

## TOWN OF ZEBULON JOINT PUBLIC HEARING October 13<sup>th</sup>, 2025 6:00 PM

- I. CALL TO ORDER
- II. APPROVAL OF AGENDA
- III. NEW BUSINESS
  - a. Planned Development 2025-05 Sheetz (1406 N Arendell Ave) PIN #2706011220 A request by Sheetz, INC., for a rezoning from Heavy Commercial (HC) to Planned Development for the use of a Convenience Store with Gasoline Sales.
- IV. ADJOURNMENT



Topic: RZ 2025-05 – Sheetz Planned Development (PD) Rezoning Petition

Speaker: Matthew Lower, Planning Director From: Matthew Lower, Planning Director Prepared by: Christopher Medina, Planner I

Approved by: Taiwo Jayeoba, Interim Town Manager

#### **Executive Summary:**

The Board of Commissioners will consider a Planned Development (PD) rezoning petition for 1406 N Arendell Ave (PIN# 2706011220). Town Board's approval of this Planned Development rezoning petition will add a drive-through, pick-up window and one additional fuel pump at the Sheetz gas station.

#### **Discussion:**

Sheetz, Inc is seeking to rezone one parcel, totaling 2.15 acres, from Heavy Commercial (HC) to Planned Development (PD) Zoning District.

The building and site will be demoed and rebuilt to include a 6,139 square-foot building with a pickup window and one additional fuel pump for the existing use of a Convenience Store (with gasoline sales). The existing car wash will be removed from the site. The applicant is proposing nine conditions that deviate from the requirements of the Unified Development Ordinance (UDO). If approved, any development on the property will be subject to the conditions described within the proposed Planned Development Narrative and any additional Town development standards.

#### **Unified Development Ordinance (UDO) Consistency Analysis:**

"The Planned Development (PD) districts are established and intended to encourage innovative land planning and site design concepts that support a high quality of life and achieve a high quality of development, environmental sensitivity, energy efficiency, and other Town goals and objectives (UDO Section 4.5.6.A)"

As part of a complete Planned Development application the applicant has provided a Planned Development narrative to help inform the proposed districts character. While this narrative engages with the Unified Development Ordinance, the Planned Development process allows flexibility to create a new district that is beyond what is permitted under an existing zoning district.

The following conditions have been proposed as deviations from the ordinance:

- 1) The fuel pump canopy island shall be located between the proposed building and N. Arendell Avenue (NC 96).
  - Section 4.3.5.Q.1 "Pump islands may not be located between a building and any adjacent street rights-of-way."



- 2) No more than sixty percent (60%) of off-street parking will be located between the proposed structure's primary facade and North Arendell Avenue.
  - Section 5.3.1.F.11.a.i "Sites comprised of commercial buildings subject to these design standards shall be configured such that no more than 50 percent of the provided off-street parking shall be located between a building's primary building façade and the street it faces."
- 3) The proposed dumpster enclosure shall be located as shown on the site plan. The proposed dumpster shall be fully screened and enclosed. The enclosure shall be built consistently with the elevations, attached hereto and made a condition hereof. The enclosure shall be constructed with brick, concrete masonry, and pressure treated wood (or reasonably similar quality materials) to ensure aesthetic consistency with the primary structure.
  - Section 5.3.1.H "The following standards shall apply to dumpster and refuse collection areas for commercial uses. 1. The sides and back of enclosures shall be constructed of the same materials as the primary building and the following materials are prohibited a. Natural wood fence panels b. Synthetic Stucco or EFIS c. Chain-Link d. Reflective Corrugated Metal 2. Gates shall be constructed of a metal panel system and painted or coated black, grey, or similar neutral color. 3. Enclosures shall meet the standards of Table 5.10.5, Screening Methods."
- 4) The primary wall/façade (facing North Arendell Avenue) will be occupied by no less than twenty-seven percent (27%) of visually transparent windows or doors. The applicant shall supplement with additional false/opaque windows and/or articulated wall forms.
  - Section 5.3.1.F.7 "Building walls shall incorporate fenestration features in accordance with the following standards (see Figure 5.3.1.F.7: Commercial Building Fenestration): a. PRIMARY BUILDING WALLS Primary building walls shall be configured so that: i. At least 40 percent of the first floor portion of the primary wall is occupied by visually transparent windows or doors; ii. At least 30 percent of a second floor portion of the primary wall (if provided) is occupied by visually transparent windows or doors; iii. A window or functional general access doorway is located at least every 20 feet along the façade; and iv. No more than 50 percent of any single window or door is obstructed by a window sign or other opaque display."
- 5) The secondary wall/facade (facing Pearces Road) will be occupied by no less than twenty-four (24%) of visually transparent windows or doors, false or opaque windows, or articulated wall forms.
  - Section 5.3.1.F.7 "SECONDARY BUILDING WALLS Secondary building walls shall be configured so that at least 30 percent of the ground floor façade and at least 20 percent of any second floor façade is occupied by: i. Visually transparent windows or



doors with regular spacing; ii. False or opaque windows with regular spacing; iii. Articulated wall forms designed to mimic window openings that also include an overhang or awning."

- 6) The street setback for Pearces Road shall be ten (10) feet for the dumpster enclosure.
  - Section 3.4.4 "Heavy Commercial: Minimum street setback (feet) 30"
- 7) The side perimeter buffer for the boundary adjoining the property located at 1420 North Arendell Avenue (PIN: 1796919353) shall be three (3) feet.
  - Section 5.6.10 "HC along HC Type A perimeter buffer: Buffer width (feet) 10"
- 8) The streetscape buffer along North Arendell Avenue and Pearces Road shall be zero (0) feet.
  - Section 5.6.12 "Streetscape buffers shall maintain a minimum width of at least 15 feet from the lot lines subject to these standards."
- 9) Parking spaces 11, 12, 13, and 14 (as shown on the site plan) shall be permitted to be further than fifty (50) feet from the trunk of a canopy tree. Planters shall be located along the sidewalk at the storefront to enhance landscaping for the parking area and for the parking spaces 11, 12, 13, and 14.
  - Section 5.6.9.A "1. Parking lots subject to these standards shall include at least one canopy tree for every 12 off-street parking spaces provided. 2. Required canopy trees may be placed around, in, or near the parking lot provided that no parking space is more than 50 feet from the trunk of a canopy tree."

#### **Policy Analysis:**

#### Comprehensive Land Use Plan:

The future land use map shows the subject parcel as General Commercial (GC). The commercial use is consistent with the GC future land use. "This designation is for properties in commercial retail, office and service uses, primarily along portions of major roadway corridors within the community for high visibility and accessibility, but also in other locations to accommodate smaller-scale and neighborhood-focused businesses. (Land Use and Development, Page 18)."

The rezoning is supported by the following CLUP goals:

#### 1. Goals for Land Use and Development:

- Goal 1: A land use allocation and pattern that advances Zebulon's objectives of achieving greater housing variety, supporting its economic development and tax base needs, and creating a complete community with convenient resident access to schools, recreation, shopping and services (Land Use and Development, p.2).
- o **Goal 2:** Consistent character of land use within areas intended for particular character types, from rural and suburban through auto-oriented and urban along the community character spectrum (Land Use and Development, p.2).



#### 2. Goals for Growth Capacity

- Goal 1: A growth management philosophy and strategies that enable most of the projected growth in the Zebulon area to be absorbed within and contiguous to the existing developed town (Growth Capacity, p.2).
- Goal 2: A growth progression and pattern of development that promotes the Town's long-term financial sustainability and applies an adequate public facilities approach to growth management. (Growth Capacity, p.2).

#### 3. Economic Development Goals and Actions:

- Goal 1: An economically resilient community with a diverse yet stable economic base, an environment that supports both entrepreneurs and established businesses, and a local real estate market attractive to emerging investment, job creation and development opportunities (Economic Development, p. 2).
- Goal 2: A town that remains the unquestioned hub community for eastern Wake County as a multi-purpose destination and center of employment, commerce, government services, education, culture and recreational and leisure activities for residents and visitors (Economic Development, p. 2).

#### **Outcomes:**

The rezoning will have the following outcomes:

- 1. Improvements for the existing convenience store (with gasoline sales): The rezoning from a Heavy Commercial (HC) zoning district to a Planned Development (PD) district will allow Sheetz to add both a drive-through, pick-up window and one more fuel pump (multi-product dispenser (MPD)).
- 2. The rezoning to PD will allow for the redevelopment of the site in a manner that mirrors the existing building orientation and site plan, resulting in a legally conforming project.
- 3. The site will be developed to an alternative form other than what is prescribed in the Unified Development Ordinance (UDO).

#### **Staff Recommendation for Joint Public Hearing:**

Staff recommends opening the public hearing for this Planned Development rezoning petition. After public hearing and discussion closes, refer the matter to the Planning Board for consideration.

#### **Staff Recommendation for Planning Board:**

Town staff recommend that the Planning Board consider the appropriateness of applying the Planned Development (PD) process to this request. The proposed redevelopment would bring the Sheetz site into legal conformity and provide an updated building form consistent with the Town's Unified Development Ordinance (UDO).



If the Board determines that utilizing the PD process to make a project conforming by allowing flexibility from the ordinance is consistent with the intent of UDO section 2.2.15 and 3.5.6, staff recommends approval with the proposed conditions.

Alternatively, if the Board believes that applying the PD process in this instance would constitute an avoidance of the Town's established design and development standards—particularly given that the site is being completely redeveloped- then staff recommends denial of the request.

#### **Attachments:**

- 1. Application
- 2. Neighborhood Meeting Packet
- 3. Plan Set
- 4. Planned Development Narrative/TIA
- 5. Utility Allocation Checklist
- 6. Future Land Use Map
- 7. Aerial Map
- 8. Zoning Map
- 9. Site Photos
- 10. Public Hearing Notification Affidavit





PART 1. DESCRIPTION	N OF REQUEST/PROP	ERT	Υ		
Street Address of the Property:	06 N ARENDELL AVE			Acreage: 2.5	0
Parcel Identification Number (NC PIN):	2706011220		Deed Book: 13270	Deed Page(s):	2106
Existing Zoning of the Property: HEA	VY COMMERCIAL (H	C)	Proposed Zoning of the Property: PLANNED	DEVELOPN	//ENT
	IVENIENCE STORE H GASOLINE SALES	)	Maria Cara Cara Cara Cara Cara Cara Cara	NVENIENCE TH GASOLIN	
	OSING A NEW PICK U OPMENT PROCESS.	P W	INDOW WHICH TRIGGE	ERS THE	
PART 2. APPLICANT/A Name of Applicant/Agent: SHEE	GENT INFORMATION				
Street Address of Applicant/Agent:	43 SHEETZ WAY				
CLAYSBURG			State: PA	Zip Code: 1662	25
Email of Applicant/Agent: KBROWN@SHEETZ.COM			Telephone Number of Applicant/Agent: 814-312-1705	Fax Number of Appl	icant/Agent:
Are you the owner of the property?	Are you the owner's agent?	No	Note: If you are not the owner of to Owner's consent and signature give application.		
PART 3. PROPERTY O	WNER INFORMATION				
lame of Property Owner: OLDE H	IERITAGE PROPERTI	IES	LLC		
itreet Address of Property Owner:	6 N ARENDELL AVE				
ZEBULON State: NC Zip Code: 27597					
mail of Property Owner:		Telep	phone Number of Property Owner:	Fax Number of Prope	erty Owner:
hereby state that the facts correct, and accurate to the	related in this application best of my knowledge.	and	any documents submitted he	rewith are com	plete, true,
Signature of Applicant:	M		Print Name:  HUM MWM		Date: 05/6
Signature of dwner:	FI Skap		Print Name: BEHy B. Ray		Date: /
			/ /		Patgragg3 of 10



#### LEGISLATIVE CONSIDERATIONS - PLANNED DEVELOPMENT

The applicant shall propose site-specific standards and conditions that take into account the following considerations, which are considerations that are relevant to the legislative determination of whether or not the proposed planned development is in the public interest. Therese considerations do not exclude the legislative consideration of any other factor that is relevant to the public interest. Failure to adequately address the findings below may result in denial of the application. Please provide responses to the following standards as outlined in Section 2.2.15 of the Unified Development Ordinance.

1. Please provide details on how the proposed Planned Development advances the public health, safety, or welfare

The proposed Planned Development advances the public health, safety, and welfare of the community by redeveloping an aged-store and development. The access points are consistent with existing conditions and new lighting/underground storage tanks will be included. The proposed development has planned a fence in between the residential and retail to enhance safety of the neighbors.

2. Please provide details on how the proposed Planned Development is appropriate for its proposed location, and is consistent with the purposes, goals, objectives, and policies of the Town's adopted policy guidance.

The proposed Planned Development is appropriate for its proposed location and is consistent with the purposes, goals, objectives, and policies of the Town's adopted policy guidance because it maintains the current use but modifies the orientation to be consistent with new Town standards and Comprehensive Plan.

3. Please provide details on how the proposed Planned Development is reasonable and in the public interest.

The proposed Planned Development is reasonable and in the public interest because it redevelops an aged-store and development. The development will become consistent with new Town standards and Comprehensive Plan.

4. Please provide details on how the proposed Planned Unit Development provides for innovative land planning and site design concepts that support a high quality of life and achieve a high quality of development, environmental sensitivity, energy efficiency, and other Town goals and objectives.

The proposed Planned Development provides for innovative land planning and site design concepts that support a high quality of life and achieve a high quality of development, environmental sensitivity, energy efficiency, and other Town goals and objectives because the store will be rebuilt to current Sheetz standards, including the latest lighting design, which is most efficient. The development will become in compliance with the latest Town standards.

5. Please provide details on how the proposed planned unit development provides improved means of access, open space, and design amenities;

The proposed Planned Development provides improved means of access, open space, and design amenities because it is not increasing the impervious area onsite, the existing stormwater management pond is being maintained, and the access points are being maintained. A new amenity for the community, a pick-up window, is being proposed so customers can have easier accessibility to getting food and beverage from the store.





6.	Please provide details on how the proposed Planned Unit Development provides a well-integrated mix of residential and nonresidential land uses in the same development, including a mix of housing types, lot sizes, and densities;
	The proposed Planned Development provides a commercial use that is adjacent to a residential use.
7.	Please provide details on how the proposed Planned Unit Development creates a system of incentives for redevelopment and infill in order to revitalize established areas;
	The proposed Planned Development creates a system of incentives for redevelopment and infill in order to revitalize established areas because it is demolishing and rebuilding a successful, existing use in order to bring the site up to current standards and appearance. Completing this rebuild project will allow Sheetz to continue to bring in business for the community for another 15+ years.
8.	Please provide details on how the proposed Planned Unit Development promotes a vibrant public realm by placing increased emphasis on active ground floor uses, pedestrian-oriented building façade design, intensive use of sidewalks, and establishment of public gathering areas;
	The proposed Planned Development promotes a vibrant public realm by including bike racks, outdoor seating, and maintains the open space adjacent to the street frontages.
9.	Please provide details on how the proposed Planned Unit Development provides for efficient use of land resulting in
9.	smaller networks of utilities and streets and thereby lowering development and housing costs; and
	The proposed Planned Development provides for efficient use of land because it maintains the existing use. There is no new Town infrastructure required.
10.	Please provide details on how the proposed Planned Unit Development provides quality design and environmentally sensitive development that respects surrounding established land use character and respects and takes advantage of a site's natural and man-made features, such as trees, estuaries, shorelines, special flood hazard area, and historic features.
	The proposed Planned Development provides quality design and environmentally sensitive development because it is maintaining the existing open space and stormwater management facility onsite. The vegetated buffer in between the Sheetz and residential property will be increased along with the addition of a fence to prevent noise.
11.	Other factors as the Board of Commissioners may determine to be relevant.



### **OWNER'S CONSENT FORM**

Name of Project:	416 SHEETZ ZEE	BULON	Submittal Date:	JUNE 2, 2025
OWNER'S AUTHORIZ I hereby give CONSE clearly full name of age material and documen the application(s) indic agree to all terms and	ENT to <u>MCCTC</u> ent) to act on my beha ts, and to attend and r cated above. Furtherr	If, to submit or have s represent me at all me nore, I hereby give co	ubmitted this applice etings and public onsent to the party	hearings pertaining to designated above to
I hereby certify I have application. I acknow Development Ordinand conditions, and plans a are perpetually binding may only be changed located outside the Tannexation and the ext the UDO will remain appart of this request. I amy agent will result in approval or permits. I all further consent to the as a part of this applic imposed as part of the Signature of Owner of Signature of Owner of the Inches of Owner of the Inches of Owner of Inches of Owner of Inches of Inches of Owner of Inches of Inches of Owner of Inches of I	ledge and agree that, be, that lands subject to pproved as part of that g on the land as an arin accordance with sown of Zebulon's corrension of utilities. I unoplicable to the subject anderstand that any fact the denial, revocation of Zebulon to putation for any third particle.	pursuant to Section of a Planned Development application. These standard the procedures established porate limits shall confer that all other thands unless specifically inaccurate, or income or administrative itional information may ablish, copy or reproduty. I further agree to	2.2.15. of the Townent shall be subject and ards, plans, and inance and the Official black of this ordinary with all Townent applicable standary listed as conditionally listed and conditionally listed and conditionally listed as conditionally lis	on of Zebulon Unified of to all the standards, of approved conditions ficial Zoning Map and inance. Development on policies related to rds and regulations of itions or deviations as on provided by me, or application, request, ocess this application.
CERTIFICATION OF F I hereby certify the stat		made in any naner o	r nlane cubmitted b	perewith are true and
correct to the best of m				
become official records				arolina, and will not
be returned.	2			gra
1 1 D	R/Con 1	/ Light		4/19/25
Signature of Owner	er F	rint Name	D	ate

<sup>\*</sup>Owner of record as shown by the Wake County Revenue Department (www.wakegov.com). An option to purchase does not constitute ownership. If ownership has been recently transferred, a copy of the deed must accompany this form.





12.

UDO.

#### **CONCEPT PLAN REQUIREMENTS**

Every applicant requesting Planned Development approval shall submit 8 copies and 1 pdf **CHECK IF** (e-mail or USB Drive) of a concept plan drawing with the application for a Planned SUBMITTED Development. The concept plan shall contain sufficient information to adequately determine the type of development being proposed. The concept plan drawing shall include, at a minimum, the following features unless otherwise specified by the Planning Department: **ITEM** Plot plan showing all existing and planned structures, building setback lines. 1. perimeter boundaries, and easements. 2. Elevation drawings of all buildings indicating the proposed exterior finish materials. 3. Landscaping plan, lighting, fencing, screening, and walls, indicating all heights and locations. 4. Location of all ingress and egress. Off-street parking and loading facilities, with calculations showing how the 5. quantities were obtained. 6. All pedestrian walks and open areas for use by residents, tenants, or the public. 7. Proposed land uses indicating areas in square feet. 8. The location and types of all signs, including lighting and heights, with elevation drawings. 9. Existing and/or proposed street names. 10. Proposed potable or reuse water, wastewater connections, and storm sewer line; proposed grading and drainage patterns; proposed water and sewer allocations. N/A 11. Such additional items and conditions, including design standards as the Planning Board and Board of Commissioners deems necessary.

Trip generation data and TIA if applicable in accordance with Section 6.13 of the



### **PROPOSED USES**

An application has been duly filed requesting that the property described in this application be rezoned from <a href="https://www.hc.univ.com/hc/">https://www.hc.univ.com/hc

The Rezoned Lands may be used for, and only for, the uses listed immediately below. The permitted uses are subject to the limitations and regulations stated in the Use Table and any additional limitations or regulations stated below. For convenience, some relevant sections of the Unified Development Ordinance may be referenced; such references do not imply that other sections of the Unified Development Ordinance do not apply.

1.	CONVENIENCE STORE (WITH GASOLINE SALES)	25.
2.		26.
3.		27.
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23.		47.
24.		48.



#### PROPOSED DEVELOPMENT CONDITIONS

The applicant hereby requests that the Zebulon Board of Commissioners, pursuant to Section 3.3.5 of the Unified Development Ordinance, approve the Proposed Planned Development with above listed use(s), subject to the following condition(s), requested deviations, and proposed alternative means of compliance. (Attach additional pages as needed)

#### Condition #1:

Modification from 5.3.2.3.a&b of Mixed-Use Design Standards:

The building will be configured as shown on the site plan.

#### Condition #2:

Modification from 5.3.2.4.a

The building will occupy approximately 25% of the frontage along Pearces Road.

The building will occupy approximately 50% of the frontage along N Arendell Avenue (NC 96).

#### Condition #3:

Modification from 5.3.2.6.a&b

A drive aisle and parking rows are proposed between the building and the N Arendell Avenue (NC 96).

#### Condition #4:

Modification from 5.3.2.8.b

Alternative transparency requirements are provided along Pearces Road.

#### Condition #5:

Modification from 5.3.2.12

A pick-up window is proposed with this development.

#### Condition #6:

Modification from 5.6.12.D.1

The street buffer along Pearces Road is 8' All other buffer requirements are met. Curb line is consistent with existing conditions.

#### Condition #7:

Modification from Table 5.6.10.C

The buffer along the adjacent commercial property is 3 feet. All other buffer requirements are met. Curb line is consistent with existing conditions.

#### Condition #8:

Modification from Table 5.11.9.M

There will be two wall signs on the front building facade.



### **PROPOSED USES**

An application has been duly filed requesting that the property described in this application be rezoned from <a href="https://https:/

The Rezoned Lands may be used for, and only for, the uses listed immediately below. The permitted uses are subject to the limitations and regulations stated in the Use Table and any additional limitations or regulations stated below. For convenience, some relevant sections of the Unified Development Ordinance may be referenced; such references do not imply that other sections of the Unified Development Ordinance do not apply.

1.	CONVENIENCE STORE (WITH GASOLINE SALES)	25.
2.	DRIVE THROUGH / PICK-UP WINDOW	26.
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23.		47.
24.		48.



# NOTICE OF NEIGHBORHOOD MEETING

This document is a public record under the North Carolina Public Records Act and may be published on the Town's website or disclosed to third parties.

Dear Neighbor:	
You are invited to a neighborhood meeting to review and dis	scuss the development proposal at:
1406 N ARENDELL AVENUE, ZEBULON, NC 27597	2706011220
(Address)	(Pin Numbers)
in accordance with the Town of Zebulon Neighborhood M way for the applicant to discuss the project and review neighborhood organizations before the submittal of an approportunity to raise questions and discuss any concerns ab submitted. Once an application has been submitted to the Development Map located on the Town of Zebulon website <a href="https://www.townofzebulon.org/planning/interactive-development/">https://www.townofzebulon.org/planning/interactive-development/</a>	the proposed plans with adjacent neighbors and plication to the Town. This provides neighbors amout the impacts of the project before it is officially be Town, it may be tracked using the Interactive at:
A Neighborhood Meeting is requested because this project v  ☐ Conditional Rezoning  Planned Unit Development ☐ Site Plan within the Downtown Core or Downtown F ☐ Zoning Map Amendment (results in more intensive v ☐ Special Use Permit (Quasi-Judicial Hearing)  *Quasi-Judicial Hearing: The Board of Commissioners ca	Periphery Zoning Districts uses or increased density)
The following is a description of the proposed (also see attac Redevelopment of the existing Sheetz site. The building	
include a 6,139 SF building with a pickup window and will be removed. New landscaping will be included.	
Estimated Submittal Date: APRIL 30, 2025	-
MEETING INFORMATION:	
Property Owner(s) Name(s) OLDE HERITAGE PROPE	RTIES LLC
Applicant(s) KIMLEY-HORN AND ASSOCIATES, INC	C. ON BEHALF OF SHEETZ, INC.
Contact Information (e-mail/phone) HEATHER.TIMOTH	Y@KIMLEY-HORN.COM
Meeting Address: ZEBULON COMMUNITY CENTER;	301 S ARENDELL AVE, ZEBULON, NC 27597

THURSDAY, APRIL 17, 2025

Date of Meeting:

Time of Meeting: 6:00 - 8:00 PM

<sup>\*\*</sup>Meetings shall occur between 5:00 p.m.-9:00 p.m. on a Monday through Thursday (excluding Town recognized holidays). If you have questions about the general process for this application, please contact the Planning Department at 919-823-1809. You may also find information about the Zebulon Planning Department and on-going planning efforts at https://www.townofzebulon.org/services/planning



## PROJECT CONTACT INFORMATION

This document is a public record under the North Carolina Public Records Act and may be published on the Town's website or disclosed to third parties.

<b>Development Contacts:</b>				
Project Name: 416 SHEETZ ZEBULON Zoning: HC, HEAVY COMMERCIAL (CURRENT)				
Location: 1406 N ARENDE	LL AVE (CORNER OF	PEARCES RD & N ARENDELL AVE)		
Property PIN(s): 270601122	20	Acreage/Square Feet: 2.50		
Property Owner: OLDE HER	RITAGE PROPERTIES	SLLC		
Address: 806 N ARENDELL	AVE			
City: ZEBULON	State: NC	Zip: 27597		
Phone: N/A		Email: N/A		
Developer: SHEETZ, INC.				
Address: 243 SHEETZ WAY				
City: CLAYSBURG	State: PA	Zip:16625		
Phone: 814-312-1705	Fax: N/A	Email: KBROWN@SHEETZ.COM		
Engineer: KIMLEY-HORN AI				
Address: 421 FAYETTEVIL				
City: RALEIGH	State: NC	Zip: 27601		
Phone: 703-870-3644	Fax:	Email: HEATHER.TIMOTHY@KIMLEY-HORN.COM		
Builder (if known):				
Address:				
City:	State:	Zip:		
Phone:	Fax:	Email:		

