered	2799	2757	2800	2725	2746	2791	2821
Vehs Exited	2800 >	2752	2796	2759	2734	2809	2827
Starting Vehs	61	41	47	86	47	61	72
Ending Vehs	. 60 <i>i</i>	46	51.	52	. 59	43	66
Travel Distance (mi)	1199	1181	1199	1171	1171	1198	1210
Travel Time (hr)	. 55 .5	53:3	55:8-	54.0	54.2	56.6	57.5
Total Delay (hr)	17.9	16.2	18.3	17.4	17.4	19.0	19.6
Total Stops	1459	1377	1437	1413	1449	<u>1467′</u>	1536
Fuei Used (gal)	48.6	47.3	48.8	47.6	47.3	48.8	49.5

Summary of All Intervals

RuniNumber	Ž.			::: 7:		9	AVa				4
Start Time				4:50	4:50	4:50	4:50				
End Time		9 /		6:00	6:00	6:00	6:00				111
Total Time (min)				70	70	70	70				
Time Recorded (min)	4 .u			60	60	:60	60			4 300.42	
# of Intervals				2	2	2	2				
# of Recorded Intervals	*			1 1	1 1	1	1				19
Vehs Entered				2874	2775	2752	2784				
Vehs Exited				2872	2789	2753	2789	ugil			i je
Starting Vehs		•		58	67	42	57				
Ending Vehs				60	53	41	53	*			
Travel Distance (mi)				1232	1192	1175	1193		***************************************		
Travel Time (hr)	- Artin	3 🙀 .	Laaily lage	∮*58.2 w	55.9	54.9	· 55.6			- 1	
Total Delay (hr)				19.6	18.6	18.0	18.2		~=		
Total Stops:				1580	1478	1433	1464				المسكة الانتسان
Fuel Used (gal)				50.3	48.7	47.9	48.5				

Interval #0 Information Seeding

Start Time 4:50	
End Time 5:00	
Total Time (min) 10	
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Start Time	5:00	*		5	5 8 8
End Time	6:00				
Total Time (min)	60				
Volumes adjusted by G	rowth Factors.				

Run Number	¥741	1 E 4-610 Texas	2	. 	4	5.4	6
Vehs Entered	2799	2757	2800	2725	2746	2791	2821
Vehs Exited	2800	2752	2796	2759	2734 🥃	2809	2827
Starting Vehs	61	41	47	86	47	61	72
Ending Vehs	60	46	51	52	_ 59 _ =	43	66
Travel Distance (mi)	1199	1181	1199	1171	1171	1198	1210
Travel Time (hr)	55.5	53.3	55.8	54.0	54.2	56.6	57.5
Total Delay (hr)	17.9	16.2	18.3	17.4	17.4	19.0	19.6
Total Stops	1459_	1377	1437	1413.	1449	1467	1536
Fuel Used (gal)	48.6	47.3	48.8	47.6	47.3	48.8	49.5

Interval #1 Information Recording

Start Time	5:00				
End Time	6:00				
Total Time (min):	· 10 10 10 10 10 10 10 10 10 10 10 10 10	. (511 to 161	e Portugal de		
Volumes adjusted by (Browth Factors				

Rum Numbera	7 7	8 4 4 8 E	(9)	Avg		
Vehs Entered	2874	2775	2752	2784		
Vehs Exited	2872.	2789	2753	2789		
Starting Vehs	58	67	42	57		
Ending Vehs	60	53	41	53		
Travel Distance (mi)	1232	1192	1175	1193		
Travel Time (hr)	58.2	55.9	.54.9	55:6	1-35 i ki si si si	
Total Delay (hr)	19.6	18.6	18.0	18.2		
Total Stops	1580	1478	1433	1464	7 102 114,	
Fuel Used (gal)	50.3	48.7	47.9	48.5		

Intersection: 1: MD 7 & Campbell Blvd

Movement		: EB	EB	EBR	WB	WB	1 NB	NB NB	NB	BSV	SB	SB	SB
Directions Served		Ĺ,	LT	R	LT	R	L	1	TR	T	L	T	T
Maximum Queue (ft)	- de la companya de l	307	263	120	. 83	3 1	281	303	196	51.	39	218	.103
Average Queue (ft)		183	144	59	30	8	183	65	54	3	10	128	8
95th Queue (ft)		260	233	100	67	27	273	192	131	35	. 33 .	203°	56
Link Distance (ft)		835	835		237	237		298	298	365		886	886
Upstream Blk Time (%)	15 gar,	ugza.i	infaliti (gja	16 j	.	opij, sati.	- 0	ia 0;	₩ 0:	atematic	, å. ÷	106.77	u griffigen
Queuing Penalty (veh)							0	2	0				
Storage Bay Dist (ft)				350	en e		220	× x.			200		10.7
Storage Blk Time (%)							5	0				1	
Queuing Penalty (veh)			**************************************	6 2	1	- S	8	1.	.9 (20)			0,	Pragatity.

Intersection: 9: MD 7 & Mohrs Ln

Movement	WB	SBI	B3								dival.				
Directions Served	LR	LT	T			Fr. *									
Maximum Queue (ft)	: : :31	. 68	. 35		6.00 / 10.00			E	ir it	io's					
Average Queue (ft)	5	4	. 1												
95th Queue (ft)	. 22	34	35					Ž.	and the second		i Pierr		» Å	išti	, in the second
Link Distance (ft)	265	620	298												
Upstream Blk Time (%)	paga ing paga.	644 K.	-0.	ia in Pang	er in di	. 24	46	表	- 16 <u>4</u>	ilitati,	4.0	ndg.)+48 f	i de
Queuing Penalty (veh)			0												
Storage Bay Dist (ft)	48 88					4.1			100.5	-97					
Storage Blk Time (%)										,,,,					
Queuing Penalty (veh)									ija i		Tjage				

Network Summary

Network wide Queuing Penalty: 10

Summary of All Intervals

Run Number:	11	35 1039	2/1	- 3.	THE 14 THE	H 145 4	-1.06
Start Time	7:50	7:50	7:50	7:50	7:50	7:50	7:50
End Time	9:00	9:00	9:00	9:00	9:00	⊪9:00∘s	9:00
Total Time (min)	70	70	70	70	70	70	70
Time:Recorded (min)	60	60 °	, ' 60	60	″ ≥60 je	60.	60
# of Intervals	2	2	2	2	2	2	2
# of Recorded Intervals	41			4 1	m 1911	જ 1 કેટ્	43.5
Vehs Entered	2015	2027	2068	2091	2041	1985	2091
Vehs Exited .	2033	2019	2075	2094	2051	-2011	2093
Starting Vehs	41	22	42	39	38	55	42
Ending Vehs	23	*** **30 **	35	36	28	29	40
Travel Distance (mi)	833	841	865	876	843	827	868
Travel Time (hr)	36.1	36.5	38.5	37.6	. 36.2	35.5	• 37.5
Total Delay (hr)	10.5	10.8	11.9	10.7	10.3	10.1	10.8
Total Stops	906	948"	1017	944	891	903	964
Fuel Used (gal)	33.2	33.5	35.0	34.7	33.7	32.9	34.5

Summary of All Intervals

RumNumber	11 11 17 1	` ='8	g.	A Super Avg			: 3
Start Time	7:50	7:50	7:50	7:50			_
End Time	9:00	9:00	9:00	9:00			
Total Time (min)	70	70	70	70			
Time:Recorded (min)	. 60	60	60	60		A A	
# of Intervals	2	2	2	2			
# of Recorded Intervals	1.	1	. 1.	1	i.	×	
Vehs Entered	2072	2067	2033	2049			
Vehs Exited	2064	2066	2027.	2054	i de la companya de		
Starting Vehs	37	44	35	37			
Ending Vehs	. 45	45	41	, 33			
Travel Distance (mi)	861	852	846	851			
Travel Time (hr)	38.0	37.2	36.9	37.0	1	 	
Total Delay (hr)	11.7	11.1	11.0	10.9			
Total Stops	1012	944	973	952		. :	
Fuel Used (gal)	34.6	34.3	34.1	34.1			

Interval #0 Information Seeding

Start Time	7:50			
End Time	8:00			
Total Time (min)	.10		N. S. VIII SK	
Volumes adjusted by Growth Factor	S.			
No data recorded this interval.		8 J. 18		

1 1 1 10 4	1 7 1	D 11
Interval #1	Information	Hecordina

Start Time	8:00	
End Time	9:00	
Total Time (min)	60	
Volumes adjusted by Gro	wth Factors.	

Run Number	1	10 37	2	' ''3 · '	14 A 15 15 15 15 15 15 15 15 15 15 15 15 15	9.5	6
Vehs Entered	2015	2027	2068	2091	2041	1985	2091
Vens Exited • • • • • • • • • • • • • • • • • • •	2033	2019	2075 *	2094	2051	2011	2093
Starting Vehs	41	22	42	39	38	55	42
Ending Vehs	4 23	30	35 🖟	36	28 -	≈ 29 ≉	40
Travel Distance (mi)	833	841	865	876	843	827	868
Travel Time (hr)	36:1	36.5	38.5	37,6	36.2	35.5	37.5
Total Delay (hr)	10.5	10.8	11.9	10.7	10.3	10.1	10.8
Total Stops	906	948	1017	.944	ຼຸ 891	≈903×	964
Fuel Used (gal)	33.2	33.5	35.0	34.7	33.7	32.9	34.5

Interval #1 Information Recording

Start Time	8:00	2.00				
End Time	9:00					
Total Time (min)	60		1 .*		ter in the	
Volumes adjusted by Gr	owth Factors.				 	

Run Numbers 1995		7,990, 8	9	Avg			si i
Vehs Entered	207	2 2067	2033	2049	i.		
Vehs Exited	206	4 2066	2027	2054]
Starting Vehs	3	7 44	35	37			
Ending Vehs	4	5 45	41	. 33]
Travel Distance (mi)	86	1 852	846	851			
Travel Time (hr)	38.	0 37.2	36.9	37.0			
Total Delay (hr)	11.	7 11.1	11.0	10.9			
Total Stops	101	2 944	973.	952]
Fuel Used (gal)	34.	6 34.3	34.1	34.1			

7

Intersection: 1: MD 7 & Campbell Blvd

Movement #1"	EBN	EB®	M EB	o WB₩	- WB	· NBI	NB	NB N	SB.	SB	SB	100
Directions Served	L	LT	R	LT	R	L	T	TR	L	Т	Т	
Maximum Queue (ft)	160	141	7.7	100	31	183	98	90	58	262	206	and the same and
Average Queue (ft)	93	52	38	34	10	90	35	31	18	139	14	
95th Queue (ft)	146	108	64	78	30	154	76	71	47	231 *	90	
Link Distance (ft)	835	835		237	237		298	298		886	886	
Upstream Blk Time (%)	walish an	The State of the S	, , (jek,)	sadif a	rahiikusa.	. judábbaja		Walter St. 186	gji, in Topk	, , , , , , , , , , , , , , , , , , ,	, ,	2
Queuing Penaity (veh)												
Storage Bay Dist (ft)			,350			220		enthops Netherland	200		20100	
Storage Blk Time (%)						0				2	0	
Queuing Penalty (veh)						O.				1	0	

Intersection: 9: MD 7 & Mohrs Ln

Directions Served	LR	LT									
Maximum Queue (ft)	31	_{i.} 5.		", "p1			in m		944		*
Average Queue (ft)	5	0									
95th Queue (ft)	24	5									
Link Distance (ft).	261	621									
Upstream Blk Time (%)			1 9 2			1		- G		2.3	Ņ.
Queuing Penalty (veh)											
Storage Bay Dist (ft)		59	é							20	
Storage Blk Time (%)											
Queuing Penalty (veh)	. The Atlant			. 3	 	A	4 12 1	19			21.24

Network Summary

Network wide Queuing Penalty: 1

Summary of All Intervals

Rum Number	el atalik A	10%	- 2	980	14 () () (4]	e New Ord	₫₽ \$© 1 6
Start Time	4:50	4:50	4:50	4:50	4:50	4:50	4:50
End Time	6:00	6:00	6:00	6:00	6:00	6:00	6:00
Total Time (min)	70	70	70	70	70	70	70
Time Recorded (min)	60	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2	2
# of Recorded Intervals	1 .		Later 1:	4441	. eiget — eg¶gt		trate of
Vehs Entered	3118	3015	3114	3056	2956	2981	2932
Vehs Exited	. 3104 -	3025	3100	3051	2948	~ 2978	2939
Starting Vehs	64	69	57	54	67	54	73
Ending Vehs	. 78	- 59	. 71	59	. 75	57	- 66
Travel Distance (mi)	1387	1339	1385	1354	1310	1321	1298
Travel-Time:(hr)	69.8	65.1	75.0	64.9	64.1	62.5	63.1
Total Delay (hr)	26.5	23.2	31.6	22.6	23.2	21.1	22.6
Total Stops	1878	1718	2084	1689	1711	1620	1649
Fuel Used (gal)	57.2	54.2	58.4	54.7	53.5	53.0	53.1

Summary of All Intervals

The second secon	And the Name of			vanile exclusionary and some			: Second 20	190 di	Companya da	≥t säästä	₩.4. <i>p</i> #	· · · · · · · · · · · · · · · · · · ·	* alkagitika dikara arawa
Run Number				10 A F 16 E	84.	9 m	da dia	Avg A				STATE OF	e similaris
Start Time				4:50	4:50	4:50		4:50					
End Time				6:00	6:00	6;00		6:00					
Total Time (min)				70	70	70		70					
Time Recorded (min)				60	60	60		60				3.	
# of Intervals				2	2	2		2					
# of Recorded Intervals		4		1	1	1		1	and the state of t				
Vehs Entered				3088	3050	3102		3041					
Vehs Exited		9-1-1	27724	3083	3062	3096		3038	yea	130		36	
Starting Vehs				62	63	69		61					
Ending Vehs		****	-1 -12 -11	67	*, 51	75	- 19 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	64			325	χ. α.	
Travel Distance (mi)				1373	1354	1379	•	1350					
Travel Time (hr)	i de		A STATE	65.7	66.4	69:5	Saley :	66.6	Military .		¥6.	· # 3	
Total Delay (hr)				22.8	24.0	26.3		24.4	-				
Total Stops			រស់ស្ត្រីដូរ :	1694	,1805	1871	rea de	Charles of the last of the las	31.714	Gill ing			
Fuel Used (gal)				55.8	55.4	56.7		55.2					,

Interval #0 Information Seeding

Start Time 4:50	
End Time 5:00	
Total Time (min) 10	
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Start Time	5:00			
End Time	6:00			
Total Time (min)	60			
Volumes adjusted by Gro	wth Factors.			

Run(Number)	1.2	. × 4.10≟ k.s	2 =	7.0 0.1 27.3 %	234 4	5	ro sedice
Vehs Entered	3118	3015	3114	3056	2956	2981	2932
Vehs Exited A Section 1	3104	3025	3100	3051	2948	2978	2939
Starting Vehs	64	69	57	54	67	54	73
Ending Vehs	78	59	71 -	59	75	, 57	66
Travel Distance (mi)	1387	1339	1385	1354	1310	1321	1298
Travel Time (hr)	69.8	65.1	75.0	64.9	64:1	62.5	63:1
Total Delay (hr)	26.5	23.2	31.6	22.6	23.2	21.1	22.6
Total Stops	1878	1718	2084	1689	1711	1620	1649
Fuel Used (gal)	57.2	54.2	58.4	54.7	53.5	53.0	53.1

Interval #1 Information Recording

Start Time	5:00		
End Time	6:00		
Total Time (min)	60		

Volumes adjusted by Growth Factors.