1. 2703384310         Jown of Zebulon Planning Department         1003 N Avendell Ave         Same as properly address           2706612606         WAKELON TOWNHOMES HOMEOWNERS ASSN INC         201 Pearces Rd         1203 N CHIGHWAY 39           31796919353         Wake County Board of Aichoholic Control         1420 N Avendell Ave         NEW York VA 10028           4 1796916552         WEN 14582 ZEBULON ILC         1500 N Avendell Ave         120 EAST RIND AVE APT 108           5 1796916207         TRI ARC FOOD SYSTEMS INC         1513 N Avendell Ave         490 WYNTERS EDGE DR           6 1796902666         TRUIST BANK         49 Green Pace Rd         490 WYNTERS EDGE DR           7 1796807863         PARRISH REALTY CO OF ZEBULON INC         1413 N Avendell Ave         2072 EARPSBORD RD           8 179699841         LINP INC         1405 N Avendell Ave         2072 EARPSBORD RD           9 1796908821         LINP INC         1403 N Avendell Ave         2072 EARPSBORD RD           10 2706000800         LINP INC         1403 N Avendell Ave         2072 EARPSBORD RD           11 270600007         ARRISH REALTY CO GENEE BAKER         1309 N Avendell Ave         208 LULON NC 27597-1128           12 2706000456         BI CAR WASH LLC DR CAR WASH LLC         1201 N Avendell Ave         208 N LULO NC 27597-1128           12 2706001516         EDDINIS OIL COMPAN		PIN	Property Owner Name	Property Address	Mailing Address
2760012606   WARELON TOWNHOMES HONEOWNERS ASSNINC   201 Fearces RI   2EBILLION NC 27597-8028   2760012606   WARELON TOWNHOMES HONEOWNERS ASSNINC   1420 N Arendell Ave   222 Welker Dr   RALEIGH, NC 27604-1428   1796919533   Wake County Board of Alchoholic Control   1420 N Arendell Ave   120 EAST RIND AVE APT 108   NATIONAL AND AVE APT 108   17969195297   TRI ARC FOOD SYSTEMS INC   1513 N Arendell Ave   260 WHISTON ASLER NC 27102-0167   1796902666   TRUIST BANK   49 Green Pace Rd   490 WHISTON SALER NC 27102-0167   1796907983   PARRISH REALTY CO OF ZEBULON INC   1413 N Arendell Ave   270 ZEARPSBORD RD   27072 EARPSBORD RD   27072 E	1	2705184110	Town of Zebulon Planning Department	1003 N Arendell Ave	Same as property address
1796913533   Wake County Boart of Alchonolic Control   1400 N Arendell Ave   120 EAST END AVE APT 108	2	2706012606	WAKELON TOWNHOMES HOMEOWNERS ASSN INC	201 Pearces Rd	
1796915297   TRI ARC FOOD SYSTEMS INC   1513 N Arendell Ave   ANDEW YORK VA 10028   AN	3	1796919353	Wake County Board of Alchoholic Control	1420 N Arendell Ave	
1989 15297   TRI ARC POOD SYSTEMS INC   1313 N Arendell Ave   PALEIGH NC 27606-2405	4	1796918552	WEN 14582 ZEBULON LLC	1500 N Arendell Ave	
1796907883   PARRISH REALTY CO OF ZEBULON INC	5	1796915297	TRI ARC FOOD SYSTEMS INC	1513 N Arendell Ave	
1796907983   PARRISH REALTY CO OF ZEBULON INC   1413 N Arendell Ave   ZEBULON NC 27597-6896     1796909941   INP INC   270600800	6	1796902666	TRUIST BANK	49 Green Pace Rd	
1796909941   PARRISH REALTY C/O RENEE BAKER   1405 N Arendell Ave   2072 EARPSBORD RD   1796908821   PARRISH REALTY C/O FZEBULON INC   0 N Arendell Ave   2072 EARPSBORD RD   2706000800   LINP INC   1403 N Arendell Ave   2706000800   LINP INC   1403 N Arendell Ave   2706000800   EXPLICION NC 27597-1128   2706000807   EXPLICION NC 27597-1128   2706000807   PARRISH REALTY C/O RENEE BAKER   1309 N Arendell Ave   2706001516   EDION SOIL COMPANY INC   1301 N Arendell Ave   2706001516   EDION SOIL COMPANY INC   1301 N Arendell Ave   2706001516   EDION SOIL COMPANY INC   1201 N Arendell Ave   1201 WIND CHINE CT   RALEIGH NC 27615-6433   1201 WIND CHINE CT   RALEIGH NC 27604-8058   1201 WIND CH	7	1796907983	PARRISH REALTY CO OF ZEBULON INC	1413 N Arendell Ave	
PARRISH REALTY CO OF ZEBULON INC   27597-6898   2706000800   LNP INC   1403 N Arendell Ave   ZEBULON NC 27597-1128   PO BOX 1128   ZEBULON NC 27597-1128   ZEBULON NC 27597-68971   ZEBU	8	1796909941		1405 N Arendell Ave	
10   2706000800   IVP INC	9	1796908821	PARRISH REALTY CO OF ZEBULON INC	0 N Arendell Ave	
11   12   12   1309   MARRISH REALTY C/O RENEE BAKER   1309 M Arendell Ave   2EBULON NC 27597-1128   2706001516   EDDINS OIL COMPANY INC   1301 N Arendell Ave   Same as properly address   1309 N Arendell Ave   Same as properly address   1309 N Arendell Ave   1211 N Arendell Ave   RALEIGH NC 27615-6433   140   2706003318   BB CAR WASH LLC DR CAR WASH LLC   1209 N Arendell Ave   120 WIND CHIME CT   RALEIGH NC 27615-6433   120 WIND CHIME CT   RALEIGH NC 27604-2811   170 WIND CHIME CT   RALEIGH NC 27604-2811   170 WIND CHIME CT   RALEIGH NC 27604-2811   170 WIND CHIME CT   170 WIND	10	2706000800	LNPINC	1403 N Arendell Ave	
13   2706002456   BB CAR WASH LLC DR CAR WASH LLC   1211 N Arendell Ave   120 WIND CHIME CT   RALEIGH NC 27615-6433   120 WIND CHIME CT   RALEIGH NC 27604-2811   120 WIND CHIME CT   120 WIND CHIME	11	2706000607		1309 N Arendell Ave	
13   2706002456   BB CAR WASH LLC DR CAR WASH LLC   1211 N Arendell Ave   RALEIGH NC 27615-6433     14   2706003318   BB CAR WASH LLC DR CAR WASH LLC   1209 N Arendell Ave   RALEIGH NC 27615-6433     15   2705091833   BB CAR WASH LLC DR CAR WASH LLC   0 Hendricks Dr   120 WIND CHIME CT   RALEIGH NC 27615-6433     16   2706003875   BELLWOOD FOREST LLC   1300 N Arendell Ave   RALEIGH NC 27615-6433     17   2706013095   WAFFLE HOUSE INC   102 Pearces Rd   5986 FINANCIAL DR   NORCROSS GA 30071-2949     18   2706015099   CG ENTERPRISES OF NC LLC   301 Jones St   1609 WHISPERING MEADOWS DR   ZEBULON NC 27597-7367     19   2706014107   LE, KHANH Q NGUYEN, NGOC N   106 Pearces Rd   3715 HINTON GROVE PL   RALEIGH NC 27604-5058     16   2706014224   CG ENTERPRISES OF NC LLC   108 Pearces Rd   1609 WHISPERING MEADOWS DR   ZEBULON NC 27597-7367     17   2706014224   CG ENTERPRISES OF NC LLC   108 Pearces Rd   2603 BRANTLEYTOWN RD   ZEBULON NC 27597-6021     17   2706014224   BUNN, DONNA GREEN GREEN, RICHARD ALLEN   204 Pearces Rd   603 BRANTLEYTOWN RD   ZEBULON NC 27597-6021     27   2706012471   MANDAL, ABIR K   101 Nostalgia Ln   228 BULON NC 27597-6871     27   2706012423   HEMPHILL, ANDREW SCOTT   105 Nostalgia Ln   105 NOSTALGIA LN   ZEBULON NC 27597-6871     26   2706011475   GILLEENY, RYAN GILLEENY, KYNDRA   109 Nostalgia Ln   228 BULON NC 27597-6871     27   2706011446   DAUPHINAIS, STEPHANIE DAUPHINAIS, PAUL B   111 Nostalgia Ln   228 BULON NC 27597-6871     28   2706011417   HARPER, MARTHA ANN   113 Nostalgia Ln   228 BULON NC 27597-6871     131 NOSTALGIA LN   ZEBULON NC 27597-6871   131 NOSTALGIA LN   ZEBULON NC 27597-6871   131 NOSTALGIA LN   ZEBULON NC 27597-6871   131 NOSTALGIA LN   ZEBULON NC 27597-6871   131 NOSTALGIA LN   ZEBULON NC 27597-6871   131 NOSTALGIA LN   ZEBULON NC 27597-6871   131 NOSTALGIA LN   ZEBULON NC 27597-6871   131 NOSTALGIA LN   ZEBULON NC 27597-6871   131 NOSTALGIA LN   ZEBULON NC 27597-6871   131 NOSTALGIA LN   ZEBULON NC 27597-6871   131 NOSTALGIA LN   ZEBULON NC 27597-6871   131 N	12	2706001516	EDDINS OIL COMPANY INC	1301 N Arendell Ave	Same as property address
14         2706003318         BB CARWASH LLC DR CAR WASH LLC         1209 N Arendell Ave         RALEIGH NC 27615-6433           15         2705091833         BB CAR WASH LLC DR CAR WASH LLC         0 Hendricks Dr         120 WIND CHIME CT RALEIGH NC 27615-6433           16         2706003875         BELLWOOD FOREST LLC         1300 N Arendell Ave         2701 E MILLBROOK RD RALEIGH NC 27604-2811           17         2706013095         WAFFLE HOUSE INC TAX DEPARTMENT         102 Pearces Rd         5996 FINANCIAL DR NORCROSS GA 30071-2949           18         2706015099         CG ENTERPRISES OF NC LLC         301 Jones St         1609 WHISPERING MEADOWS DR ZEBULON NC 27597-7367           20         2706014107         LE, KHANH Q NGUYEN, NGOC N         106 Pearces Rd         3715 HINTON GROVE PL RALEIGH NC 27604-5058           20         2706014224         CG ENTERPRISES OF NC LLC         108 Pearces Rd         1609 WHISPERING MEADOWS DR ZEBULON NC 27597-7367           21         2706014224         BUNN, DONNA GREEN GREEN, RICHARD ALLEN         204 Pearces Rd         603 BRANTLEYTOWN RD ZEBULON NC 27597-6871           22         2706012471         MANDAL, ABIR K         101 Nostalgia Ln         101 NOSTALGIA LN ZEBULON NC 27597-6871           24         2706012423         HEMPHILL, ANDREW SCOTT         105 Nostalgia Ln         103 NOSTALGIA LN ZEBULON NC 27597-6871           25 <td>13</td> <td>2706002456</td> <td>BB CAR WASH LLC DR CAR WASH LLC</td> <td>1211 N Arendell Ave</td> <td></td>	13	2706002456	BB CAR WASH LLC DR CAR WASH LLC	1211 N Arendell Ave	
15   2705091833   BB CAR WASH LLC DR CAR WASH LLC   0 Hendricks Dr   RALEIGH NC 27615-6433     16   2706003875   BELLWOOD FOREST LLC   1300 N Arendell Ave   ARLEIGH NC 27604-2811     17   2706013095   WAFFLE HOUSE INC   102 Pearces Rd   5986 FINANCIAL DR   NORCROSS GA 30071-2949     18   2706015099   CG ENTERPRISES OF NC LLC   301 Jones St   1609 WHISPERING MEADOWS DR   ZEBULON NC 27597-7367     19   2706014107   LE, KHANH Q NGUYEN, NGOC N   106 Pearces Rd   3715 HINTON GROVE PL   RALEIGH NC 27604-5058     20   2706014224   CG ENTERPRISES OF NC LLC   108 Pearces Rd   1609 WHISPERING MEADOWS DR   ZEBULON NC 27597-7367     21   2706016424   BUNN, DONNA GREEN GREEN, RICHARD ALLEN   204 Pearces Rd   603 BRANTLEYTOWN RD   ZEBULON NC 27597-6021     22   2706012471   MANDAL, ABIR K   101 Nostalgia Ln   2EBULON NC 27597-6871     23   2706012442   SILVER, RODERICK N   103 Nostalgia Ln   ZEBULON NC 27597-6871     24   2706012423   HEMPHILL, ANDREW SCOTT   105 Nostalgia Ln   ZEBULON NC 27597-6871     25   2706011494   WILSON, SHELIA COUNCIL   107 Nostalgia Ln   ZEBULON NC 27597-6871     26   2706011495   GILLEENY, RYAN GILLEENY, KYNDRA   109 Nostalgia Ln   ZEBULON NC 27597-6871     27   2706011416   DAUPHINAIS, STEPHANIE DAUPHINAIS, PAUL B   111 NOSTALGIA LN   ZEBULON NC 27597-6871     28   2706011417   HARPER, MARTHA ANN   113 Nostalgia Ln   ZEBULON NC 27597-6871     114 NOSTALGIA LN   ZEBULON NC 2759	14	2706003318	BB CAR WASH LLC DR CAR WASH LLC	1209 N Arendell Ave	
16   2706013875   BELLWOOD FOREST LLC   1300 N Arendell Ave   RALEIGH NC 27604-2811   5986 FINANCIAL DR NORCROSS GA 30071-2949   102 Pearces Rd   5986 FINANCIAL DR NORCROSS GA 30071-2949   1609 WHISPERING MEADOWS DR ZEBULON NC 27597-7367   1609 WHISPERING MEADOWS DR ZEBULON NC 27597-7367   1706014107   LE, KHANH Q NGUYEN, NGOC N   106 Pearces Rd   1609 WHISPERING MEADOWS DR ZEBULON NC 27597-7367   1706014107   LE, KHANH Q NGUYEN, NGOC N   106 Pearces Rd   1609 WHISPERING MEADOWS DR ZEBULON NC 27597-7367   1609 WHISPERING MEADOWS DR ZEBULON NC 27597-7367   1609 WHISPERING MEADOWS DR ZEBULON NC 27597-7367   1609 WHISPERING MEADOWS DR ZEBULON NC 27597-6871   101 NOSTALGIA LN ZEBULON NC 27597-6871   101 NOSTALGIA LN ZEBULON NC 27597-6871   102 NOSTALGIA LN ZEBULON NC 27597-6871   103 NOSTALGIA LN ZEBULON NC 27597-6871   105 NOSTALGIA LN ZEBULON NC 27597-6871   107 NOSTALGIA LN ZEBULON NC 27597-6871   107 NOSTALGIA LN ZEBULON NC 27597-6871   109 NOSTALGIA LN ZEBULON NC 27597-6871   111 NOSTALGIA LN ZEBULON NC 27597-6871   113 NOSTALGIA LN ZEBULON NC	15	2705091833	BB CAR WASH LLC DR CAR WASH LLC	0 Hendricks Dr	
17         2706013095         TAX DEPARTMENT         102 Pearces Rd         NORCROSS GA 30071-2949           18         2706015099         CG ENTERPRISES OF NC LLC         301 Jones St         1609 WHISPERING MEADOWS DR ZEBULON NC 27597-7367           19         2706014107         LE, KHANH Q NGUYEN, NGOC N         106 Pearces Rd         3715 HINTON GROVE PL RALEIGH NC 27604-5058           20         2706014224         CG ENTERPRISES OF NC LLC         108 Pearces Rd         1609 WHISPERING MEADOWS DR ZEBULON NC 27597-7367           21         2706016424         BUNN, DONNA GREEN GREEN, RICHARD ALLEN         204 Pearces Rd         603 BRANTLEYTOWN RD ZEBULON NC 27597-6021           22         2706012471         MANDAL, ABIR K         101 Nostalgia Ln         ZEBULON NC 27597-6871           23         2706012442         SILVER, RODERICK N         103 Nostalgia Ln         ZEBULON NC 27597-6871           24         2706012423         HEMPHILL, ANDREW SCOTT         105 Nostalgia Ln         ZEBULON NC 27597-6871           25         2706011494         WILSON, SHELIA COUNCIL         107 Nostalgia Ln         ZEBULON NC 27597-6871           26         2706011475         GILLEENY, RYAN GILLEENY, KYNDRA         109 Nostalgia Ln         ZEBULON NC 27597-6871           27         2706011446         DAUPHINAIS, STEPHANIE DAUPHINAIS, PAUL B         111 Nostalgia Ln <td>16</td> <td>2706003875</td> <td>BELLWOOD FOREST LLC</td> <td>1300 N Arendell Ave</td> <td></td>	16	2706003875	BELLWOOD FOREST LLC	1300 N Arendell Ave	
18       2706015099       CG ENTERPRISES OF NC LLC       301 Jones St       ZEBULON NC 27597-7367         19       2706014107       LE, KHANH Q NGUYEN, NGOC N       106 Pearces Rd       3715 HINTON GROVE PL RALEIGH NC 27604-5058         20       2706014224       CG ENTERPRISES OF NC LLC       108 Pearces Rd       1609 WHISPERING MEADOWS DR ZEBULON NC 27597-7367         21       2706016424       BUNN, DONNA GREEN GREEN, RICHARD ALLEN       204 Pearces Rd       603 BRANTLEYTOWN RD ZEBULON NC 27597-6021         22       2706012471       MANDAL, ABIR K       101 Nostalgia Ln       101 NOSTALGIA LN ZEBULON NC 27597-6871         23       2706012442       SILVER, RODERICK N       103 Nostalgia Ln       278000000000000000000000000000000000000	17	2706013095		102 Pearces Rd	
19   2706014107   LE, KHANH Q NGUYEN, NGOC N   106 Pearces Rd   RALEIGH NC 27604-5058     20   2706014224   CG ENTERPRISES OF NC LLC   108 Pearces Rd   1609 WHISPERING MEADOWS DR ZEBULON NC 27597-7367     21   2706016424   BUNN, DONNA GREEN GREEN, RICHARD ALLEN   204 Pearces Rd   603 BRANTLEYTOWN RD ZEBULON NC 27597-6021     22   2706012471   MANDAL, ABIR K   101 Nostalgia Ln   101 NOSTALGIA LN ZEBULON NC 27597-6871     23   2706012442   SILVER, RODERICK N   103 Nostalgia Ln   2EBULON NC 27597-6871     24   2706012423   HEMPHILL, ANDREW SCOTT   105 Nostalgia Ln   2EBULON NC 27597-6871     25   2706011494   WILSON, SHELIA COUNCIL   107 Nostalgia Ln   107 NOSTALGIA LN ZEBULON NC 27597-6871     26   2706011475   GILLEENY, RYAN GILLEENY, KYNDRA   109 Nostalgia Ln   2EBULON NC 27597-6871     27   2706011446   DAUPHINAIS, STEPHANIE DAUPHINAIS, PAUL B   111 Nostalgia Ln   2EBULON NC 27597-6871     28   2706011417   HARPER, MARTHA ANN   113 Nostalgia Ln   113 NOSTALGIA LN ZEBULON NC 27597-6871     28   2706011417   HARPER, MARTHA ANN   113 Nostalgia Ln ZEBULON NC 27597-6871	18	2706015099	CG ENTERPRISES OF NC LLC	301 Jones St	
20       2706014224       CG ENTERPRISES OF NC LLC       108 Pearces Rd       ZEBULON NC 27597-7367         21       2706016424       BUNN, DONNA GREEN GREEN, RICHARD ALLEN       204 Pearces Rd       603 BRANTLEYTOWN RD ZEBULON NC 27597-6021         22       2706012471       MANDAL, ABIR K       101 Nostalgia Ln       101 NOSTALGIA LN ZEBULON NC 27597-6871         23       2706012442       SILVER, RODERICK N       103 Nostalgia Ln       105 NOSTALGIA LN ZEBULON NC 27597-6871         24       2706012423       HEMPHILL, ANDREW SCOTT       105 Nostalgia Ln       25 NostalGIA LN ZEBULON NC 27597-6871         25       2706011494       WILSON, SHELIA COUNCIL       107 Nostalgia Ln       107 NOSTALGIA LN ZEBULON NC 27597-6871         26       2706011475       GILLEENY, RYAN GILLEENY, KYNDRA       109 Nostalgia Ln       109 NOSTALGIA LN ZEBULON NC 27597-6871         27       2706011446       DAUPHINAIS, STEPHANIE DAUPHINAIS, PAUL B       111 Nostalgia Ln       111 NOSTALGIA LN ZEBULON NC 27597-6871         28       2706011417       HARPER, MARTHA ANN       113 Nostalgia Ln       113 NOSTALGIA LN ZEBULON NC 27597-6871	19	2706014107	LE, KHANH Q NGUYEN, NGOC N	106 Pearces Rd	
2706016424   BUNN, DONNA GREEN GREEN, RICHARD ALLEN   204 Pearces Rd   ZEBULON NC 27597-6021	20	2706014224	CG ENTERPRISES OF NC LLC	108 Pearces Rd	
22 2706012471 MANDAL, ABIR K  101 Nostalgia Ln  ZEBULON NC 27597-6871  103 NOSTALGIA LN  ZEBULON NC 27597-6871  24 2706012423 HEMPHILL, ANDREW SCOTT  25 2706011494 WILSON, SHELIA COUNCIL  26 2706011475 GILLEENY, RYAN GILLEENY, KYNDRA  27 2706011446 DAUPHINAIS, STEPHANIE DAUPHINAIS, PAUL B  28 2706011417 HARPER, MARTHA ANN  101 Nostalgia Ln  ZEBULON NC 27597-6871  105 Nostalgia Ln  107 Nostalgia Ln  107 Nostalgia Ln  27 2706011494 DAUPHINAIS, STEPHANIE DAUPHINAIS, PAUL B  111 Nostalgia Ln  112 Nostalgia Ln  113 Nostalgia Ln  113 Nostalgia Ln  113 Nostalgia Ln  27 2706011417 HARPER, MARTHA ANN  113 Nostalgia Ln  ZEBULON NC 27597-6871	21	2706016424	BUNN, DONNA GREEN GREEN, RICHARD ALLEN	204 Pearces Rd	
23       2706012442       SILVER, RODERICK N       103 Nostalgia Ln       ZEBULON NC 27597-6871         24       2706012423       HEMPHILL, ANDREW SCOTT       105 Nostalgia Ln       105 NOSTALGIA LN ZEBULON NC 27597-6871         25       2706011494       WILSON, SHELIA COUNCIL       107 Nostalgia Ln       107 NOSTALGIA LN ZEBULON NC 27597-6871         26       2706011475       GILLEENY, RYAN GILLEENY, KYNDRA       109 Nostalgia Ln       109 NOSTALGIA LN ZEBULON NC 27597-6871         27       2706011446       DAUPHINAIS, STEPHANIE DAUPHINAIS, PAUL B       111 Nostalgia Ln       111 NOSTALGIA LN ZEBULON NC 27597-6871         28       2706011417       HARPER, MARTHA ANN       113 Nostalgia Ln       113 NOSTALGIA LN ZEBULON NC 27597-6871	22	2706012471	MANDAL, ABIR K	101 Nostalgia Ln	
24       2706012423       HEMPHILL, ANDREW SCOTT       105 Nostalgia Ln       ZEBULON NC 27597-6871         25       2706011494       WILSON, SHELIA COUNCIL       107 Nostalgia Ln       107 NOSTALGIA LN ZEBULON NC 27597-6871         26       2706011475       GILLEENY, RYAN GILLEENY, KYNDRA       109 Nostalgia Ln       109 NOSTALGIA LN ZEBULON NC 27597-6871         27       2706011446       DAUPHINAIS, STEPHANIE DAUPHINAIS, PAUL B       111 Nostalgia Ln       111 NOSTALGIA LN ZEBULON NC 27597-6871         28       2706011417       HARPER, MARTHA ANN       113 Nostalgia Ln       113 NOSTALGIA LN ZEBULON NC 27597-6871	23	2706012442	SILVER, RODERICK N	103 Nostalgia Ln	
25       2706011494       WILSON, SHELIA COUNCIL       107 Nostalgia Ln       ZEBULON NC 27597-6871         26       2706011475       GILLEENY, RYAN GILLEENY, KYNDRA       109 Nostalgia Ln       109 NOSTALGIA LN ZEBULON NC 27597-6871         27       2706011446       DAUPHINAIS, STEPHANIE DAUPHINAIS, PAUL B       111 Nostalgia Ln       111 NOSTALGIA LN ZEBULON NC 27597-6871         28       2706011417       HARPER, MARTHA ANN       113 Nostalgia Ln       113 NOSTALGIA LN ZEBULON NC 27597-6871	24	2706012423	HEMPHILL, ANDREW SCOTT	105 Nostalgia Ln	
26       2706011475       GILLEENY, RYAN GILLEENY, KYNDRA       109 Nostalgia Ln       ZEBULON NC 27597-6871         27       2706011446       DAUPHINAIS, STEPHANIE DAUPHINAIS, PAUL B       111 Nostalgia Ln       111 NOSTALGIA LN ZEBULON NC 27597-6871         28       2706011417       HARPER, MARTHA ANN       113 Nostalgia Ln       113 NOSTALGIA LN ZEBULON NC 27597-6871	25	2706011494	WILSON, SHELIA COUNCIL	107 Nostalgia Ln	
27       2706011446       DAUPHINAIS, STEPHANIE DAUPHINAIS, PAUL B       111 Nostalgia Ln       111 NOSTALGIA LN ZEBULON NC 27597-6871         28       2706011417       HARPER, MARTHA ANN       113 Nostalgia Ln       113 NOSTALGIA LN ZEBULON NC 27597-6871	26	2706011475	GILLEENY, RYAN GILLEENY, KYNDRA	109 Nostalgia Ln	
28         2706011417         HARPER, MARTHA ANN         113 Nostalgia Ln         113 NOSTALGIA LN ZEBULON NC 27597-6871	27	2706011446	DAUPHINAIS, STEPHANIE DAUPHINAIS, PAUL B	111 Nostalgia Ln	111 NOSTALGIA LN
	28	2706011417	HARPER, MARTHA ANN	113 Nostalgia Ln	113 NOSTALGIA LN
25 2700010025   ONDERTRIES, KAREN	29	2706010523	UNDERHILL, KAREN	201 Nostalgia Ln	Same as property address

30	2706010536	MOSS, KIMBERLY HOCUTT EXECUTOR THE ESTATE OF EVA D HOCUTT	203 Nostalgia Ln	10704 THORNBURY CREST CT
30	2700010550		203 NOStatgia Lii	RALEIGH NC 27614-7845
31	2706010548	BINDER, TINA H BINDER, MICHAEL I	205 Nostalgia Ln	Same as property address
32	2706010651	SCHILLING, DOMENICK CAIN, LORI	207 Nostalgia Ln	Same as property address
33	2706010666	MACHACEK, JOHN D MACHACEK, ELLEN G	209 Nostalgia Ln	Same as property address
34	2706010679	KUHN, GERALD G KUHN, YARITZA	211 Nostalgia Ln	Same as property address
35	2706010781	BLACKWELL, EMILY	213 Nostalgia Ln	Same as property address
20	2700011570	DEDUDE TAD ADTILLD	200 Neetalgie I n	8721 ZEIGLER DR
30	2706011576	BERUBE, TAD ARTHUR	300 Nostalgia Ln	KNIGHTDALE NC 27545-7466
37	2706012518	GUEVARA, BETHANN M	304 Nostalgia Ln	Same as property address
38	2706012536	CARAPELLE, BEVERLY L	106 Nostalgia Ln	Same as property address
20	2700012555	EGGIMANN, PETER EGGIMANN, DEVERA	104 Neetalgie I n	PO BOX 1629
39	2706012555		104 Nostalgia Ln	WENDELL NC 27591-1629
40	2700012504	WHITE, AMESHA	100 Nectolais I n	102 NOSTALGIA LN
40	2706012584		102 Nostalgia Ln	ZEBULON NC 27597-6870
44	0700040540	SPELLER, JULIAN THOMAS TRUSTEE SPELLER, BRENDA	400 No staleia I is	106 E LEE ST
41	11 2706013513	AYERS TRUSTEE	100 Nostalgia Ln	ZEBULON NC 27597-2426
42	2706013519	INGRAM, BIELCA INGRAM, WILLIAM	308 Nostalgia Ln	Same as property address
43	2706013622	PAUL, BETTY	311 Nostalgia Ln	Same as property address
44	1796917959	WAKEFIELD CENTRAL BAPTIST CHURCH	308 Proctor St	Same as property address
45	1706016670	DI FAMILY TRUCT	1512 N Arendell Ave	1188 COCO PALMS DR
45	1796916679	BL FAMILY TRUST	1512 IN ATERIOEIL AVE	EL CAJON CA 92020-7873



## NEIGHBORHOOD MEETING SIGN-IN SHEET:

This document is a public record under the North Carolina Public Records Act and may be published on the Town's website or disclosed to third parties.

Project Name: Meeting Address:	Sheetz 416 Zebulon Zebulon community center; 301 S Arendell Ave, Zebulon, NC 279
Date of Meeting:	Thursday, April 17, 2025 Time of Meeting: 6:00-8:00 PM
Property Owner(s)	Names: Olde Heritage Properties LLC
Applicants: Sh	cetz, inc.
	me below, state your address and/or affiliation with a neighborhood group, and provide your phone ddress. Providing your name below does not represent support or opposition to the project; it is for ooses only.

	Name/ Organization	Address	Phone#	E-mail
1	Tine & Miko Binder	205 Nosalaia La	919-604-856	2 Hobmibegman .con
2	,			<u> </u>
3	DOMENICK SCHILLING	Zebulon, LC 207 NOSTALGIA LN	919.413.7600	DSCHILLING @ NC. RR. con
4	Karen Underhill	201 11.	1 219-9516	undertilkgne @ and . con
5	Roderick Silver	103 Nosfelgin LN	252-883-0646	Nea 13962 hotmail.com
6	Byan Hicks	1212 Wicker Fr. Paley	919-832-2726	bhicks@wakeabc.com
7	Loricain	207 Nostalgiala	919-449-5	263
8	Stephanie Dauphinais	111 NostAlsia LN	9104704131	dauphinaiss @ bellsouth, Net
9	JOE MORE	10ch Maspaces Co	(8281553-918	dhemp 0327 Ogmail. com
10	Drew Hemphill	105 Nostalaia Cn	919-215-4811	dhomp 0327 Qamail. com
11	,	<i>J. J. J.</i>		,
12				
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Attach Additional Sheets If Necessary.

Name: Dri Cain Attachment 2 PED 2002 En Obe: Suntanvalent ne @ yahoo. Com
comment/Question: gas tanks on backside of property too close to the water on Neighborhood; tall barrier wall betwee backside + neighborhood; increased noise due to 24hr pickup window; decreased property values of wateron
Name: DOMENICK SCHILLING
Email/Phone: DSCHILLING @ NC, RR. COM 919.413.7600
Comment/Question: CONCERNS: NOISE! TRAFFIC! LIGHT!
CONCRETE BARRIER BETWEEN US ! SHEET & Please
Name: Karen Underhill  Email/Phone: Underhill  Regne @ not com 919-219-9516  Comment/Question: brush + debres new towntones people Culling through  treffic a Peaces in a victor tight treat in perking lot mosty, moreog.  Trove outdoor peating away from towntones
Name: Roderch Silver  Email/Phone: Neal 3960 hotmail.com 252-883-0646  Comment/Question: Bild Sound Barrier Wall between Store & town hames

AMERICA MERCAN
PD 2025-05e: Suntanvalentine c y hoo. com
comment/Question: Nothing good will come out I this Project; most disgusting sheets in wake to Lots & changer need to be done as addressed by nomework
tots & changer need to be done as addressed by noncount
Name: Tina Binder
Email / Phone: 919-604-8562
Comment/Question: Traffic, Sidewalks, Noise, Small,
More Air Tanks. More Picnic Tables, Turn ground fratty in
Townhomes is high + the Road wear & tear is Pard Dy homeowners
its a Private Rd.
Name: Bujan Hicks (Wake County ABC)
Email/Phone: bhicks @ wakeabc.com 919-832-2726
Comment/Question:
Concen exists on (1) the Wake ABC dumpster as it appears access is lost
from the Sheetz property. We are good transitioning to the gallon carts it
Town permits and (2) notification of any changes to access to our
property (ugress/egress) as a cross access agreement exists. (3) out of Statement
Commentiquestion:  Concen exists on (1) the Wake ABC drypster as it appears access is lost from the Sheetz property. We are good transitioning to the gallon carts of Town permits, and (2) notification of any changes to access to our property (ingress/egress) as a cross access agreement exists. (3) out of Statement from Neyhbors, wake ABC is fine having the air pumps along our property.

Jordan Brever and Mutt Gross rule! And they didn't pay me to say that.

#### Attachment 2 PD 2025-05

### Timothy, Heather

From: A Harper <nnhrpr3@gmail.com>
Sent: Wednesday, April 16, 2025 10:21 PM
To: kbrown@sheetz.com; Timothy, Heather
Subject: Sheetz Redevelopment Zebulon NC

Attachments: Sheetz Redevelopment.docx

Categories: External

You don't often get email from nnhrpr3@gmail.com. Learn why this is important

M. Ann Harper 113 Nostalgia Ln, Zebulon, NC 27597 nnhrpr3@gmail.com 919.333.5898 Olde Heritage Properties LLC

Sheetz, Inc.

Kimley-Horn and Associates, Inc. on Behalf of Sheetz, Inc.

#### To Whom it May Concern:

I'm writing to express my concerns of the proposed redevelopment of the Sheetz located on Arendell Ave. and Pearce Rd. in Zebulon NC.

(1) Safety & Privacy: My property, (113 Nostalgia Ln) sits directly behind and in between the car wash and the ABC store. Non-residents of Wakelon Townhomes have now made a path thru the woods adjacent to my property to gain access to the Sheetz. This has become very alarming and a safety concern.

Solution: A <u>concrete</u> divider wall to limit pedestrian traffic of non-residents.

(2) Noise: The proposed redevelopment would significantly increase the already <u>high volume</u> of noise. Increased construction noise during the development process could disrupt our daily living and privacy.

Solution: A concrete divider wall that will absorb some of the noise. Limit the hours of operation, particularly for the food pickup window.

(3) Increased Traffic: The proposed redevelopment would also drastically increase the already congested area.

Solution: Close the entrance on Pearce Rd. and add a second entrance on Arendell Ave. Widen Pearce's Rd. and add turn lanes to accommodate the increase of traffic.

Thank you for taking the time to review my concerns. I hope you consider the potential implications of this redevelopment.

Sincerely,

M. Ann Harper

113 Nostalgia Ln

Zebulon NC 27597

#### Attachment 2 PD 2025-05

#### Timothy, Heather

From: Wakelon Townhomes <wakelonhoa@gmail.com>

Sent: Friday, April 18, 2025 10:28 AM

To: Timothy, Heather

Subject: Wakelon Townhomes Community Feedback for Sheetz Redevelopment Plan

Categories: External

You don't often get email from wakelonhoa@gmail.com. Learn why this is important

Hello Heather -

Thanks to Chris, Tom and yourself for presenting the initial plans for the Sheetz demolition and rebuild to some of the residents here at Wakelon Townhomes in Zebulon last night. It was very helpful, and I hope that we can put together a plan that will be satisfactory to everyone.

Below I've pasted my email to our residents, and two responses received that you can add to your community feedback. I didn't simply forward the whole chain since there is a lot of extraneous stuff that would just clog up your email (out of office replies, undeliverable addresses etc.).

The responses were from Gina Pace of 305 Nostalgia Ln and Courtney Parker West of 301 Nostalgia Ln. Let me know if you need any other information.

Sincerely,

Domenick Schilling President, Wakelon Townhomes HOA 207 Nostalgia Ln

------

Hello All -

Everyone should have received the notice regarding the changes at the Sheetz station. PLEASE READ IT! There are plans to demolish the Sheetz station and rebuild it with more pumps and α drive-thru pick up window. This means more traffic and more noise and more people cutting through the neighborhood or using it as α turn around.

There will be a meeting on Thursday 4/17 from 6:00pm - 8:00pm to ask questions and express concerns. You can just stop in anytime, you don't need to be there right at 6:00 or stay for the entire time. Please make plans to go if at all possible.

### Some ideas I thought about:

- 1. A concrete divider wall (not a landscape buffer) between Wakelon Townhomes and Sheetz.
- 2. Close off the entrance to Sheetz from Pearces Rd and add another entrance from Arendell Ave.
- 3. Widen Pearces Rd and add turn lanes to accommodate the increased # of cars trying to get in and out of Sheetz.
- 4. Limit the hours of operation, particularly for the food pick up window.

Attachment 2 PD 2025-05

We need as many residents as possible to show up on Thursday and make our voices heard!

If you have more questions or did not receive the notice, please let me know. I hope to see everyone at the meeting Thursday evening.

Sincerely,			
Domenick			
 Hey Domenick!			

I am unable to make the meeting since I am out of state BUT I wanted to add a suggestion to your list, expanding on some of your ideas.

They would DEFINITELY need to close off the entrance to Pearce's Rd. or only make it accessible for vehicles coming toward Arendell (like an entrance for cars that are turning right only but requiring them to exit at a new stop light, SPECIFICALLY to enter and exit Sheetz. They could make their new stop light further down the road and mimic the one down in Nashville with turning lanes and a longer driveway.

That's all I can think of at the moment.. This has got my brain scrambled! I love your ideas and appreciate you fighting for our little community!

Thanks so much!	

I cannot make it tonight, but I cosign the suggestions above. Please keep those of us unable to attend informed on how it goes! Thank you for representing community interests.

Best,

Courtney



### SUMMARY OF DISCUSSION FROM THE NEIGHBORHOOD MEETING

This document is a public record under the North Carolina Public Records Act and may be published on the Town's website or disclosed to third

Project Name: 416 SHEETZ ZEBULON
Meeting Address: ZEBULON COMMUNITY CENTER; 301 S ARENDELL AVE, ZEBULON, NC 27597
Date of Meeting: THURSDAY, APRIL 17, 2025 Time of Meeting: 6:00 - 8:00 PN
Property Owner(s) Names: OLDE HERITAGE PROPERTIES LLC
Applicants: KIMLEY-HORN AND ASSOCIATES, INC. ON BEHALF OF SHEETZ, INC.
Please summarize the questions/comments and your response from the Neighborhood Meeting in the spaces below (attach additional sheets, if necessary). Please state if/how the project has been modified in response to any concerns. The response should not be "Noted" or "No Response". There has to be documentation of what consideration the neighbor's concern was given and justification for why no change was deemed warranted.
Question/ Concern #1 NOISE
Applicant Response:
SHEETZ WILL IMPLEMENT A NOISE BARRIER FENCE ALONG THE PROPERTY LINE THAT IS ADJACENT TO THE NEIGHBORHOOD. SHEETZ WILL ALSO RELOCATE ONE OF THE AIR MACHINES TO THE OPPOSITE SIDE OF THE SITE AS WELL AS THEIR DUMPSTER. THE ABC DUMPSTER MUST REMAIN AS-IS DUE TO DELIVERIES (ONCE A MONTH). THE PICK-UP WINDOW WILL NOT HAVE ANY SPEAKERS.
Question/ Concern #2 _ CUT THROUGH - THE NEIGHBORS ARE CONCERNED WITH PEOPLE WALKING THROUGH THE NEIGHBORHOOD TO GO TO SHEETZ.
Applicant Response:
THE NOISE BARRIER FENCE WILL ALSO HELP LIMIT PEOPLE CUTTING THROUGH THE NEIGHBORHOOD TO GO TO SHEETZ.
TRAFFIC - THE NEIGHBORS ARE CONCERNED WITH VEHICLES BLOCKING THEIR Question/ Concern #3 ACCESS POINT, SHEETZ CUSTOMERS COMING INTO THEIR NEIGHBORHOOD TO TURNAROUND SO THEY CAN MAKE A RIGHT INTO THE SHEETZ, AND ONLY 1 LEFT TURN LANE AT THE INTERSECTION.
Applicant Response:
SHEETZ UNDERSTANDS THAT THE TOWN HAS PLANS TO IMPROVE THE ROAD ADJACENT TO THE SITE. THE NEIGHBORS HAVE BEEN AWARE OF THESE FUTURE PLANS. RECENT SIGNAL TIMING UPDATES HAVE BEEN IMPLEMENTED PER NCDOT CONFIRMATION WHICH WILL HELP THE CONGESTION. SHEETZ IS PROPOSING TO ADD A "DO NOT BLOCK INTERSECTION" SIGN. KIMLEY-HORN HAS CONFIRMED WITH NCDOT THAT THE EXISITNG MEDIAN ALONG NC 96 CANNOT BE CUT TO ALLOW VEHICLES TO MAKE A LEFT INTO THE SHEETZ FROM NC 96.
Question/ Concern #4 FUEL DISPENSER LOCATION AND UNDERGROUND STORAGE TANKS
Applicant Response:
THE NEW ORIENTATION OF THE BUILDING AND FUEL PUMPS ARE TO COMPLY WITH CURRENT CODE, UDO 4.3.5.O.A "PUMP ISLANDS MAY NOT BE LOCATED BETWEEN A BUILDING AND ANY ADJACENT STREET RIGHTS-OF-WAY " SHEETZ WILL USE THEIR NEWEST TECHNOLOGY AND STANDARDS OF UNDERGROUND

STORAGE TANKS. THE APOR RECOVERY SYSTEMS WILL BE IMPLEMENTED WHICH WILL HELP LIMIT ANY

POTENTIAL SMELL FROM THE FUEL.



#### **APPLICANT RESPONSE:**

SHEETZ IS IMPLEMENTING THEIR NEWEST TECHNOLOGY AND STANDARDS OF LIGHTING DESIGN WHICH WILL HELP LIGHT POLLUTION AND LIMIT LIGHTING TO JUST THE SHEETZ SITE.

## QUESTION/CONCERN #6:

CONSTRUCTION

#### **APPLICANT RESPONSE:**

SHEETZ HAS COMPLETED SEVERAL SIMILAR REBUILD PROJECTS. THEY LOOK TO SHORTEN THE CONSTRUCTION SCHEDULE AS MUCH AS POSSIBLE.

#### QUESTION/CONCERN #7:

PICK-UP WINDOW

#### APPLICANT RESPONSE:

THE PICK-UP WINDOW WILL OPERATE 24/7 PER SHEETZ STANDARDS WITH PROVIDING CONVENIENCE FOR THE CUSTOMERS. THERE WILL BE NO SPEAKER ASSOCIATED WITH THE PICK-UP WINDOW.



Christocher D. Brotic

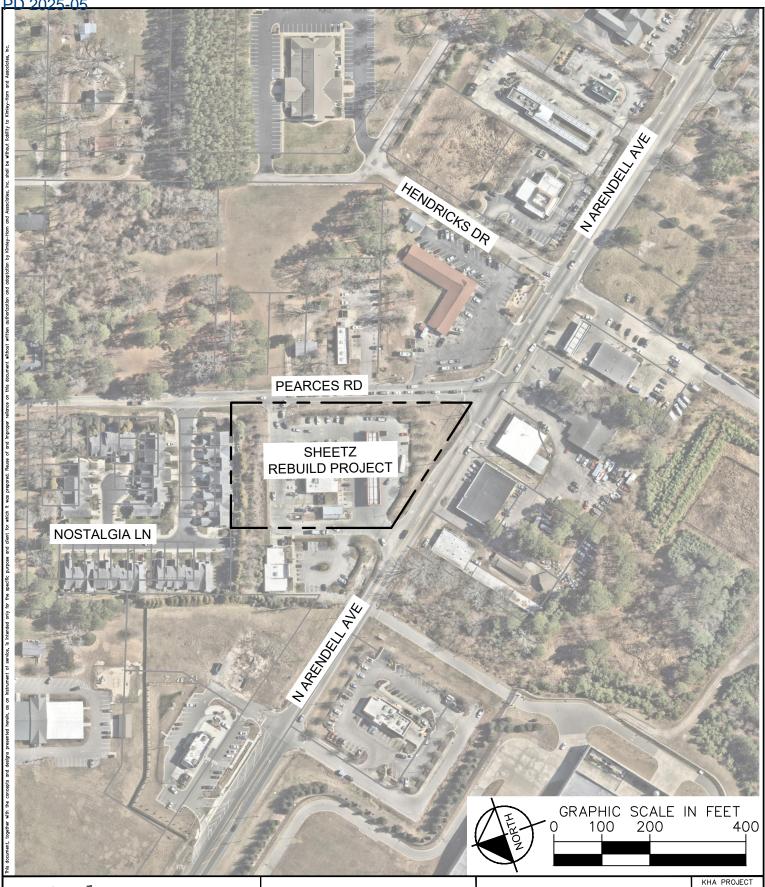
## INFORMATION PACKET FOR **NEIGHBORHOOD MEETINGS**

## AFFIDAVIT OF CONDUCTING A NEIGHBORHOOD MEETING, SIGN-IN SHEET AND ISSUES/RESPONSES SUBMITTAL

This document is a public record under the North Carolina Public Records Act and may be published on the Town's website or disclosed to third

I, Christopher O. Bostic , do hereby declare as follows:  Print Name
1. I have conducted a Neighborhood Meeting for the proposed Rezoning, Major Site Plan, Master Subdivision Plan, or Special Use Permit.
2. The meeting invitations were mailed to the Zebulon Planning Department, all property owners within 300 feet of the subject property and any neighborhood association that represents citizens in the area via first class mail a minimum of 10 days in advance of the Neighborhood Meeting.
3. The meeting was conducted at 30\ 8. Arendall Ave, Leaden NC(location/address) on
4. I have included the mailing list, meeting invitation, sign-in sheet, issue/response summary, and zoning map/reduced plans with the application.
5. I have prepared these materials in good faith and to the best of my ability.  Date  By:
STATE OF North Carolina COUNTY OF Wake
Sworn and subscribed before me,, a Notary Public for the above State and County, on this the, and, and, a Notary Public for the above State and County, on this the, and, and, and, and
SEAL MICHARLE Notary Public County And County Public
Tracie L. Jacobs Print Name
My Commission Expires:

Attachment 2 PD 2025-05





**VICINITY MAP** 

**SHEETZ** 1406 N ARENDELL AVE KHA PROJECT 110529004

DATE 04/03/2025 SCALE AS SHOWN

CHECKED BY

Attachment 2





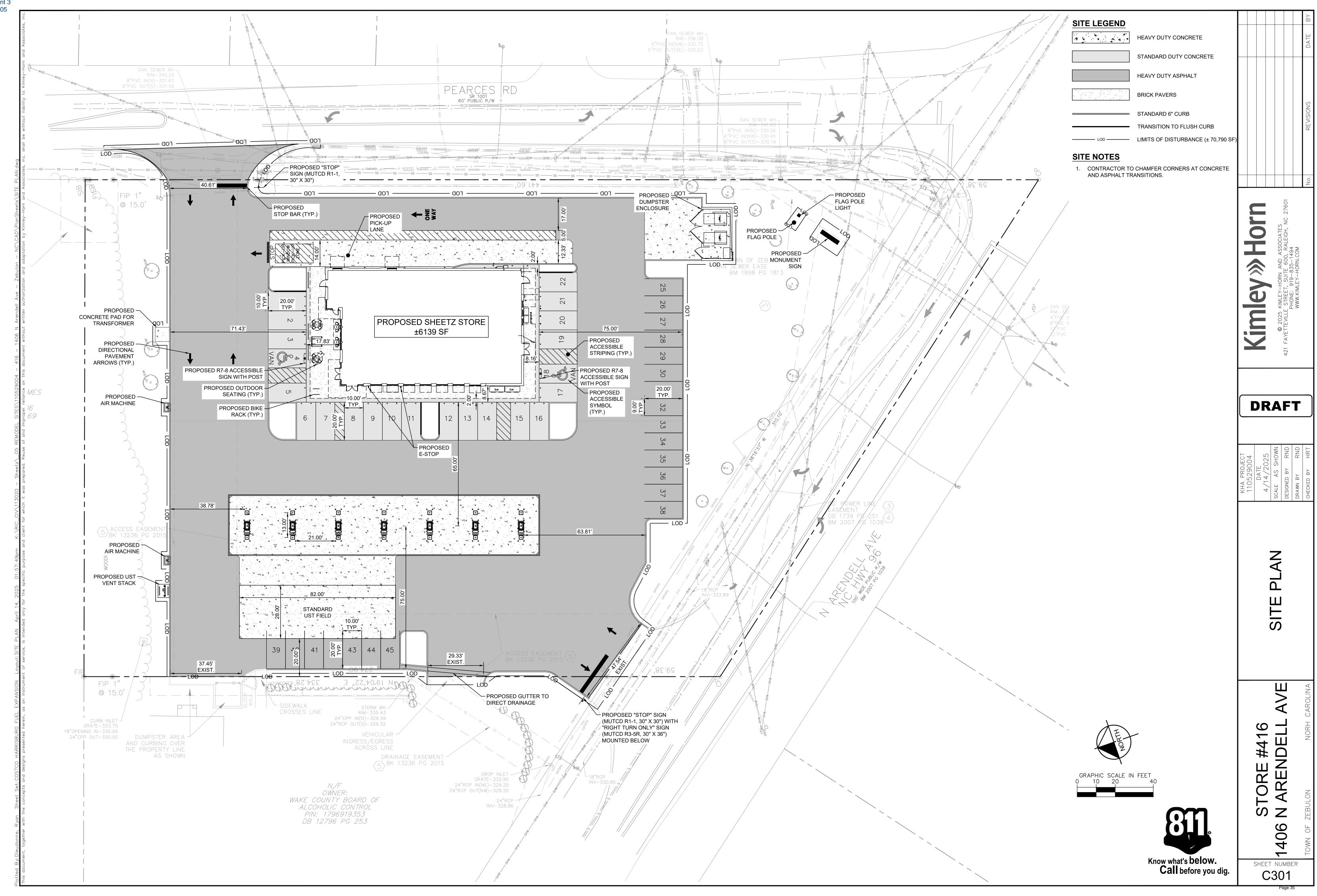
**VICINITY MAP** 

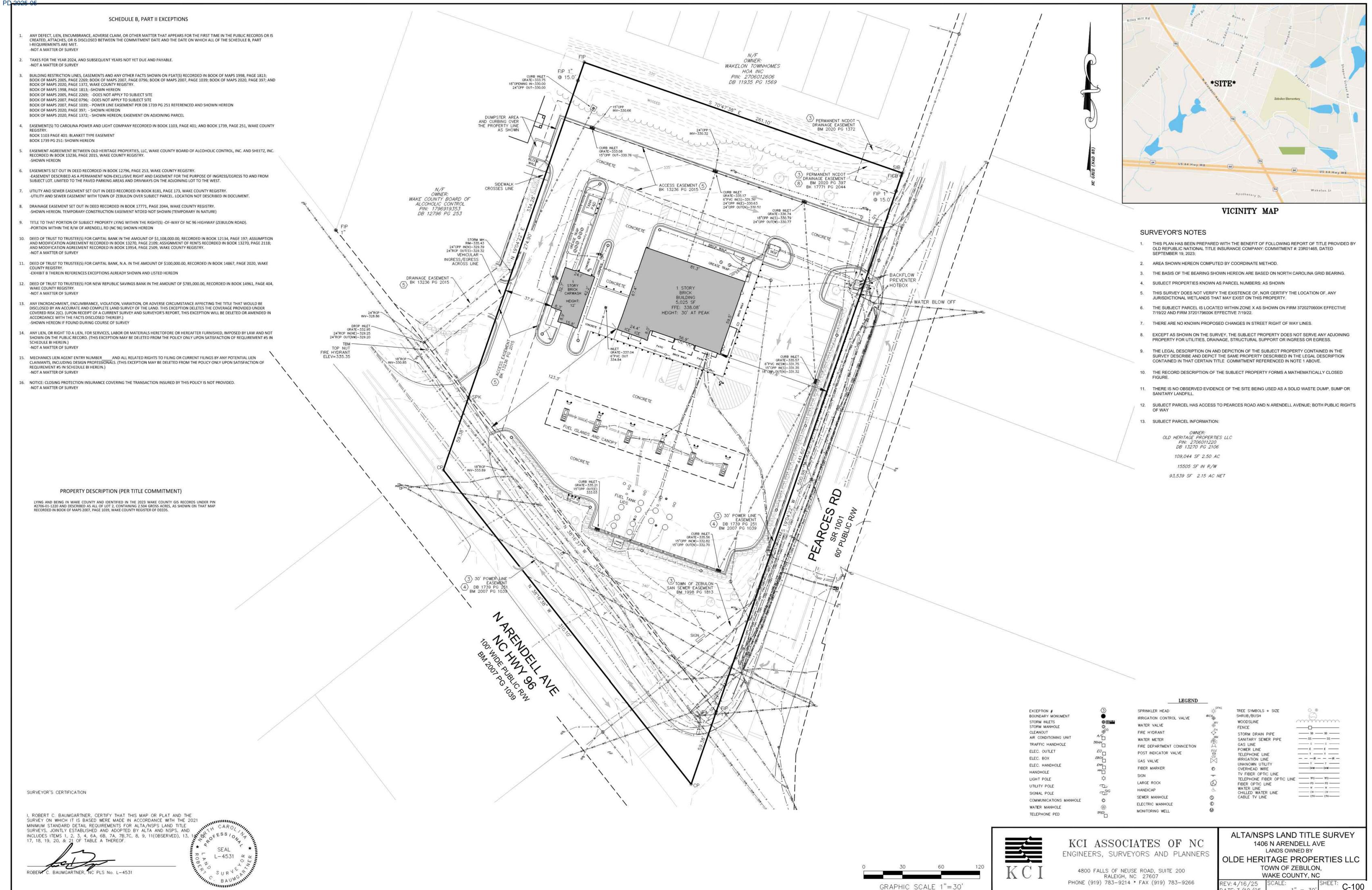
**SHEETZ** 1406 N ARENDELL AVE KHA PROJECT 110529004

DATE 04/03/2025 SCALE AS SHOWN

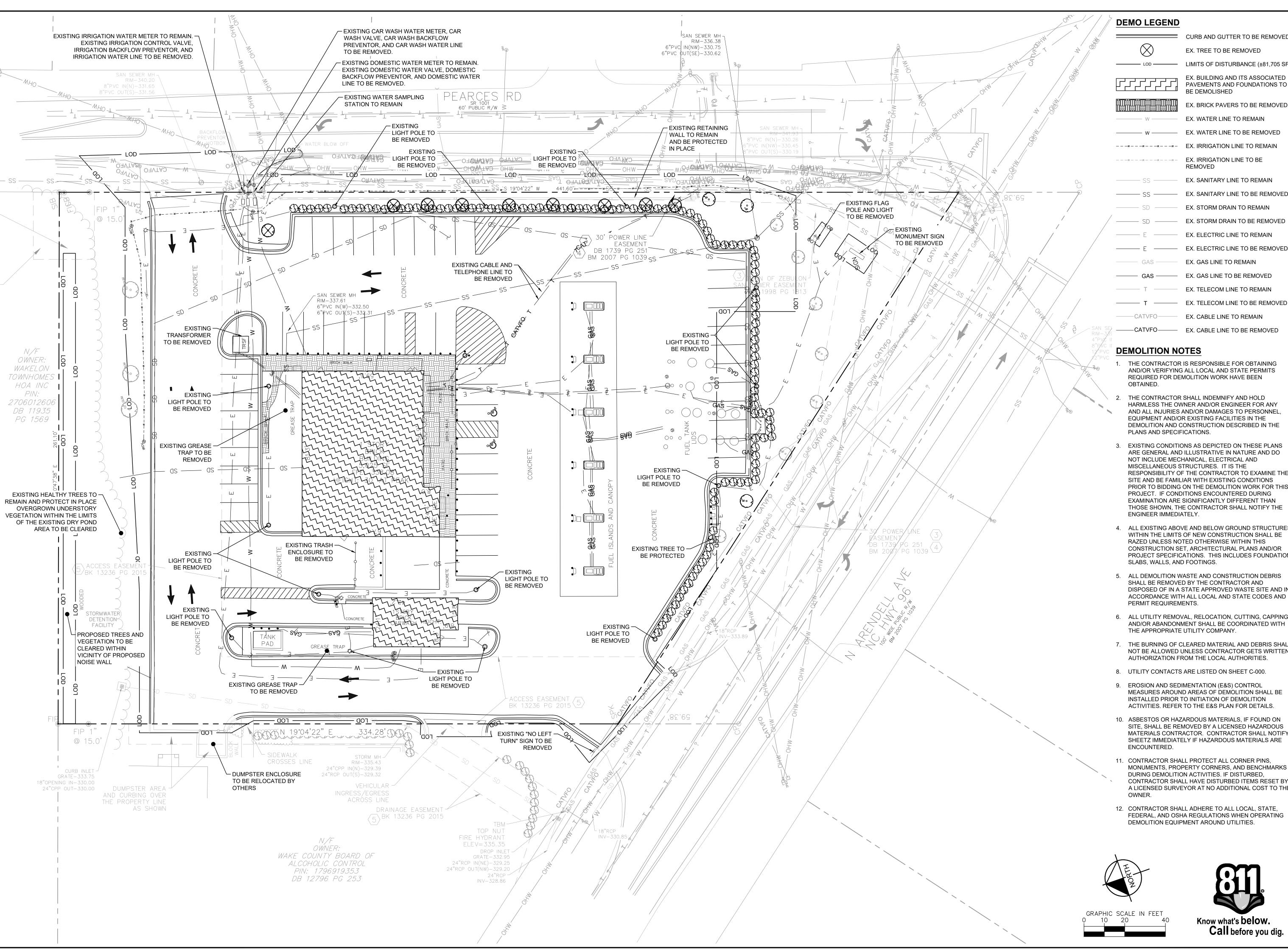
DESIGNED BY DRAWN BY

CHECKED BY





Page 36



CURB AND GUTTER TO BE REMOVED

EX. TREE TO BE REMOVED

LIMITS OF DISTURBANCE (±81,705 SF)

EX. BUILDING AND ITS ASSOCIATED

PAVEMENTS AND FOUNDATIONS TO BE DEMOLISHED

EX. BRICK PAVERS TO BE REMOVED

EX. WATER LINE TO REMAIN

----- EX. IRRIGATION LINE TO REMAIN

EX. IRRIGATION LINE TO BE

EX. SANITARY LINE TO REMAIN

——— EX. SANITARY LINE TO BE REMOVED

EX. STORM DRAIN TO REMAIN

EX. STORM DRAIN TO BE REMOVED

EX. ELECTRIC LINE TO REMAIN

EX. GAS LINE TO REMAIN

EX. GAS LINE TO BE REMOVED

EX. TELECOM LINE TO REMAIN

———CATVFO——— EX. CABLE LINE TO BE REMOVED

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND/OR VERIFYING ALL LOCAL AND STATE PERMITS REQUIRED FOR DEMOLITION WORK HAVE BEEN
- THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND/OR ENGINEER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES IN THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE
- EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE AND DO NOT INCLUDE MECHANICAL, ELECTRICAL AND MISCELLANEOUS STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE TH SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THE DEMOLITION WORK FOR THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE
- 4. ALL EXISTING ABOVE AND BELOW GROUND STRUCTURES WITHIN THE LIMITS OF NEW CONSTRUCTION SHALL BE RAZED UNLESS NOTED OTHERWISE WITHIN THIS CONSTRUCTION SET, ARCHITECTURAL PLANS AND/OR PROJECT SPECIFICATIONS. THIS INCLUDES FOUNDATION SLABS, WALLS, AND FOOTINGS.
- 5. ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND
- 6. ALL UTILITY REMOVAL, RELOCATION, CUTTING, CAPPING AND/OR ABANDONMENT SHALL BE COORDINATED WITH
- 7. THE BURNING OF CLEARED MATERIAL AND DEBRIS SHAL NOT BE ALLOWED UNLESS CONTRACTOR GETS WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITIES.
- 8. UTILITY CONTACTS ARE LISTED ON SHEET C-000.
- 9. EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES AROUND AREAS OF DEMOLITION SHALL BE INSTALLED PRIOR TO INITIATION OF DEMOLITION ACTIVITIES. REFER TO THE E&S PLAN FOR DETAILS.
- 10. ASBESTOS OR HAZARDOUS MATERIALS, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY SHEETZ IMMEDIATELY IF HAZARDOUS MATERIALS ARE
- 11. CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS, AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE
- 12. CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL, AND OSHA REGULATIONS WHEN OPERATING DEMOLITION EQUIPMENT AROUND UTILITIES.



Call before you dig.

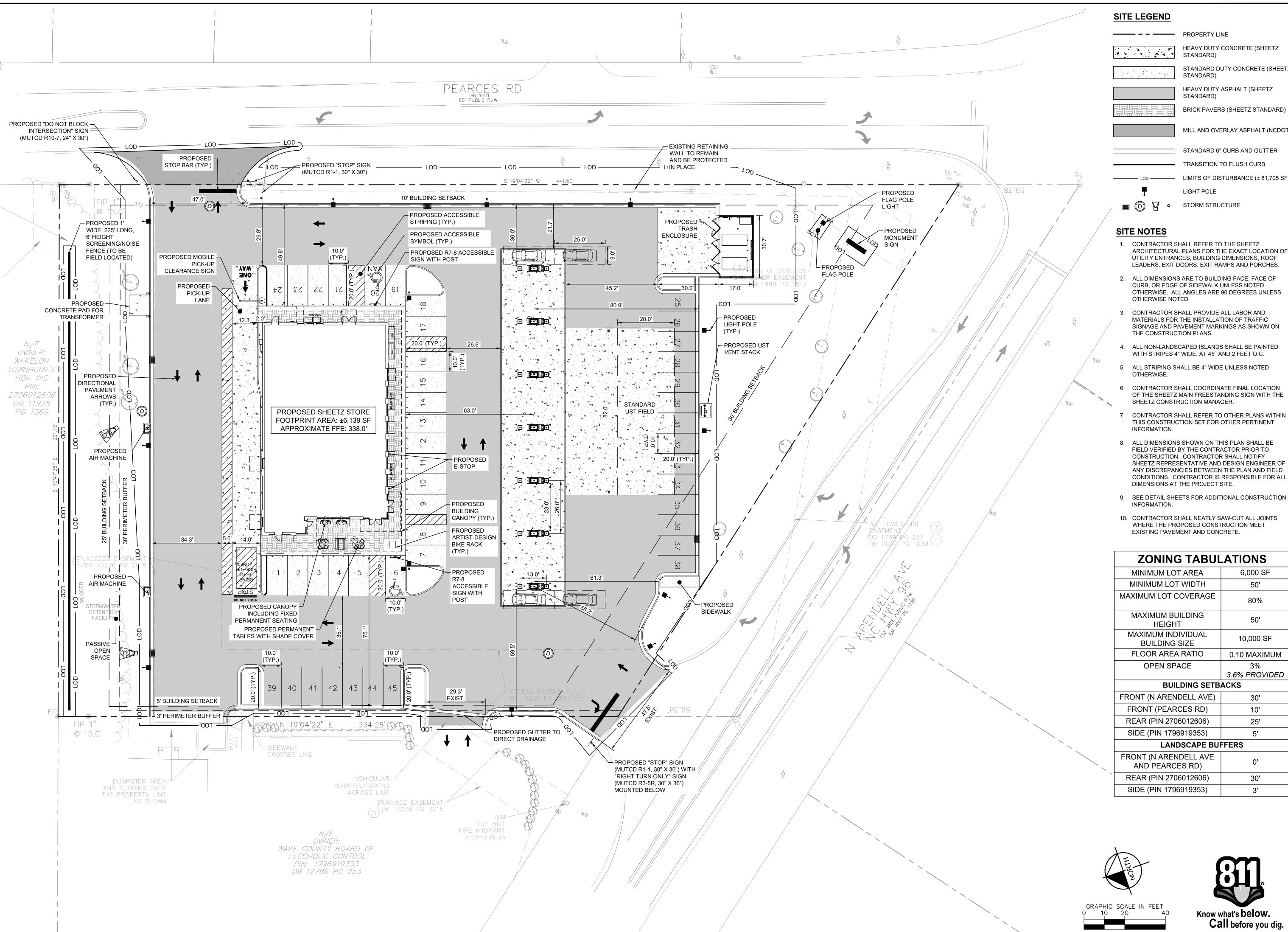
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C-110

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**NOT FOR** 

CONSTRUCTION



STANDARD DUTY CONCRETE (SHEETZ STANDARD)

HEAVY DUTY ASPHALT (SHEETZ STANDARD)

MILL AND OVERLAY ASPHALT (NCDOT)

STANDARD 6" CURB AND GUTTER

TRANSITION TO FLUSH CURB — LOD ———— LIMITS OF DISTURBANCE (± 81,705 SF)

LIGHT POLE

- CONTRACTOR SHALL REFER TO THE SHEETZ ARCHITECTURAL PLANS FOR THE EXACT LOCATION OF UTILITY ENTRANCES, BUILDING DIMENSIONS, ROOF LEADERS, EXIT DOORS, EXIT RAMPS AND PORCHES.
- 2. ALL DIMENSIONS ARE TO BUILDING FACE, FACE OF CURB, OR EDGE OF SIDEWALK UNLESS NOTED OTHERWISE. ALL ANGLES ARE 90 DEGREES UNLESS
- 3. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS FOR THE INSTALLATION OF TRAFFIC SIGNAGE AND PAVEMENT MARKINGS AS SHOWN ON THE CONSTRUCTION PLANS.
- WITH STRIPES 4" WIDE, AT 45° AND 2 FEET O.C.