Vehs Entered				3088	305		Avo 3041	7 C 2 T 1000 C C C C C C C C C C C C C C C C C			
Vehs Exited				3083	306				**************************************	***************************************	Scale State of the
Starting Vehs			7.77	62	6	3 69	61		4		
Ending Vehs	D- 11.1		9/82	67	5	1 75	64	e i stelli		Q A.	49,777
Travel Distance (mi)				1373	135	4 1379	1350				
Travel Time (hr)		. labita e		65.7	66.	4 69.5	66,6		aanaanir		
Total Delay (hr)		2.7		22.8	24.	0 26.3	24.4				
Total Stops				1694	180	5 1871	1771	M			
Fuel Used (gal)				55.8	55.	4 56.7	55.2	· · · · · · · · · · · · · · · · · · ·			

Intersection: 1: MD 7 & Campbell Blvd

Movement > 100		2 EE		‰⊈EB,	MWB :	WB.	EXCNB	NB.	NB	B3.	4 ASB) SB	SE SE
Directions Served		L	LT	R	LT	R	L	Т	TR	Т	L	Т	T
Maximum Queue (ft)		320	275	146	84	29	293	36∫	285	124,	112	344	310
Average Queue (ft)		211	171	67	35	8	212	118	77	10	12	183	50
95th Queue (ft)		296	253	115	74	26	306	307	193	81	67	312	228
Link Distance (ft)		835	835		237	237		298	298	365		886	886
Upstream Blk Time (%);	s don	. A. M. M. S.	, Charles	dia Sa	a tanaki	i opa	. 2	2	. 0	mairi iya b	Q86	13.1	\$. 14 s
Queuing Penalty (veh)							0	8	0				
Storage Bay Dist (ft)		and the same		350			220		Asia	Al a in the same	200		
Storage Blk Time (%)							12	1				13	0
Queuing Penalty (veh)	-		de la		(1,1)		-, 20	4	, i	[a]a(a)		, 2 ¹	2

Intersection: 1: MD 7 & Campbell Blvd

Directions Served		R				-			, ;						
Maximum Queue (ft)	, 2	97	alan maran da persona d La compansión de la compa	********	tande see from the second	medagakan alipu William and	E .	Statement of the State of States	energy page 11		F) www	. E	VILLO III TORRIO		· · · · · · · · · · · · · · · · · · ·
Average Queue (ft)		5	Maga, 23			- In the second	. Miles . 12. 3417 Billion								
95th Queue (ft)	S	73		ER .			ibi kurusign gan.	-		mineral States	an widely and a second		institles	and the second	nara rakanawa ing
Link Distance (ft)															
Upstream Blk Time (%)	1 3		Wall a	- 347	17.77	Pignir.	i i'dij		. 6: 9	And the second second	199		la g	¥ -	T. 1983
Queuing Penalty (veh)															
Storage Bay Dist (ft)		250					19-4-	C. Indian		5		14 * 3	3.4		
Storage Blk Time (%)															
Queuing Penalty (veh)	S	· 1、新生。	ality (Sec	: : : : : : : : : : : : : : : : : : : :	2.49	4.5			ű.				*3		,38, 198

Intersection: 9: MD 7 & Mohrs Ln

Directions Served		LR	LT	T										
Maximum Queue (ft)	· ·	31	91	164	70 ,			¢.:	c ·			i.		
Average Queue (ft)		4	6	7	3									
95th Queue (ft)		20	45	85	59		de maria de la companya del la companya de la compa	Harry South House						
Link Distance (ft)		255	621	298	298									
Upstream Blk Time (%)	Married and American Application			0	.0		h 4	*ţ			Branch Colonia			- Sim C
Queuing Penalty (veh)				0	0									
Storage Bay Dist (ft)			Him Bedania.	14		100		and the same	***************************************	1		Page 1	47	
Storage Blk Time (%)	***************************************		777	<u> </u>	, , , , , , , , , , , , , , , , , , ,									
Queuing Penalty (veh)			48) (B)	The second second			NA PARTY AND ADDRESS OF THE PARTY AND ADDRESS	Andreas	10 12 12 A	rejade.	i i i i	14.0		is paying

Network Summary

Network wide: Queuing: Penalty: 37

Summary of All Intervals

Run Numbere	- 19 m	10	211	3	**************************************	347 54	6
Start Time	7:50	7:50	7:50	7:50	7:50	7:50	7:50
End Time	9:00	9:00	9:00	9:00	9:00	9:00	9:00
Total Time (min)	70	70	70	70	70	70	70
Time Recorded (min)	60	60	60	60	60	60	. 60
# of Intervals	2	2	2	2	2	2	2
# of Recorded Intervals	1:0	-1.0% 1	aribbid see	in the second	494 - 494, '	inger de	1 hr. 1
Vehs Entered	2297	2362	2295	2274	2318	2286	2355
Vehs Exited	2285	2380	2312	2263]	- 2306°	2277.,	2337
Starting Vehs	37	44	52	39	37	52	40
Ending Vehs	. 49 *	26	. ₹35 [©] *	50	49	61	58
Travel Distance (mi)	919	945	917	914	930	911	935
Travel Time (hr).	44.2	44.8	44.5	43.7	45.3	43.0	44.8
Total Delay (hr)	16.0	15.7	16.4	15.8	16.8	15.0	16.0
Total Stops	1245	1232	1233_	1250	1320	1207	1282
Fuel Used (gal)	38.2	38.9	38.3	38.0	38.7	37.6	38.7

Summary of All Intervals

Run Number	2 (7) S.	32.84 %	3.9	Avg IA	a Arrana	ka û a		
Start Time	7:50	7:50	7:50	7:50				
End Time	9:00	9:00	9:00	9:00				
Total Time (min)	70	70	70	70				
Time Recorded (min)	60	60	60	60	ji vi		n	20.
# of Intervals	2	2	2	2				
# of Recorded Intervals	1,		1	1				b.
Vehs Entered	2294	2309	2387	2317				
Vehs Exited	1 2297	2300	2392	2316			2	
Starting Vehs	38	35	47	42				
Ending Vehs	35	44	42 "	**44				
Travel Distance (mi)	919	913	960	926				
Travel Time (hr)	43.8	43:3	47.1	44.5	900	. 1288	4	tallik digi
Total Delay (hr)	15.5	15.3	17.6	16.0				
Total Stops	1211	<u>.</u> 1237	1320	1253			- 100	i William
Fuel Used (gal)	38.1	37.9	40.0	38.4				

Interval #0 Information Seeding

Start Time 7:50				
End Time 8:00				
Total Time (min) 10				
Volumes adjusted by Growth Factors.				
No data recorded this interval.		1.0	,*	

Interval #1 In	formation	Recording
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Start Time	8:00	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT		
End Time	9:00			
Total Time (min)	4 60 ¹			A 2
Volumes adjusted by G	irowth Factors.			

Run Number	9 11 1	10	2	3.	F	7 7 5 7 4	e 6
Vehs Entered	2297	2362	2295	2274	2318	2286	2355
Vehs Exited	2285 🛊	2380 🚁	2312	2263	2306	2277	. € 2337
Starting Vehs	37	44	52	39	37	52	40
Ending Vehs	2 49	. 26	35	. 50	49	61.	58
Travel Distance (mi)	919	945	917	914	930	911	935
Travel Time (hr)	44.2	44.8	44.5	43,7	45:3	43.0	44.8
Total Delay (hr)	16,0	15.7	16.4	15.8	16.8	15.0	16.0
Total Stops	1245	1232	1233	1250	1320	1207	1282
Fuel Used (gal)	38.2	38.9	38.3	38.0	38.7	37.6	38.7

Interval #1 Information Recording

	:	
Start Time	8:00	
End Time	9:00	
Total Time (min)	60	
Volumes adjusted by Gro	owth Factors.	

Run Number				-7	- 8	99	Avgia		12 AK	抽题等 。	1447	建文學
Vehs Entered				2294	2309	2387	2317					
Vehs Exited		41		2297	2300	2392	2316					
Starting Vehs				38	35	47	42					
Ending Vehs		animaki daliman k	a to be a figure and	35	44	42	44					
Travel Distance (mi)				919	913	.960	926					
Travel Time (hr)	A 44	1. L	191	43.8	43:3	47.1	44.5	* .q.150			1 3000	
Total Delay (hr)				15.5	15.3	17,6	16.0					
Total Stops	8 - 21 E			1211	1237	1320	1253					1 100 EA
Fuel Used (gal)				38.1	37.9	40.0	38.4					

Intersection: 1: MD 7 & Campbell Blvd

Movement		EBW	EBH	EBM	- WB	t WB	NB	- NB	4 NB	- VSB/	SB	SB	1:4
Directions Served		L	LT	R	LT	R	L	Т	TR	L	Ţ	Т	
Maximum Queue (ft)		189	166	81	225	68	193	112	110	165	324	247	
Average Queue (ft)		104	78	37	110	27	100	48	44	48	174	26	
95th Queue (ft)	and the same	162	144	64	190	52	169	92	89	118	285	141	
Link Distance (ft)		835	835		237	237		298	298		886	886	
Upstream Blk Time (%)	N.	- Alle	atrikajni	-46	0		eriginalis v	agin il intern		on the same		r iki	
Queuing Penalty (veh)					0								
Storage Bay Dist (ft)			44	350	annosi i i i i a sia		220	11.2		200	Sind of the same same same same same same same sam	- E-Same	and the later of t
Storage Blk Time (%)	- ,						0				7	0	١
Queuing Penalty (veh)							0				7	0 %	

Intersection: 9: MD 7 & Mohrs Ln

Mövement	A PERMIT	WB.	3 - B35			100			it e	1	7.7	
Directions Served		LR	T			-						
Maximum Queue (ft)		31	ું ે31	 યાનું દેશકા પ્	i i i			il.	yali ^{ra} n,		3	
Average Queue (ft)		4	1	 								
95th Queue (ft)		20	31.	Quantum design in control and delivery								
Link Distance (ft)	_	261	298									
Upstream Blk Time (%)			0	 34.	1					-3	d	
Queuing Penalty (veh)			0	 								
مستمين لا يمن نام مستمين الاستمالية المستمين الم							870					-
Storage Blk Time (%)												
Queuing Penalty (veh)		-				25.20						

Network Summary

Network wide Queuing Penalty: 8

Summary of All Intervals

Run Number		tie (tyle	3774	1	10	2'	34.	41 11	5	6
Start Time				4:50	4:50	4:50	4:50	4:50	4:50	4:50
End Time				6:00	6:00	6:00	6:00 ,	6:00	6:00	6:00
Total Time (min)				70	70	70	70	70	70	70
Time Recorded (min)	***************************************		e se se	60	60	* 60.	*	60	60	60
# of Intervals				2	2	2	2	2	2	2
# of Recorded Interva	ls •	1000		-9-1	48.00	1.3	4.5		#41·	20 Mg 1
Vehs Entered				3216	3292	3316	3303	3204	3170	3227
Vehs Exited			14.5	3215	3284	3324	3324	3199	3170	3196
Starting Vehs				75	55	92	79	64	68	63
Ending Vehs	¥	***************************************		:76·	63	84	58	- 69	68	94
Travel Distance (mi)				1311	1335	1362	1359	1305	1304	1319
Travel Time (hr)		4.7 B		71.1	75:1	76.7	76.0	69.3	67.5	69.3
Total Delay (hr)				30.2	33.5	34.3	33.7	28.5	26.8	28.2
Total Stops		- 600 C	3.7	2099	2167	³ 2271 <i>€</i>	2265	2024	1918	2043
Fuel Used (gal)				56.3	58.3	59.2	58.6	55.8	55.1	55.6

Summary of All Intervals

RuniNumber 9				7		8	9		→Avg			el se		
Start Time				4:50		4:50	4:50		4:50					
End Time			-2000	6:00		6:00	6:00		6,00					
Total Time (min)				70		70	70		70				,	
(Time Recorded (min)	A STREET, STREET,	,		60		60₽	60	f	60	3 /	,			
# of Intervals				2		2	2		2					
# of Recorded Intervals	a et ale e can	A. servedes reconstru		-1	*	1	1		1			*	A. Mili	.177
Vehs Entered		The state of the s		3239	3	3188	3219		3237					
Vehs Exited 🐇		2 (3)	i ing maganin	3242	on Market No.	3206	3225	444	3238	Like.	A. W. 1.	ang.	1.85	
Starting Vehs				78	•	69	62		71					
Ending Vehs		n laiki s a		75	30	. 51	.56	17;n	69					
Travel Distance (mi)				1332	•	1308	1319		1325					
Travel Time (hr)	Erich - All Marie			71.4		71:5	70.5	. !	71.8		l.			
Total Delay (hr)			-	29.9		30.8	29.4		30.5					
Total Stops	8.0	.		2025	The state of the s	2075	2059		2093	No.			31	a
Fuel Used (gal)				56.8		56.2	56.4		56.8					

Interval #0 Information Seeding

Start Time 4:50	
End Time 5:00	
Total Time (min) 10	
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Interval #1 I	Information	Recording
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Start Time	5:00	*	- 10		
End Time	6:00				
Total Time (min)	60,		3,9 -34		- Company

Volumes adjusted by Growth Factors.

Run Number						1		10		2		8	4717	4	5"	6
Vehs Entered						3216		3292		3316		3303	32	204	3170	3227
Vehs Exited	190		is jaliegi.		.u (F#	3215	pi ye.	3284	p-signi-	3324	- Je	3324	√	99	317.0	-3196
Starting Vehs						75		55		92		79		64	68	63
Ending Vehs.						76		63		84	ė.	- 58		69	-, 68	, 94
Travel Distance (m	i)					1311		1335		1362		1359	13	305	1304	1319
Travel Time (hr)	* 15° pr	ally: L	്യൂവർ . പ്യൂവർ .	file	- M1 (1)	71.1	¢⊈®.	75.1	ANTS	76.7	příst v	76.0	- 6	9.3	△67.5 🖫	69:3
Total Delay (hr)						30.2		33.5		34.3		33.7	2	8.5	26.8	28.2
Total Stops	8	₿.a	986		ă.	2099		2167		2271	ă.	2265	2()24	1918	2043
Fuel Used (gal)						56.3		58.3		59.2		58.6	5	5.8	55.1	55.6

Interval #1 Information Recording

Start Time	5:00			The state of the s
End Time	6:00			
Total Time (min)	60	100 Mg		
A Colored and the stand have Constituted	. 			

Volumes adjusted by Growth Factors.

RuniNumbers	7	8 WELL 8	9)	Alvg	
Vehs Entered	3239	3188	3219	3237	
Vehs Exited	3242	3206	3225	3238	
Starting Vehs	78	69	62	71	
Ending Vehs	75	51	56	69	
Travel Distance (mi)	1332	1308	1319	1325	
Travel Time (hr)	71.4	71.5	70.5	71.8	
Total Delay (hr)	29.9	30.8	29,4	30.5	
Total Stops	2025	2075	2059	2093	
Fuel Used (gal)	56.8	56.2	56.4	56.8	

Intersection:	1: MD	7 &	Campbell	Blvd
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Movement & W. S.	e à mud E BM™	#EB	EB#	WB)	##WB#	NB.	ME!	NB	B3	₩ B8	u SB≒	A SE
Directions Served	L	LT	R	LT	R	L	T	TR			Ļ	T
Maximum Queue (ft)	397	373	209	223	64	294	369	284	231	9	237	358
Average Queue (ft)	247	215	74	104	25	221	151	93	21	0	52	187
95th Queue (ft)	360	334	164	181	52	316	349	204	140	7	. 147	305
Link Distance (ft)	835	835		237	237		298	298	365	621		886
Upstream Blk Time (%)	通行使一样	65	* Walter		di kaj deliga	2	- 3i	72 0	1,4 ,0	ielijie, ejak	W W	1987 W 14 2
Queuing Penalty (veh)				0		0	14	0	2			
Storage Bay Dist (ft)			350		A CONTRACTOR OF THE PARTY OF TH	220	6.5				200	X
Storage Blk Time (%)		1				15	2					13
Queuing Penalty (veh)	en ala j	- 3-		10 - 12 1 1 1	icija Matematika	25	. 8	401 13.	A Property of			<u>, 9</u>

Intersection: 1: MD 7 & Campbell Blvd

Movement	, f\$B	SE		0.0000					
Directions Served	T	R							
Maximum Queue (ft)	268 🚁	63 🔨 😁	4 4		l par Ma	V. 94	. Autobe •	g of the	i eta Sad
Average Queue (ft)	41	2							
95th Queue (ft)	181	44		1		The state of the s			
Link Distance (ft)	886								
Upstream Blk Time (%)	4		. N. 34			<i>j</i> . 117.	Section 1		2 M
Queuing Penalty (veh)									
Storage Bay Dist (ft)		250							
Storage Blk Time (%)	0								
Queuing Penalty (veh)	- 1		and the second	S. n. S. S.				u y	

Intersection: 9: MD 7 & Mohrs Ln

Movement	WB	SBUE	B3#	B 3							
Directions Served	LR	LT	_1_								,
Maximum Queue (ft)	35	1:17	32	35	ign Latin a t		4	m. 1918	100	4	
Average Queue (ft)	6	10	2	1							
95th:Queue (ft)	26	63	43	34		a ang can	ewirk: dig			(Stop	
Link Distance (ft)	261	621	298	298							
Upstream Blk Time (%)	(a)		0	0	4				- ×		
Queuing Penalty (veh)			0	0							
Storage Bay Dist (ft)	is some	un selle avid				1.			i de la dic		
Storage Blk Time (%)											
Queuing Penalty (veh)	7 (The se					14				

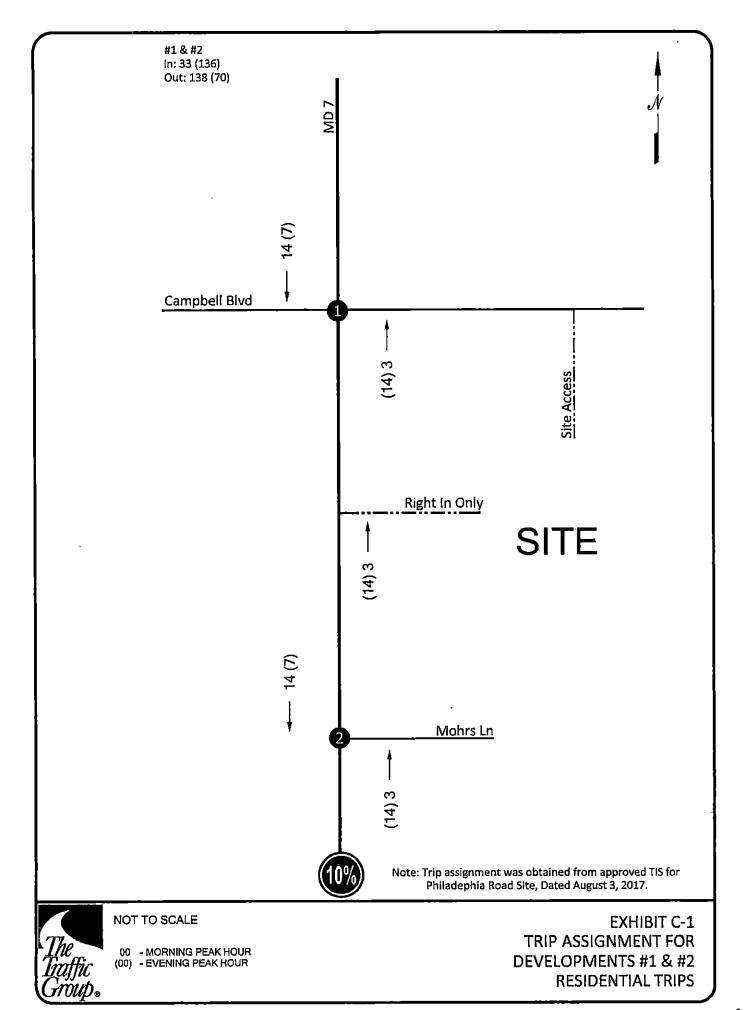
Network Summary

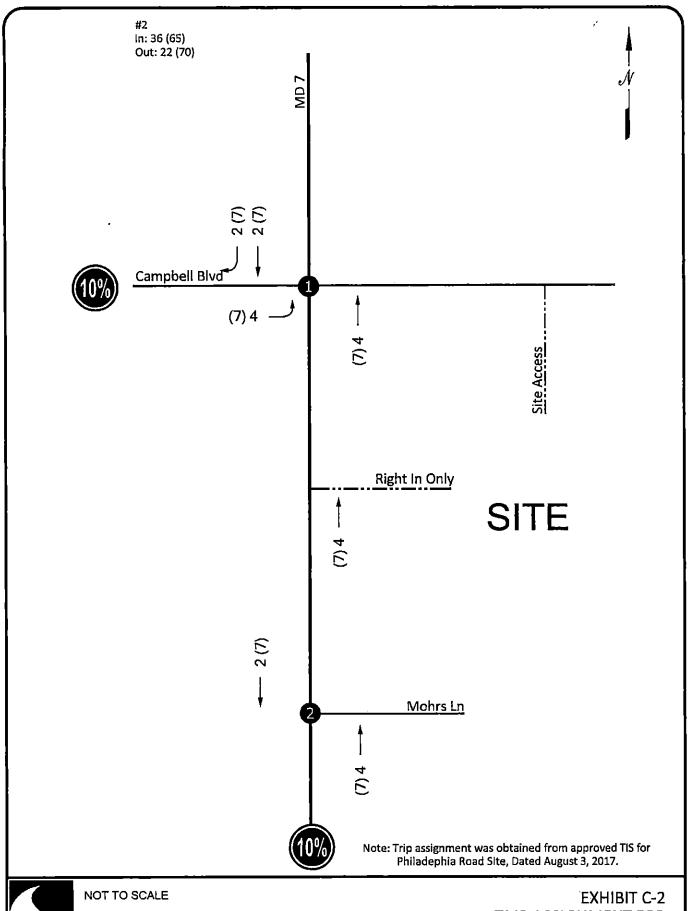
THE PARTY OF THE P				######################################		
Network wide Queuing Penalty	r 63	6.0	≱ :		g ³ 11	
FACTAROLY TAIGE GREETING IS CHARTA	., UU			and the man for the advantage	• S	3 32