NOT FOR

CONSTRUCTION

SITE

- 5. ALL STRIPING SHALL BE 4" WIDE UNLESS NOTED
- 6. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF THE SHEETZ MAIN FREESTANDING SIGN WITH THE SHEETZ CONSTRUCTION MANAGER.
- 7. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT
- 8. ALL DIMENSIONS SHOWN ON THIS PLAN SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY SHEETZ REPRESENTATIVE AND DESIGN ENGINEER OF ANY DISCREPANCIES BETWEEN THE PLAN AND FIELD CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS AT THE PROJECT SITE.
- 9. SEE DETAIL SHEETS FOR ADDITIONAL CONSTRUCTION
- 10. CONTRACTOR SHALL NEATLY SAW-CUT ALL JOINTS WHERE THE PROPOSED CONSTRUCTION MEET

ZONING TABULATIONS								
MINIMUM LOT AREA	6,000 SF							
MINIMUM LOT WIDTH	50'							
MAXIMUM LOT COVERAGE 80%								
MAXIMUM BUILDING HEIGHT	50'							
MAXIMUM INDIVIDUAL BUILDING SIZE	10,000 SF							
FLOOR AREA RATIO 0.10 MAXIMUI								
OPEN SPACE	3% 3.6% PROVIDED							
	- 0170							

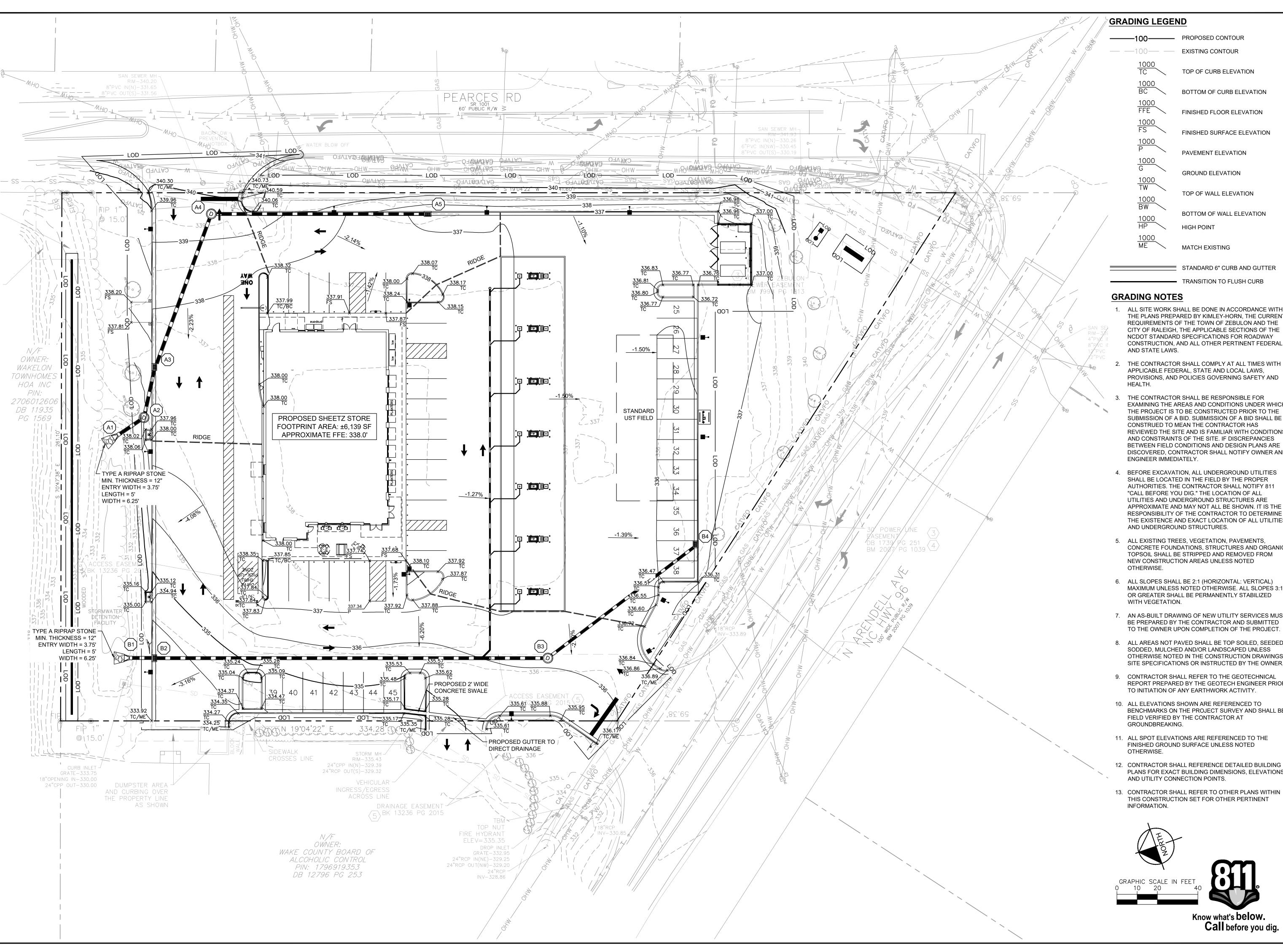
	0.0,0								
BUILDING SETBACKS									
FRONT (N ARENDELL AVE)	30'								
FRONT (PEARCES RD)	10'								
REAR (PIN 2706012606)	25'								
SIDE (PIN 1796919353)	5'								
LANDSCAPE BUFFERS									

SIDE (PIN 1796919353)	5'							
LANDSCAPE BUFFERS								
FRONT (N ARENDELL AVE AND PEARCES RD)	0'							
REAR (PIN 2706012606)	30'							
SIDE (PIN 1796919353)	3'							



ARENDE S Z 406  $\overline{\phantom{a}}$ SHEET NUMBER

C-200



——100—— PROPOSED CONTOUR

TOP OF CURB ELEVATION

FINISHED SURFACE ELEVATION

PAVEMENT ELEVATION

GROUND ELEVATION

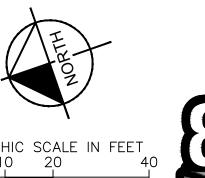
TOP OF WALL ELEVATION

BOTTOM OF WALL ELEVATION

TRANSITION TO FLUSH CURB

THE PLANS PREPARED BY KIMLEY-HORN. THE CURRENT REQUIREMENTS OF THE TOWN OF ZEBULON AND THE CITY OF RALEIGH, THE APPLICABLE SECTIONS OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION, AND ALL OTHER PERTINENT FEDERAL

- 2. THE CONTRACTOR SHALL COMPLY AT ALL TIMES WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, PROVISIONS, AND POLICIES GOVERNING SAFETY AND
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR **EXAMINING THE AREAS AND CONDITIONS UNDER WHICH** THE PROJECT IS TO BE CONSTRUCTED PRIOR TO THE SUBMISSION OF A BID. SUBMISSION OF A BID SHALL BE CONSTRUED TO MEAN THE CONTRACTOR HAS REVIEWED THE SITE AND IS FAMILIAR WITH CONDITIONS AND CONSTRAINTS OF THE SITE. IF DISCREPANCIES BETWEEN FIELD CONDITIONS AND DESIGN PLANS ARE DISCOVERED, CONTRACTOR SHALL NOTIFY OWNER AND
- 4. BEFORE EXCAVATION, ALL UNDERGROUND UTILITIES SHALL BE LOCATED IN THE FIELD BY THE PROPER AUTHORITIES. THE CONTRACTOR SHALL NOTIFY 811 "CALL BEFORE YOU DIG." THE LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES ARE APPROXIMATE AND MAY NOT ALL BE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND EXACT LOCATION OF ALL UTILITIES
- 5. ALL EXISTING TREES, VEGETATION, PAVEMENTS, CONCRETE FOUNDATIONS, STRUCTURES AND ORGANIC TOPSOIL SHALL BE STRIPPED AND REMOVED FROM NEW CONSTRUCTION AREAS UNLESS NOTED
- 6. ALL SLOPES SHALL BE 2:1 (HORIZONTAL: VERTICAL) MAXIMUM UNLESS NOTED OTHERWISE. ALL SLOPES 3:1 OR GREATER SHALL BE PERMANENTLY STABILIZED
- 7. AN AS-BUILT DRAWING OF NEW UTILITY SERVICES MUST BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE OWNER UPON COMPLETION OF THE PROJECT.
- 8. ALL AREAS NOT PAVED SHALL BE TOP SOILED, SEEDED SODDED, MULCHED AND/OR LANDSCAPED UNLESS OTHERWISE NOTED IN THE CONSTRUCTION DRAWINGS SITE SPECIFICATIONS OR INSTRUCTED BY THE OWNER.
- 9. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT PREPARED BY THE GEOTECH ENGINEER PRIOF TO INITIATION OF ANY EARTHWORK ACTIVITY.
- 10. ALL ELEVATIONS SHOWN ARE REFERENCED TO BENCHMARKS ON THE PROJECT SURVEY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AT
- 11. ALL SPOT ELEVATIONS ARE REFERENCED TO THE FINISHED GROUND SURFACE UNLESS NOTED
- PLANS FOR EXACT BUILDING DIMENSIONS, ELEVATIONS, AND UTILITY CONNECTION POINTS.
- 13. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT



Know what's below.

Call before you dig.

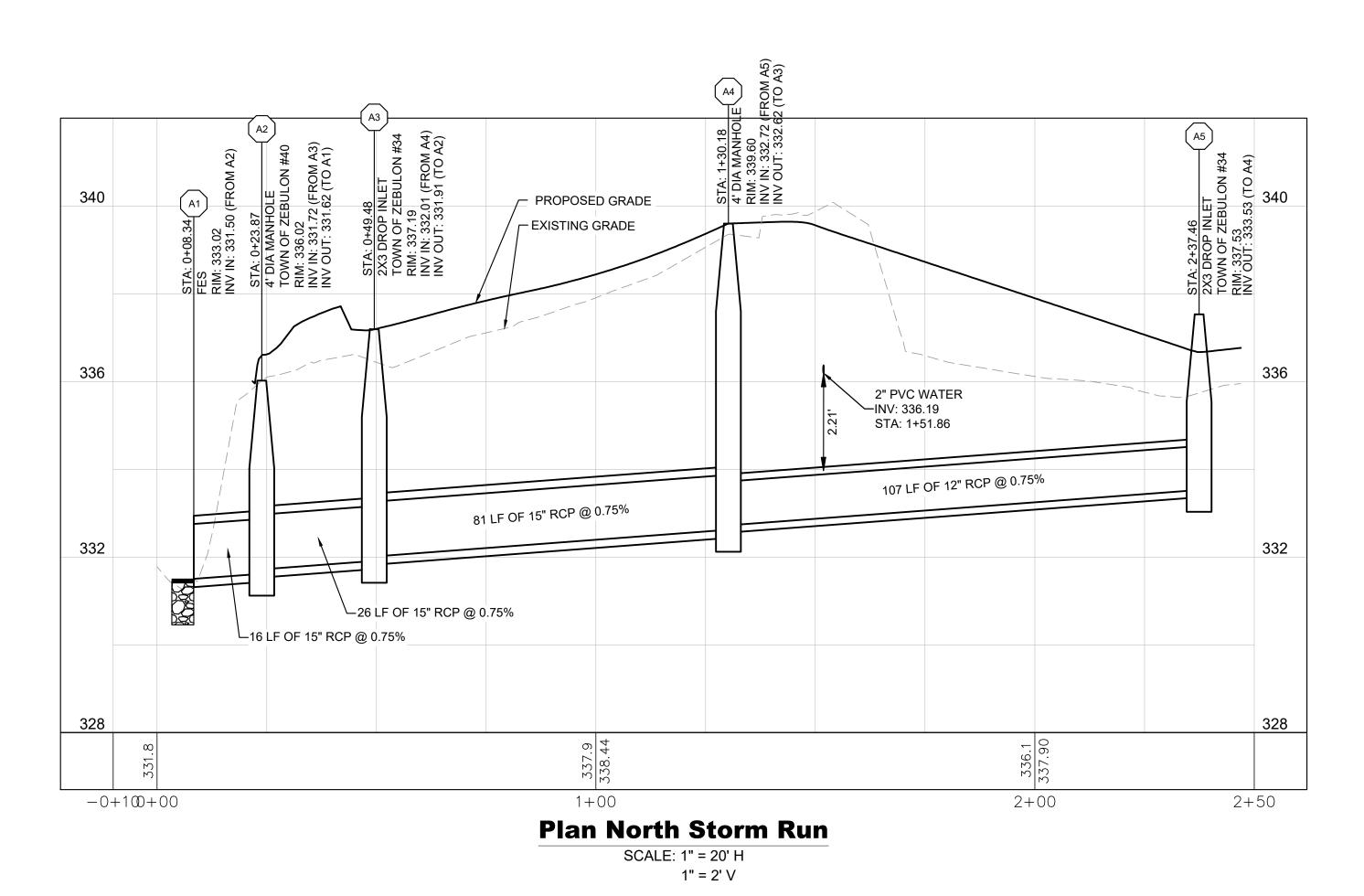
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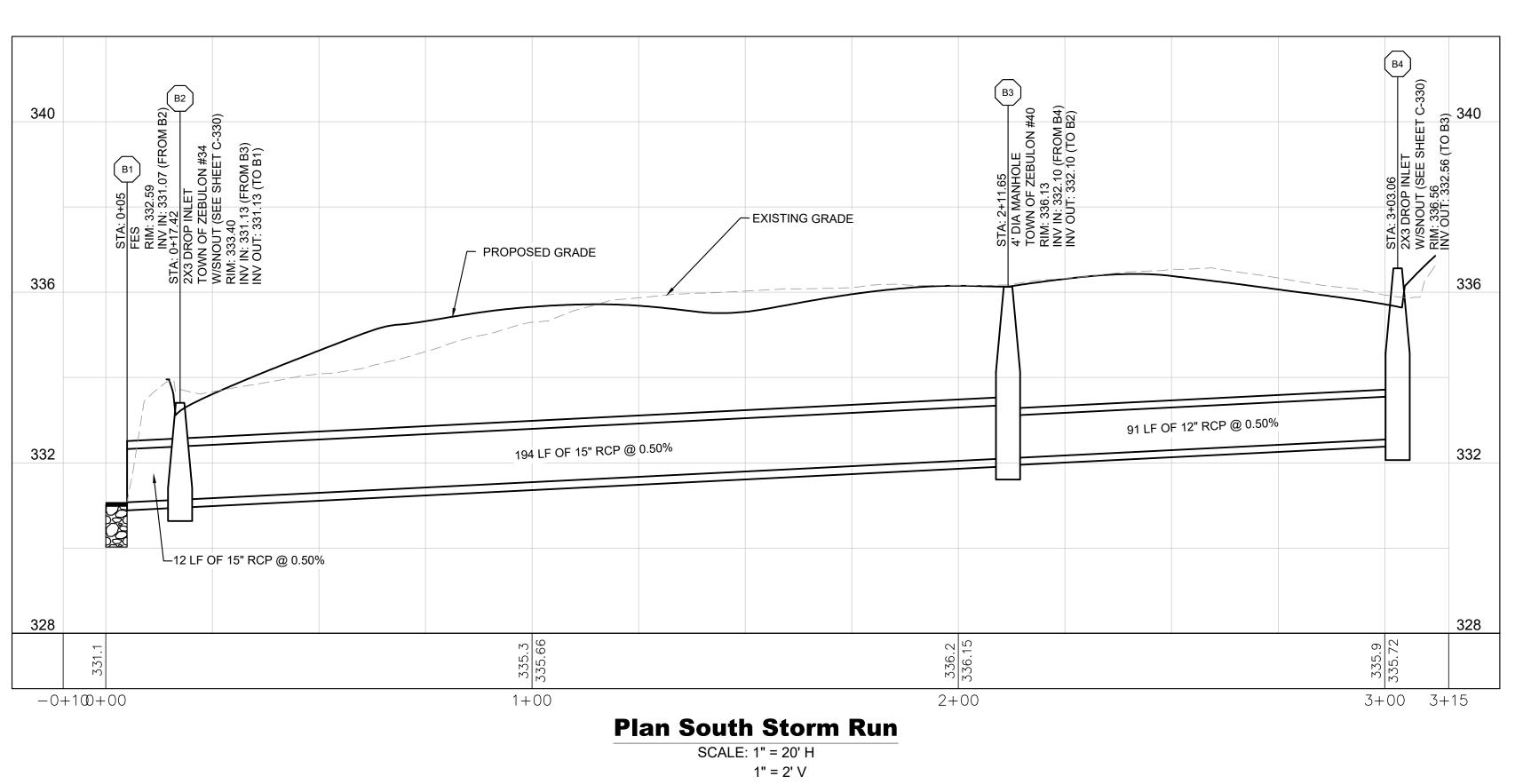
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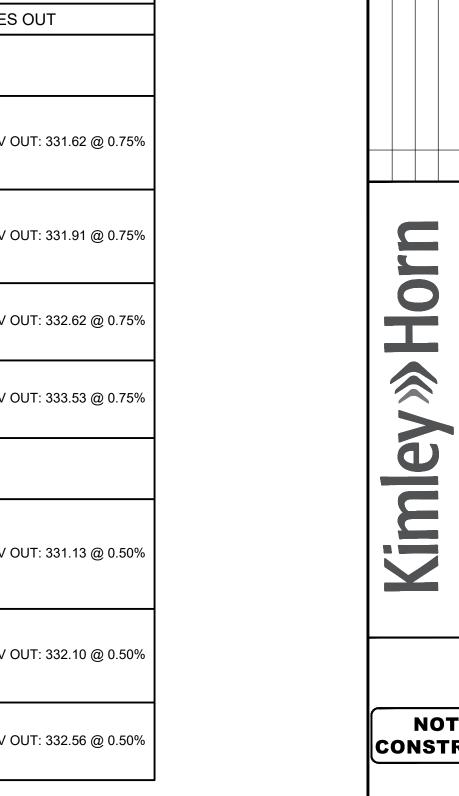
**NOT FOR** 

CONSTRUCTION





	STRUCTURE TABLE								
STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT						
A1	FES RIM: 333.02 INV IN: 331.50	FROM A2, 15" RCP INV IN: 331.50 @ 0.75%							
A2	4' DIA MANHOLE TOWN OF ZEBULON #40 RIM: 336.02 INV IN: 331.72 INV OUT: 331.62	FROM A3, 15" RCP INV IN: 331.72 @ 0.75%	TO A1, 15" RCP INV OUT: 331.62 @ 0.75%						
А3	2X3 DROP INLET TOWN OF ZEBULON #34 RIM: 337.19 INV IN: 332.01 INV OUT: 331.91	FROM A4, 15" RCP INV IN: 332.01 @ 0.75%	TO A2, 15" RCP INV OUT: 331.91 @ 0.75%						
A4	4' DIA MANHOLE RIM: 339.60 INV IN: 332.72 INV OUT: 332.62	FROM A5, 12" RCP INV IN: 332.72 @ 0.75%	TO A3, 15" RCP INV OUT: 332.62 @ 0.75%						
A5	2X3 DROP INLET TOWN OF ZEBULON #34 RIM: 337.53 INV OUT: 333.53		TO A4, 12" RCP INV OUT: 333.53 @ 0.75%						
В1	FES RIM: 332.59 INV IN: 331.07	FROM B2, 15" RCP INV IN: 331.07 @ 0.50%							
B2	2X3 DROP INLET TOWN OF ZEBULON #34 W/SNOUT (SEE SHEET C-330) RIM: 333.40 INV IN: 331.13 INV OUT: 331.13	FROM B3, 15" RCP INV IN: 331.13 @ 0.50%	TO B1, 15" RCP INV OUT: 331.13 @ 0.50%						
В3	4' DIA MANHOLE TOWN OF ZEBULON #40 RIM: 336.13 INV IN: 332.10 INV OUT: 332.10	FROM B4, 12" RCP INV IN: 332.10 @ 0.50%	TO B2, 15" RCP INV OUT: 332.10 @ 0.50%						
B4	2X3 DROP INLET W/SNOUT (SEE SHEET C-330) RIM: 336.56 INV OUT: 332.56		TO B3, 12" RCP INV OUT: 332.56 @ 0.50%						



CONSTRUCTION

**NOT FOR** 

PROFILE DRAINAGE

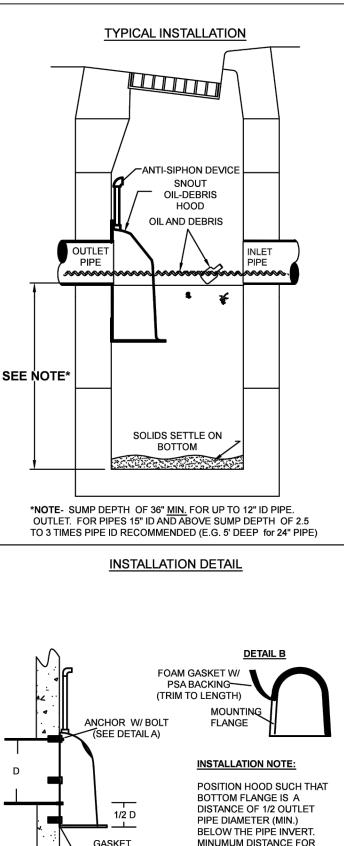
ARENDELL 406

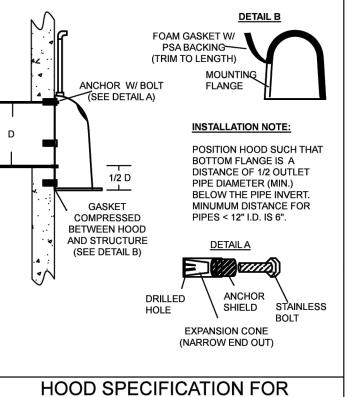
Know what's below.

Call before you dig.

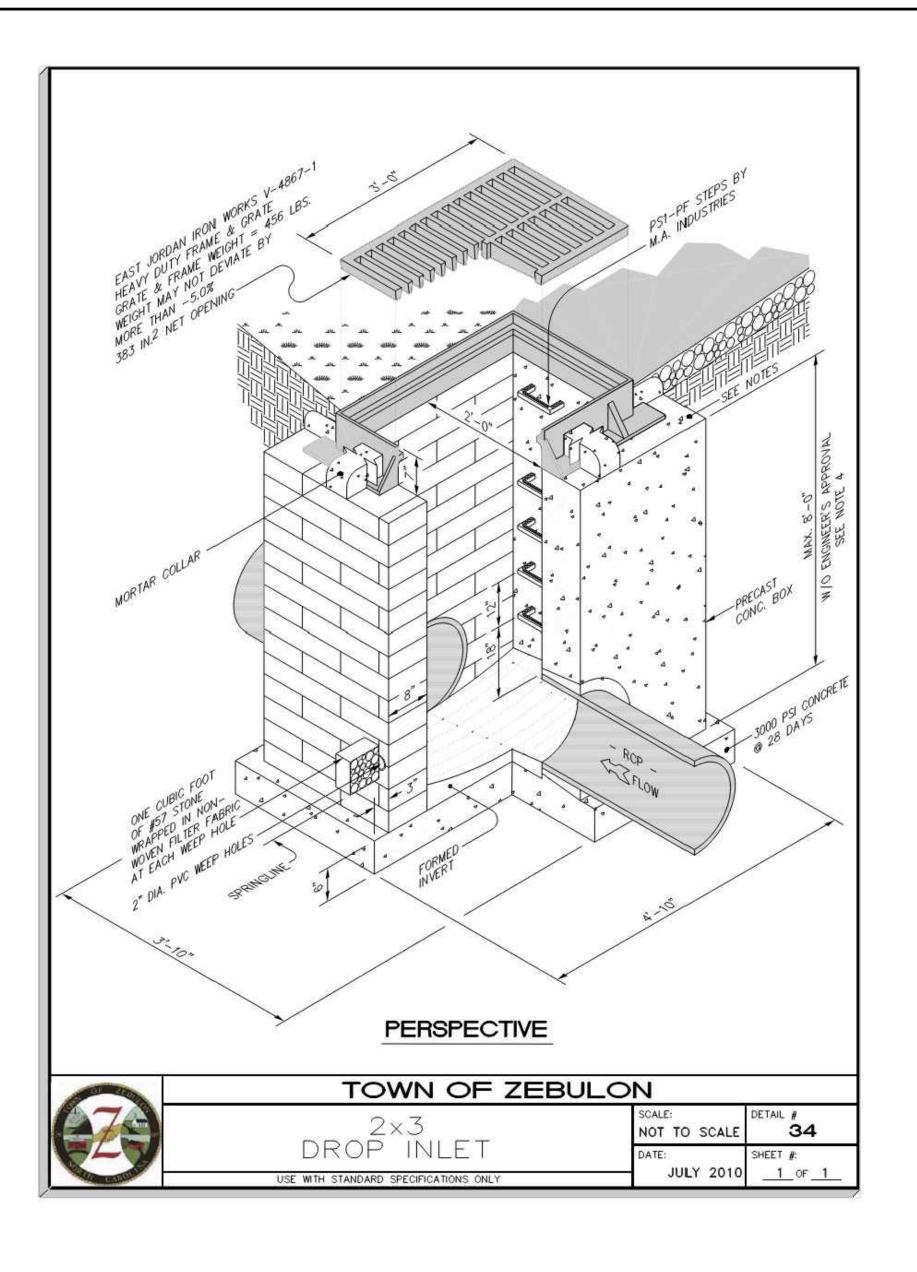
SHEET NUMBER C-320

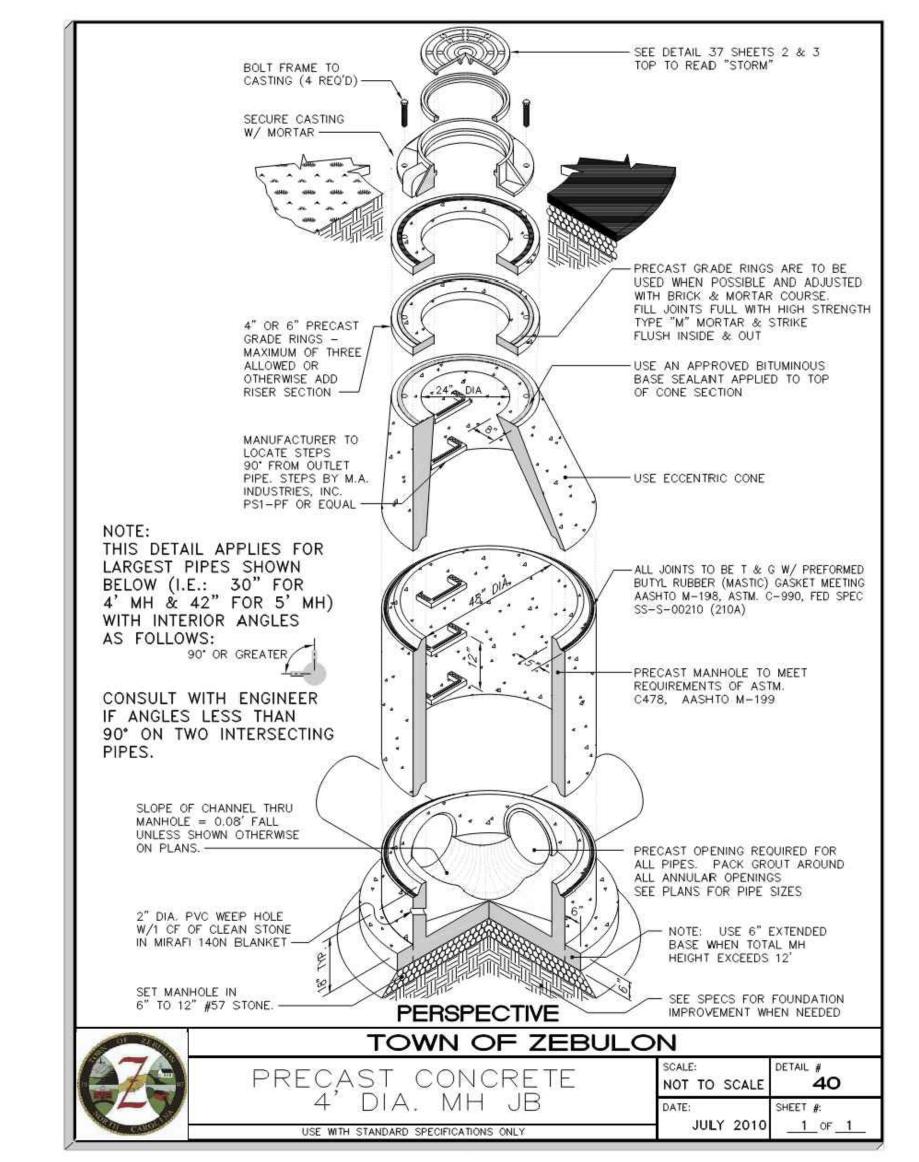
- WEB SITE: www.bmpinc.com OR PRE-APPROVED EQUAL
- ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
- . ALL HOODS SHALL BE EQUIPPED WITH A WATERTIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT PIPE AND ELBOW AS DRAWN. (SEE CONFIGURATION DETAIL)
- THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION (SNOUT SIZE ALWAYS LARGER THAN PIPE SIZE).
- THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A MINIMUM DISTANCE EQUAL TO 1/2 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 6" FOR PIPES <12" I.D.
- THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 12" ACCORDING TO STRUCTURE CONFIGURATION.
- THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL AND PIPE SHALL BE FINISHED FLUSH TO WALL.
- . ALL STRUCTURE JOINTS SHALL BE WATERTIGHT.
- THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3 STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE
- ). INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT.
- INSTALLATION KIT SHALL INCLUDE: A. INSTALLATION INSTRUCTIONS
- B. PVC ANTI-SIPHON VENT PIPE AND ADAPTER C. OIL-RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING
- D. 3/8" STAINLESS STEEL BOLTS E. ANCHOR SHIELDS
- US Patent # 6126817, 7951294, 7857966, 8512556 Canada Patent # 2285146, 2690156, 2690156 others pending





	CATCH BASINS AND WATER QUALITY STRUCTURES									
DESCRIPTION DATE SCALE										
OIL- DEBRIS HOOD O9/08/18 NONE										
INSTALLATION (TYPICAL)	DRAWING SP-	NUMBER SN								







406  $\overline{\phantom{a}}$ SHEET NUMBER

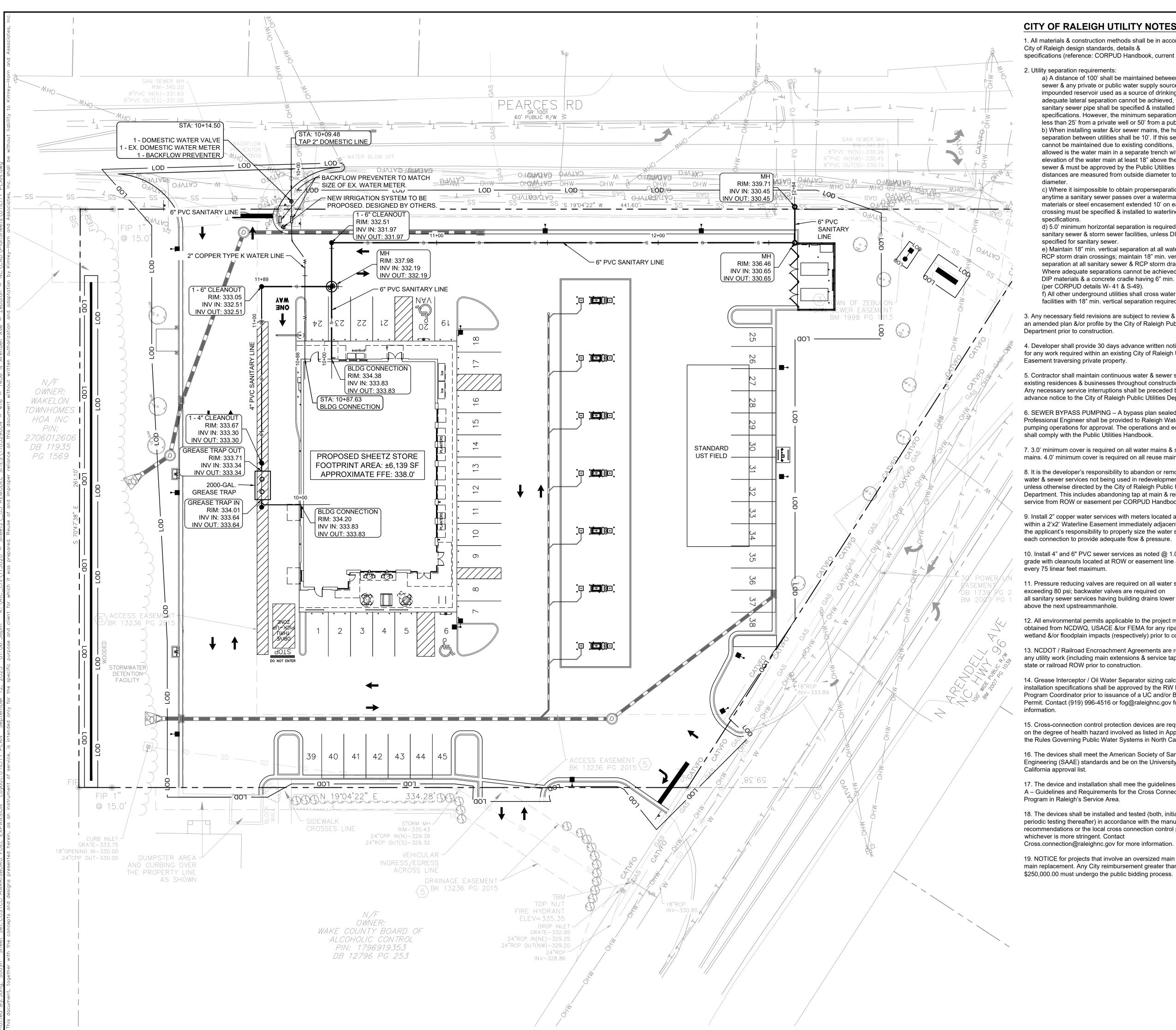
Know what's below.

Call before you dig.

C-330

DETAIL

DRAINAGE



## **CITY OF RALEIGH UTILITY NOTES**

1. All materials & construction methods shall be in accordance with City of Raleigh design standards, details & specifications (reference: CORPUD Handbook, current edition)

2. Utility separation requirements:

a) A distance of 100' shall be maintained between sanitary sewer & any private or public water supply source such as an impounded reservoir used as a source of drinking water. If adequate lateral separation cannot be achieved, ferrous sanitary sewer pipe shall be specified & installed to waterline specifications. However, the minimum separation shall not be less than 25' from a private well or 50' from a publicwell. b) When installing water &/or sewer mains, the horizontal separation between utilities shall be 10'. If this separation cannot be maintained due to existing conditions, the variation allowed is the water main in a separate trench with the elevation of the water main at least 18" above the top of the sewer & must be approved by the Public Utilities Director. All distances are measured from outside diameter to outside

c) Where it isimpossible to obtain properseparation, or anytime a sanitary sewer passes over a watermain, DIP materials or steel encasement extended 10' on each side of crossing must be specified & installed to waterline

d) 5.0' minimum horizontal separation is required between all sanitary sewer & storm sewer facilities, unless DIP material is specified for sanitary sewer. e) Maintain 18" min. vertical separation at all watermain &

RCP storm drain crossings; maintain 18" min. vertical separation at all sanitary sewer & RCP storm drain crossings. Where adequate separations cannot be achieved, specify DIP materials & a concrete cradle having 6" min. clearance (per CORPUD details W- 41 & S-49). f) All other underground utilities shall cross water & sewer facilities with 18" min. vertical separation required.

3. Any necessary field revisions are subject to review & approval of an amended plan &/or profile by the City of Raleigh Public Utilities

4. Developer shall provide 30 days advance written notice to owner for any work required within an existing City of Raleigh Utility

5. Contractor shall maintain continuous water & sewer service to existing residences & businesses throughout construction of project. Any necessary service interruptions shall be preceded by a 24-hour advance notice to the City of Raleigh Public Utilities Department.

6. SEWER BYPASS PUMPING – A bypass plan sealed by an NC Professional Engineer shall be provided to Raleigh Water prior to pumping operations for approval. The operations and equipment shall comply with the Public Utilities Handbook.

7. 3.0' minimum cover is required on all water mains & sewer force mains. 4.0' minimum cover is required on all reuse mains.

8. It is the developer's responsibility to abandon or remove existing water & sewer services not being used in redevelopment of a site unless otherwise directed by the City of Raleigh Public Utilities Department. This includes abandoning tap at main & removal of service from ROW or easement per CORPUD Handbook procedure.

9. Install 2" copper water services with meters located at ROW or within a 2'x2' Waterline Easement immediately adjacent. NOTE: it is the applicant's responsibility to properly size the water service for each connection to provide adequate flow & pressure.

10. Install 4" and 6" PVC sewer services as noted @ 1.0% minimum grade with cleanouts located at ROW or easement line & spaced

11. Pressure reducing valves are required on all water services exceeding 80 psi; backwater valves are required on all sanitary sewer services having building drains lower than 1.0'

12. All environmental permits applicable to the project must be obtained from NCDWQ, USACE &/or FEMA for any riparian buffer, wetland &/or floodplain impacts (respectively) prior to construction.

13. NCDOT / Railroad Encroachment Agreements are required for any utility work (including main extensions & service taps) within state or railroad ROW prior to construction.

14. Grease Interceptor / Oil Water Separator sizing calculations & installation specifications shall be approved by the RW FOG Program Coordinator prior to issuance of a UC and/or Building Permit. Contact (919) 996-4516 or fog@raleighnc.gov for more

15. Cross-connection control protection devices are required based on the degree of health hazard involved as listed in Appendix B of the Rules Governing Public Water Systems in North Carolina.

16. The devices shall meet the American Society of Sanitary Engineering (SAAE) standards and be on the University of Southern California approval list.

17. The device and installation shall mee the guidelines of Appendix A – Guidelines and Requirements for the Cross Connection Program in Raleigh's Service Area.

18. The devices shall be installed and tested (both, initial and periodic testing thereafter) in accordance with the manufacturer's recommendations or the local cross connection control program, whichever is more stringent. Contact

19. NOTICE for projects that involve an oversized main or urban main replacement. Any City reimbursement greater than

## **UTILITY LEGEND**

LOD	LIMITS OF DISTURBANCE (±81,705 SF)		
—— SS ——— SS ——	EXISTING SANITARY SEWER LINE		
W	EXISTING WATER LINE		
s	PROPOSED SANITARY SEWER LINE		
w	PROPOSED WATER LINE		

### SHEETZ UTILITY NOTES

 ALL SITE WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS PREPARED BY KIMLEY-HORN, THE CURRENT REQUIREMENTS OF THE TOWN OF ZEBULON AND THE CITY OF RALEIGH, THE APPLICABLE SECTIONS OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION, AND ALL OTHER PERTINENT FEDERAL AND STATE LAWS.

PROPOSED STORM DRAIN

- 2. THE CONTRACTOR SHALL COMPLY AT ALL TIMES WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, PROVISIONS, AND POLICIES GOVERNING SAFETY AND
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR **EXAMINING THE AREAS AND CONDITIONS UNDER** WHICH THE PROJECT IS TO BE CONSTRUCTED PRIOR TO THE SUBMISSION OF A BID.
- BEFORE EXCAVATION, ALL UNDERGROUND UTILITIES SHALL BE LOCATED IN THE FIELD BY THE PROPER AUTHORITIES. THE CONTRACTOR SHALL NOTIFY 811 "CALL BEFORE YOU DIG." THE LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES ARE APPROXIMATE AND MAY NOT ALL BE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND EXACT LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES.
- 5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BID AND PERFORM ALL UTILITY WORK IN COMPLIANCE TO ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH THE INSTALLATION, INSPECTING, TESTING AND FINAL ACCEPTANCE OF ALL PROPOSED UTILITY CONSTRUCTION UNLESS OTHERWISE COORDINATED BEFOREHAND WITH SHEETZ.
- CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY ON THE ADDITION. REMOVAL AND/OR RELOCATION OF UTILITIES AND UTILITY POLES AND THE EXTENSION OF ALL PROPOSED UTILITIES TO THE SHEETZ PROJECT STRUCTURES.
- 8. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE UTILITY COMPANY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL UTILITIES ARE INSTALLED CORRECTLY TO MEET PROJECT REQUIREMENTS WHETHER PERFORMED BY THE CONTRACTOR OR NOT.
- 9. AN AS-BUILT DRAWING OF NEW UTILITY SERVICES SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE OWNER UPON COMPLETION OF THE PROJECT.
- 10. UTILITY COMPANIES AND CONTACTS ARE LISTED ON
- SHEET C-000. 11. CONDUIT LOCATIONS TO FREESTANDING SIGNS AND SITE LIGHT POLES TO BE COORDINATED WITH SHEETZ
- CONSTRUCTION MANAGER. 12. CONTRACTOR SHALL COORDINATE AND VERIFY WITH SHEETZ CONSTRUCTION MANAGER ON LOCATION AND SIZE OF THE STORE GREASE TRAP. GREASE TRAP
- SHALL BE PROVIDED WITH "T" PIPE IN OUTFLOW CHAMBER. ALL SANITARY SEWER PIPE SHALL BE SDR-35 PVC UNLESS OTHERWISE NOTED. 13. CONTRACTOR SHALL COORDINATE WITH SHEETZ

CONSTRUCTION MANAGER AND SHEETZ IT

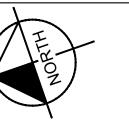
- DEPARTMENT ON THE CONDUIT ROUTE TO STORE FOR TELE/COMMUNICATION SERVICES. 14. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN
- THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION.

## **ATTENTION CONTRACTORS**

The Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Infrastructure Inspections Division and schedule a Pre-construction meeting on the Development Portal prior to beginning any construction. Raleigh Water must be contacted at (919) 996-4540 at least twenty-four hours prior to beginning any work activity around critical water and sewer infrastructure.

Failure to notify City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for Inspection, install a downstream plug, have permitted plans on the jobsite, or any other violation of City of Raleigh Standards will result in a fine and possible exclusion from future work in the City of Raleigh

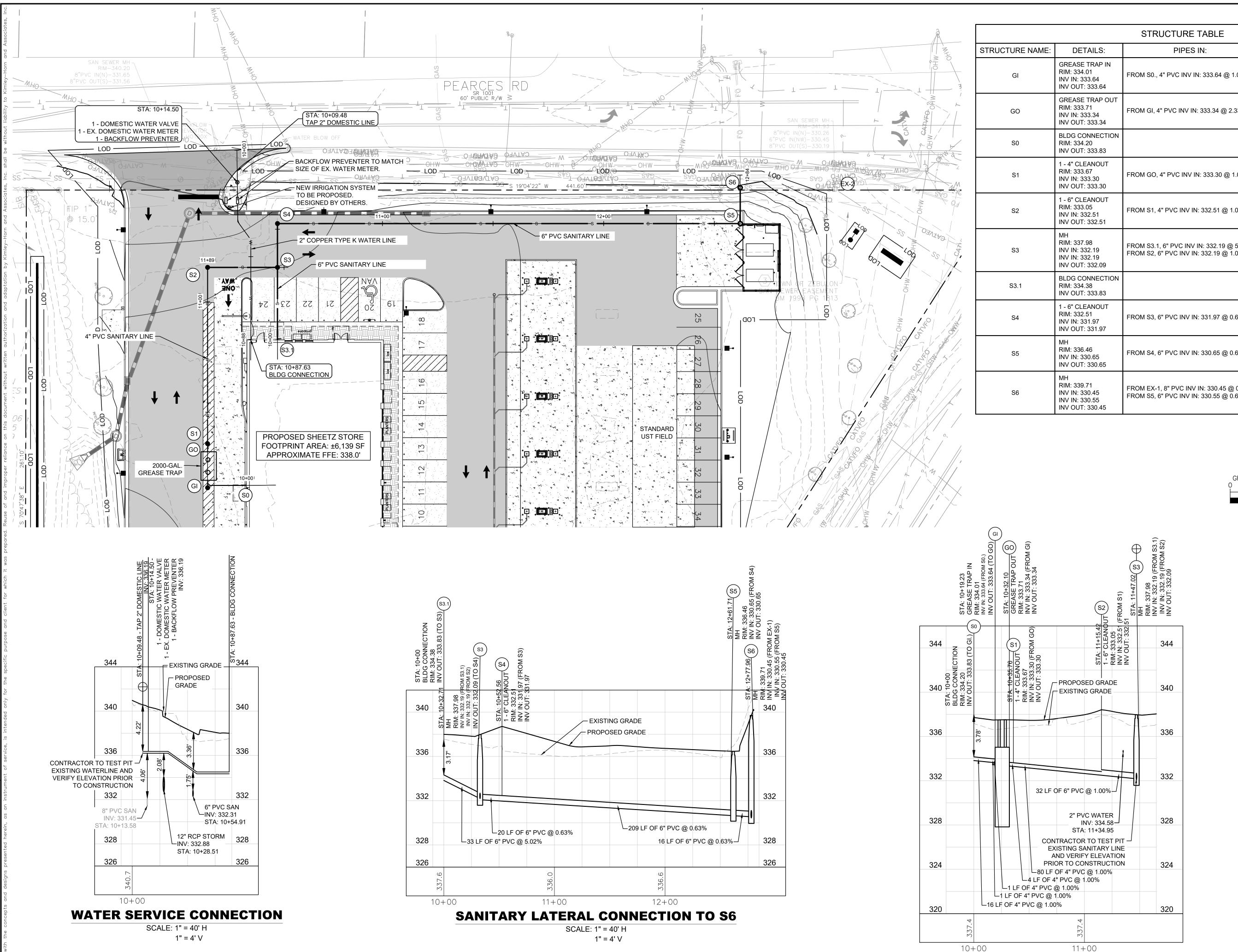


Know what's below. Call before you dig.

**NOT FOR** CONSTRUCTION

S 0 0

SHEET NUMBER C-400



PIPES OUT FROM S0., 4" PVC INV IN: 333.64 @ 1.00% TO GO, 4" PVC INV OUT: 333.64 @ 2.33% FROM GI, 4" PVC INV IN: 333.34 @ 2.33% TO S1, 4" PVC INV OUT: 333.34 @ 1.00% TO GI., 4" PVC INV OUT: 333.83 @ 1.00% FROM GO, 4" PVC INV IN: 333.30 @ 1.00% TO S2, 4" PVC INV OUT: 333.30 @ 1.00% FROM S1, 4" PVC INV IN: 332.51 @ 1.00% TO S3, 6" PVC INV OUT: 332.51 @ 1.00% FROM S3.1, 6" PVC INV IN: 332.19 @ 5.02% TO S4, 6" PVC INV OUT: 332.09 @ 0.63% FROM S2, 6" PVC INV IN: 332.19 @ 1.00% TO S3, 6" PVC INV OUT: 333.83 @ 5.02% TO S5, 6" PVC INV OUT: 331.97 @ 0.63% FROM S3, 6" PVC INV IN: 331.97 @ 0.63% FROM S4, 6" PVC INV IN: 330.65 @ 0.63% TO S6, 6" PVC INV OUT: 330.65 @ 0.63% FROM EX-1, 8" PVC INV IN: 330.45 @ 0.44% TO EX-2, 8" PVC INV OUT: 330.45 @ 0.44% FROM S5, 6" PVC INV IN: 330.55 @ 0.63%

**SANITARY GREASE TRAP CONNECTION TO S3** 

SCALE: 1" = 40' H

1" = 4' V

**NOT FOR** CONSTRUCTION

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PROFIL UTILIT

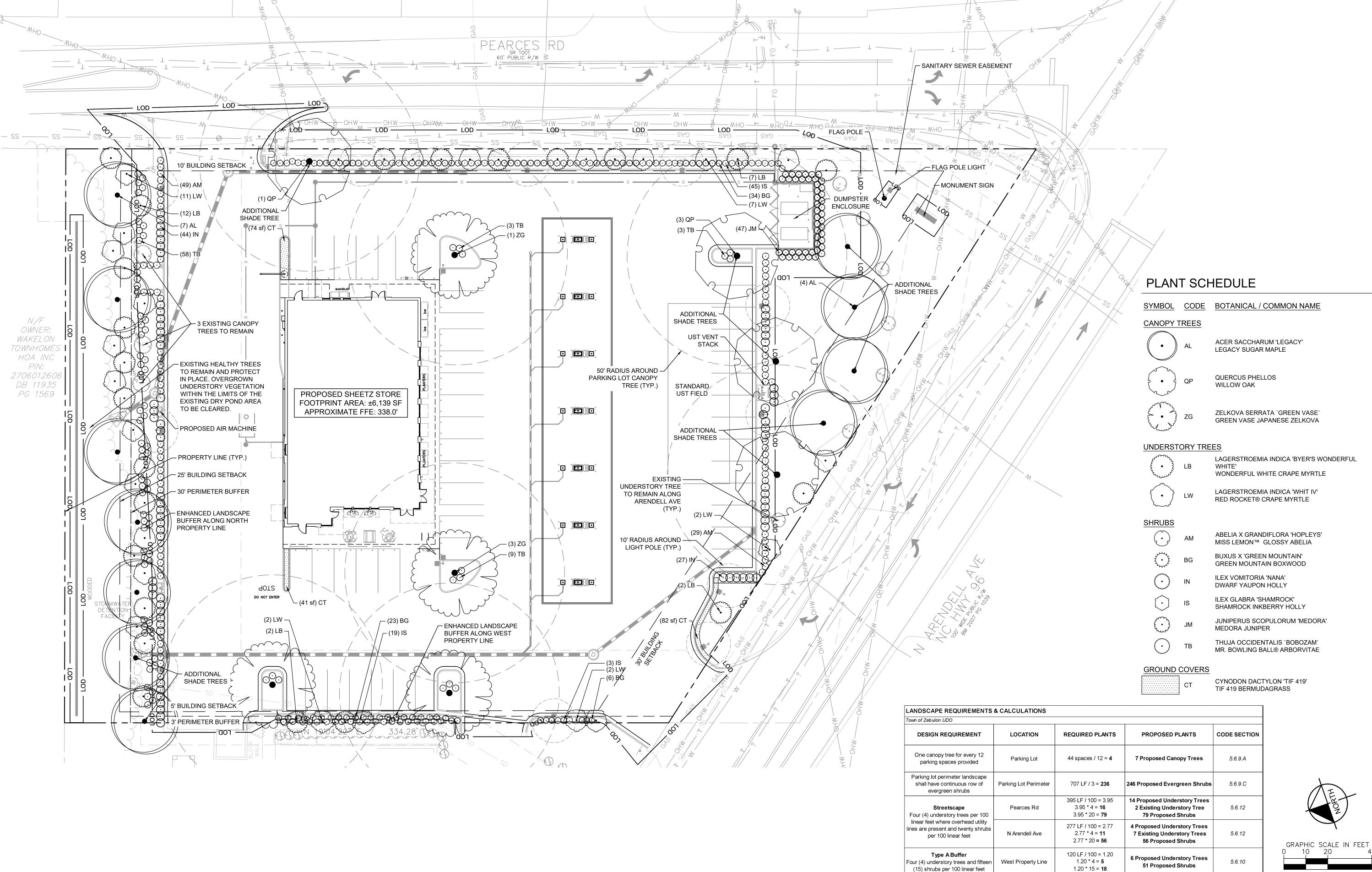
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S Z 406  $\overline{\phantom{a}}$ SHEET NUMBER

Know what's below.

Call before you dig.

C-410



(15) shrubs per 100 linear feet

Type C Buffer

Three (3) canopy trees, six (6)

understory trees, and twenty-five

(25) shrubs per 100 linear feet

Two (2) staggered rows of

opaque screen

1. SPECIFIED ACER SACCHARUM 'LEGACY' AND QUERCUS PHELLOS SHADE TREES TO BE

2. BUFFER WIDTHS HAVE BEEN REDUCED PER

DEVELOPMENT CONDITIONS.

REQUIREMENT

COUNTED FOR UTILITY ALLOCATION POLICY: 3A

evergreen shrubs to form fully

Installation of native shade trees for

requirement for the Utility Allocation Policy: 3A

outdoor enhancement.

261 LF / 100 = 2.61

2.61 \* 3 = **8** 

2.61 \* 6 = **16** 

2.61 \* 25 = **66** 

64 LF / 3 = 22

22 \* 2 = **44** 

Note: Shade trees planted in the buffers and parking lot perimeter beyond the required amount are used to meet the additional native shade tree requirement for

the Utility Allocation Policy: 3A. Shrubs and understory trees planted in the buffers beyond the required amount are used to meet the enhanced buffer landscaping

North Property Line

Dumpster Enclosure

Perimeter

7 Proposed Canopy Trees

3 Existing Canopy Trees

23 Proposed Understory Trees

151 Proposed Shrubs

47 Proposed Evergreen Shrubs

10 Proposed Canopy Trees

5.6.10

5.10.5

Utility Allocation

Policy: 3A



Know what's below. Call before you dig.

SHEET NUMBER L-100

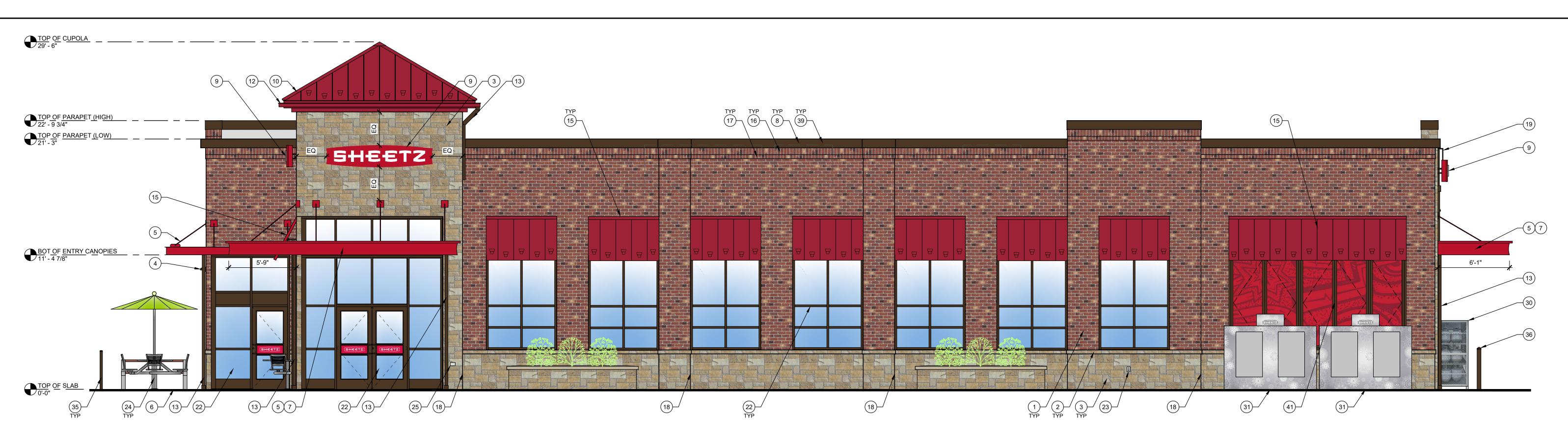
406

ARENDE

S

**NOT FOR** 

CONSTRUCTION



# FRONT ELEVATION 1/4" = 1'-0"

TYPICAL EXTERIOR ELEVATION NOTES:

- ALL LIGHTS SHOWN ABOVE AND/OR BELOW DOORS OR WINDOWS ARE TO BE CENTERED ON THE DOOR OR WINDOW UNLESS NOTED
- FIXTURES/EQUIPMENT BETWEEN TWO DOORS OR WINDOWS ARE TO BE CENTERED EQUALLY.
- EXTERIOR SEALANT FOR STONE SHALL COMPLY WITH SECTION 07 9005 AND SHALL MATCH THE COLOR OF THE STORE.
- EXTERIOR ELEVATION KEYNOTES: BRICK VENEER, COLOR: 680 BY CONTINENTAL BRICK COMPANY. SEE
- MASONRY SPEC
- (2) CAST STONE SILL, COLOR: CRAB ORCHARD. SEE MASONRY SPEC ANCHORED CAST STONE MASONRY VENEER, COLOR: CRAB ORCHARD.
- SEE MASONRY SPEC (4) EXTERIOR LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
- ARCHITECTURAL CANOPY, COLOR: REGAL RED, PREMIUM TWO-COAT  $\stackrel{5}{\smile}$  KYNAR FINISH
- (6) BRICK PAVER WALKWAY
- (7) LIGHTED CURVED FASCIA CANOPY ATTACHMENT
- (8) METAL COPING, COLOR: DARK BRONZE
- (9) WALL MOUNTED BUILDING SIGN, SEE SHEET A200.
- (10) STANDING SEAM METAL ROOF, COLOR: BRITE RED
- (11) NOT USED
- (12) GUTTER, COLOR TO MATCH CUPOLA COLOR
- (13) DOWNSPOUT, COLOR: DARK BRONZE
- (14) DRIVE-THRU WINDOW (IF APPLICABLE)
- METAL STANDING SEAM SHED STYLE AWNING AND FRAME ASSEMBLY, ROOF COLOR: BRITE RED, FRAME COLOR: DARK BRONZE
- BRICK SOLDIER COURSE, COLOR: 680 BY CONTINENTAL BRICK COMPANY. SEE MASONRY SPEC BRICK ROWLOCK COURSE, COLOR: 680 BY CONTINENTAL BRICK
- COMPANY. SEE MASONRY SPEC
- (18) CONTROL JOINT, SEE MASONRY SPEC
- (19) STEEL ROOF LADDER AND CRANKY POST, COLOR: DARK BRONZE
- STANDARD THROUGH WALL SCUPPER WITH CONDUCTOR HEAD &  $\stackrel{(20)}{=}$  DOWNSPOUT, COLOR: DARK BRONZE

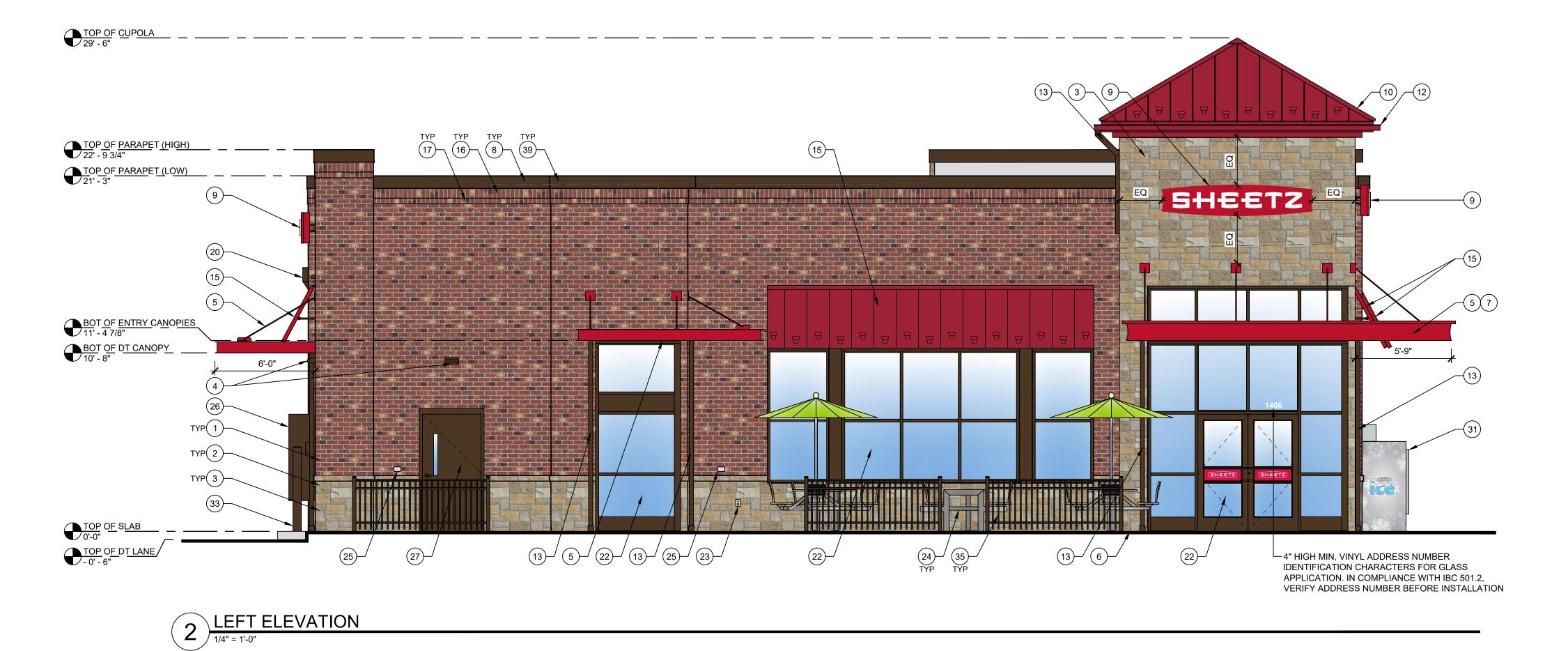
(21) OVERFLOW SCUPPER

- (22) ALUMINUM STOREFRONT SYSTEM, SEE A600
- (23) EXTERIOR HOSE BIB, REFER TO PLUMBING DRAWINGS
- (24) OUTDOOR FURNITURE
- (25) ELECTRICAL RECEPTACLE, REFER TO ELECTRICAL DRAWINGS
- (26) ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS
- (27) HM DOOR AND FRAME, COLOR: DARK BRONZE
- (28) EMERGENCY WATER CONNECTION, REFER TO PLUMBING DRAWINGS
- SEAMLESS ALUM PANEL SYSTEM WITH EXPOSED FASTENERS, COLOR: DARK BRONZE
- (30) PROPANE LOCKER
- (31) ICE MERCHANDISER
- (32) RTI FILLPORT
- (33) STEEL BOLLARD, COLOR: DARK BRONZE
- (34) CO2 FILLPORT
- (35) DECORATIVE ALUMINUM FENCE, COLOR DARK BRONZE
- AUTOMATIC DOOR PUSH PLATE AND BOLLARD, BOLLARD COLOR: DARK BRONZE
- GAS METER AND RISER, REFER TO CIVIL UTILITY PLAN, COLOR: DARK BRONZE
- (38) NOT USED
- LIGHT CHANNEL AT PARAPET COPING. SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- (40) NOT USED
- (41) FAUX WINDOWS WITH INTERNAL GRAPHIC

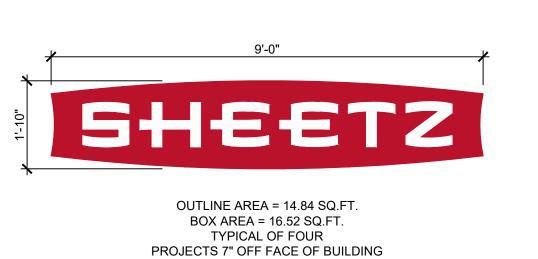
GLAZING CALCULATION FRONT ELEVATION = 2199.82 SQ FT DESCRIPTION 40% OF COVERAGE REQ PROVIDED 
 TRANSPARENT GLAZING
 879.92 SQ FT
 590.61 SQ FT

 FAUX WINDOW GLAZING
 879.92 SQ FT
 120.61 SQ FT

 TOTAL GLAZING
 879.92 SQ FT
 711.22 SQ FT



GLAZING CALCULATION FRONT ELEVATION = 1275.16 SQ FT								
DESCRIPTION	30% OF COVERAGE REQ	PROVIDED						
TRANSPARENT GLAZING	383 SQ FT	392.2 SQ FT						
FAUX WINDOW GLAZING	N/A	N/A						
TOTAL GLAZING	383 SQ FT	392.2 SQ FT						



A WALL MOUNTED "SHEETZ" BUILDING SIGN

Convenience Architecture and *Design* P.C. 351 Sheetz Way, Claysburg, PA 16625

(814) 239-6013 tcolumbu@sheetz.com web site www.sheetz.com

PROJECT NAME:

**NEW SHEETZ STORE** STORE #416R

ZEBULON ARENDALL AVE.