APPENDIX C

Trip Assignment for Background Developments

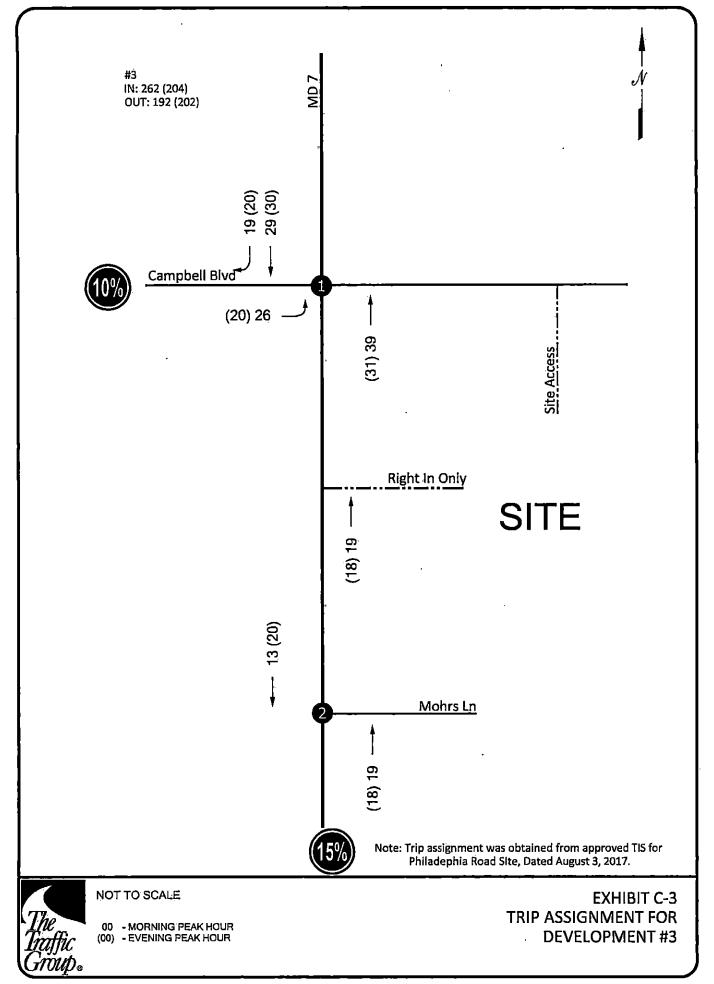


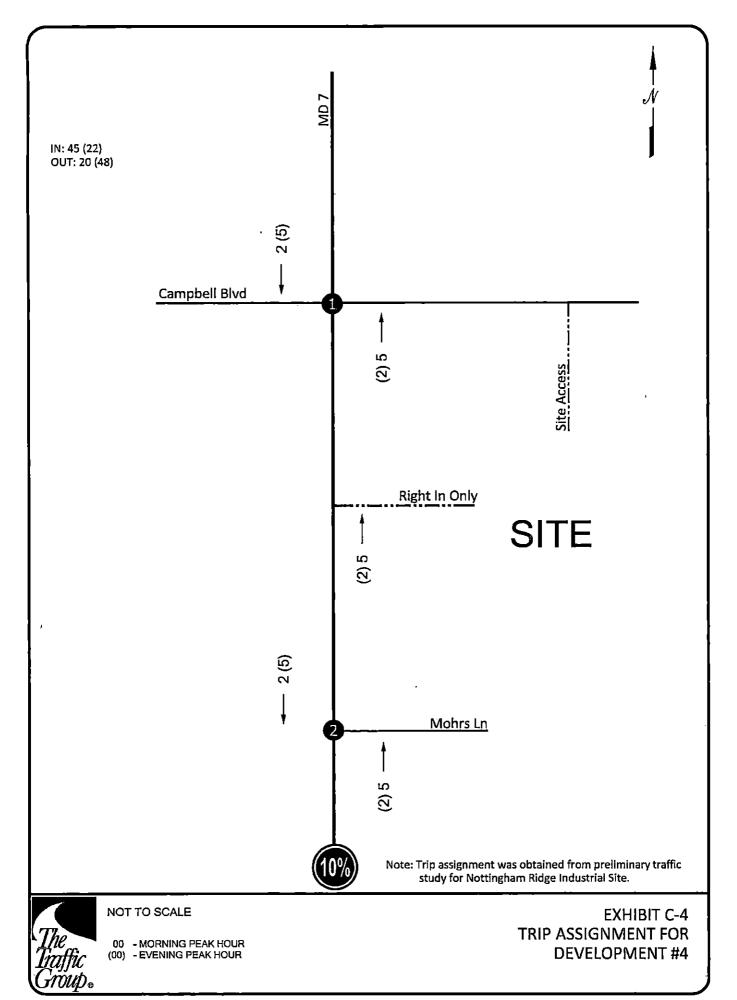






00 - MORNING PEAK HOUR (00) - EVENING PEAK HOUR TRIP ASSIGNMENT FOR DEVELOPMENT #2 RETAIL TRIPS

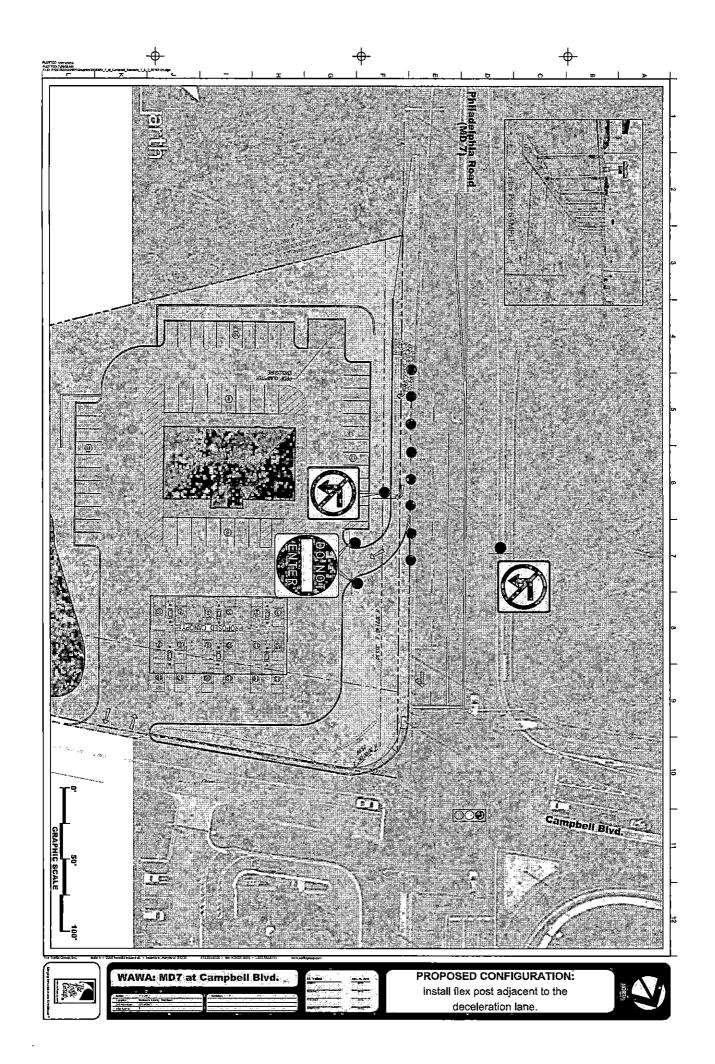




APPENDIX D

Access Concept Plan





Larry Hogan Governor Boyd K. Rutherford Lt. Gövernör Pete K. Rahn Secretary Gregory Slater Administrator

December 21, 2018

Carl R. Wilson, Jr., P.E. PTOE The Traffic Group 9900 Franklin Square Drive, Suite H Baltimore MD 21236

Dear Mr. Wilson:

Thank you for the opportunity to review the Traffic Impact Study (TIS) for WaWa. The Maryland Department of Transportation State Highway Administration (MDOT SHA) has completed our review of the submittal listed below and comments are attached.

WaWa Store - MD 7 (Philadelphia Road) at Campbell Boulevard MDOT SHA Tracking No. 13APBA038XX Traffic Impact Study Dated November 9, 2018 Mile Point 5.71; Baltimore County

Based on the information provided in the traffic study analysis, MDOT SHA will accept the analysis and will not require the submission of any additional reports. MDOT SHA concurs with the proposed signal modification to include crosswalks, count downs, and APS across the east leg of MD 7 and the south leg of Campbell Boulevard. Also, we will be permitting a right-in only entrance on MD 7. MDOT SHA does not support the recommendation to provide an eastbound MD 7 double left turn lane by reconfiguring and shifting the existing westbound through lane. These improvements are not in line with long range plans for MD 7 in connection with the Mohr's Lane County project between MD 7 and US 40. However, for a future dedicated westbound MD 7 double left turn lane, the developer will grant and dedicate right-of-way along the south side of MD 7 beginning 15 feet behind the new curb and gutter at Campbell Boulevard to beginning and end of the property frontage adjacent to MD 7. An access permit will be required for all construction within MDOT SHA right-of-way.

To initiate the plan review cycle toward the issuance of the access permit the design engineer must submit nine sets of plans reflecting the required improvements as noted above. The plan submittal should include one set of hydraulic computations and a CD containing plans. Please submit all supporting documentation to Mr. Rich Zeller at 320 West Warren Road, Hunt Valley MD 21030. Please utilize the MDOT SHA tracking number when making this submission.

PETITIONER'S
EXHIBIT NO.

Mr. Carl R. Wilson, Jr. Page Two

Please note, if this project has not obtained an MDOT SHA access permit and begun construction of the required improvements within five years of this approval, extension of the permit shall be subject to the submission of an updated traffic impact analysis in order for MDOT SHA to determine whether the proposed improvements remain valid or if additional improvements will be required of the development.

If you have any questions, or require additional information, please contact Mr. Zeller at 410-229-2332 or via email at rzeller@sha.state.md.us.

Sincerely,

Wendy Wolcott, P.L.A.

Metropolitan District Engineer

MDOT State Highway Administration

District 4 - Baltimore and Harford Counties

Attachment

cc: Mr. Jan M. Cook, Development Plans Review, Baltimore County

Mr. Vishnu Desai, Development Plans Review, Baltimore County

Ms. Rola Daher, Consultant for MDOT, TFAD, MDOT SHA

Mr. Donald C. Distance, Team Leader for Traffic, District Four, MDOT SHA

Ms. Sarah Gary, Consultant for MDOT, TFAD, MDOT SHA

Ms. Erin Kuhn, Assistant District Engineer for Traffic, District Four, MDOT SHA

Ms. Tina Saxon, Administrative Assistant, OPPE RIPD, MDOT SHA

Ms. Lisa Shemer, Division Chief, OPPE, TFAD, MDOT SHA

Ms. Lisa Sirota, Regional Planner, RIPD, MDOT SHA

Mr. Oscar Yen, Transportation Engineer, OOTS, MDOT SHA

Mr. Rich Zeller, Transportation Engineer, District Four Access Management, MDOT SHA

file/DCD/BG23259

WaWa Store - MD 7 (Philadelphia Road) at Campbell Boulevard MDOT SHA Tracking No. 13APBA038XX Traffic Impact Study Dated November 9, 2018 Mile Point 5.71; Baltimore County

The Traffic Impact Study for the WaWa Store report findings and MDOT SHA comments and conclusions:

- The proposed construction site for the WaWa Store includes 4,737 gross square foot (gsf) convenience store with 12 fuel dispensers.
- The study analyzed the following intersections under existing, background, and future conditions:
 - o MD 7 (Philadelphia Road) and Cowenton North
 - o MD 7 (Philadelphia Road) and Cowenton South
 - o MD 7 (Philadelphia Road) and Commercial Site
 - o MD 7 (Philadelphia Road) and Nottingham Ridge Industrial Site

The result of the traffic impact study shows that all intersections are projected to operate at levels of services "C" or better under existing, background, and total traffic conditions.

MDOT SHA comments and conclusions:

- MDOT SHA will accept the analysis and will not require the submission of any additional reports. MDOT SHA concurs with the proposed signal modification to include crosswalks, count downs and APS across the east leg of MD 7 and the south leg of Campbell Boulevard. Also, we will be permitting a right-in only entrance on MD 7. The developer's consultant needs to submit a preliminary design request to initiate the OOTS review and approval process.
- MDOT SHA does not support the recommendation to provide an eastbound MD 7 double left turn lane by reconfiguring and shifting the existing westbound through lane. These improvements are not in line with long range plans for MD 7 in connection with the Mohr's Lane County project between MD 7 and US 40. However, for a future dedicated westbound MD 7 double left turn lane, the developer will grant and dedicate right-of-way along the south side of MD 7 beginning 15 feet behind the new curb and gutter at Campbell Boulevard to beginning and end of the property frontage adjacent to MD 7.
- MDOT SHA has a concern that the westbound MD 7 left turn lane will not be able to accommodate future traffic and the existing left turn lane should be increased an additional 100 feet.

All MDOT SHA Policies, Standards, and Specifications must be followed when preparing the access permit plans for review, including, but not limited to the following documents:

- MDOT SHA Access Manual
- MDOT SHA Business Standards and Specifications
- MDOT SHA Accessibility Policy and Guidelines for Pedestrian Facilities
- MDOT SHA Bicycle Policy and Design Guidelines

The Access Management Plan Review Checklist must also be utilized in drafting the MDOT SHA improvement plans. Please include a copy of the completed checklist with each submittal. All of these documents along with additional guidance can be found on our web site at www.roads.maryland.gov under Business Center.

EDWARD M. STEERE, AICP

11100 Dovedale Court • Marriottsville, Maryland 21104 443-333-5521 • ESteere@Valbridge.com

Land Use Planning • Real Estate Development • Project Management • Market Analysis
Client Relations • Business Development • Relationship Development • Operational Enhancements
Financial Management • Due Diligence • Appraisal • Budgeting • Social Media Marketing

PROFESSIONAL EXPERIENCE

VALBRIDGE PROPERTY ADVISORS | BALTIMORE WASHINGTON METRO, Marriottsville, Maryland • 2017-Present

A national real estate advisory consulting firm, with a strong emphasis on commercial and special property valuation, as well as real estate advisory and strategy services.

Managing Director

I am the regional lead on all non-appraisal products and services, including site feasibility, market analysis, impact on value assessments, zoning, real estate economics, tax increment financing, special exception expert testimony, and housing studies.

- Consult directly to financial institutions in support of proposed development projects and production of HUD studies.
- Consult and collaborate with affordable housing developers with market analysis and product positioning.
- Consult directly to property owners and developers to manage land use and zoning matters.
- · Consult to the legal community for expert witness testimony.
- Collaborate with other consultants to create a comprehensive development team, in addition to analysis and reporting for real estate development projects.
- Coordinate national clients and study parameters.

LIPMAN, FRIZZELL & MITCHELL, LLC, Columbia, Maryland • 2016-2017

A 40-year old real estate valuation and advisory firm serving the Baltimore-Washington regional market.

Senior Associate

I was responsible for all of the planning and analysis projects in the mid-Atlantic area, as the principal and producer of a variety of products. Those products include market analysis, site and market feasibility, impact on value studies, expert testimony in zoning and real estate economics, community strategy, tax increment financing studies, and workforce studies.

- Analyze and produce market studies for tax credit financing in Maryland, Pennsylvania and Washington, DC.
- Consult directly to financial institutions in support of proposed development projects (both affordable and market rate) and production of HUD studies.
- · Consult directly to property owners and developers to manage land use and zoning matters.
- · Consult to the legal community for expert witness testimony.
- Collaborate with other consultants to create a comprehensive development team, in addition to analysis
 and reporting for real estate development projects.

PETITIONER'S

EXHIBIT NO.

EDWARD M. STEERE • Page 2 • ESteere@Valbridge.com

EMSPLANNING, LLC, Aberdeen, Maryland • 2011-2015

A local independent planning consulting practice, focused on providing affordable planning, development and expert solutions to property owners and investors, as well as subcontracting and partnerships with other consulting interests.

Principal

A sole proprietor format business, wherein I was the principal, project manager, and sometimes producer, of services for clients seeking real estate development solutions. Creating collaborations and partnerships of peer professionals to accomplish tasks and projects.