Int. of North Arendall Avenue and Pearces Road Zebulon, NC 27597-8734

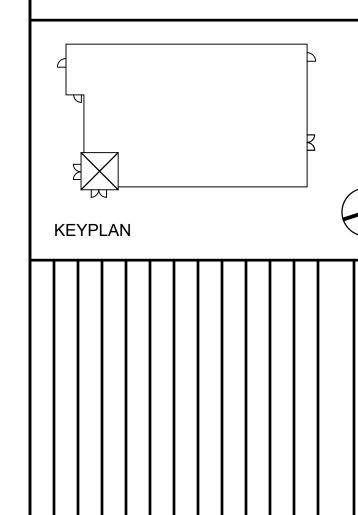
OWNER: SHEETZ, INC.

5700 SIXTH AVE.

ALTOONA, PA 16602

CONSULTANT

PROFESSIONAL



09.10.2025

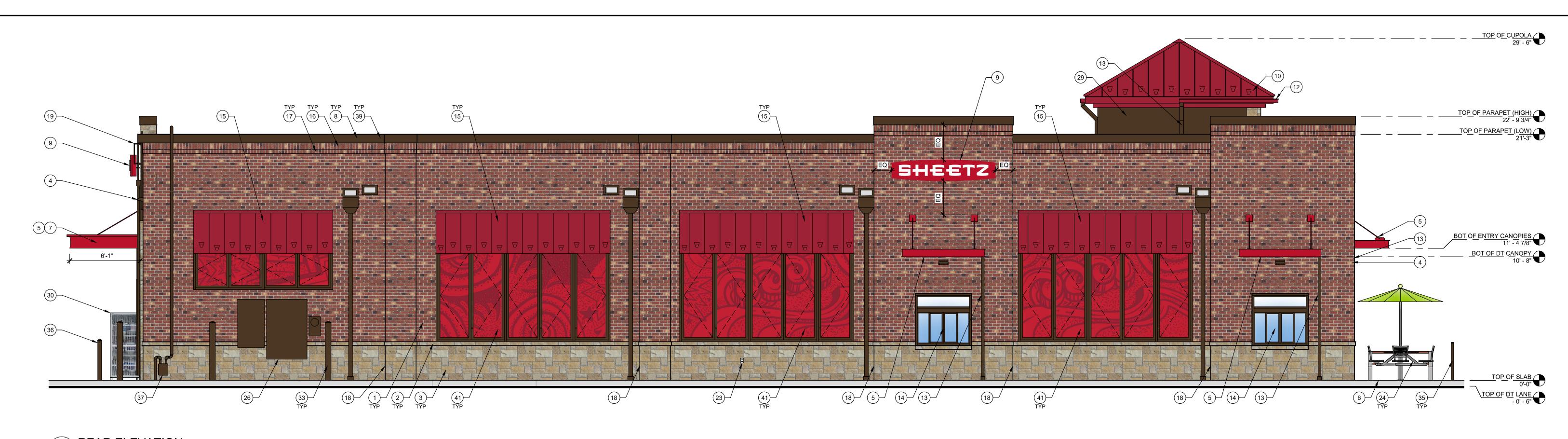
ISSUE: SITE ID NO: 416R **AUTHOR BY:** RJK / AMM TMC / RJH REVIEW BY:

VERSION:

**EXTERIOR ELEVATIONS** 

6139\_v1.8

PRELIMIN



REAR ELEVATION

1/4" = 1'-0"

## TYPICAL EXTERIOR ELEVATION NOTES:

- ALL LIGHTS SHOWN ABOVE AND/OR BELOW DOORS OR WINDOWS ARE
  TO BE CENTERED ON THE DOOR OR WINDOW UNLESS NOTED
- FIXTURES/EQUIPMENT BETWEEN TWO DOORS OR WINDOWS ARE TO BE CENTERED EQUALLY.
- EXTERIOR SEALANT FOR STONE SHALL COMPLY WITH SECTION 07 9005
   JOINT SEALANTS, GENERAL BUILDING FASCADE WEATHER SEALANT
   AND SHALL MATCH THE COLOR OF THE STORE.

## EXTERIOR ELEVATION KEYNOTES:

- BRICK VENEER, COLOR: 680 BY CONTINENTAL BRICK COMPANY. SEE MASONRY SPEC
- (2) CAST STONE SILL, COLOR: CRAB ORCHARD. SEE MASONRY SPEC
- ANCHORED CAST STONE MASONRY VENEER, COLOR: CRAB ORCHARD. SEE MASONRY SPEC

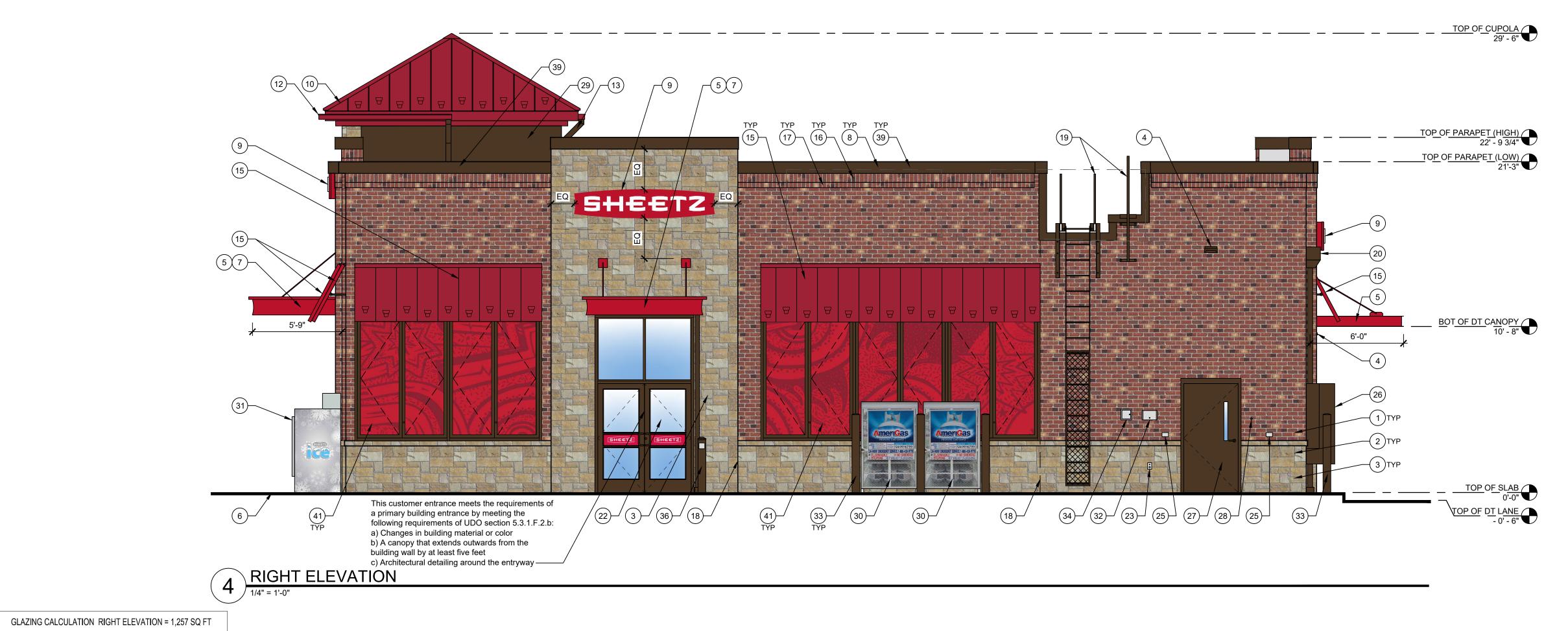
  4 EXTERIOR LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
- ARCHITECTURAL CANOPY, COLOR: REGAL RED, PREMIUM TWO-COAT KYNAR FINISH
- 6 BRICK PAVER WALKWAY
- 7 LIGHTED CURVED FASCIA CANOPY ATTACHMENT
- 8 METAL COPING, COLOR: DARK BRONZE
- 9 WALL MOUNTED BUILDING SIGN, SEE SHEET A200.
- (10) STANDING SEAM METAL ROOF, COLOR: BRITE RED
- (11) NOT USED
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- BRICK ROWLOCK COURSE, COLOR: 680 BY CONTINENTAL BRICK COMPANY. SEE MASONRY SPEC
- (18) CONTROL JOINT, SEE MASONRY SPEC
- 19 STEEL ROOF LADDER AND CRANKY POST, COLOR: DARK BRONZE
- STANDARD THROUGH WALL SCUPPER WITH CONDUCTOR HEAD & DOWNSPOUT, COLOR: DARK BRONZE
- (21) OVERFLOW SCUPPER
- 22) ALUMINUM STOREFRONT SYSTEM, SEE A600
- 23 EXTERIOR HOSE BIB, REFER TO PLUMBING DRAWINGS
- (24) OUTDOOR FURNITURE
- 25 ELECTRICAL RECEPTACLE, REFER TO ELECTRICAL DRAWINGS
- (26) ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS
- 27) HM DOOR AND FRAME, COLOR: DARK BRONZE
- 28 EMERGENCY WATER CONNECTION, REFER TO PLUMBING DRAWINGS

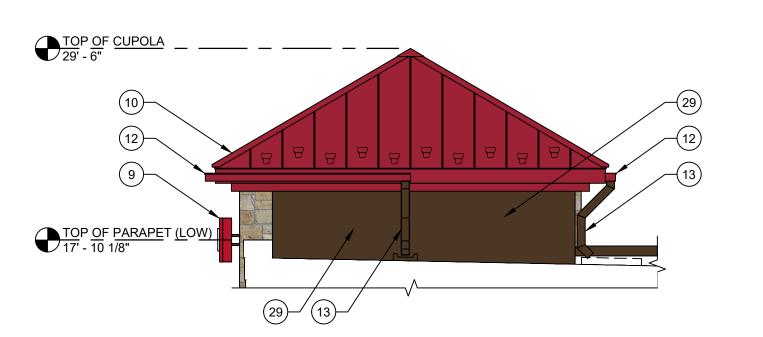
30% OF COVERAGE REQ PROVIDED

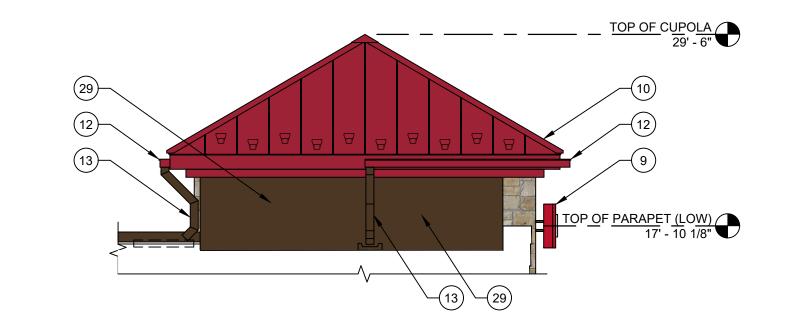
TRANSPARENT GLAZING

FAUX WINDOW GLAZING TOTAL GLAZING

- SEAMLESS ALUM PANEL SYSTEM WITH EXPOSED FASTENERS, COLOR: DARK BRONZE
- (30) PROPANE LOCKER(31) ICE MERCHANDISER
- (32) RTI FILLPORT
- 33 STEEL BOLLARD, COLOR: DARK BRONZE
- 34) CO2 FILLPORT
- (35) DECORATIVE ALUMINUM FENCE, COLOR DARK BRONZE
- 36 AUTOMATIC DOOR PUSH PLATE AND BOLLARD, BOLLARD COLOR: DARK BRONZE
- GAS METER AND RISER, REFER TO CIVIL UTILITY PLAN, COLOR: DARK BRONZE
- 38) NOT USED
- UIGHT CHANNEL AT PARAPET COPING. SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- (40) NOT USED
- (41) FAUX WINDOWS WITH INTERNAL GRAPHIC







5 CUPOLA ELEVATION FROM ROOF



Convenience Architecture
and Design P.C.
351 Sheetz Way, Claysburg, PA 16625

phone (814) 239-6013
email tcolumbu@sheetz.com
web site www.sheetz.com

PROJECT NAME:

NEW SHEETZ STORE

STORE #416R

ZEBULON ARENDALL AVE.

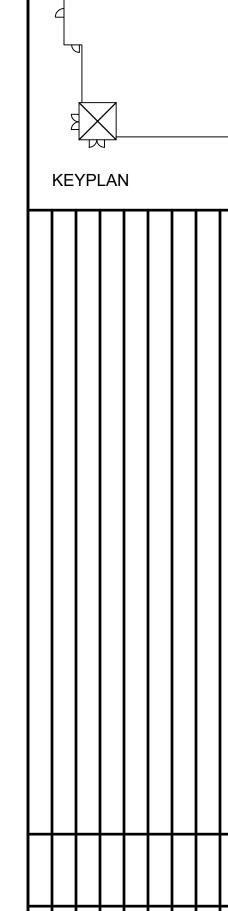
Int. of North Arendall Avenue and Pearces Road Zebulon, NC 27597-8734

OWNER: SHEETZ, INC.

5700 SIXTH AVE. ALTOONA, PA 16602

CONSULTANT

PROFESSIONAL



ISSUE:

SITE ID NO:

**AUTHOR BY:** 

**REVIEW BY:** 

VERSION:

RJK / AMM

TMC / RJH

6139\_v1.8

416R

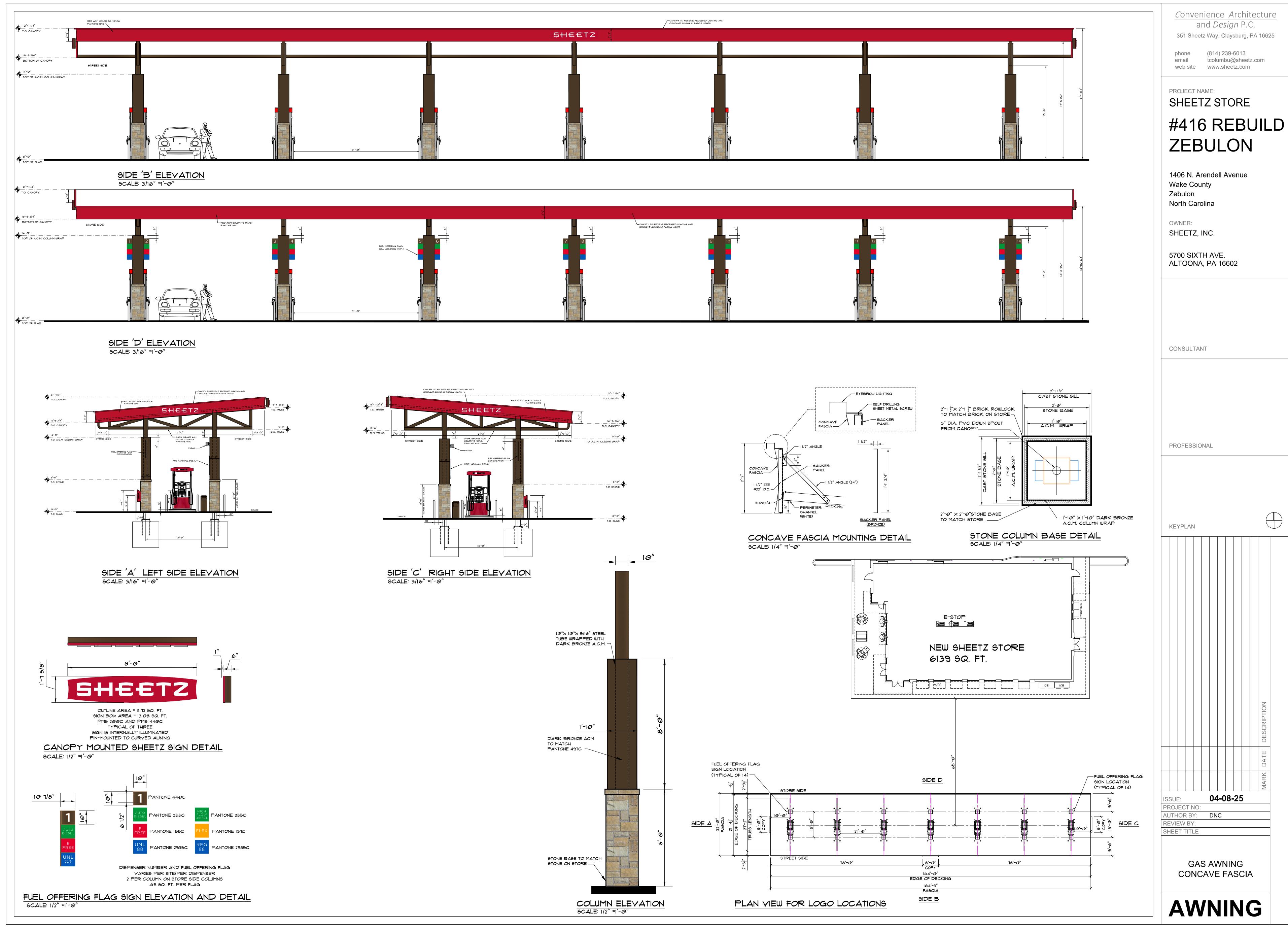
**EXTERIOR** 

**ELEVATIONS** 

**A201** 

09.10.2025

PRELIMIN



# Planned Development Narrative

## 416 Sheetz Zebulon

1406 N Arendell Ave Zebulon, North Carolina

PIN: 2706011220

Prepared for: Town of Zebulon, North Carolina

Date: September 12, 2025

KHA Reference #: 110529004



Phone: 919-677-2000



#### 416 SHEETZ ZEBULON 1406 N ARENDELL AVE ZEBULON, NORTH CAROLINA

#### PLANNED DEVELOPMENT NARRATIVE

#### **OWNER:**

OLDE HERITAGE PROPERTIES LLC 806 N ARENDELL AVE, ZEBULON, NC, 27597

#### **DEVELOPER:**

SHEETZ, INC. KELLEY BROWN – KBROWN@SHEETZ.COM 243 SHEETZ WAY, CLAYSBURG, PA 16625

#### **ENGINEER:**

KIMLEY-HORN HEATHER TIMOTHY, PE – HEATHER.TIMOTHY@KIMLEY-HORN.COM 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601

#### TRAFFIC ENGINEER:

MORGAN ROSAMOND, PE – MORGAN.ROSAMOND@KIMLEY-HORN.COM KIMLEY-HORN AND ASSOCIATES, INC. 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601

**SEPTEMBER 2025** 

**KHA PROJECT NO. 110529004** 

Attachment 4 PD 2025-05
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific
purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and
adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.  PLANNED DEVELOPMENT NARRATIVE
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APPENDIX C: TRAFFIC IMPACT ANALYSIS

#### 1.0 INTRODUCTION

The proposed project is the redevelopment of the existing Sheetz site located at 1406 N Arendell Avenue in Zebulon (PIN 2706011220). Maintaining the commercial use is consistent with the current Town of Zebulon Comprehensive Land Use Plan (CLUP), as the property is designated General Commercial (GC). As noted in the CLUP, the current Heavy Commercial (HC) zone is closely associated with GC. The GC designation "is for properties in commercial retail, office and service uses, primarily along portions of major roadway corridors within the community for high visibility and accessibility[.]" The primary land use types in the GC designation include "automobile service related enterprises (e.g., gas stations)." This application is consistent with CLUP and the proposed use directly aligns with the GC designation.

The building and site will be demolished and rebuilt to include a 6,139 SF building with a pick-up window and one additional MPD (two additional fueling stations). The existing car wash will be removed. The new pick-up window has triggered the Planned Development application process.

#### 2.0 PERMITTED USES

This site is zoned Heavy Commercial (HC) per the Town of Zebulon Unified Development Ordinance (UDO) amended April 17, 2025. The proposed principal use, convenience store (with gasoline sales), and the proposed accessory use, drive through (pick-up window), are both permitted by-right in this zone.

The convenience store (with gasoline sales) principal use is subject to the specific standards from 4.3.5.Q:

- 1. Location of fuel pump islands
  - a. Pump islands may not be located between a building and any adjacent street right-of-way. Applicant is proposing a condition related to this standard. See Section 10.0 Conditions.
  - b. Pump islands shall be at least 10 feet from any lot line and 12 feet from any principal building. Canopies over the pump islands may be located within 10 feet of a lot line. *Project in compliance.*
- 2. Location of fuel tanks
  - a. Gasoline and fuel storage tanks shall be located a minimum of 20 feet from any lot line or building. *Project in compliance*.

The drive through (pick-up window) accessory use is subject to the specific standards from 4.4.7.I:

- 1. Outdoor speakers associated with a drive-through shall be at least 50 feet from any lot with a residential zoning district designation. N/A no outdoor speakers associated with pick-up window.
- 2. Drive-through windows, menus, or order boxes shall not be located on the front façade of the building they serve. *Project in compliance*.
- 3. Drive-through facilities shall be designed so as not to obstruct the movement of pedestrians along sidewalks, through areas intended for public use, or between the building entrance and customer parking spaces. *Project in compliance*.
- 4. Canopies or other features installed over a drive through window shall maintain common roof lines and materials with the principal structure. *Project in compliance*.
- 5. New construction of drive-throughs shall conform to the mixed-use design standards in section 5.3.2. N/A per coordination with the Town, this project will use the Commercial Design Standards as the basis of reference.

#### 3.0 ZONING REQUIREMENTS

The site is subject to the following district dimensional standards of its existing zone, Heavy Commercial (HC), per UDO Section 3.4.4:

•	Minimum Lot Area:	6,000 SF
•	Minimum Lot Width:	50 FT
•	Maximum Lot Coverage:	80%
•	Maximum Building Height:	50 FT
•	Minimum (Building) Street Setback	30 FT

 Applicant is proposing a condition related to this standard. See Section 10.0 Conditions for Pearces Rd because of trash enclosure.

Minimum (Building) Side Setback: 5 FT
Minimum (Building) Rear Setback: 25 FT

The site is subject to the following perimeter and streetscape buffer requirements per UDO Sections 5.6.10 and 5.6.12:

Minimum Perimeter Buffer (PIN 2706012606)
Minimum Perimeter Buffer (PIN 1796919353)
10 FT

• Applicant is proposing a condition related to this standard. See Section 10.0 Conditions which notes 3 FT buffer proposed to maintain existing curb lines.

• Minimum Streetscape Buffer:

15 FT

• Applicant is proposing a condition related to this standard. See Section 10.0 Conditions which notes 0 FT buffer for Pearces Rd and N Arendell Ave to maintain existing curb lines. Applicant is exempt from the streetscape buffer requirement since the primary building façade is "visible from the arterial or collector street right-of-way (UDO Section 5.6.12.C.1)."

The project proposes the following additional dimensional standards as required for Planned Development (PD) District applications per UDO Section 3.5.6.B.6:

Maximum Individual Building Size
 10,000 SF

Floor Area Ratio 0.10 MAXIMUM

The site has adequate parking per UDO Section 5.8.4. 45 spaces have been provided, meeting the required standard of 1 space per 200 sf of a "Convenience Store (with gasoline sales)" which equates to 30 spaces.

#### 4.0 ARCHITECTURAL STANDARDS

The architecture of the proposed building will follow all Commercial Design Standards, except where Applicant has proposed targeted conditions, as detailed in Section 10.0 Conditions. Appendix B provides the proposed building elevations with fenestration calculations.

The front building façade is the primary building wall. There are two secondary building walls, both adjacent to the front building façade. The pick-up window-side building wall is a tertiary wall.

#### 5.0 SIGNAGE

Signage has been provided per UDO Section 5.11. There is one proposed wall mounted sign on each building façade. There is one proposed ground sign and one flag near the intersection of N Arendell

Avenue and Pearces Road. Additional wall mounted signage is provided on the ends of the fuel canopy and on the order pickup clearance bar.

#### 6.0 STORMWATER MANAGEMENT

The proposed development will meet all applicable Town of Zebulon and North Carolina requirements through the decrease of impervious surfaces. The stormwater controls in the existing condition are to remain and be maintained by owner. The majority of the proposed site outfalls to the existing wet pond on the north of the site which is then conveyed to the rock swale along N Arendell Avenue within the North Carolina Department of Transportation (NCDOT) right-of-way.

#### 7.0 OPEN SPACE

This site shall comply with minimum open space set-aside requirements as defined in Section 5.7.4 where commercial open space is required to be 3%. This site complies with the open space through the use of the stormwater detention facility as passive open space which makes up 3.6% of the site area.

#### 8.0 UTILITIES

Sheetz will demolish and replace the existing water, sanitary sewer, and storm laterals onsite.

- A proposed water lateral connects the proposed building to the main off of Pearces Road.
- A proposed sanitary lateral and sanitary lateral with a grease trap connects to the main off of Pearces Road.
- There are multiple stormwater pipes proposed on site. All proposed stormwater pipes convey water from the site via curb inlets to the existing wet pond north of the site. This water is then conveyed to the rock swale along N Arendell Avenue which is consistent with existing drainage patterns.

This project will meet the 60 points required for the Utility Allocation Policy by the following:

- 40 base points for single use retail
- 3 points for abatement of any existing non-conforming structures
- 2 points for enhanced buffer landscaping
- 10 points for installation of native shade tree species
- 1 point for deck/patio more than 1000 square feet
- 2 points for canopy including fixed permanent seating
- 1 point for permanent tables with shade cover
- 1 point for artist-design bicycle racks

#### 9.0 TRANSPORATION IMPACT ANALYSIS

A traffic impact analysis was completed by Kimley-Horn dated June 1, 2025 and is attached in Appendix C.

NCDOT TIP project U-5118 FB proposes to construct an additional southbound through lane along NC 96 beginning approximately 830 feet north of the intersection of NC 96 at Pearces Road and ending at US 64-264 WB Ramps/Dogwood Drive. At the intersection of NC 96 at Pearces Road, the westbound right lane is expected to be restriped to a shared left/right lane and the existing traffic signal is expected to be modified to accommodate these improvements. While this project was considered for inclusion during scoping discussions with the Town, it was ultimately excluded in order to provide a conservative analysis of the intersection of NC 96 at Pearces Road.

All study intersections are expected to operate with acceptable levels-of service and, based on SimTraffic observations, maximum queues are expected to increase minimally with the redevelopment of the Sheetz. Therefore, no improvements are recommended with the proposed expansion.

#### 10.0 CONDITIONS

This project is subject to the following conditions:

1. The fuel pump canopy island shall be located between the proposed building and N. Arendell Avenue (NC 96).

Summary of Proposed Condition: This condition is proposed following extensive review with staff and Applicant's discussion with surrounding property owners. The subject property is unique insofar as it not only sits at the intersection of Pearces Road and North Arendell Avenue – but also the property boundary and intersection configuration creates an acute angle as North Arendell Avenue runs southwest along the boundary line. This creates significant limitations on the location of the fuel pump canopy island – with the proposed option as shown on the site plan being preferable to promote (and not inhibit) site circulation. Additionally, it places a key activity center towards the intersection – and away from the neighboring properties (including an adjacent townhome/residential property) in an effort to minimize any effect of this redevelopment.

2. No more than sixty percent (60%) of off-street parking will be located between the proposed structure's primary façade and North Arendell Avenue.

<u>Summary of Proposed Condition</u>: As reflected in the site plan, Applicant is proposing forty-five (45) total parking spaces. Nineteen (19) of those spaces are located on/along the sides of the primary structure with twenty-six (26) spaces located along the frontage of the building and to the right of the fuel pump canopy. This total is actually 57.78% of the total parking and a slight increase above the requirement in the ordinance of no more than fifty percent (50%) located between the primary façade and the adjoining street.

This request is needed to focus site activity on the middle of the site and at the access points, which will promote safe, effective, and efficient ingress and egress. It will minimize any impacts to the adjoining properties – including the townhome/residential property adjoining this site. Additionally, this parking configuration is necessary to avoid any conflicts with the proposed pick-up lane – which significantly limits/restricts the rear area of the subject site for parking.

3. The proposed dumpster enclosure shall be located as shown on the site plan. The proposed dumpster shall be fully screened and enclosed. The enclosure shall be built consistent with the elevations, attached hereto and made a condition hereof. The enclosure shall be constructed with brick, concrete masonry, and pressure treated wood (or reasonably similar quality materials) to ensure aesthetic consistency with the primary structure.

<u>Summary of Proposed Condition</u>: Applicant consulted with the adjacent residential property owners and property owners' association. In those discussions, the location of the proposed dumpster enclosure was a focal point. The adjacent residential property owners specifically requested that the dumpster enclosure be located/relocated away from the shared property boundary. In an effort to address those concerns, Applicant has proposed this location as shown on the site plan – which will be fully screened from view of any right-of-way and composed of masonry, brick, wood, or similar

materials (as shown in the elevation). These materials match the aesthetic of the proposed primary structure.

4. The primary wall/façade (facing North Arendell Avenue) will be occupied by no less than twenty-seven percent (27%) of visually transparent windows or doors. Applicant shall supplement with additional false/opaque windows and/or articulated wall forms.