- · Consult directly to property owners and developers to manage land use and zoning matters.
- Consult to the legal community for expert witness testimony.
- Collaborate with other consultants to create a comprehensive development team, in addition to analysis and reporting for real estate development projects.

HUMMINGBIRD MANOR, LLC, Aberdeen, Maryland • 2008-Present

Purchased and restored a historic National Register Victorian house into a 15-bed affordable assisted living facility in partnership with my spouse.

Member, Chief Financial Officer

Act as business manager and facilities manager, maintaining the grounds and performing incidental repairs. Employ 8 certified medical staff providing care 24/7, and manage outside contractors. Coordinate payroll and accounting as CFO. Conduct extensive community networking and outreach, and design and administer website and blog.

- Created comprehensive business plan winning financing for project converting a historic house into an assisted living facility, and achieved profitability in a down market.
- Designed effective marketing efforts using social media, sustaining venture during lengthy state licensing process.

REAL PROPERTY RESEARCH GROUP, INC, Columbia, Maryland • 2013-2014

A national real estate market research firm, providing developers, lenders, investors, non-profits and state and local governments with detailed market research, feasibility and analysis.

Analyst

Focused on multifamily residential projects, work tasks involve the analysis of market area, demographics, economics and communities to derive supply and demand, affordability, penetration and absorption.

- Manage associates research tasks, compile and analyze data, coordinate with local stakeholders.
- Draft and publish comprehensive reports for submission to lenders, HUD and state governments for support of developer financial applications.

EDWARD M. STEERE • Page 3 • ESteere@Valbridge.com

FREDERICK WARD ASSOCIATES, Bel Air, Maryland • 2005-2011

Integrated, multidisciplinary firm providing comprehensive planning, engineering, architecture and surveying services throughout the Mid-Atlantic Region for over 50 years.

Director of Business Development • 2008-2011

Spearheaded business development and marketing strategy as right hand of the president, including sponsorships, social media marketing and special events. Developed proposals and assembled project teams. Worked closely with clients in order to enhance reputation of firm as a responsive, reliable partner.

- Sustained firm during prolonged market downturn by expanding business development efforts and teaching networking, prospecting and salesmanship skills to senior staff.
- Developed productive, long-term business relationships with organizations such as the US Army, defense contractors and a Fortune 500 company.

Senior Planner • 2005-2008

Spearheaded collaborative planning efforts with clients, introducing "teaming" concept and Client Services Director role. Prepared development plans, planning studies, feasibility studies, and due diligence reports. Coordinated teams of engineers, surveyors, drafters and other professionals on all projects. Enhanced corporate communication by embracing cutting-edge technology. Key Highlights as Senior Planner:

- Ensured departmental profitability by clarifying project roles, and enhancing teamwork and communication leading to greater efficiency and improved client relations.
- Authored BRAC transportation study widely used to promote regional transportation improvements.
- Retained as expert witness in front of Boards of Appeals and Planning Commissions.

LIPMAN, FRIZZELL AND MITCHELL, Columbia, Maryland • 2002-2005

Commercial real estate appraisal firm with 20 employees working mostly on commission.

Associate Market Analyst

Compiled detailed market reports including analysis and illustration of statistics and demographic data to help clients obtain project financing. Analyzed market feasibility of Baltimore community planning efforts. Performed property appraisal fieldwork and reporting as necessary.

- Streamlined data collection and tabulation by developing standard production format and selecting appropriate data vendors.
- Instituted GIS for map analysis and report production.

HARFORD COUNTY DEPARTMENT OF PLANNING AND ZONING, Bel Air, Maryland ● 1990-2001

Fast growing county in Baltimore/Washington metro area, on the I-95 corridor fronting Chesapeake Bay.

Senior Planner

Spearheaded development review for urban and waterfront planning. Operated a public access desk helping individuals, developers, surveyors and engineers with zoning matters. Represented county in public hearings and meetings as a government expert.

- Designed public database tracking development projects every step of the way, ultimately uncovering inefficiencies and shortening development review process by 30%.
- Developed reputation as an apolitical expert on zoning matters, concerned with serving the community rather than protecting my position.

EDWARD M. STEERE • Page 4 • ESteere@Valbridge.com

CHESTER COUNTY PLANNING COMMISSION, West Chester, Pennsylvania • 1988-1990 Planner

- Responsible for state-mandated development review, zoning code, subdivision regulation, and comprehensive plan review for 73 municipalities.
- Taught local elected officials planning principles.
- Produced technical planning practice design documents.

FAIRFAX COUNTY DPW, UTILITIES PLANNING & DESIGN, Fairfax, Virginia • 1987-1988 Engineering Technician (temporary grant funded position)

- Responsible for the Storm Sewer Inventory.
- Provided research and drafting for capital improvement projects for roads, parking garages, sewers, bridges, etc.

EDUCATION

Master of Science in Real Estate

Johns Hopkins University, Carey Business School • Baltimore, Maryland

Master of Legal and Ethical Studies and Master of Public Administration (Coursework)

University of Baltimore • Baltimore, Maryland

Bachelor of Fine Arts in Geography

Syracuse University, Maxwell School of Citizenship and Public Affairs • Syracuse, New York

CERTIFICATIONS AND MEMBERSHIPS

American Planning Association – American Institute of Certified Planners #011075

Lambda Alpha International – Honorary Land Economics Society

Harford County Economic Development Advisory Board

Friends School of Harford Board of Trustees

Habitat for Humanity Susquehanna Chapter, Resource Development Committee

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Economic Analysis

Proposed Fuel Service Station 5401 Campbell Boulevard White Marsh, Maryland

FOR Whitemarsh Associates, LLC 1604 Creston Drive Forest Hill, MD 21050

Valbridge Property Advisors | Baltimore Washington Metro

11100 Dovedale Court Marriottsville, Maryland 21104 443-333-5522 443-333-5445 fax

valbridge.com

BW01-20-0043

PETITIONER'S

EXHIBIT NO.







June 24, 2020

Mr. Jack Gease Whitemarsh Associates, LLC 1604 Creston Drive Forest Hill, Maryland 21050

Subject: Propos

Proposed Fuel Service Station and Convenience Store White Marsh, Baltimore County, MD - Need Analysis

Dear Mr. Gease:

Enclosed please find Valbridge Property Advisor's (Valbridge) economic analysis for the proposed fuel service station and convenience store to be located in the 5401 Campbell Boulevard in the White Marsh area of Baltimore County, Maryland. The analysis has been conducted in connection with your petition for a special exception to permit a new fuel service station and convenience store on that property.

We find that the proposed Wawa fuel service and convenience store will primarily serve the non-residential uses and related activities in its surrounding industrial zoned area. The enclosed report summarizes our reasoning process.

It has been a pleasure working with you on this project. Please call me at (443) 333-5521 should you have any questions or comments.

Respectfully submitted, Valbridge Property Advisors | Baltimore Washington Metro

Edward M. Steere, AICP Managing Director



AND CONVENIENCE STORE PRIMARILY SERVE ANALYSIS

EXECUTIVE SUMMARY

Valbridge Property Advisors (Valbridge) has been engaged by Whitemarsh Associates, LLC in connection with its petition to the Baltimore County Board of Appeals for a special exception permitting the development of a fuel service station and convenience store at the southeast corner of Campbell Boulevard and Philadelphia Road (MD-7) in the unincorporated area of White Marsh, Baltimore County, Maryland.

Scope of Work

Valbridge has been engaged to examine whether the proposed fuel service station and convenience store at this location will serve primarily the industrial uses and related activities in the surrounding industrial area. Presentation of sufficient evidence is required before a special exception for that use can be granted.

Wawa Fuel Service Station and Convenience Store

The proposed Wawa station in White Marsh will be located on a single 4.05 acre parcel which is zoned ML-IM. The site is bounded by Campbell Boulevard to the north and Philadelphia Boulevard to the west. The proposed improvements to the site include a fuel service station with six multiproduct dispensers (MPD's) under a single canopy, in addition to a convenience store of approximately 4,700 sq. ft. The station is expected to operate twenty-four hours per day, seven days per week.

The subject site is well situated at the intersection of Campbell Boulevard and MD-7 at the southern gateway of a major regional shopping destination. Campbell Boulevard at this site also provides direct access to CarMax, FedEx and other smaller business uses. The station will primarily attract traffic attributable to the industrial users and related activity from the surrounding area. Traffic volumes at this intersection and nearby points is strong with data showing upwards of 20,000 AADT. This gateway site location provides an opportunity for traffic coming out of the White Marsh Mall and Nottingham Square retail centers as well as traffic related to the surrounding industrial users to have convenient access to fresh foods and competitive fuel prices before continuing their journeys to and from home. Expansion of nearby neighborhoods in Perry Hall as well as the 324-unit Avenue Grand project currently under construction inside the retail area will only further contribute to the demand for fueling in this area.



The services offered by the Wawa vehicle fueling station and convenience store are, therefore, supportive of existing development nearby and aligns with the role which the highway location plays for the community as a major commercial route.

Supply/Demand Issues

<u>Trade Area</u> – We have defined the subject fuel service station's trade area as the area centered on the White Marsh commercial area along both sides of Interstate 95 as well as industrial lands south of Philadelphia Road. Specifically the trade area is shaped and limited at its extremes by Perry Hall Boulevard to the West, the CSX rail line to the East, White Marsh Boulevard (MD-43) to the North and Middle River Road to the South where the land use begins to become more mixed with residential. We have defined the trade area based on two principal factors:

- <u>Commercial Services</u> The defined commercial trade area has the highest concentration
 of commercial services within White Marsh. The White Marsh Mall and additional
 commercial opportunities at Nottingham Square make the area a major regional shopping
 destination for households throughout this part of Baltimore County as well as for the
 large volume of passersby traveling on 1-95 between Baltimore City and Harford County.
 By extension the trade area is also a major employment center. This interchange is also a
 major hospitality node with six major hotel flags present.
- Highway Network The trade area is shaped by the regional highway network in particular, with the White Marsh Mall being a major crossroads location due to the interchange of I-95 and White Marsh Boulevard (MD-43). The trade area also extends along Philadelphia Road (MD-7) serving various industrial and manufacturing uses. While Pulaski Highway (US-40) is on the periphery of the defined trade area, this highway exists as an alternative parallel route to I-95 with its own set of accessible options. The CSX Railroad physically divides this commercial area from the US-40 corridor.
- As such, the trade area demographics represent only a portion of the market share occupied by this store. The defined trade area reasonably contains the majority of commuters and consumers who are likely to travel through or do their shopping in White Marsh, as well as travelers visiting the Baltimore region. Realistically, residential households of surrounding areas may also avail themselves of the broad variety of offerings in this area.
- <u>Trade Area Demand</u> The primary customer base for this fuel service station and convenience store will be industrial and related tenants, vendors and customers in the trade area:
 - O Workforce Assuming a commuter vehicle uses one fill up of 15 gallons per week, Valbridge estimates personal vehicle demand from workers within the trade area to be 162,990 gallons per week and over 8.48 million gallons per year. It is important to note that this figure does not account for the significant volume of shoppers visiting the retail area, and travelers using the hospitality venues.



- o <u>Traffic Generation</u> Using a conservative estimate of a 5.0% capture rate of all traffic by fuel stations in the trade area results in 903,375 vehicles per year or the equivalent of **13.55 million gallons** of annual fuel demand.
- Residential Demand This site is located in a regional commercial/industrial setting on a major mixed-use thoroughfare, where the customer demand will be predominantly daytime worker population and consumers from more distant suburban neighborhoods, seeking regional commercial services and businesses. Therefore, we did not quantify a residential demand for this station and have excluded residential land uses from the defined trade area.
- Competitive Supply We find that there are four other existing fuel stations located within the proposed subject's trade area for the available consumer demand for gasoline and diesel:

WAWA WHITE MARSH EXISTING TRADE AREA COMPETITION

Name	Address	MPD's	Diesel Positions	C-Store	Car Wash	24 hr	Acres	Bldg SF	Yr Built
ВР	5250 Campbell Blvd	8	2	Hyper	γ		1.37	4,224	2003
Eccon	8485 Honeygo Blvd	6	3	Ltd		Y	1.69	1,845	1983
7-Eleven	8235 Perry Hall Blvd	6		Expanded		Y	1.16	2,940	2002
Royal Farms	5361 Nottingham Rd	8	16	Hyper		Y	2.44	4,659	2018

Source: Valbridge Property Advisors, March 2020

- o <u>Evaluation</u> Despite the stations being in close proximity to one another, each station had some clear advantages over the other. All of the stations had modern formats and did not feature service bays or tiny curbside kiosks selling only cigarettes and soda. We believe that the most recently constructed Royal Farms as well as the BP are also likely benefitting from their fresh food offerings on top of what is already made available at a traditional convenience store. Where the 7-11 and Exxon excel is their location on the White Marsh Mall side of the retail area where traffic is much higher, however the 7-11 is placed at a slight disadvantage given its position on the inner ring road on the opposite side of the mall.
- Need We concur that <u>efficient</u> dealers sold approximately 2.1 million gallons per year and that each of these stations is well located to command efficient flow of customers. Therefore, we compute the competitive supply on these four stations as 8.4 million gallons per year. This subject site is located on one of the primary entrance roads into the surrounding industrial area and offers this pool of customers an option for fuel that limits their exposure to the congestion and traffic of nearby highways.



O <u>Unmet Demand</u> - We quantify unmet trade area demand (need) in the range of approximately 5.15 million gallons per year, based on a comparison of trade area demand by overall traffic volumes modeled in the retail area with the estimated gallonage pumped for the area by the existing four fueling stations. We believe this is a conservative estimation, based on our exclusion of residential demand for fuel from nearby households.

Conclusions

Valbridge finds that the proposed Wawa fuel service station and convenience store serves a White Marsh Trade Area with strong employment and customer demand. We have calculated above that nearly two-thirds (62.5%) of total demand typically available within the area is likely to be drawn from the workforce alone within the defined industrial and related activity area.

In order for the proposed Wawa fuel service station and convenience store to "serve primarily the industrial uses and related activities in the surrounding industrial area," it must capture at least 51% of its fuel sales from within its surrounding industrial area. We judge that the subject will draw its sales from the industrial area and from other portions of its trade area in proportion to the demand generated by each.

Valbridge, therefore, concludes that the proposed Wawa station will be an attractive option for the industrial uses and related activities in the surrounding industrial area.



I. INTRODUCTION

Valbridge Property Advisors has been engaged by Whitemarsh Associates LLC in connection with its petition to the Baltimore County Board of Appeals for a special exception permitting the development of an fuel service station and convenience store at the property located at the southeast corner of Campbell Boulevard and Philadelphia Road (MD-7), in the unincorporated White Marsh area of Baltimore County, Maryland.

Purpose of Assignment

This site is presently unimproved. The proposal is to develop the site of approximately 4.05 acres as a fuel service station and convenience store. A Wawa store is planned with six multi-product dispensers (MPD's) under a single canopy, in addition to a convenience store of approximately 4,700 sq. ft. The station is expected to operate twenty-four hours per day, seven days per week. It is assumed that Wawa may prefer a modified site plan, but development will generally be in context with the current concepts.

Valbridge Property Advisors has been engaged to examine evidence of whether the proposed Wawa will serve primarily the industrial uses and related activities in the surrounding industrial area. The site is in the ML IM zoning district, which requires a petition for special exception for a fuel service station. Section 253.2 of the Baltimore County Zoning Regulations requires a finding that the use will "primarily serve the industrial uses and related activities in the surrounding industrial area." Presentation of sufficient evidence to meet this requirement is required before a special exception for that use can be granted.

For purposes of this analysis, we have considered the subject to be serving <u>primarily</u> the surrounding industrial area if it can capture at least 51% of its fuel sales from within the industrial uses and related activities in the surrounding industrial area. In this analysis, therefore, Valbridge focuses on the key issue of total demand for gasoline generated from within the defined non-residential zone.

Scope of Work

In conducting this analysis Valbridge has accomplished the following tasks:

- Inspected the subject site and neighborhood;
- Reviewed the subject's site plan;
- Defined the subject's surrounding trade area;
- Consulted demographic and economic data for the trade area produced by ESRI (Environmental Systems Research Institute, Inc.) based on U.S. Census information, Baltimore Metropolitan Council and others;
- Inspected gas station properties in the trade area;

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EXHTRIT NO





 Estimated the scale of gasoline demand within the defined trade area and arrived at certain conclusions.

Organization of Report

Following this Section I, Valbridge's report is organized in three sections as follows: Section II, site analysis; Section III, need analysis; Section IV, survey of nearby competitive supply; Section V, conclusions.

Qualifications of Consultant

Valbridge is the largest independent real estate valuation firm in the continental United States, with more than 70 offices and 675 employees, of which more than 200 are MAI appraisers. We have experience and data on all types of real estate, including special purpose and portfolio assignments.

The principal-in-charge of this assignment has been Edward Steere, AICP, Managing Director. He has over 30 years of real estate development, finance and consulting experience. Most relevant to this assignment, Steere has successfully completed feasibility assessments for commercial opportunities throughout Maryland. Additional information on the firm and Steere are found in Appendix A at the end of this study.

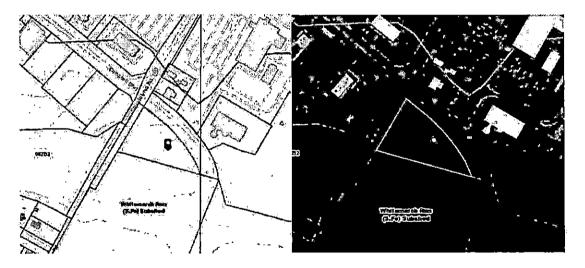


II. SITE LOCATION ANALYSIS

In this section, Valbridge describes the subject Wawa fuel service station and convenience store location, its access and surroundings in order to establish its positioning within its trade area and competitive environment generally.

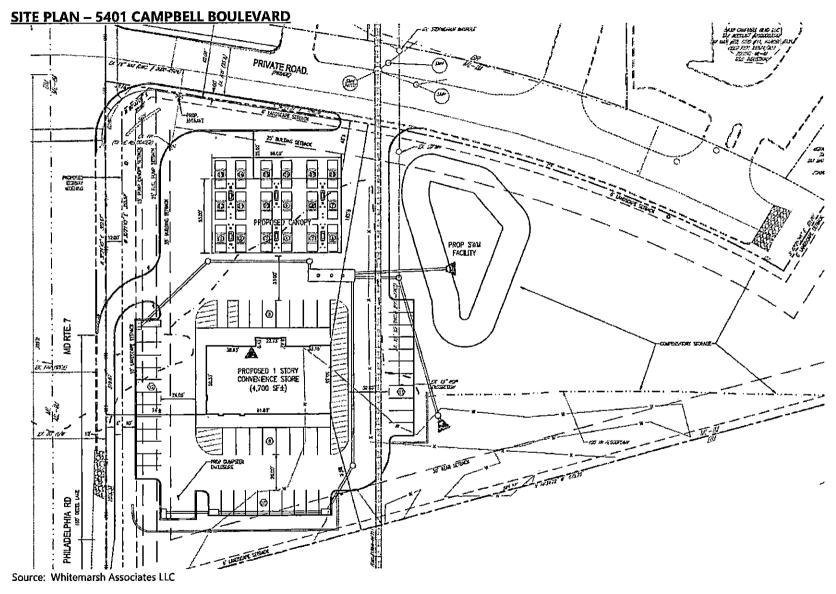
A. SITE DESCRIPTION

The proposed Wawa fuel service station property is located on the southeast corner of the intersection of Philadelphia Road and Campbell Boulevard approximately 385 feet south of the centerline of Campbell Boulevard. The property parcel is 4.05 acres in size and is entirely zoned ML-IM (Manufacturing Light). The subject site is currently unimproved except for signage related to the White Marsh Professional Center facing the intersection.

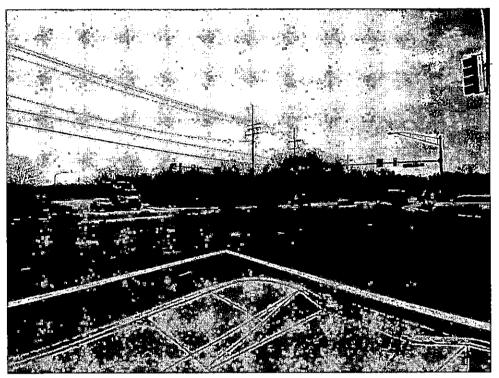


The proposed improvements to the site include a vehicle fueling station with six multi-product dispensers (MPD's) under a single canopy in addition to a convenience store of approximately 4,700 sq. ft. Diesel fuel will also be offered. Operating hours are expected to be 24 hours per day, seven days per week. The topography of the site is generally flat with no evident environmental sensitivities. The land will be regraded with development to acquire reasonable access and final elevation grades. It is assumed that Wawa may prefer a modified site plan, but generally in context with the current concepts shown on the following page:

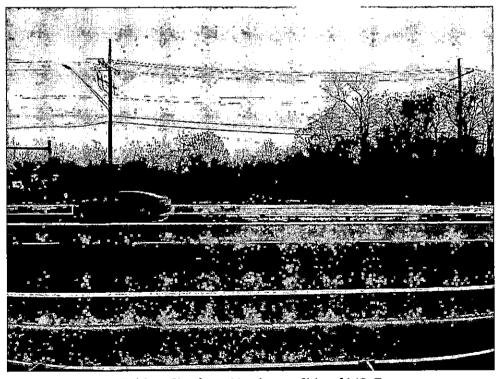






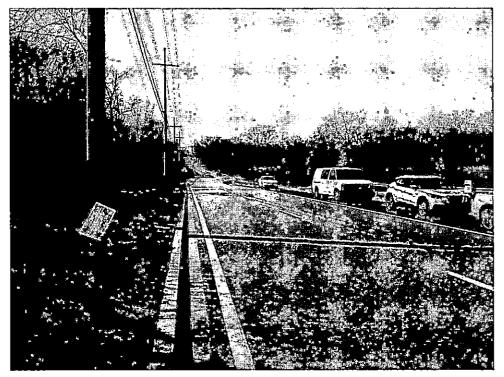


Subject Site from Diagonally Across Intersection

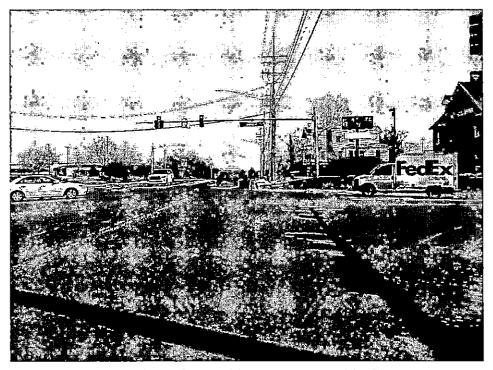


Subject Site from Northwest Side of MD-7



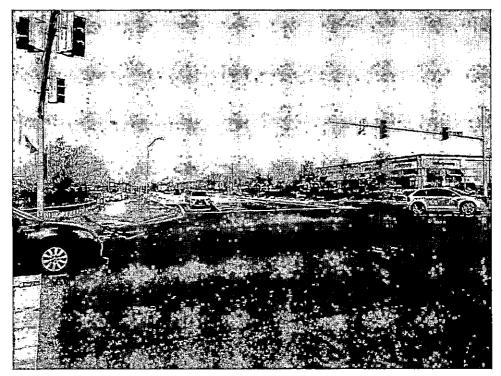


Southwest from Subject Frontage on MD-7

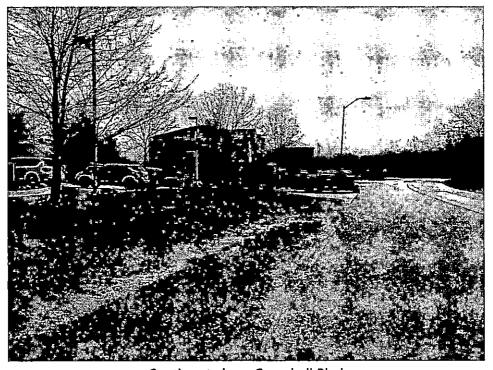


Northeast from Subject Frontage on MD-7





Northwest from Subject Frontage on Campbell Blvd



Southeast along Campbell Blvd

):



B. SITE ACCESS

The subject property has excellent frontage on the east side of Philadelphia Road (MD-7), which is a historic state highway paralleling I-95 and Pulaski Highway (US-40), through Baltimore, Harford and Cecil Counties. The highway has two through lanes plus a turning lane in each direction at the signalized intersection of Philadelphia Road and Campbell Boulevard. Campbell Boulevard is the southern gateway access roads into the Nottingham Square retail area and continues west to the White Marsh Mall. Philadelphia Road connects to White Marsh Boulevard (MD-43) which subsequently provides access to I-95 approximately one mile northwest of the site. Travelling one mile in the opposite direction on Philadelphia Road to Middle River Road allows for easy access to Pulaski Highway (US-40).

Philadelphia Road is proposed to be widened by twelve feet to accommodate site ingress. The fueling station will have a one-way entrance for vehicles traveling northbound on Philadelphia Road as well as an access point along Campbell Boulevard, which offers full signalized access to MD-7.

The Maryland Department of Transportation State Highway Administration published an estimated annual average daily traffic (AADT) count in 2018 on Philadelphia Road at this location as 20,860 AADT between Rossville Boulevard and Campbell Boulevard and 17,270 AADT between Campbell Boulevard to Joppa Road. AADT on Campbell Boulevard to Honeygo Boulevard was 23,310 in 2018.

C. SURROUNDING LAND USES

The subject is located on the corner of Philadelphia Road and Campbell Boulevard just east of I-95. The entirety of the subject property lies within the ML-IM zone. Northwest of the subject across Campbell Boulevard is a Howard Bank branch and a residential home that has been converted into a psychic reading establishment and the offices of a cab company. Both of these properties also lie within the ML IM zone. The subject also shares this zone with CarMax and FedEx and the White Marsh Professional Center which holds various medical office tenants. Continuing northbound on Philadelphia Road are a CarMax and Chevrolet car dealership which are both zoned BM. The land use transitions once again to MH IM zone upon reaching the former GM Allison Transmission factory.

The Pulaski Highway corridor east of the site is generally zoned business all the way to the Harford County line at the Little Gunpowder River. The historic presence of the former B&O railroad (now operated by CSX), parallel to Pulaski Highway framed the historic industrial land uses through this corridor.

The remainder of the wooded area south of the subject along Philadelphia Road is zoned BM (Business Major) before reaching Mohrs Lane. Past Mohrs Lane the land use transitions back to





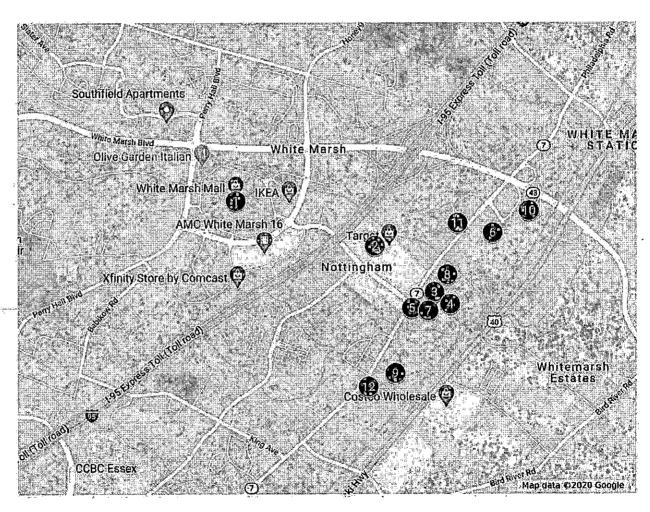
ML IM with medium density residential development on the western side of Philadelphia Road. West of the subject site is the Nottingham Square shopping center which features anchor tenants such as Lowe's Home Improvement, Target, Bed Bath & Beyond and Best Buy. A map illustrating major surrounding uses is provided below:



Land Use Map

Untitled layer

- White Marsh Mall
- Nottingham Square
- CarMax
- FedEx
- **Subject**
- GM Plant
- Professional Center
- Koons Chevrolet
- Self StorageOne
- COMEQ Inc
- O Sheehy Nissan
- Camz Corp





D. SUMMARY

In summary, the subject property is well situated at the gateway intersection of Campbell Boulevard and MD-7. It will be used primarily by traffic related to the industrial area and activity stemming from the surrounding area. Traffic volumes at this intersection and at points in close proximity are strong with data showing upwards of 20,000 AADT.

The proposed vehicle fueling station is planned as having six MPD's that will include diesel fueling positions. The station will also include an approximately 4,700 sq. ft. hyper convenience store. The fueling station will have one entrance for vehicles travelling northbound on Philadelphia Road as well as an access point along Campbell Boulevard, which has full signalized access to MD-7. The site location provides an opportunity for traffic coming out of the White Marsh Mall and Nottingham Square retail centers as well as traffic related to the surrounding industrial users to have convenient access to fresh foods and competitive fuel prices before continuing their journeys to and from home. Expansion of nearby neighborhoods in Perry Hall as well as the 324-unit Avenue Grand project currently under construction inside the retail area will only further contribute to the demand for fueling in this area.

The auto-oriented convenience services offered by the Wawa automobile filling station and convenience store are, therefore, supportive of existing development nearby and with the role which the highway location plays for the community as a major route.



III. NEED ANALYSIS

In this section, Valbridge reviews certain factors which are determinative of the subject fueling station's ability to primarily serve the surrounding industrial community. We estimate total demand for gasoline within the subject's trade area, estimate the subject fueling station's usage, then draw conclusions regarding accommodation of public need.

A. WHITE MARSH COMMERCIAL TRADE AREA

We have defined the subject fuel service station's trade area as the area centered on the White Marsh commercial area along both sides of Interstate 95 as well as industrial lands south of Philadelphia Road. For purposes of this analysis, we consider the trade area to include a significant portion of the total daytime population as well as commuter traffic and is entirely commercial and industrial in use types. Specifically the trade area is shaped and limited at its extremes by Perry Hall Boulevard to the West, the CSX rail line to the East, White Marsh Boulevard (MD-43) to the North and Middle River Road to the South where the land use begins to become more mixed with residential. The trade area is depicted on the map on the following page. We have defined the trade area based on two principal factors:

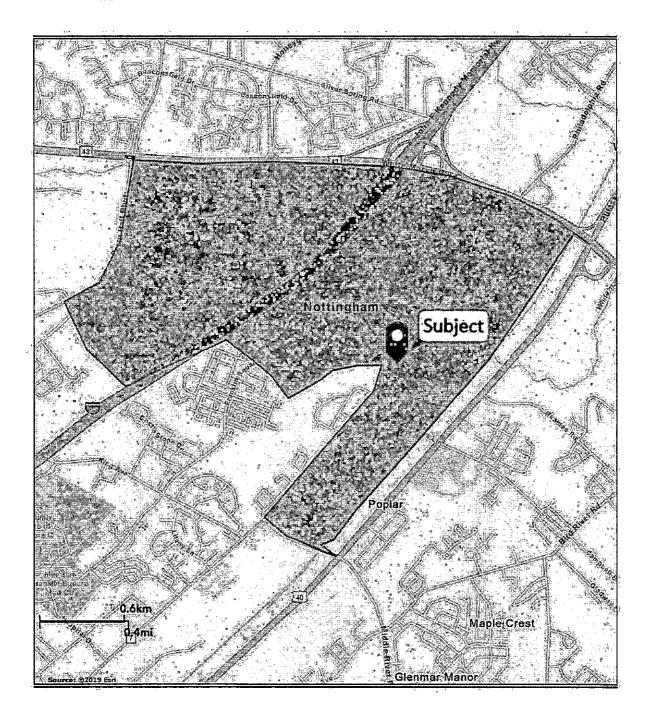
- Commercial Services The defined commercial trade area has the highest concentration of commercial services within White Marsh. The White Marsh Mall and additional commercial opportunities at Nottingham Square make the area a major regional shopping destination for households throughout this part of Baltimore County as well as for the large volume of passersby traveling on I-95 between Baltimore City and Harford County. By extension the trade area is also a major employment center. This interchange is also a major hospitality node with six major hotel flags present.
- Highway Network The trade area is shaped by the regional highway network in particular, with the White Marsh Mall being a major crossroads location due to the interchange of l-95 and White Marsh Boulevard (MD-43). The trade area also extends along Philadelphia Road (MD-7) serving various industrial and manufacturing uses. While Pulaski Highway (US-40) is on the periphery of the defined trade area, this highway exists as an alternative parallel route to I-95 with its own set of accessible options. The CSX Railroad physically divides this commercial area from the US-40 corridor.

The defined trade area reasonably contains the majority of commuters and consumers who are likely to travel through or do their shopping in White Marsh, as well as travelers visiting the Baltimore region. Realistically, residential households of surrounding areas may also avail themselves of the broad variety of offerings in this area. The data presented below is therefore conservative.





Trade Area Map





B. FUEL DEMAND

The primary customer base for this fuel service station and convenience store will be the industrial and related tenants, vendors and customers in the trade area:

White Marsh Trade Area Workforce Demand

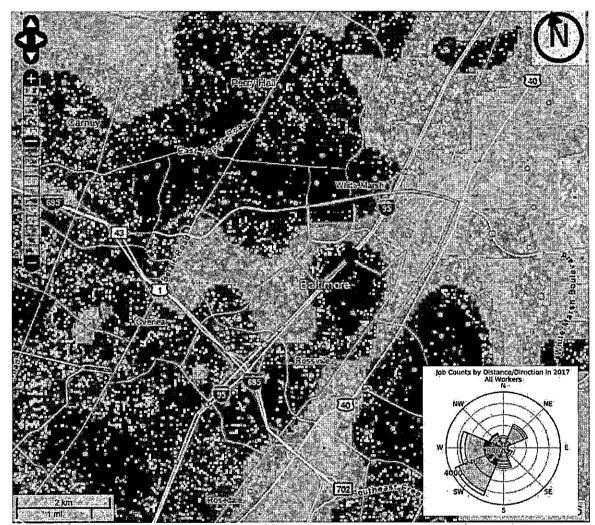
The daytime worker population in the White Marsh trade area is approximately 12,784 according to estimates by the US Census in 2017. It is important to recap that the trade area includes the regional shopping destinations of White Marsh Mall and Nottingham Square which are significant employers in this part of Baltimore County.

Within the trade area, using ACS data on transportation to work as shown below, Valbridge estimates the proportion of personal vehicles used by the total daytime worker population to commute to/from their place of employment at 85.0% or 10,866 vehicles, which is consistent with the traffic volume studies of the area. The Census data available does not distinguish if a carpooling employee drives all the time, rides with another driver or alternates their commuting method. Regardless, the vehicle is counted as participating in travel within the Trade Area. Each of those vehicles can benefit from fuel service convenient to the place of employment.

County of Residence	# of Workers	% of Daytime Pop.	% Drivers	Avg Commute Time
Baltimore County	5,031	39.4%	87.9%	29.5
Baltimore City	2,038	15.9%	69.1%	30.7
Harford County	1,809	14.2%	92.0%	32.1
Anne Arundel County	637	5.0%	87.6%	30.2
TOTAL/AVG	9,515	74.4%	84.6%	30.3

The map on the following page illustrates the concentration of workforce in the White Marsh area and distance commuters travel to work here, mostly from points to the Southwest. Valbridge estimates conservatively that each commuter vehicle will average at least one fill-up per week near the workplace. Assuming a commuter vehicle uses one fill up of 15 gallons per week, Valbridge estimates personal vehicle demand from workers within the trade area to be 162,990 gallons per week and over **8.48 million gallons** per year. It is important to note that this figure does not account for the significant volume of shoppers visiting the retail area, and travelers using the hospitality venues.