Summary of Proposed Condition: Applicant seeks a slight adjustment from Section 5.3.1.F.7(a) of the Commercial Design Standards for fenestration for the primary façade facing North Arendell Avenue As shown on the elevations and proposed designs for this site, Applicant provides significant fenestration and transparent windows and doors along the primary façade. The proposed percentage in this condition is the maximum Applicant is able to reasonably provide, given that Applicant cannot (for security and safety reasons) place transparent windows and doors where interior bathrooms or storage areas are located. Applicant will supplement the primary façade with false/opaque windows and/or articulated wall forms to meet the intent of the fenestration design standards.

5. The secondary wall/façade (facing Pearces Road) will be occupied by no less than twenty-four (24%) of visually transparent windows or doors, false or opaque windows, or articulated wall forms.

Summary of Proposed Condition: Applicant seeks a slight adjustment from Section 5.3.1.F.7(b) of the Commercial Design Standards for fenestration for the secondary façade facing Pearces Road. As shown on the elevations and proposed designs for this site, Applicant provides significant fenestration and transparent windows and doors along the secondary façade facing Pearces Road. The proposed percentage in this condition is the maximum Applicant is able to reasonably provide, given that Applicant cannot (for security and safety reasons) place transparent windows and doors where interior bathrooms or storage areas are located. Where possible, Applicant will supplement the secondary façade with false/opaque windows and/or articulated wall forms to meet the intent of the fenestration design standards.

6. The street setback for Pearces Road shall be ten (10) feet for the dumpster enclosure.

<u>Summary of Proposed Condition</u>: Applicant seeks a slight adjustment from the street setback requirement for Pearces Road, as detailed in Section 3.4.4(C). Specifically, the requested street setback for Pearces Road of ten (10) feet is primarily to facilitate the proposed location of the dumpster enclosure. This is a narrow request, insofar as the structures, the fuel pumps, and parking are all compliant with the thirty (30) foot street setback from Pearces Road.

7. The side perimeter buffer for the boundary adjoining the property located at 1420 North Arendell Avenue (PIN: 1796919353) shall be three (3) feet.

<u>Summary of Proposed Condition</u>: Applicant requests a three-foot side perimeter buffer for the boundary adjoining the property located at 1420 North Arendell Avenue (PIN: 1796919353). Applicant will maintain a three-foot perimeter buffer at this location – which will supplement and enhance existing buffering located on the adjoining commercial property. This request is appropriate given site limitations for increased buffering along that boundary line – specifically, given the drive access that connects the two sites and the need for an adequate drive aisle for ingress, egress, and circulation. This proposed condition also aligns with the existing curb lines at the subject property.

8. The streetscape buffer along North Arendell Avenue and Pearces Road shall be zero (0) feet.

<u>Summary of Proposed Condition</u>: Applicant requests the elimination of the streetscape buffer requirement along North Arendell Avenue and Pearces Road. Applicant is arguably exempt from that requirement, pursuant to Section 5.6.12(C)(1), where the primary building façade "is visible from the arterial or collector street right-of-way." Here, the primary façade is directly visible from the rights-of-way for Pearces Road and North Arendell Avenue. Additionally, Applicant proposes this condition, given the site layout and to ensure safe visibility to and from the site, and to maintain the existing curb lines.

Additionally, Applicant proposes this condition because the proposed plantings and landscaping, as shown on the landscape plan, is the maximum Applicant is reasonably able to provide, given the location of rights-of-way, easements, and a retaining wall, all of which significantly constrain Applicant's ability to include additional streetscape buffering beyond what is shown. Applicant is planting additional trees and landscaping beyond what is required in other areas of the subject property and is willing to consider further supplementation in those areas, as needed.

9. Parking spaces 11, 12, 13, and 14 (as shown on the site plan) shall be permitted to be further than fifty (50) feet from the trunk of a canopy tree. Planters shall be located along the sidewalk at the storefront to enhance landscaping for the parking area and for the parking spaces 11, 12, 13, and 14.

Summary of Proposed Condition: More than 90% of the proposed parking spaces will be within fifty (50) feet of the trunk of a canopy tree, which complies with the landscape requirements of the Town's ordinances. The parking spaces directly in front of the primary façade/entry for the subject property are slightly beyond that fifty (50) foot distance and Applicant has reasonably located proposed canopy trees as close to those spaces as reasonably practicable. To supplement the landscaping for the parking area, Applicant shall locate planters along the walkway adjoining those front spaces (including parking spaces 11, 12, 13, and 14).

## **APPENDIX A: VICINITY MAP**

Attachment 4





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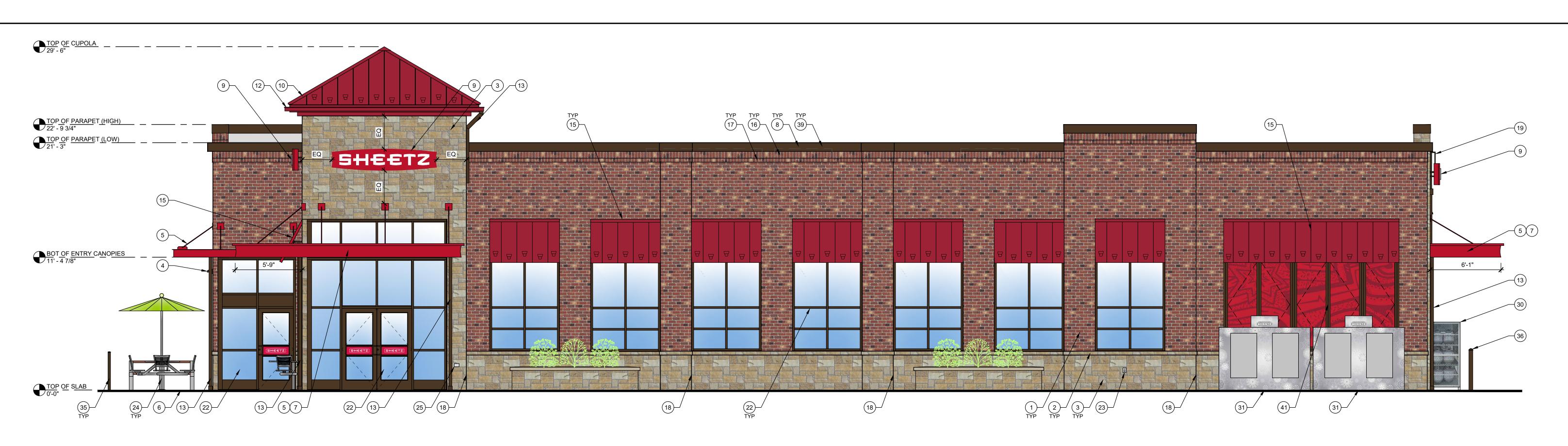
**VICINITY MAP** 

SHEETZ 1406 N ARENDELL AVE KHA PROJECT 110529004

DATE 04/03/2025 SCALE AS SHOWN

CHECKED BY

## **APPENDIX B: BUILDING ELEVATIONS**



# 1 FRONT ELEVATION 1/4" = 1'-0"

TYPICAL EXTERIOR ELEVATION NOTES:

- ALL LIGHTS SHOWN ABOVE AND/OR BELOW DOORS OR WINDOWS ARE
  TO BE CENTERED ON THE DOOR OR WINDOW UNLESS NOTED
  OTHERWISE.
- FIXTURES/EQUIPMENT BETWEEN TWO DOORS OR WINDOWS ARE TO BE CENTERED EQUALLY.
- EXTERIOR SEALANT FOR STONE SHALL COMPLY WITH SECTION 07 9005
  JOINT SEALANTS, GENERAL BUILDING FASCADE WEATHER SEALANT
  AND SHALL MATCH THE COLOR OF THE STORE.
- EXTERIOR ELEVATION KEYNOTES:

  BRICK VENEER, COLOR: 680 BY CONTINENTAL BRICK COMPANY. SEE
- MASONRY SPEC

  (2) CAST STONE SILL, COLOR: CRAB ORCHARD. SEE MASONRY SPEC
- ANCHORED CAST STONE MASONRY VENEER, COLOR: CRAB ORCHARD. SEE MASONRY SPEC
- 4 EXTERIOR LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
- ARCHITECTURAL CANOPY, COLOR: REGAL RED, PREMIUM TWO-COAT KYNAR FINISH
- 6 BRICK PAVER WALKWAY
- 7 LIGHTED CURVED FASCIA CANOPY ATTACHMENT
- 8 METAL COPING, COLOR: DARK BRONZE
- 9 WALL MOUNTED BUILDING SIGN, SEE SHEET A200.
- (10) STANDING SEAM METAL ROOF, COLOR: BRITE RED
- (11) NOT USED
- 12 GUTTER, COLOR TO MATCH CUPOLA COLOR
- 13) DOWNSPOUT, COLOR: DARK BRONZE
- 14 DRIVE-THRU WINDOW (IF APPLICABLE)
- METAL STANDING SEAM SHED STYLE AWNING AND FRAME ASSEMBLY, ROOF COLOR: BRITE RED, FRAME COLOR: DARK BRONZE
- BRICK SOLDIER COURSE, COLOR: 680 BY CONTINENTAL BRICK COMPANY. SEE MASONRY SPEC
- BRICK ROWLOCK COURSE, COLOR: 680 BY CONTINENTAL BRICK COMPANY. SEE MASONRY SPEC
- (18) CONTROL JOINT, SEE MASONRY SPEC
- 19 STEEL ROOF LADDER AND CRANKY POST, COLOR: DARK BRONZE
- STANDARD THROUGH WALL SCUPPER WITH CONDUCTOR HEAD & DOWNSPOUT, COLOR: DARK BRONZE
- (21) OVERFLOW SCUPPER
- 22) ALUMINUM STOREFRONT SYSTEM, SEE A600
- 23 EXTERIOR HOSE BIB, REFER TO PLUMBING DRAWINGS
- 24 OUTDOOR FURNITURE
- (25) ELECTRICAL RECEPTACLE, REFER TO ELECTRICAL DRAWINGS
- (26) ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS
- 27) HM DOOR AND FRAME, COLOR: DARK BRONZE
- 28 EMERGENCY WATER CONNECTION, REFER TO PLUMBING DRAWINGS
- SEAMLESS ALUM PANEL SYSTEM WITH EXPOSED FASTENERS, COLOR: DARK BRONZE
- (30) PROPANE LOCKER
- (31) ICE MERCHANDISER
- 32 RTI FILLPORT
- 33 STEEL BOLLARD, COLOR: DARK BRONZE
- 34) CO2 FILLPORT
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- 36 AUTOMATIC DOOR PUSH PLATE AND BOLLARD, BOLLARD COLOR: DARK BRONZE
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- 38 NOT USED
- LIGHT CHANNEL AT PARAPET COPING. SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- (40) NOT USED
- (41) FAUX WINDOWS WITH INTERNAL GRAPHIC

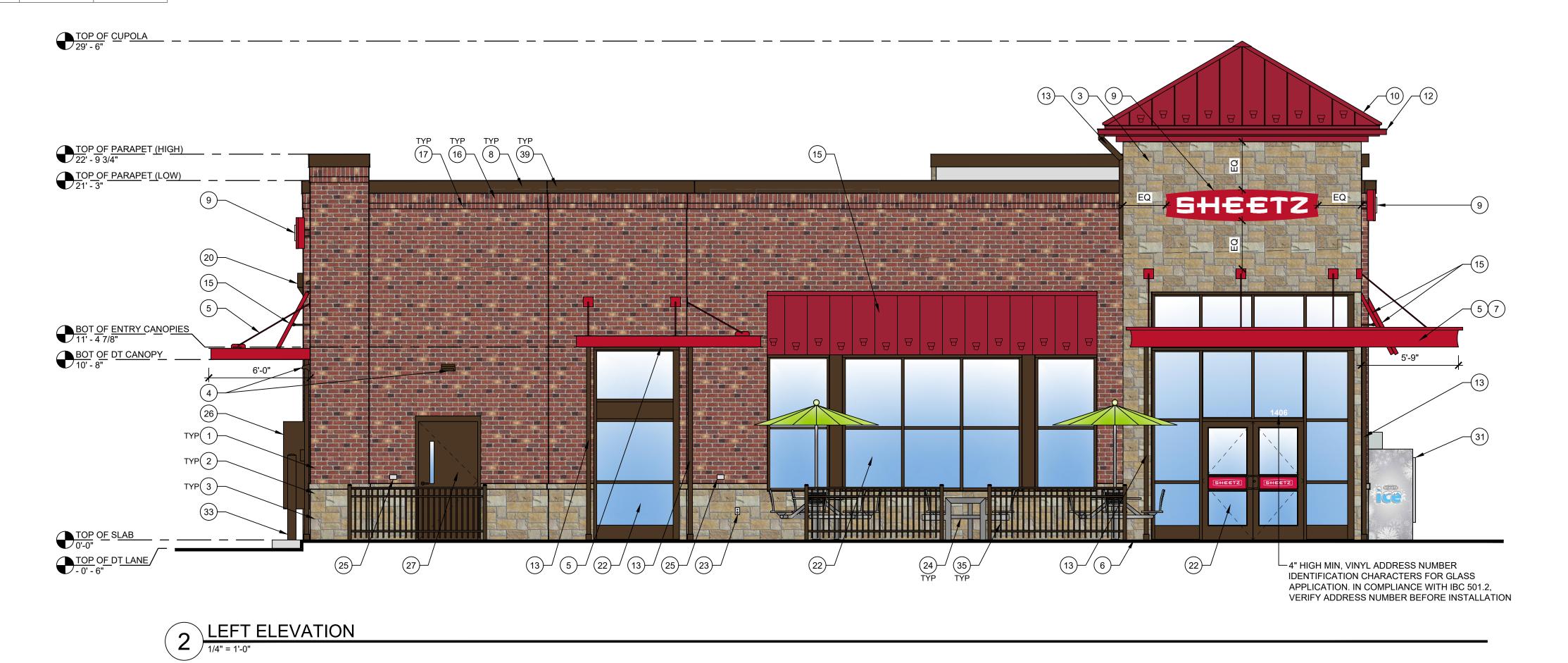
 GLAZING CALCULATION FRONT ELEVATION = 2199.82 SQ FT

 DESCRIPTION
 40% OF COVERAGE REQ
 PROVIDED

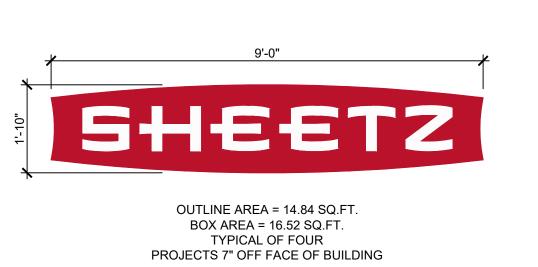
 TRANSPARENT GLAZING
 879.92 SQ FT
 590.61 SQ FT

 FAUX WINDOW GLAZING
 879.92 SQ FT
 120.61 SQ FT

 TOTAL GLAZING
 879.92 SQ FT
 711.22 SQ FT



GLAZING CALCULATION FRONT ELEVATION = 1275.16 SQ FT								
DESCRIPTION 30% OF COVERAGE REQ PROVIDED								
TRANSPARENT GLAZING	383 SQ FT	392.2 SQ FT						
FAUX WINDOW GLAZING	N/A	N/A						
TOTAL GLAZING	383 SQ FT	392.2 SQ FT						



A WALL MOUNTED "SHEETZ" BUILDING SIGN

Convenience Architecture and Design P.C.

351 Sheetz Way, Claysburg, PA 16625

phone (814) 239-6013 email tcolumbu@sheetz.com web site www.sheetz.com

PROJECT NAME:

NEW SHEETZ STORE STORE #416R

ZEBULON ARENDALL AVE.

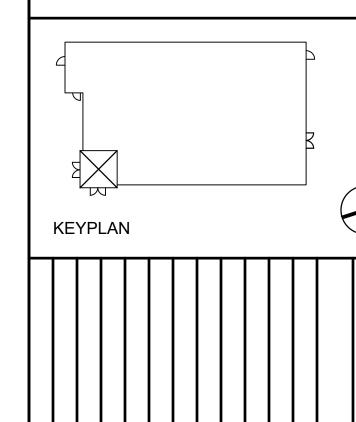
Int. of North Arendall Avenue and Pearces Road Zebulon, NC 27597-8734

OWNER: SHEETZ, INC.

5700 SIXTH AVE. ALTOONA, PA 16602

CONSULTANT

PROFESSIONAL



AARK DATE DESCRIPTION

ISSUE: 09.10.2025

SITE ID NO: 416R

AUTHOR BY: RJK / AMM

REVIEW BY: TMC / RJH

EXTERIOR ELEVATIONS

6139\_v1.8

VERSION:

Δ20

PRELIMIN





## TYPICAL EXTERIOR ELEVATION NOTES:

- ALL LIGHTS SHOWN ABOVE AND/OR BELOW DOORS OR WINDOWS ARE TO BE CENTERED ON THE DOOR OR WINDOW UNLESS NOTED
- FIXTURES/EQUIPMENT BETWEEN TWO DOORS OR WINDOWS ARE TO BE CENTERED EQUALLY.
- EXTERIOR SEALANT FOR STONE SHALL COMPLY WITH SECTION 07 9005 AND SHALL MATCH THE COLOR OF THE STORE.

# EXTERIOR ELEVATION KEYNOTES:

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- (2) CAST STONE SILL, COLOR: CRAB ORCHARD. SEE MASONRY SPEC
- ANCHORED CAST STONE MASONRY VENEER, COLOR: CRAB ORCHARD. SEE MASONRY SPEC
- (4) EXTERIOR LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
- ARCHITECTURAL CANOPY, COLOR: REGAL RED, PREMIUM TWO-COAT Y KYNAR FINISH

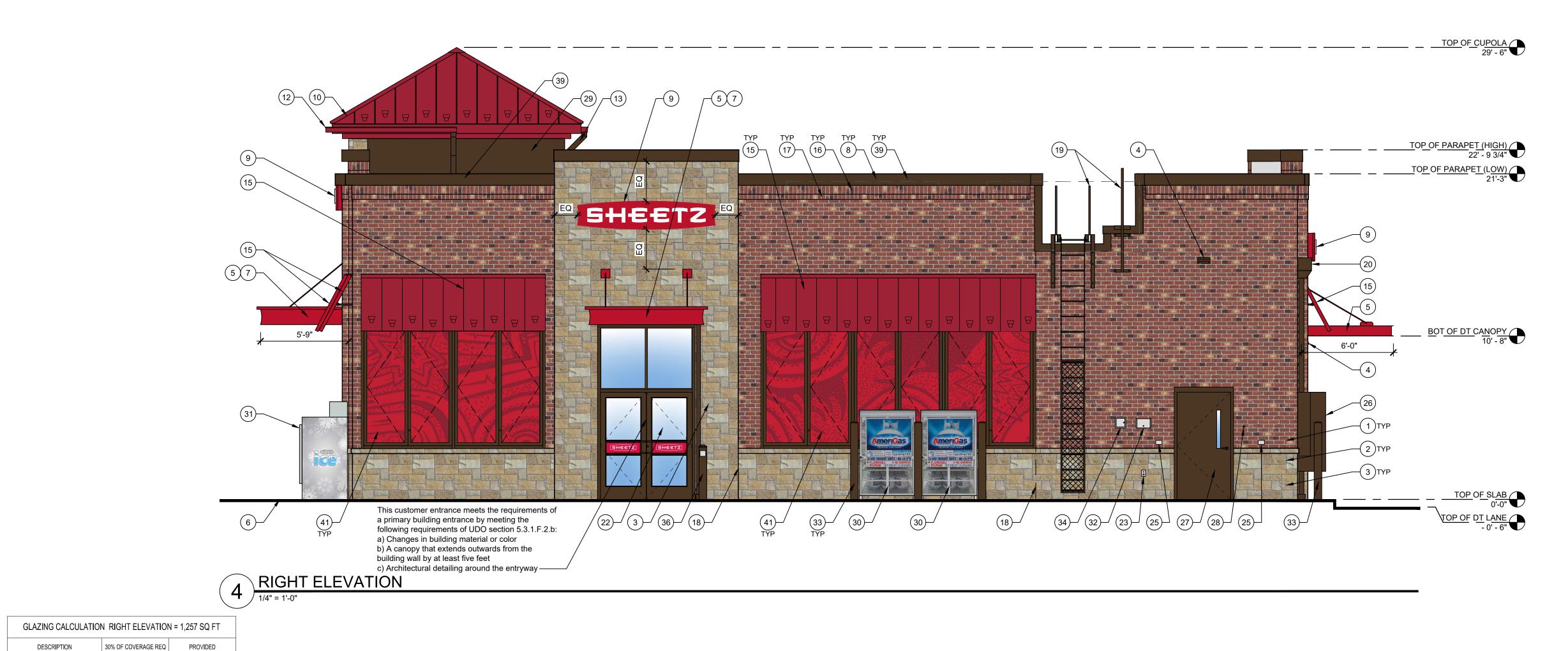
# (6) BRICK PAVER WALKWAY

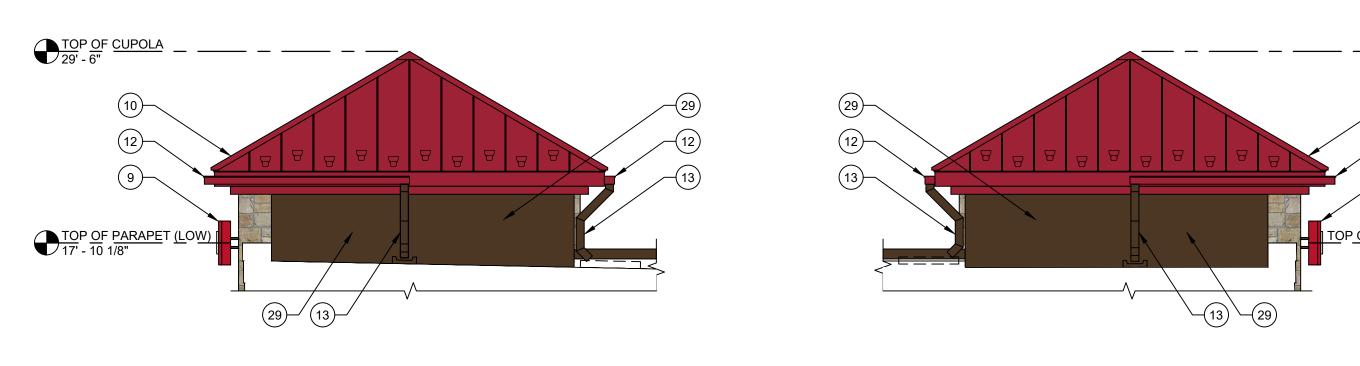
- (7) LIGHTED CURVED FASCIA CANOPY ATTACHMENT
- (8) METAL COPING, COLOR: DARK BRONZE
- (9) WALL MOUNTED BUILDING SIGN, SEE SHEET A200.
- (10) STANDING SEAM METAL ROOF, COLOR: BRITE RED
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- (25) ELECTRICAL RECEPTACLE, REFER TO ELECTRICAL DRAWINGS
- (26) ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS
- (27) HM DOOR AND FRAME, COLOR: DARK BRONZE
- (28) EMERGENCY WATER CONNECTION, REFER TO PLUMBING DRAWINGS

TRANSPARENT GLAZING

FAUX WINDOW GLAZING TOTAL GLAZING

- SEAMLESS ALUM PANEL SYSTEM WITH EXPOSED FASTENERS, COLOR: DARK BRONZE
- (30) PROPANE LOCKER
- (31) ICE MERCHANDISER
- (32) RTI FILLPORT
- (33) STEEL BOLLARD, COLOR: DARK BRONZE
- (34) CO2 FILLPORT
- (35) DECORATIVE ALUMINUM FENCE, COLOR DARK BRONZE
- AUTOMATIC DOOR PUSH PLATE AND BOLLARD, BOLLARD COLOR: DARK BRONZE
- GAS METER AND RISER, REFER TO CIVIL UTILITY PLAN, COLOR: DARK BRONZE
- (38) NOT USED
- LIGHT CHANNEL AT PARAPET COPING. SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- (40) NOT USED
- (41) FAUX WINDOWS WITH INTERNAL GRAPHIC



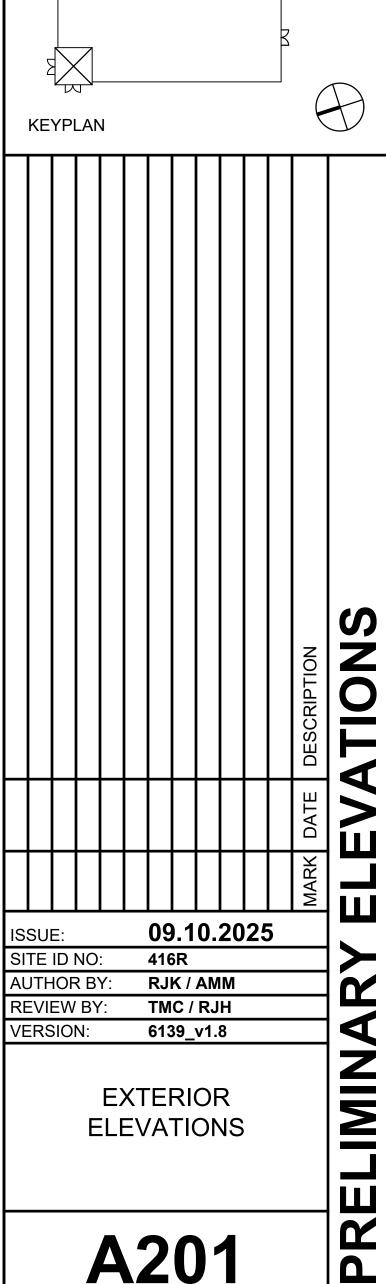


5 CUPOLA ELEVATION FROM ROOF



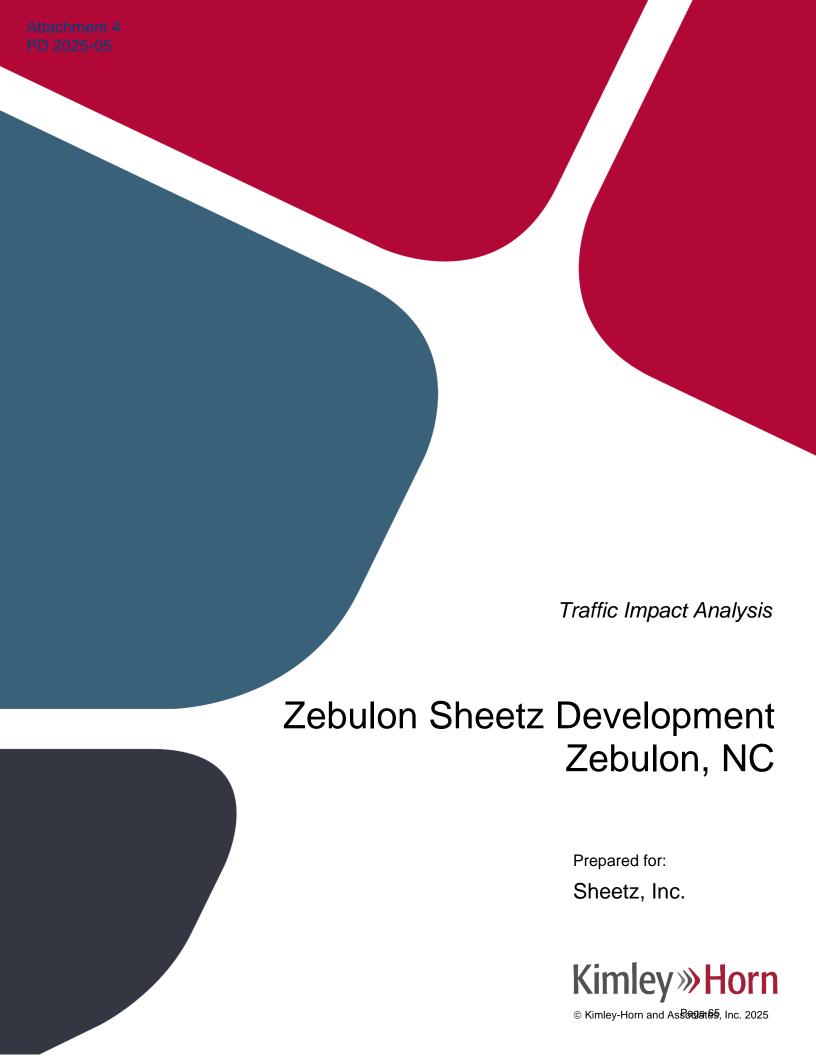
Convenience Architecture and *Design* P.C. 351 Sheetz Way, Claysburg, PA 16625 (814) 239-6013 tcolumbu@sheetz.com web site www.sheetz.com PROJECT NAME: **NEW SHEETZ STORE** STORE #416R ZEBULON ARENDALL AVE. Int. of North Arendall Avenue and Pearces Road Zebulon, NC 27597-8734 OWNER: SHEETZ, INC. 5700 SIXTH AVE. ALTOONA, PA 16602 CONSULTANT

PROFESSIONAL



**A201** 

## **APPENDIX C: TRAFFIC IMPACT ANALYSIS**



#### **Traffic Impact Analysis for**

## **Zebulon Sheetz Development**

Zebulon, North Carolina

Prepared for:

Sheetz, Inc.

#### Prepared by:

Kimley-Horn and Associates, Inc. NC License #F-0102 421 Fayetteville Street, Suite 600 Raleigh, NC 27601 (919) 677-2000



June 2025 110529004



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## Kimley » Horn

Zebulon Sheetz Development – Zebulon, NC

#### **Executive Summary**

Kimley-Horn and Associates, Inc. has performed a Traffic Impact Analysis for the Zebulon Sheetz redevelopment, located east of NC 96 and north of Pearces Road in Zebulon, NC. The existing Sheetz on the property consists of a 5,000 square foot (s.f.) convenience store/gas station with 12 vehicle fueling positions (vfp). The development is proposing to demolish the existing store and build a new store with a 6,150 s.f. convenience store/gas station with 14 vfp. The site can currently be accessed via a right-in/right-out only driveway along NC 96 and a full movement driveway along Pearces Road. No changes to site access are proposed as part of this redevelopment. Build-out of the development is anticipated by 2026.

This report presents trip generation, distribution, traffic analyses, and recommendations for transportation improvements required to meet anticipated traffic demands in conjunction with the development.