Source: US Census OnTheMap; compiled by Valbridge

Traffic Generation Model Demand

Traffic generation models show that a modern gas station with convenience stores could attract as much as 64% of morning peak hour pass-by traffic and 66% of evening peak hour pass-by traffic. Based on traffic analysis of the site, we estimate the total daily trips entering and exiting the White Marsh retail area to be approximately 99,000 vehicles per day or 49,500 unique vehicle trips (18,067,500 vehicle trips per year). Using a conservative estimate of a 5.0% capture rate of all

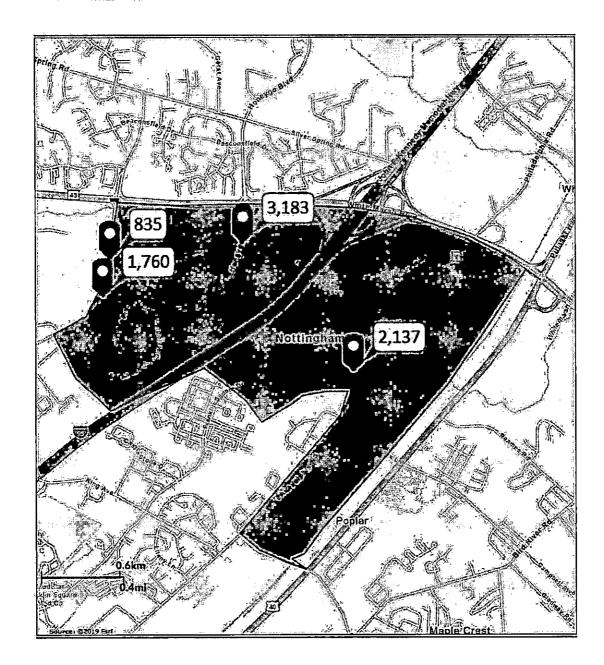
¹ Traffic Generation Manual, 10th Edition; Institute of Traffic Engineers, September 2017.



traffic by fuel stations in the trade area results in 903,375 vehicles per year or the equivalent of **13.55 million gallons** of annual fuel demand. We believe it is therefore reasonable to assume that there is a sufficient level of traffic volume to accommodate the existing gas stations and convenience stores and the proposed subject site.



Traffic Volume Map





C. RESIDENTIAL DEMAND

Normally we would quantify residential demand for fuel sales as a key indicator of need for additional fuel sales. However, this site is located in a regional commercial/industrial setting on a major mixed-use thoroughfare, where the customer demand will be predominantly daytime worker population and consumers from more distant suburban neighborhoods, seeking regional commercial services and businesses in the surrounding industrial area.

Additionally, the Baltimore County special exception requirements specify that the proposed fuel service primarily serve the industrial uses and related activities in the surrounding industrial area. Therefore, we did not quantify a residential demand for this station and have excluded residential land uses from the defined trade area.

D. SUMMARY

The size and shape of the White Marsh trade area has been determined based principally on demand for commercial services and the shape of the highway network serving this area of Baltimore County. Although we cannot use traffic count data to compute the individual impacts of workforce versus retail-related and residential household trips because the overall traffic data includes overlap among them, the volume shown in the trade area indicates that there is a sufficient level of demand to accommodate the existing gas stations and convenience stores as well as the proposed subject site. Although employee commuter trips will account for a majority of overall demand (62.5%), we believe the actual volume of gasoline purchased at stations in the trade area surpasses our conservative estimate since all of the identified gas stations can also serve as a pitstop for regional residents as well as interstate highway travelers and likely achieve a higher capture rate percentage among this traffic subgroup.



IV. COMPETITIVE SUPPLY

Valbridge has surveyed automobile filling stations located within the defined trade area. The primary trade area is defined as the area centered on the White Marsh commercial area along both sides of Interstate 95 as well as industrial lands south of Philadelphia Road and as illustrated in the previous chapter. In addition to our observations, we have consulted various sources including the Maryland Department of Assessments & Taxation (SDAT), CoStar Realty Group's commercial multiple list system and others to better describe the competitive supply in the White Marsh trade area. We examine the likely demand of Wawa patrons for the subject gasoline fueling facility in the context of competition within its retail trade area.

A. STATION TYPES

Valbridge consulted the National Association of Convenience Stores (NACS) for facts associated with the different types of motor fuel sales operations. NACS classifies these establishments as follows:²

- **Kiosk** less than 800 square feet with fast moving retail items like tobacco, beverages and snacks. Typical customers are transients and locals stopping in to buy gasoline.
- **Mini Convenience Store** typically 800-1,200 sq.ft.. Limited to prepared foods and serving people buying gasoline.
- **Limited Selection Convenience Store** approximately 1,500 to 2,200 sq.ft. which is the typical conversion of a former 2-bay service station.
- **Traditional Convenience Store** Typically 2,400 to 2,500 sq.ft. with an expanded product mix, often including more grocery items.
- **Expanded Convenience Store** About 2,800-3,600 sq.ft. This is a popular alternative to the large grocery store and often attract more families, women and senior citizens.
- Hyper Convenience Store -- Very large stores at 4,000-5,000 sq.ft., such as the subject. These
 stores employ more staff, offer fresh food and sit-down eating spaces. These stores attract
 more families, senior citizens and in some locations act as a mini-truck stop with expanded
 services.

We find it important to study the classification of the supply in the trade area and balance that against the volume of traffic entering and exiting the retail area.

NACS reports that convenience store operations sell approximately 80% of all consumer motor fuels in the country. The remaining 20% is sold at traditional service stations and supermarkets. They also report that consumers will drive up to 10 minutes out of their way to save pennies on

² NACS State of the Industry of 2016 Data Fact Book.



gas purchases, which is why the convenience store venues are often able to sell fuel with lower margins, based on sales of other goods with higher margins.

B. EXISTING FUEL OPPORTUNITIES

We find that there are four other existing fuel stations located within the proposed subject's trade area:

- <u>BP</u> 5250 Campbell Boulevard This hyper convenience store is the one station that is located within the Nottingham Square shopping center across from the White Marsh Mall and the Avenue. The station has 8 MPD's with one MPD having two diesel fueling positions. The convenience store is approximately 4,224 sq. ft. in size and features a Subway. The station also has a car wash.
- Exxon 8485 Honeygo Boulevard This limited selection convenience store is one of two 24/7 gas stations at the White Marsh Mall, right off of the I-95 interchange. There are 6 MPD's with a Diesel dispenser among the MPD's and one other at a side curb (3 fueling positions total). No car wash and a small convenience store. This site is 1.69 acres with 1,845 sq.ft. of improvements.
- <u>7-Eleven</u> 8235 Perry Hall Boulevard This expanded convenience store is the other White Marsh Mall station, on the inner ring road of the mall, sharing access with a Burger King. This station is open 24/7 and has 6 MPD's and no diesel or car wash, but does offer a 3,000 sq. ft. convenience store on 1.16 acres.
- Royal Farms This hyper convenience store station was built in 2018 and is the most modern offering in the trade area. Situated on 2.44 acres off of Philadelphia Road, this station has 8 MPD's with diesel offered at each pump and a nearly 5,000 sq. ft. hyper convenience store. This Royal Farms is also open 24/7.

WAWA WHITE MARSH EXISTING TRADE AREA COMPETITION

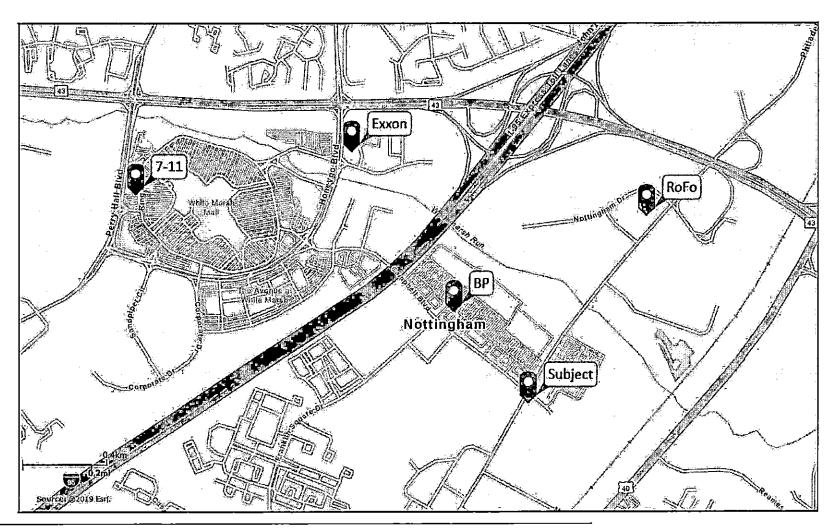
Name	Address	MPD's	Diesel Positions	C-Store	Car Wash	24 hr	Acres	Bldg SF	Yr Built
ВР	5250 Campbell Blvd	8	2	Hyper	Υ		1.37	4,224	2003
Exxon	8485 Honeygo Blvd	6	3	Ltd		Υ	1.69	1,845	1983
7-Eleven	8235 Perry Hall Blvd	6		Expanded		Y	1.16	2,940	2002
Royal Farms	5361 Nottingham Rd	8	16	Hyper		Υ	2.44	4,659	2018

Source: Valbridge Property Advisors, March 2020

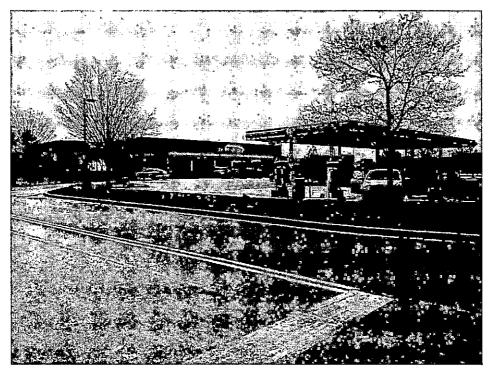




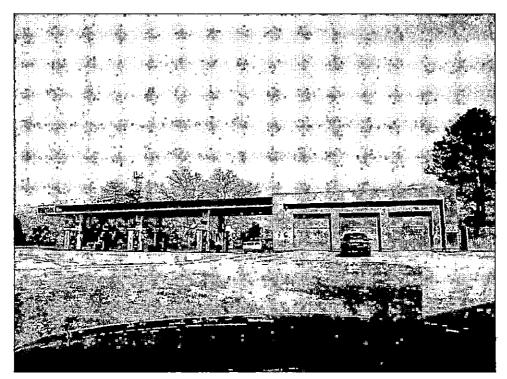
Existing Trade Area Supply





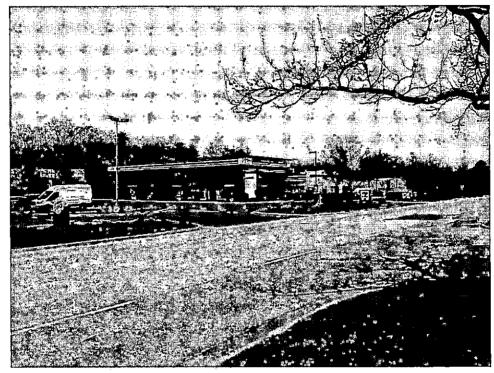


BP at 5250 Campbell Blvd

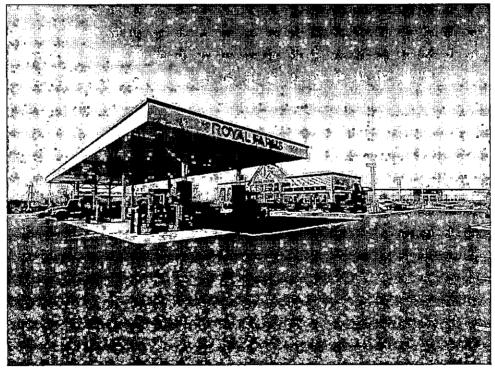


Exxon at 8485 Honeygo Blvd



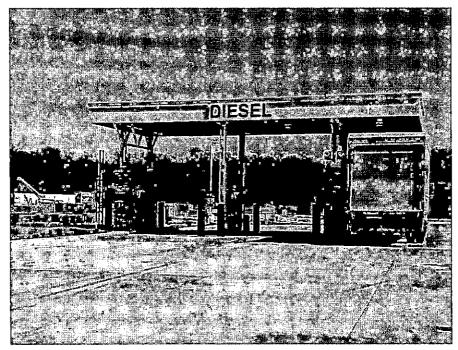


7-Eleven at 8235 Perry Hall Blvď



Royal Farms at 5361 Nottingham Rd





Royal Farms at 5361 Nottingham Rd – Truck Diesel in rear

Evaluation

Despite the stations being in close proximity to one another, each station had some clear advantages over the other. All of the stations had modern formats and did not feature service bays or tiny curbside kiosks selling only cigarettes and soda. We believe that the most recently constructed Royal Farms as well as the BP are also likely benefitting from their fresh food offerings on top of what is already made available at a traditional convenience store. Where the 7-11 and Exxon excel is their location on the White Marsh Mall side of the retail area where traffic is much higher, however the 7-11 is placed at a slight disadvantage given its position on the inner ring road on the opposite side of the mall.

As illustrated below from GasBuddy.com and observed at the time of our survey, the Exxon station had gas prices which were at a minimum fifty cents higher per gallon than other competitors in the trade area. Although the station benefits from its positioning at the most traveled intersection into the mall and can thus command higher prices, it is unusual for a station of this size to have such high margins on gasoline, typically leading to a reduction in food and beverage as well as gasoline sales volume. It should be noted that the GasBuddy data is provided on an "as is" and "as available" basis and GasBuddy does not warrant that the gas data will be error-free.



≫ GasB	Buddy	Find Gas 🗸	Pay with GasBuddy 🌣	Gas Tools 🗸
2.13		s 本市本本 (22 reviews) arm Dr & Nottingridge Rd	White Marsh	7h ago & dfgraven
at, 9 %ii B	".\$5 EREB®gas*	- Save up to 25.0/gallonv	vith the free GasBuddy	card: LEARNMORE
2.19	•	S 京京京京 (40 reviews) Hwy & Ebenezer Rd	White Marsh	9h-ago ▲ naeemakhtar
2.19		r 女 ☆ (40 reviews) Blvd & Franklin Square Dr	White Marsh	10h ago & micmar64 s
2.23		효효효소 (29 reviews) I Blvd & Honeygo Blvd	White Marsh	20h ago & lizborden 🚓
2.77		र फ्रे फ्रें (73 reviews) Blvd & Mercantile Rd	White Marsh	10h ago & micmar64 ≅

Note: The Royal Farms at 10740 Pulaski Hwy is not included within our defined trade area. Data as of 3/13/2020, 4:00 PM

C. CURRENT PERFORMANCE

The variation between the highest and lowest suppliers is not explicitly available due to proprietary secrecy in reporting. Therefore, we observe conditions that are important to the marketing of goods and services, such as clean, well-lit facilities, quality and fresh food products, visibility and access from the highway and neighborhood, and a canopy. While the other nearby stores within the trade area of the subject site vary in regard to these factors, they are well positioned to capture traffic associated with the retail and industrial area regardless of the services they offer. Therefore, we believe each station to be currently performing at a level that would be expected for an efficient and modern fueling station.

Petroleum retail industry sources including the Maryland Motor Fuel Tax & Motor Carrier Tax (IFTA) Annual Report and "National Petroleum News" and our experience indicate that the average gasoline fuel service station pumps about 93,943 gallons of gasoline per month or 1.13 million gallons per year. However, data from NACS indicates that, on a national average, <u>efficient</u> dealers sold approximately 2.1 million gallons per year, which we find more realistic, based on our experience with modern convenience store data.³

³ NACS State of the Industry Annual Report of 2017 Data: Convenience and Fuel Retailing Totals, Trends and Analysis of 2017 Industry Data; National Association of Convenience Stores; June 2018.



Thus, we compute the competitive supply on these four stations as:

Four Stations x 2.1 mgal = 8.4 million gallons

D. SUMMARY

We find that there is a notable lack of supply within the defined White Marsh trade area for the available consumer demand for gasoline and diesel.

- White Marsh Trade Area Supply The four other gas stations identified within the trade area represent the most direct competition for the proposed subject. Each of the stations had advantageous elements, however we believe each to be achieving a relatively equal volume of fuel sales. Using our prior knowledge of the petroleum retail industry we compute the current competitive supply by these four stations at 8.4 million gallons of fuel per year.
- <u>Unmet Demand</u> We quantify unmet trade area demand (need) in the range of approximately 5.15 million gallons per year, based on a comparison of trade area demand by overall traffic volumes modeled in the retail area with the estimated gallonage pumped for the area by the existing four fueling stations. We believe this is a conservative estimation, based on our exclusion of residential demand for fuel from nearby households.



V. CONCLUSION

Valbridge finds that the proposed Wawa fuel service and convenience store serves the White Marsh Trade Area with strong employment and consumer demand. We have calculated above that close to two-thirds (62.5%) of total demand typically available within the trade area is likely to be drawn from the workforce population within the industrial and related activity area.

In order for the proposed Wawa convenience store to "serve primarily the industrial uses and related activities in the surrounding industrial area," it must capture at least 51% of its fuel sales from within its surrounding industrial area. We judge that the subject will draw its sales from the industrial area and from other portions of its trade area in proportion to the demand generated by each.

It is evident that the concentration of vehicles that need fuel and convenience services in this trade area are located within the White Marsh retail area. The proposed site is located on one of the entrance roads into the area and offers this pool of customers an option for fuel that limits their exposure to the congestion and traffic of Honeygo Boulevard.

Additionally, the National Association of Convenience Stores (NACS) has surveyed that 41% of fuel customers prefer to go inside the store for additional purchases. "While survey results show that gas price is still the primary determinant in selecting a station, an increasing percentage of consumers say that the quality of items inside the store dictates where they buy fuel. In fact, one in seven drivers (16%) say that the in-store offer is driving their fueling decision, a 5-point increase since 2015." We therefore believe that the proposed Wawa station will be an attractive option for not only the surrounding industrial area but also the heavy volumes of traffic stemming from other activities in the associated area.

⁴ 2016 NACS Retail Fuels Report; National Association of Convenience Stores



APPENDIX A Consultant Qualifications

Valbridge Property Advisors

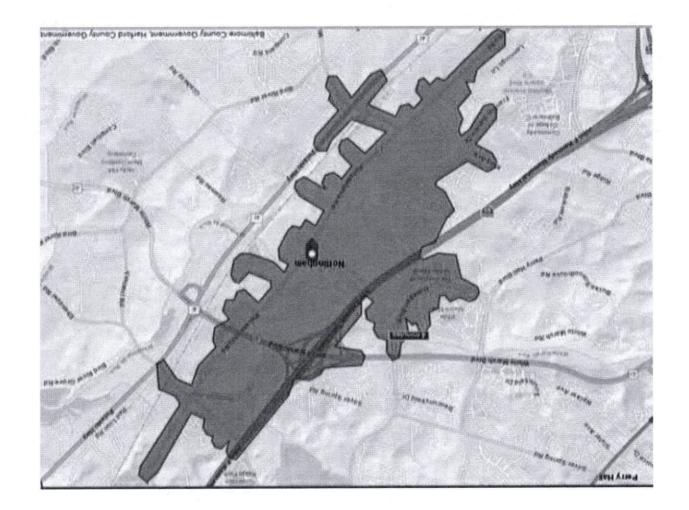
Valbridge is the largest national commercial real estate valuation and advisory services firm in North America with more than 675 professionals in 70 offices. We are a multifaceted, independent real estate consulting and appraisal firm covering all property types, including special-purpose and services from site acquisition to market feasibility to valuation. Our Marriottsville, Maryland office employs 13 professionals, of which three hold the MAI designation and other advanced degrees. Professional licenses are held by various members of the firm in Maryland, District of Columbia, Pennsylvania, Delaware and Virginia. Academic degrees and professional designations are combined with hands-on real estate investment, development and ownership expertise-offering our clients many decades of accumulated counseling and valuation experience.

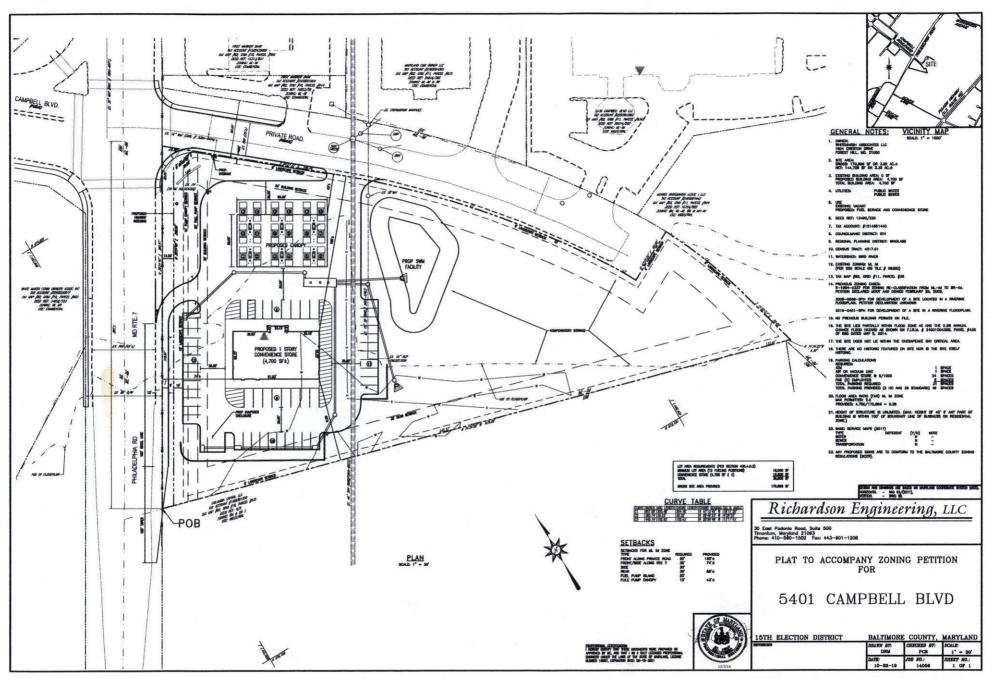
We provide clients with objective advice and practical assistance at every stage of decision-making on the development, use or reuse of all types of real estate. Our clients include corporations, institutions, real estate owners, builders, developers, and government entities. Our professional staff has an exceptional capability to use a vast array of information and resources to assist clients in making sound, timely decisions through the real estate planning, financing and development process.

The principal-in-charge of this assignment has been Edward Steere, AICP, MSRE, Managing Director. He has 30 years of planning, real estate development, and consulting experience. He has successfully completed market studies and economic and fiscal analyses for many development opportunities throughout the Mid-Atlantic in Maryland, Pennsylvania, Delaware and Virginia on behalf of public and private clients.

Edward M. Steere, AICP

Edward M. Steere, AICP is the senior consultant who completed this assignment. Mr. Steere has a broad professional background in planning and real estate acquired over 30 years in the industry including: site design, entitlement, research, sales and marketing, development, financing and appraisal. His advisory assignments have encompassed: market and financial feasibility analyses of major real estate projects; land acquisition and marketing for residential development; tax-motivated and conventional financing for single family and multifamily residential projects; and advising public, non-profit and private clients concerning real estate decision-making. Mr. Steere is qualified in analyzing the multitude of issues relating to residential and commercial real estate development, including: demographic and economic trends, financial analysis and property valuation, economic and fiscal impacts. Mr. Steere has conducted real estate and market feasibility analyses throughout the Washington-Baltimore region. He has testified before administrative bodies concerning the public need for various kinds of commercial facilities and other planning issues in many of the jurisdictions in the Washington-Baltimore region.





Exhibit

Ordel V Str. V

CASE NO. 2019-_

7/10

CHECKLIST

10 Am

Comment Received		Support/Oppose/ Conditions/ Comments/ No Comment
	DEVELOPMENT PLANS REVIEW (if not received, date e-mail sent)	
2-13	DEPS (if not received, date e-mail sent)	
	FIRE DEPARTMENT	
	PLANNING (if not received, date e-mail sent)	
12-11	STATE HIGHWAY ADMINISTRATION	strance Perhit
	TRAFFIC ENGINEERING	
	COMMUNITY ASSOCIATION	, , ,
	ADJACENT PROPERTY OWNERS	
ZONING VIOLA	TION (Case No	
PRIOR ZONING		
NEWSPAPER AD	OVERTISEMENT Date:	
SIGN POSTING ((1st) Date: 10/11/2020 b	Sato Black
SIGN POSTING (2 nd) Date: 6-29-50 by	у
	SEL APPEARANCE Yes No No SEL COMMENT LETTER Yes No	
Comments, if any:		

Debra Wiley

From:

Jenifer G. Nugent

Sent:

Wednesday, July 1, 2020 8:13 AM

To:

Kathy Are; Debra Wiley; Paul Mayhew

Cc:

Adam Rosenblatt (Arosenblatt@venable.com)

Subject:

Amended ZAC comments for a typo

Attachments:

19-534.docx

Importance:

High

RECEIVED

JUL - 1 2020

OFFICE OF ADMINISTRATIVE HEARINGS

Kathy

Could you please resend this ZAC comment to all

There was a typo for a reference to MP 2010 and should have been MP 2020

I already corrected it and is in this amended version

Jenifer German Nugent

Division Chief, Development Review Division Baltimore County Department of Planning 105 West Chesapeake Avenue, Suite 101 Towson, MD 21204 (410) 887-3480 (410) 887-7499 direct



Donna Mignon

From:

Kristen L Lewis

Sent:

Monday, June 29, 2020 2:08 PM

To:

Administrative Hearings

Subject:

RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

Hi Donna,

Yes all have been sent an invite as panelists.

Kristen Lewis PAI – Zoning Review 410-887-3391

From: Administrative Hearings

Sent: Monday, June 29, 2020 1:52 PM

To: Kristen L Lewis <klewis@baltimorecountymd.gov>

Subject: FW: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

Hi Kristen

I just want to make sure you registered the below witnesses. Thank you so much.

Donna

From: Rosenblatt, Adam M. < AMRosenblatt@Venable.com>

Sent: Monday, June 29, 2020 12:44 PM

To: Administrative Hearings **Subject:** RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

CAUTION: This message from AMRosenblatt@venable.com originated from a non Baltimore County Government or non BCPL email system. Hover over any links before clicking and use caution opening attachments.

Yes, we have 4 potential witnesses registered (Rick Richardson, Christopher Hoffmann, Mickey Cornelius, and Ed Steere).

Adam M. Rosenblatt, Esq. | Venable LLP t 410.494.6271 | f 410.821.0147 | m 410.294.9430 210 W. Pennsylvania Avenue, Suite 500, Towson, MD 21204

AMRosenblatt@Venable.com | www.Venable.com

From: Administrative Hearings <a drawings deliministrative Hearings deliministrative Hearing deliminist

Sent: Monday, June 29, 2020 12:43 PM

To: Rosenblatt, Adam M. < AMRosenblatt@Venable.com>

Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

Caution: External Email



Thank you Adam.

Did you give Kristen any witnesses names and emails, that need to speak at your hearing?

Donna Mignon, Legal Assistant
Baltimore County Office of Administrative Hearings
105 West Chesapeake Avenue, Suite 103
Towson, Maryland 21204
410-887-3868

From: Rosenblatt, Adam M. <AMRosenblatt@Venable.com>

Sent: Monday, June 29, 2020 12:38 PM

To: Donna Mignon < dmignon@baltimorecountymd.gov >

Cc: Administrative Hearings **Subject:** RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

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- Attar case
- 3. Rick Richardson Resume
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- 5. Site photos
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- 7. Traffic Impact Analysis
- 8. SHA Approval Letter
- 9. Ed Steere Resume
- 10. Ed Steere Report
 - a. Executive Summary
 - b. Full Report
- 11. Wawa Exhibit

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From: Donna Mignon < dmignon@baltimorecountymd.gov>

Sent: Monday, June 29, 2020 11:17 AM

To: Rosenblatt, Adam M. < AMRosenblatt@Venable.com>

Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

Caution: External Email

Hi Adam,

No problem. Thank you.

Donna

From: Rosenblatt, Adam M. <AMRosenblatt@Venable.com>

Sent: Monday, June 29, 2020 11:16 AM

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Just waiting on one more exhibit and I will send them all to you. Should be early afternoon. Thank you again.

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AMRosenblatt@Venable.com | www.Venable.com

From: Donna Mignon < dmignon@baltimorecountymd.gov>

Sent: Friday, June 26, 2020 11:44 AM

To: Rosenblatt, Adam M. < AMRosenblatt@Venable.com >

Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

Caution: External Email

Hi Adam,

Thank you.

Have a great weekend.

Donna

From: Rosenblatt, Adam M. < AMRosenblatt@Venable.com >

Sent: Friday, June 26, 2020 11:40 AM

To: Donna Mignon < dmignon@baltimorecountymd.gov>

Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

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Hi Donna,

As we just discussed I will email the exhibits and the second sign certification to you on Monday for this Wednesday hearing.

Thank you and have a nice weekend.

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AMRosenblatt@Venable.com | www.Venable.com

From: Donna Mignon < dmignon@baltimorecountýmd.gov>

Sent: Tuesday, June 23, 2020 11:49 AM

To: Rosenblatt, Adam M. <AMRosenblatt@Venable.com>

Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

Caution: External Email

Thank you so much.

From: Rosenblatt, Adam M. < AMRosenblatt@Venable.com>

Sent: Tuesday, June 23, 2020 11:47 AM

To: Donna Mignon <dmignon@baltimorecountymd.gov>

Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

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Absolutely. My plan is to email everything on Friday.

Adam M. Rosenblatt, Esq. | Venable LLP t 410.494.6271 | f 410.821.0147 | m 410.294.9430 210 W. Pennsylvania Avenue, Suite 500, Towson, MD 21204

AMRosenblatt@Venable.com | www.Venable.com

From: Donna Mignon dmignon@baltimorecountymd.gov>

Sent: Tuesday, June 23, 2020 11:31 AM

To: Rosenblatt, Adam M. < AMRosenblatt@Venable.com >

Subject: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

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Good Morning Adam,

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Thank you so much. Have a great day.

Donna Mignon, Legal Assistant Baltimore County Office of Administrative Hearings 105 West Chesapeake Avenue, Suite 103 Towson, Maryland 21204 410-887-3868

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Donna Mignon

From:

Administrative Hearings

Sent:

Monday, June 29, 2020 12:50 PM

To:

Rosenblatt, Adam M.

Subject:

RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

Thank you.

Donna

RECEIVED

JUN 2 9 2020

OFFICE OF ADMINISTRATIVE HEARINGS

From: Rosenblatt, Adam M. <AMRosenblatt@Venable.com>

Sent: Monday, June 29, 2020 12:44 PM

To: Administrative Hearings <administrativehearings@baltimorecountymd.gov> **Subject:** RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

CAUTION: This message from AMRosenblatt@venable.com originated from a non Baltimore County Government or non BCPL email system. Hover over any links before clicking and use caution opening attachments.

Yes, we have 4 potential witnesses registered (Rick Richardson, Christopher Hoffmann, Mickey Cornelius, and Ed Steere).

Adam M. Rosenblatt, Esq. | Venable LLP t 410.494.6271 | f 410.821.0147 | m 410.294.9430 210 W. Pennsylvania Avenue, Suite 500, Towson, MD 21204

AMRosenblatt@Venable.com | www.Venable.com

From: Administrative Hearings <administrativehearings@baltimorecountymd.gov>

Sent: Monday, June 29, 2020 12:43 PM

To: Rosenblatt, Adam M. < AMRosenblatt@Venable.com>

Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

Caution: External Email

Thank you Adam.

Did you give Kristen any witnesses names and emails, that need to speak at your hearing?

Donna Mignon, Legal Assistant
Baltimore County Office of Administrative Hearings
105 West Chesapeake Avenue, Suite 103
Towson, Maryland 21204
410-887-3868

From: Rosenblatt, Adam M. < AMRosenblatt@Venable.com >

Sent: Monday, June 29, 2020 12:38 PM

To: Donna Mignon < dmignon@baltimorecountymd.gov>

Cc: Administrative Hearings administrativehearings@baltimorecountymd.gov>
Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

CAUTION: This message from AMRosenblatt@venable.com originated from a non Baltimore County Government or non BCPL email system. Hover over any links before clicking and use caution opening attachments.

Donna, here are the Exhibits for this hearing:

- 1. Site Plan
- 2. Attar case
- 3. Rick Richardson Resume
- 4. Aerial photograph
- 5. Site photos
- 6. Mickey Cornelius Resume
- 7. Traffic Impact Analysis
- 8. SHA Approval Letter
- 9. Ed Steere Resume
- 10. Ed Steere Report
 - a. Executive Summary
 - b. Full Report
- 11. Wawa Exhibit

Adam M. Rosenbiatt, Esq. | Venable LLP

t 410.494.6271] f 410.821.0147 [m 410.294.9430

210 W. Pennsylvania Avenue, Suite 500, Towson, MD 21204

AMRosenblatt@Venable.com | www.Venable.com

From: Donna Mignon < dmignon@baltimorecountymd.gov >

Sent: Monday, June 29, 2020 11:17 AM

To: Rosenblatt, Adam M. < AMRosenblatt@Venable.com >

Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

Caution: External Email

Hi Adam,

No problem. Thank you.

Donna

From: Rosenblatt, Adam M. < AMRosenblatt@Venable.com >

Sent: Monday, June 29, 2020 11:16 AM

To: Donna Mignon < dmignon@baltimorecountymd.gov>

Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

CAUTION: This message from AMRosenblatt@venable.com originated from a non Baltimore County Government or non BCPL email system. Hover over any links before clicking and use caution opening attachments:

Just waiting on one more exhibit and I will send them all to you. Should be early afternoon. Thank you again.

Adam M. Rosenblatt, Esq. | Venable LLP

t 410.494.6271 [f 410.821.0147 | m 410.294.9430

210 W. Pennsylvania Avenue, Suite 500, Towson, MD 21204

AMRosenblatt@Venable.com | www.Venable.com

From: Donna Mignon < dmignon@baltimorecountymd.gov >

Sent: Friday, June 26, 2020 11:44 AM

To: Rosenblatt, Adam M. < <u>AMRosenblatt@Venable.com</u>>

Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

Caution: External Email

Hi Adam,

Thank you.

Have a great weekend.

Donna

From: Rosenblatt, Adam M. < AMRosenblatt@Venable.com >

Sent: Friday, June 26, 2020 11:40 AM

To: Donna Mignon < dmignon@baltimorecountymd.gov>

Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

CAUTION: This message from <u>AMRôsenblatt@venable.com</u> originated from a non Baltimore County Government or non BCPL email system. Hover over any links before clicking and use caution opening attachments.

Hi Donna,

As we just discussed I will email the exhibits and the second sign certification to you on Monday for this Wednesday hearing.

Thank you and have a nice weekend.

Adam M. Rosenblatt, Esq. | Venable LLP t 410.494.6271 | f 410.821.0147 | m 410.294.9430 210 W. Pennsylvania Avenue, Suite 500, Towson, MD 21204

AMRosenblatt@Venable.com | www.Venable.com

From: Donna Mignon < dmignon@baltimorecountymd.gov>

Sent: Tuesday, June 23, 2020 11:49 AM

To: Rosenblatt, Adam M. < AMRosenblatt@Venable.com>

Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

Caution: External Email

Thank you so much.

From: Rosenblatt, Adam M. < AMRosenblatt@Venable.com>

Sent: Tuesday, June 23, 2020 11:47 AM

To: Donna Mignon <dmignon@balthiriorecountymd.gov> Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m. CAUTION: This message from AMRosenblatt@venable.com originated from a non Baltimore County Government or non BCPL email system. Hover over any links before clicking and use caution opening attachments. Absolutely. My plan is to email everything on Friday. Adam M. Rosenblatt, Esq. | Venable LLP t 410.494.6271 | f 410.821.0147 | m 410.294.9430 210 W. Pennsylvania Avenue, Suite 500, Towson, MD 21204 AMRosenblatt@Venable.com | www.Venable.com From: Donna Mignon < dmignon@baltimorecountymd.gov > Sent: Tuesday, June 23, 2020 11:31 AM To: Rosenblatt, Adam M. <AMRosenblatt@Venable.com> Subject: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m. Caution: External Email Good Morning Adam, Just a friendly reminder, that we need any exhibits you wish to present at the hearing emailed to us at : administrativehearings@baltimorecountymd.gov Thank you so much. Have a great day. Donna Mignon, Legal Assistant **Baltimore County Office of Administrative Hearings** 105 West Chesapeake Avenue, Suite 103 Towson, Maryland 21204 410-887-3868 **CONNECT WITH BALTIMORE COUNTY**

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Donna Mignon

From:

Donna Mignon

Sent:

Friday, June 26, 2020 11:44 AM

To:

'Rosenblatt, Adam M.'

Subject:

RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

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JUN 2 6 2020

OFFICE OF ADMINISTRATIVE HEARING

Hi Adam,

Thank you.

Have a great weekend.

Donna

From: Rosenblatt, Adam M. <AMRosenblatt@Venable.com>

Sent: Friday, June 26, 2020 11:40 AM

To: Donna Mignon < dmignon@baltimorecountymd.gov>

Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

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Hi Donna,

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Adam M. Rosenblatt, Esq. | Venable LLP t 410.494.6271 | f 410.821.0147 | m 410.294.9430 210 W. Pennsylvania Avenue, Suite 500, Towson, MD 21204

AMRosenblatt@Venable.com | www.Venable.com

From: Donna Mignon dmignon@baltimorecountymd.gov

Sent: Tuesday, June 23, 2020 11:49 AM

To: Rosenblatt, Adam M. < AMRosenblatt@Venable.com>

Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

Caution: External Email

Thank you so much.

From: Rosenblatt, Adam M. < AMRosenblatt@Venable.com>

Sent: Tuesday, June 23, 2020 11:47 AM

To: Donna Mignon < dmignon@baltimorecountymd.gov>

Subject: RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

STREET, ST. 18 M. S. W. C. S. W. W. C. S. W. W. C. S. W.

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Absolutely. My plan is to email everything on Friday.

Adam M. Rosenblatt, Esq. | Venable LLP t 410.494.6271 | f 410.821.0147 | m 410.294.9430 210 W. Pennsylvania Avenue, Suite 500, Towson, MD 21204

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To: Rosenblatt, Adam M. < AMRosenblatt@Venable.com >

Subject: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

Caution: External Email

Good Morning Adam,

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Thank you so much. Have a great day.

Donna Mignon, Legal Assistant Baltimore County Office of Administrative Hearings 105 West Chesapeake Avenue, Suite 103 Towson, Maryland 21204 410-887-3868

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Donna Mignon

From:

Donna Mignon

Sent:

Tuesday, June 23, 2020 11:49 AM

To:

'Rosenblatt, Adam M.'

Subject:

RE: 5401 Campbell Boulevard Hearing Date: 7/1/2020 at 10:00 a.m.

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Have a great day.

Donna Mignon, Legal Assistant
Baltimore County Office of Administrative Hearings
105 West Chesapeake Avenue, Suite 103
Towson, Maryland 21204
410-887-3868

OFFICE OF ADMINISTRATIVES OF

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OFFICE OF LEARINGS

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10 Am



JOHN A. OLSZEWSKI, JR. County Executive

MICHAEL D. MALLINOFF, Director Department of Permits, Approvals & Inspections

June 22, 2020

Adam M. Rosenblatt, Venable 210 W. Pennsylvania Ave Suite 500 Towson MD 21204

RE: Case Number: 2019-0534-X, 5401 Campbell Boulevard

To Whom It May Concern:

The above referenced petition was accepted for processing **ONLY** by the Bureau of Zoning Review, Department of Permits, Approvals, and Inspection (PAI) on December 05, 2019. This letter is not an approval, but only a **NOTIFICATION**.

The Zoning Advisory Committee (ZAC), which consists of representatives from several approval agencies, has reviewed the plans that were submitted with your petition. All comments submitted thus far from the members of the ZAC are attached. These comments are not intended to indicate the appropriateness of the zoning action requested, but to ensure that all parties (zoning commissioner, attorney, petitioner, etc.) are made aware of plans or problems with regard to the proposed improvements that may have a bearing on this case. All comments will be placed in the permanent case file.

If you need further information or have any questions, please do not hesitate to contact the commenting agency.

e Carl

W. Carl Richards, Jr. Supervisor, Zoning Review

WCR/kl

Enclosures

c: People's Counsel

BALTIMORE COUNTY, MARYLAND

Inter-Office Correspondence



TO:

Hon. Paul M. Mayhew; Managing Administrative Law Judge

Office of Administrative Hearings

FROM:

Jeff Livingston, Department of Environmental Protection and

Sustainability (EPS) - Development Coordination

DATE:

December 13, 2019

SUBJECT:

DEPS Comment for Zoning Item

#2019-0534-X

Address

5401 Campbell Blvd.

(Whitemarsh Associates, LLC

Property)

Zoning Advisory Committee Meeting of December 16, 2019.

X The Department of Environmental Protection and Sustainability offers the following comments on the above-referenced zoning item:

X Development of the property must comply with the Regulations for the Protection of Water Quality, Streams, Wetlands and Floodplains (Sections 33-3-101 through 33-3-120 of the Baltimore County Code).

Additional Comments:

- 1. Development of this site would require a variance to the Law for the Protection of Water Quality Streams, Wetlands and Floodplains. Any such buffer variance request must clearly meet the requirements of Section 33-3-106 and the legislative intent outlined in Section 33-3-103. Given the amount of impact to forested non-tidal wetlands and Forest Buffer Easement proposed on the plan accompanying the zoning petition, the development proposal does not appear to meet the variance criteria.
- 2. This project will require presentation to the Development Review Committee (DRC) for determination of plan process prior to issuance of any permits for grading or construction.

Reviewers: Glenn Shaffer & Steve Ford

C:\Users\jnjohnson\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\H1PAGF4X\ZAC 19-0534-X 5401 Campbell Blvd.doc

Debr Wiley

From:

Debra Wiley

Sent:

Tuesday, March 17, 2020 9:44 AM

'arosenblatt@venable.com'

To: Subject: Hearings Postponed Before the OAH

Good Morning Mr. Rose blatt

Please be advised tha a voice mail was left for you this morning regarding hearings before our office.

yus, we will not be conducting public hearings during the month of March. Therefore, Case No. Due to the coronaled for Friday, March 27, 2020 @ 1:30 PM has been postponed; this information is reflected on the 2019-0534-X se. For your reference, please see the following link:

County's We paltimore countymd.gov/Agencies/adminhearings/index.html

A kindly ask if you could notify all interested parties of this postponement, and this will be rescheduled as soon We able. Please feel free to contact our office if you have any questions and/or concerns and thanks for your arnce during this time.

Debra Wiley, Legal Administrative Secretary **Baltimore County Office of Administrative Hearings** 105 West Chesapeake Avenue, Suite 103 Towson, Maryland 21204 410-887-3868

3-17 9:39 Am V.m. left town Foreset





PETITION FOR ZONING HEARING(S)

To be filed with the Department of Permits, Approvals and Inspections

To the Office of Administrative Law of Baltimore County for the property located at:

Address 5 01 Campbell Boulevard which is presently zoned ML IM

Deed References: 13490/220 10 Digit Tax Account # 1 5 1 4 6 5 1 4 4 0

Property Owner(s) Printed Name(s) Whitemarsh Associates, LLC

10 Digit Tax Account # 1 5 1 4 6 5 1 4 4 0

l a Special He e or not the Zoning C	aring under Section 5		a partificación, morozy	petition for:	
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2. X a Special Exc SEE ATTA	species in the state of the second of the se	ning Regulations o	of Baltimore County to u	use the herein desc	cribed property for
3 a Variance from	om Section(s)			/	
Property is to be posted ar	al space, you may a nd advertised as prescribed enses of above petition(s), a re County adopted pursuan on: I / we do so solemnly do	dd an attachmen by the zoning regulation advertising, posting, etc.	ions. c. and further agree to and a	re to be bounded by the	a zoning regulations
Contract Purchaser	/Lessee:		Legal Owners (Peti	tioners):	
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4.19			Adam M. Rosenblatt	7.00	
Attorney for Petition					
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Attorney for Petition Adam M. Rosenblatt Name Type or Print Signature	lvania Ave, Suite 500, T		Signature Venable, 210 W. Penns Mailing Address	City	

3-27 @ 1:30 pm



PE. TION FOR ZONING HEAL NG(S)

To be filed with the Department of Permits, Approvals and Inspections To the Office of Administrative Law of Baltimore County for the property located at: Address 909 BELFAST ROAD which is presently zoned Deed References: 39915-00185 10 Digit Tax Account # 3
Property Owner(s) Printed Name(s) ALEC 8, & SUZANNE L. HUBER 10 Digit Tax Account # 24 0 0 0 1 3 3 4 8 (SELECT THE HEARING(S) BY MARKING X AT THE APPROPRIATE SELECTION AND PRINT OR TYPE THE PETITION REQUEST) The undersigned legal owner(s) of the property situate in Baltimore County and which is described in the description and plan attached hereto and made a part hereof, hereby petition for: a Special Hearing under Section 500.7 of the Zoning Regulations of Baltimore County, to determine whether or not the Zoning Commissioner should approve a Special Exception under the Zoning Regulations of Baltimore County to use the herein described property for X a Variance from Section(s) 400.1 \$400.3; BCZR, TO PETZUAT AN ACCESSORY STRUCTURE REAR YARD, WITH A HEIGHT OF BOTH IN LIEU OF THE of the zoning regulations of Baltimore County, to the zoning law of Baltimore County, for the following reasons: (Indicate below your hardship or practical difficulty or indicate below "TO BE PRESENTED AT HEARING". If you need additional space, you may add an attachment to this petition) Property is to be posted and advertised as prescribed by the zoning regulations.

I, or we, agree to pay expenses of above petition(s), advertising, posting, etc. and further agree to and are to be bounded by the zoning regulations and restrictions of Baltimore County adopted pursuant to the zoning law for Baltimore County. Legal Owner(s) Affirmation: I / we do so solemnly declare and affirm, under the penalties of perjury, that I / We are the legal owner(s) of the property which is the subject of this / these Petition(s). Legal Owners (Petitioners): Contract Purchaser/Lessee: Name-Type or Print Signature 909 BELFAST RD. State Mailing Address Mailing Address City OS- pros a com 410-227-1500 21152 **Email Address Email Address** Zip Code Telephone # Telephone # Zip Code **Attorney for Petitioner:** Representative to be contacted: LTRICK O'KEEFE Name-Type or Print Signature Signature 523 PENNY LANE COCKEYSYILLE Mailing Address Mailing Address State City Email Address Email Address Telephone # Zip Code Filing Date 0/ 129, 2020 Reviewer JC/ REV. 10/4/11

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Permits, Approvals & Inspections

111 W. Chesapeake Avenue Towson, MD 21204

Report Generated On: 12/5/2019

Permit Processing Commerical Permit & Development Report

Page 1 of 2

Property Information

Tax Account Number:

1514651440

Election District: 15

Owner Name(s): WHITEMARSH ASSOCIATES LLC

Address: 1604 CRESTON DRIVE

FOREST HILL,MD 21050

Premise Address:

PHILADELPHIA RD

PDM #:

Zoning District(s): ML IM

Elevation Range: 42ft - 56ft

Affected Overlays	Instructions: Begin review process with Zoning Review, Room 111.	Bldg.		Alts.	S	>		3uk		Occup.	nna		Plumb	Agency
14	Potential Overlay Issues				Piers/Pilings	Grading/SW	60	Ret.Walls/Bulk	g,	ō	Tower Antenna		ంర	Acknowledgment
Contact Agency	Growth Tier 1: Served by public sewer and inside URDL	New Com	Interior Alts.	Add / Ext. Alts	Piers	Grad	Tanks	Ret.V	Razing	Chg.	Towe	Signs	Elect.	Initial & Date
EPS-Dev. Coord. County Office Building Room 319 Phone: 410-887-3733	100 Year Flood Zone	X	0.000	X		X	X	X			X			
PAI-Sed. Control Insp.	Note: All Razing Permits must be sent to Sediment Control for review.													
County Office Building Room G-21 Phone: 410-887-3226	100 Year Flood Zone	X		X		X		X						
PAI-Public Services County Office Building	Note: All permits for Grading, New Buildings & Building Additions must be sent to Public Services.													
Room 119 Phone: 410-887-3751	100 Year Flood Zone	X	X	X		X	X			X	X	-	X	OK To File
MD Aviation Administration Division of Airport Facilities Planning P.O. Box 8766 BWI Marshall Airport,MD 21240-0766 Phone: 410-859-7692 or 410-859-7070	Martin State Aiport Zoning Area	X		X	X	X	X	X	X		X	MANUAL TITLE TO A CONTROL OF THE PARTY OF TH		OK To File
Zoning Review County Office Building Room 111 Phone: 410-887-3391	Zoning Cases: R-1994-0337; 2008-0586-SPH; 2019-0453-SPH	X		X	X		X			X	X	X		

Notice: This report is not inclusive as additional issues may arise which would affect the ability to obtain a building permit. This Report is solely for Departmental use and nothing herein creates any right which would affect the ability to obtain a building permit. Form171C



Permits, Approvals & Inspections

111 W. Chesapeake Avenue Towson, MD 21204

Report Generated On: 12/5/2019

Permit Processing Commerical Permit & Development Report

Page 2 of 2

Property Information

Tax Account Number:

1514651440

Election District: 15

Owner Name(s): WHITEMARSH ASSOCIATES LLC

Address: 1604 CRESTON DRIVE

FOREST HILL, MD 21050

Premise Address:

PHILADELPHIA RD

PDM #:

Zoning District(s): ML IM

Elevation Range: 42ft - 56ft

Affected Overlays	Instructions: Begin review process with Zoning Review, Room 111.	3ldg.		Alts.	S	>		/Bulk		cup.	ntenna		=	Agency
	Potential Overlay Issues	Com	ior Alts	Ext.	/Piling	ding/S\	on.	Walls/E	gu	of Oc	er Ante	S	8	Acknowledgment
Contact Agency	Growth Tier 1: Served by public sewer and inside URDL	New	Inter	Add	Piers	Grad	Tank	Ret.	Razing	Chg.	Towe	Signs	Elec	Initial & Date
Building Plans Review	100 Year Flood Zone	X	X	X	X		X	X			X			Annual Control Control
County Office Building Room 120 Phone: 410-887-3987														

Real Property Data Search (w4)

2019-0534-X

Search Result for BALTIMORE COUNTY

View Map	Vi	ew GroundF	Rent Redem	ption		Vie	w GroundRent Regist	tration
Tax Exempt: None				Special Tax Recap	ture: None	······································		
Exempt Class: None								
Account Identifier:		District - 1	5 Account N	lumber - 15146514	40			
y territoria de la companya de la co				Owner Information	1			
Owner Name:		WHITEMA	RSH ASSOC		Jse:	IMESS 2	INDUSTRIAL	7
					Principal Res			
Mailing Address:			STON DRIVE IILL MD 2105		Deed Referer	nce:	/13490/ 00220	
		FURESTE		ion & Structure Info	rmation			
Premises Address:		PHILADEL			egal Descri	ntion:	4.046 AC	
70111000714410001		0-0000					PHILADELPHIA CORNER OF CA	
Map: Grid: Parcel	Neigh	borhood:	Subdivis	ion: Section:	Block:	Lot:	Assessment Year:	Plat No:
0082 0011 0026	30000		0000				2018	Plat Ref:
Special Tax Areas: Non					Town:			None
opecial rax Areas. Non					Ad Valorem	:		None
					Tax Class:	10		None
Primary Structure Built	Δh	ove Grade L	iving Area	Finished Bas			Property Land Area	County Use
. Innary ou ucture built	ADI	J. G. Grade L	iig Alea	i illiolled Das	Zement Area		4.0500 AC	18
Stories Basement	Туре	Exterior	Quality	Full/Half Bath	Garage	Last	Notice of Major Impro	ovements
		1						
				Value Information	1			
		Base V	/alue	Value		Phase	-in Assessments	
				As of		As of	As o	
		4.000		01/01/2018		07/01/	2019 07/0	01/2020
Land:		4,000		4,000				
Improvements		0		0		4 000	4.00	20
Total:		4,000 0		4,000		4,000	4,00	00
Preferential Land:		0		Transfer Informatio			0	
C-U DEDI AND CENS	TAD INC		D-	Transfer Informatio)[]		Dring, \$2,650,00	0
Seller: REDLAND GENS Type: ARMS LENGTH N				te: 02/01/1999 ed1: /13490/ 00220)		Price: \$2,650,00 Deed2:	U
				~~~~				
Seller: FLINTKOTE COM				te: 10/28/1986			Price: \$0	
Type: NON-ARMS LENG	FIH OTHE	:K	De	ed1: /07309/ 00582	2		Deed2:	
Seller:			Da				Price:	
Туре:				ed1:			Deed2:	
				Exemption Informat		4	00/07/2022	
Partial Exempt Assessn	ents:	Class			07/01/2019		07/01/2020	
County:		000			0.00			
State:		000			0.00 0.00 0.00		0.00 0.00	
Municipal:		000					0.00 0.00	
				Special Tax Recap	oture: None			
Tax Exempt: None								
Tax Exempt: None Exempt Class: None			I lama	stand Application In	formation			
Exempt Class: None	Status N	Application		stead Application In	formation			
Annual Control of the	Status: No			stead Application In				

^{1.} This screen allows you to search the Real Property database and display property records.

2. Click here for a glossary of terms.

3. Deleted accounts can only be selected by Property Account Identifier.

^{4.} The following pages are for information purpose only. The data is not to be used for legal reports or documents. While we have confidence in the accuracy of these records, the Department makes no warranties, expressed or implied, regarding the information.