Per the Town of Zebulon (Town) Unified Development Ordinance (UDO), the future traffic conditions were analyzed for the build-out year plus one year into the future after the development is completed (2027). Therefore, the traffic conditions studied include the following:

- Existing (2025)
- Background (2027)
- Build-out (2027)

#### **Trip Generation**

The traffic generation potential of the proposed development was determined using the trip generation data published in *Trip Generation* (Institute of Transportation Engineers, Eleventh Edition, 2021). As shown in <u>Table ES-1</u> located on the following page, compared to the existing Sheetz store on the site, the proposed store is projected to generate approximately 196 additional new daily trips, 16 new AM peak hour trips, and 16 new PM peak hour trips.

iv Page 68

	Table ES-1 ITE Traffic Generation (Vehicles)											
Land Use		Intensity		Daily		AM Peak Hour		PM Peak Hour		our		
	Luna 000	1111011	intensity		Total In Out		Total In Out		Total In Out			
945	Convenience Store/Gas Station: 9-15 vfp - Existing	5,000	s.f.	3,502	1,751	1,751	283	142	141	273	137	136
945	Convenience Store/Gas Station: 9-15 vfp - Proposed	6,150	s.f.	4,308	2,154	2,154	348	174	174	335	168	167
	Pass-By Reductions - Existing		2,644	1,322	,322	215	108	107	205	103	102	
Pass-By Reductions - Proposed		3,254	1,627	1,627	264	132	132	251	126	125		
D	Difference in Pass-By Reductions		610	305	305	49	24	25	46	23	23	
Total Net New External Trips - Existing		858	429	429	68	34	34	68	34	34		
Tota	Total Net New External Trips - Proposed		1,054	527	527	84	42	42	84	42	42	
Difference in Total Net New External Trips			196	98	98	16	8	8	16	8	8	

#### Capacity Analysis

Capacity analyses were performed using Synchro Version 12 software. <u>Table ES-2</u> summarizes the operation of the study intersections for the AM and PM peak hour traffic conditions.

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	Table ES-2	- Level of Sei	vice Summa	ry			
Intersection and Approach/Movement	Traffic Control	_	g (2025) ffic	_	nd (2027) ffic		ıt (2027) ffic
		AM	PM	AM	PM	AM	PM
NC 96 at Pearces Road		C (21.8)	B (15.1)	C (26.4)	B (17.5)	C (26.9)	B (17.9)
Eastbound	Signalized	B (16.6)	B (11.6)	C (21.9)	B (15.3)	C (22.2)	B (15.6)
Westbound	Signanzeu	B (15.3)	A (7.5)	B (19.9)	A (9.8)	C (20.3)	B (10.0)
Southbound		D (42.3)	D (50.4)	D (43.8)	D (48.4)	D (44.4)	D (48.7)
NC 96 at Site Driveway 1	Unsignalized	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
Southbound	Offsignatized	B (14.4)	C (15.6)	C (15.8)	C (18.2)	C (15.9)	C (18.5)
Pearces Road at Site Driveway 2		- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
Eastbound	Unsignalized	B (13.9)	C (17.2)	C (16.4)	C (22.9)	C (17.9)	D (26.8)
Northbound Left		A (8.5)	A (8.2)	A (8.9)	A (8.5)	A (9.0)	A (8.6)

## Kimley » Horn

Zebulon Sheetz Development - Zebulon, NC

#### **Conclusions**

NCDOT TIP project U-5118 FB proposes to construct an additional southbound through lane along NC 96 beginning approximately 830 feet north of the intersection of NC 96 at Pearces Road and ending at US 64-264 WB Ramps/Dogwood Drive. At the intersection of NC 96 at Pearces Road the westbound right lane is expected to be restriped to a shared left/right lane and the existing traffic signal is expected to be modified to accommodate these laneage improvements. While this project was considered for inclusion during scoping discussions with the Town, it was ultimately excluded in order to provide a conservative analysis of the intersection of NC 96 at Pearces Road.

All study intersections are expected to operate with acceptable levels-of service and, based on SimTraffic observations, maximum queues are expected to increase minimally with the redevelopment of the Sheetz. Therefore, no improvements are recommended with the proposed expansion.

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## Kimley » Horn

TRIP GENERATION

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Zebulon Sheetz Development - Zebulon, NC

### 1.0 Introduction

Kimley-Horn and Associates, Inc. has performed a Traffic Impact Analysis for the Zebulon Sheetz redevelopment, located east of NC 96 and north of Pearces Road in Zebulon, NC. The existing Sheetz on the property consists of a 5,000 square foot (s.f.) convenience store/gas station with 12 vehicle fueling positions (vfp). The development is proposing to demolish the existing store and build a new store with a 6,150 s.f. convenience store/gas station with 14 vfp. The site can currently be accessed via a right-in/right-out only driveway along NC 96 and a full movement driveway along Pearces Road. No changes to site access are proposed as part of this redevelopment. Build-out of the development is anticipated by 2026.

This report presents trip generation, distribution, traffic analyses, and recommendations for transportation improvements required to meet anticipated traffic demands in conjunction with the development.

Per the Town of Zebulon (Town) Unified Development Ordinance (UDO), the future traffic conditions were analyzed for the build-out year plus one year into the future after the development is completed (2027). Therefore, the traffic conditions studied include the following:

- Existing (2025)
- Background (2027)
- Build-out (2027)

Town planning staff provided background data and were consulted regarding the elements to be covered in this analysis. The approved assumptions memorandum is included in the Appendix of this report.



### 2.0 Inventory

### 2.1 Study Area

The study area for this development includes the following intersections:

- NC 96 at Pearces Road
- NC 96 at Site Driveway 1
- Pearces Road at Site Driveway 2

**Figure 2.1** shows the site location and driveway connections. The conceptual site plan is shown on **Figure 2.2**.

### 2.2 Existing Conditions

The Zebulon Sheetz development is located east of NC 96 and north of Pearces Road in Zebulon, NC. Roadways in the study area include NC 96 and Pearces Road. Roadway network elements (speed limit, estimated average daily traffic volume, and existing configuration) of study area roadways are summarized in <u>Table 2.1</u>. The existing roadway laneage is shown in **Figure 2.3**.

Table 2.1 Roadway Network Summary										
Roadway	Speed Limit	Estimated AADT Volume	Typical Existing Configuration							
NC 96	35 mph	12,500 vpd west of Pearces Road*; 24,000 vpd east of Pearces Road**	2-Lane Undivided/ 4-Lane Undivided							
Pearces Road	35 mph	7,500 vpd north of NC 96***	2-Lane Undivided							

<sup>\*2021</sup> AADT from NCDOT.

### 2.3 Future Roadway Improvements

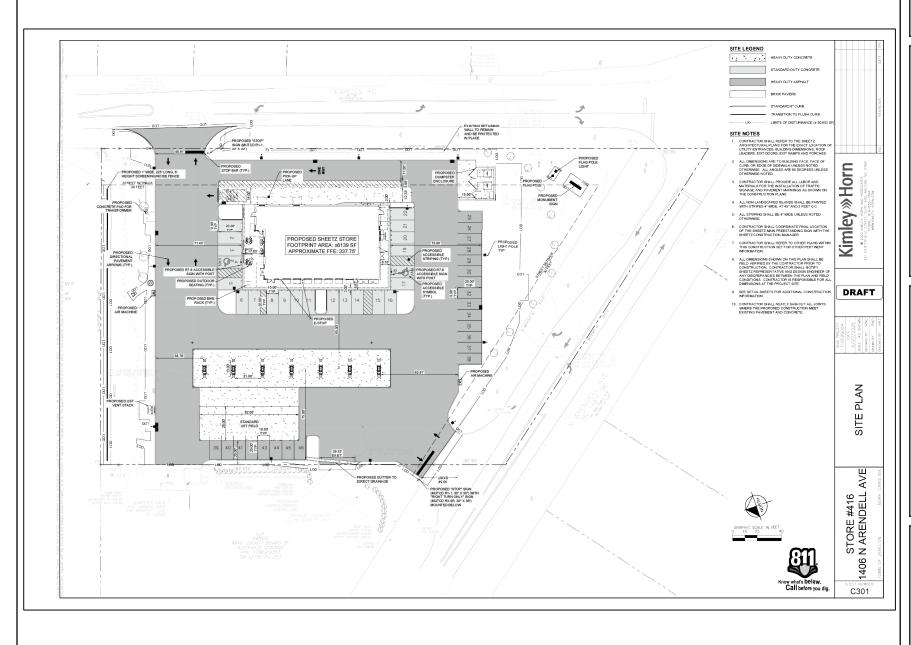
NCDOT TIP project U-5118 FB proposes to construct an additional southbound through lane along NC 96 beginning approximately 830 feet north of the intersection of NC 96 at Pearces Road and ending at US 64-264 WB Ramps/Dogwood Drive. At the intersection of NC 96 at Pearces Road the westbound right lane is expected to be restriped to a shared left/right lane and the existing traffic signal is expected to be modified to accommodate these laneage improvements. While this project was considered for inclusion during scoping discussions with the Town, it was ultimately excluded in order to provide a conservative analysis of the intersection of NC 96 at Pearces Road.

<sup>\*\*2023</sup> AADT from NCDOT

<sup>\*\*\*</sup>ADT was calculated for this roadway using existing AM and PM traffic volumes, assuming the total of those peak hours is 20% of the daily traffic volumes.

Attachment 4 PD 2025-05 FIGURE 2.1 SITE LOCATION NOT TO SCALE SHEETZ NN, NC CT ANALYSIS LEGEND STUDY INTERSECTION

FIGURE



### 3.0 Traffic Generation

The traffic generation potential of the proposed development was determined using the traffic generation data published in *Trip Generation* (Institute of Transportation Engineers, Eleventh Edition, 2021). As currently envisioned, the proposed redevelopment is planned to consist of 6,150 s.f. convenience store/gas station with 14 vfp. <u>Table 3.0</u> summarizes the estimated traffic generation for the proposed development.

	Table 3.0 ITE Traffic Generation (Vehicles)												
Land Use		Intensity		Daily			AM	Peak H	our	PM Peak Hour			
				Total	Total In Ou		Total In Out		Out	Total In		Out	
945	Convenience Store/Gas Station: 9-15 vfp - Existing	5,000	s.f.	3,502	1,751	1,751	283	142	141	273	137	136	
945	Convenience Store/Gas Station: 9-15 vfp - Proposed	6,150	s.f.	4,308	2,154	2,154	348	174	174	335	168	167	
	Pass-By Reductions -	Existing		2,644	1,322	,322	215	108	107	205	103	102	
Pass-By Reductions - Proposed		3,254	1,627	1,627	264	132	132	251	126	125			
D	Difference in Pass-By Reductions		610	305	305	49	24	25	46	23	23		
Total Net New External Trips - Existing		858	429	429	68	34	34	68	34	34			
Tota	Total Net New External Trips - Proposed		1,054	527	527	84	42	42	84	42	42		
Differ	ence in Total Net New	External	Trips	196	98	98	16	8	8	16	8	8	

<u>Table 3.0</u> shows that the proposed development has the potential to generate 6,894 new daily trips in a typical weekday with 196 new daily trips, 16 new AM peak hour trips, and 16 new PM peak hour trips.

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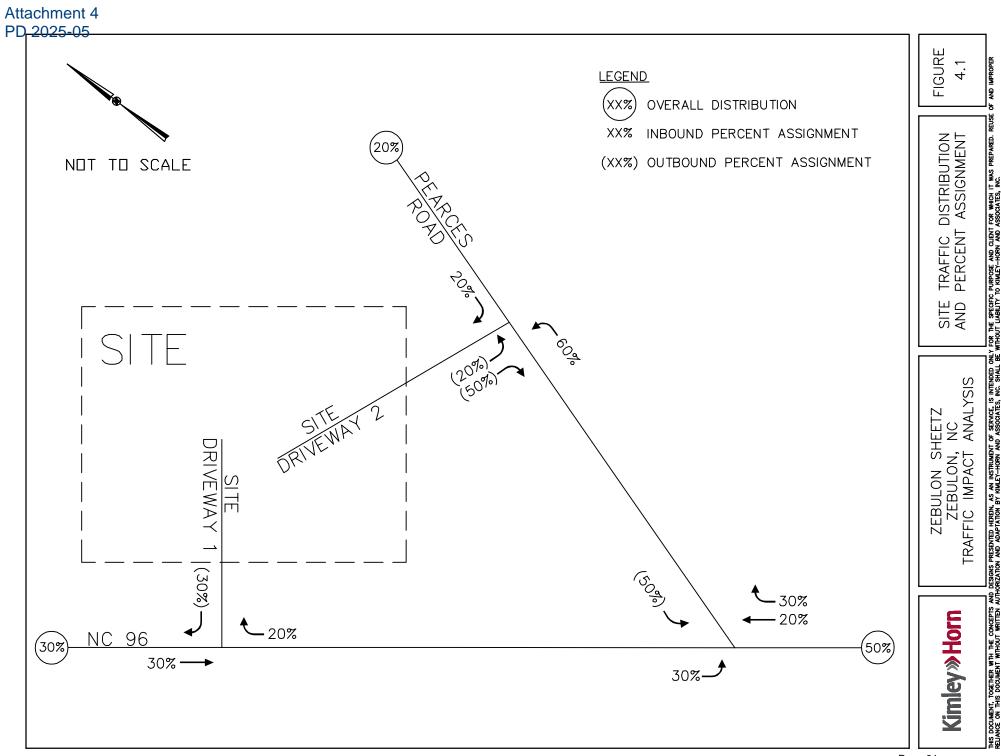
Zebulon Sheetz Development – Zebulon, NC

### 4.0 Site Traffic Distribution

The proposed site generated trips were assigned to the surrounding roadway network. The directional distribution and assignment are based on existing travel patterns.

- 50% to/from the east via NC 96
- 30% to/from the west via NC 96
- 20% to/from the north via Peaces Road

The site traffic distribution and assignment are shown in **Figure 4.1**. The AM and PM pass-by trip distribution and assignments are shown in **Figure 4.2** and **Figure 4.3**, respectively.



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### 5.0 Projected Traffic Volumes

### 5.1 Existing Traffic

AM peak hour (7:00 to 9:00 AM) and PM peak hour (4:00 to 6:00 PM) turning movement counts were performed at the following study intersection on January 28, 2025 while area schools were in session:

NC 96 at Pearces Road

AM peak hour (7:00 to 9:00 AM) and PM peak hour (4:00 to 6:00 PM) turning movement counts were performed at each of the following study intersections on March 26, 2025, while area schools were in session:

- NC 96 at Site Driveway 1
- Pearces Road at Site Driveway 2

The existing AM and PM peak hour traffic volumes are shown on **Figure 5.1** and **Figure 5.2**, respectively, and the traffic count data are included in the Appendix.

### 5.2 Approved Development Traffic

Approved development traffic is generated by approved but not yet constructed projects in the vicinity of the proposed project. Based on discussions with the Town and NCDOT, there were four (4) approved developments in the study area that were identified for inclusion as background traffic. These approved developments include 7-Eleven Convenience Store, Clifton Grove (formerly Pearces Road Residential), Domino's, and Weaver's Ridge.

### 7-Eleven Convenience Store

- Location: East of NC 96 and north of US 64-264
- Land Uses: 4,714 s.f. convenience store with 16 vehicle fueling pumps and 3 truck fueling pumps
- Data Source: Zebulon 7-Eleven Convenience Store TIA (Impact Designs, Inc., March 2023)

### Clifton Grove (formerly Pearces Road Residential)

- Location: West of Pearces Road and south of Pippin Road
- Land Uses: 232 single family detached units
- Data Source: Pearces Road Residential Development TIA (Timmons Group, October 2020)

### Zebulon Domino's

- Location: North of Dogwood Drive and east of NC 96
- Land Uses: 1,632 s.f. Domino's Restaurant
- Data Source: Zebulon Domino's TIA (DRMP, Inc., November 2024)

### Weaver's Ridge

- Location: East of NC 96 across from Glory Road
- Land Uses: 124 townhomes and 58 single-family homes

• Data Source: Weaver's Ridge Traffic Study (Ramey Kemp & Associates, Inc., July 2019)

Approved development traffic volumes for the future year scenarios are shown on **Figure 5.1** and **Figure 5.2** for the AM and PM peak hours, respectively.

### 5.3 Historic Growth Traffic

Historic growth traffic is the increase in traffic due to usage increases and non-specific growth throughout the area. In addition to the approved development traffic and per Town requirements, study intersections were grown to the 2027 build-out year using an annual growth rate of 2.5%.

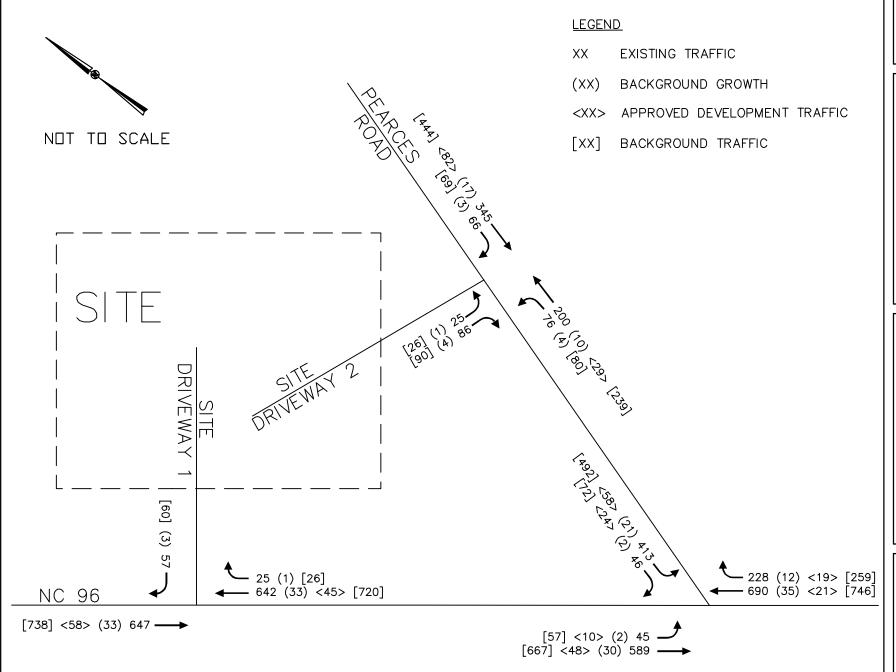
Projected future year (2027) background AM and PM peak hour traffic volumes are shown on **Figure 5.1** and **Figure 5.2**, respectively. Background growth calculations are detailed on intersection spreadsheets in the Appendix of this report.

#### 5.4 Site Traffic

The proposed site traffic was generated and assigned to the adjacent roadway network according to the distributions discussed previously in *Section 4.0*. The primary AM and PM peak hour site traffic volumes are shown on **Figure 5.3** and **Figure 5.4**, respectively. The pass-by AM and PM peak hour site traffic volumes are shown on **Figure 5.3** and **Figure 5.4**, respectively.

### 5.5 Build-Out Traffic

To obtain the projected (2027) build-out traffic volumes, the projected site traffic volumes were added to the projected (2027) background traffic. Traffic volume calculations are detailed in intersection spreadsheets in the Appendix of this report. **Figure 5.3** and **Figure 5.4** show the projected (2027) AM and PM peak hour build-out traffic volumes, respectively.



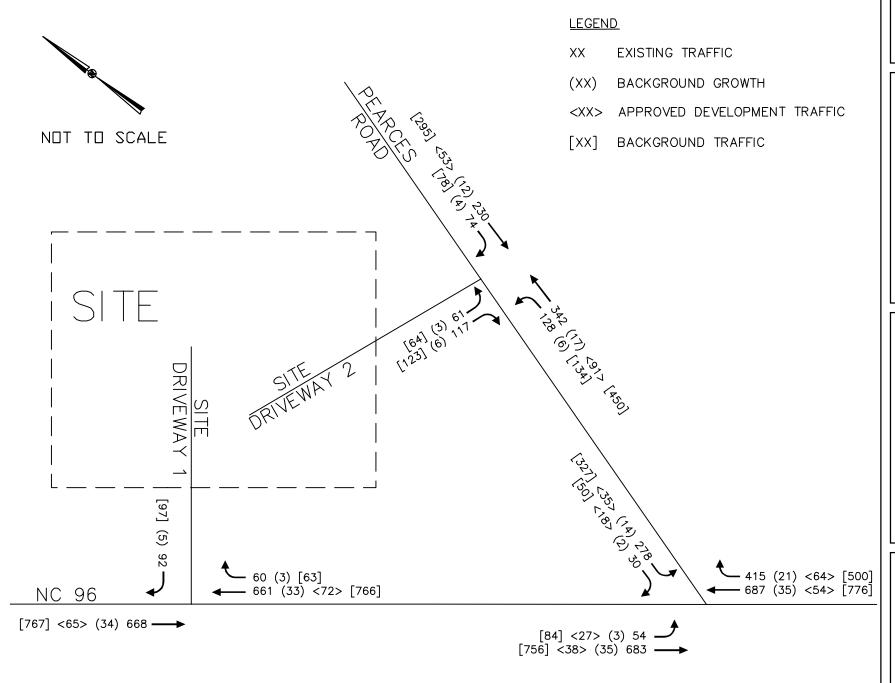
FIGURE

EXISTING (2025) AND PROJECTED (2027) AM HOUR TRAFFIC VOLUMES

ZEBULON SHEETZ ZEBULON, NC TRAFFIC IMPACT ANALYSIS

IGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY AND AND ADPAPATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WE

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FIGURE

EXISTING (2025) AND PROJECTED (2027) PM HOUR TRAFFIC VOLUMES

ZEBULON SHEETZ ZEBULON, NC TRAFFIC IMPACT ANALYSIS igns presented Herein, as an Instrument of Sernce, is intended only atton and Adaptation by Kimley-Horn and Associates, Inc. Shall be w

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- 26 (2) <6> [34] - 720 (0) <-8> [712]

NC 96

[740] (2) 738 ---

FIGURE

PROJECTED (2027) BUILD-OUT AM PEAK HOUR TRAFFIC VOLUMES

ZEBULON SHEETZ
ZEBULON, NC
TRAFFIC IMPACT ANALYSIS
AND AND DOLITION BY MALE-HIGHN AND ASSOCIATES, INC. 9942 FE

Kimley»Horn

- 259 (2) <2> [263] - 746 (2) <-2> [746]

[66] <7> (2) 57 — (660] <-7> (0) 667 — (7)

(2)

[769] (2) 767 ----

NC 96

- 63 (2) <6> [71] - 766 (0) <-8> [758]

SHEETZ NN, NC CT ANALYSIS ZEBULON, TRAFFIC IMPACT

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BUILD—OUT PM PEÁK HOUR TRAFFIC VOLUMES

**Kimley** » Horn

Page 89

- 500 (2) <2> [504] - 776 (2) <-2> [776]

[93] <7> (2) 84 **7** [749] <-7> (0) 756 **3** 



#### 6.0 **Capacity Analysis**

Capacity analyses (see Appendix) were performed for the AM and PM peak hours for the existing traffic condition (2025) and the projected (2027) background and build-out traffic conditions using Synchro/SimTraffic Version 12 software to determine the operating characteristics of the adjacent road network and the impacts of the proposed project.

Capacity is defined as the maximum number of vehicles that can pass over a particular road segment or through a particular intersection within a set time duration. Capacity is combined with Level-of-Service (LOS) to describe the operating characteristics of a road segment or intersection. LOS is a qualitative measure that describes operational conditions and motorist perceptions within a traffic stream. The Highway Capacity Manual defines six levels of service, LOS A through LOS F, with A representing the shortest average delays and F representing the longest average delays. LOS D is the typically accepted standard for signalized intersections in urbanized areas. For signalized intersections, LOS is defined for the overall intersection operation.

For unsignalized intersections, only the movements that must yield right-of-way experience control delay. Therefore, LOS criteria for the overall intersection is not reported by Synchro/SimTraffic Version 12 or computable using methodology published in the *Highway Capacity Manual*. It is typical for stop sign controlled side streets and driveways intersecting major streets to experience long delays during peak hours, while the majority of the traffic moving through the intersection on the major street experiences little or no delay. Table 6.0 lists the LOS control delay thresholds published in the *Highway Capacity Manual* for signalized and unsignalized intersections.

Table 6.0 Level-of-Service Control Delay Thresholds									
Level-of- Service Signalized Intersections – Control Delay Per Vehicle [sec/veh] Unsignalized Intersections – Average Control Delay [sec/veh] & Qualitative Operational Description									
Α	≤ 10	≤ 10							
В	> 10 – 20	> 10 – 15	Short Delays						
С	> 20 – 35	> 15 – 25							
D	> 35 – 55	> 25 – 35	Madarata Dalaya						
Е	> 55 – 80	> 35 – 50	Moderate Delays						
F	> 80	> 50	Long Delays						

Existing peak hour factors were used for existing (2025) traffic conditions. A peak hour factor of 0.9 was used for all future scenarios. To provide a conservative analysis, existing coordinated signal timings were used in all future traffic conditions at the intersection of NC 96 at Pearces Road.

All capacity analyses are included in the Appendix and are briefly summarized in the following sub-sections.

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### 6.1 NC 96 at Pearces Road

Analyses indicate that the signalized intersection of NC 96 at Pearces Road currently operates at LOS C in the AM peak hour and LOS B in the PM peak hour. The signalized intersection is expected to continue to operate at LOS C in the AM peak hour and LOS B in the PM peak hour, with or without the proposed redevelopment in place. With the increase in site traffic as part of the Sheetz redevelopment, minimal increases in vehicular queues are expected from background to build-out traffic conditions.

As site traffic is expected to have minimal impact on the operation of this intersection, no improvements are recommended to accommodate projected site traffic.

<u>Table 6.1</u> summarizes the operation of the intersection of NC 96 at Pearces Road for existing (2025), background (2027), and build-out (2027) traffic conditions.

Table 6.1 NC 96 at Pearces Road (Signalized)									
Condition	AM Peak Hour LOS (Delay)	PM Peak Hour LOS (Delay)							
	Overall - C (21.8)	Overall - B (15.1)							
Existing (2025) Traffic	EB - B (16.6)	EB - B (11.6)							
	WB - B (15.3)	WB - A (7.5)							
	SB - D (42.3)	SB - D (50.4)							
	Overall - C (26.4)	Overall - B (17.5)							
Bookground (2027) Troffic	EB - C (21.9)	EB - B (15.3)							
Background (2027) Traffic	WB - B (19.9)	WB - A (9.8)							
	SB - D (43.8)	SB - D (48.4)							
	Overall - C (26.9)	Overall - B (17.9)							
Duild out (2027) Troffic	EB - C (22.2)	EB - B (15.6)							
Build-out (2027) Traffic	WB - C (20.3)	WB - B (10.0)							
	SB - D (44.4)	SB - D (48.7)							

### 6.2 NC 96 at Site Driveway 1

Analyses indicate that the unsignalized intersection of NC 96 at Site Driveway 1 currently operates with short delays in both peak hours for the minor-street approach (Site Driveway 1). The minor-street approach of this intersection is expected to continue to operate with short delays in both peak hours, with or without the proposed redevelopment in place. With the increase in site traffic as part of the Sheetz redevelopment, minimal increases in vehicular queues are expected from background to build-out traffic conditions.

As site traffic is expected to have minimal impact on the operation of this intersection, no improvements are recommended to accommodate projected site traffic.

<u>Table 6.2</u> summarizes the operation of the intersection of NC 96 at Site Driveway 1 for existing (2025), background (2027), and build-out (2027) traffic conditions.

Table 6.2 NC 96 at Site Driveway 1 (Unsignalized)								
Condition	AM Peak Hour LOS (Delay)	PM Peak Hour LOS (Delay)						
Existing (2025) Traffic	SB - B (14.4)	SB - C (15.6)						
Background (2027) Traffic	SB - C (15.8)	SB - C (18.2)						
Build-out (2027) Traffic	SB - C (15.9)	SB - C (18.5)						



### 6.3 Pearces Road at Site Driveway 2

Analyses indicate that the unsignalized intersection of Pearces Road at Site Driveway 2 currently operates with short delays in both peak hours for the minor-street approach (Site Driveway 2). The minor-street approach of this intersection is expected to continue to operate with short delays in both peak hours under background (2027) traffic conditions. With the proposed redevelopment in place, the minor-street approach is expected to operate with short delays in the AM peak hour and moderate delays in the PM peak hour. With the increase in site traffic as part of the Sheetz redevelopment, minimal increases in vehicular queues are expected from background to build-out traffic conditions.

As site traffic is expected to have minimal impact on the operation of this intersection, no improvements are recommended to accommodate projected site traffic.

<u>Table 6.3</u> summarizes the operation of the intersection of Pearces Road at Site Driveway 2 for existing (2025), background (2027), and build-out (2027) traffic conditions.

Table 6.3 Pearces Road at Site Driveway 2 (Unsignalized)									
Condition	AM Peak Hour LOS (Delay)	PM Peak Hour LOS (Delay)							
Existing (2025) Traffic	EB - B (13.9) NBL - A (8.5)	EB - C (17.2) NBL - A (8.2)							
Background (2027) Traffic	EB - C (16.4) NBL - A (8.9)	EB - C (22.9) NBL - A (8.5)							
Build-out (2027) Traffic	EB - C (17.9) NBL - A (9.0)	EB - D (26.8) NBL - A (8.6)							

Zebulon Sheetz Development - Zebulon, NC

### 7.0 Conclusions

NCDOT TIP project U-5118 FB proposes to construct an additional southbound through lane along NC 96 beginning approximately 830 feet north of the intersection of NC 96 at Pearces Road and ending at US 64-264 WB Ramps/Dogwood Drive. At the intersection of NC 96 at Pearces Road the westbound right lane is expected to be restriped to a shared left/right lane and the existing traffic signal is expected to be modified to accommodate these laneage improvements. While this project was considered for inclusion during scoping discussions with the Town, it was ultimately excluded in order to provide a conservative analysis of the intersection of NC 96 at Pearces Road.

All study intersections are expected to operate with acceptable levels-of service and, based on SimTraffic observations, maximum queues are expected to increase minimally with the redevelopment of the Sheetz. Therefore, no improvements are recommended with the proposed expansion.

# **Appendix**

# Appendix A: Approved Assumptions Memorandum

# Preliminary Assumptions – Zebulon Sheetz - UPDATED Traffic Impact Analysis Zebulon, North Carolina

KHA will perform analyses for the Zebulon Sheetz development, a proposed commercial project located along east of NC 96 and north of Pearces Road in Zebulon, North Carolina. The following assumptions will be used in the analysis of the site:

### **Study Intersections**

The study area will consist of the following intersections:

- NC 96 at Pearces Road
- NC 96 at Site Driveway 1 (right-in/right-out access)
- Pearces Road at Site Driveway 2 (full movement access)

### **Analysis Scenarios**

Weekday AM and PM peak hour analyses will be performed for the following traffic conditions:

- Existing (2025)
- Background (2026 +1)\*
- Build-out (2026 +1)\*
- Build-out  $(2026 + 1)^*$  with Improvements

\*Per the Town of Zebulon Unified Development Ordinance (UDO), the future traffic conditions will be analyzed for the build-out year plus one year into the future after the development is completed (2027).

### **Background Traffic Growth**

Based on historical AADT data from NCDOT and nearby developments and Town of Zebulon ordinances, an annual growth rate of 2.5% will be used to grow the existing traffic counts to the build-out year.

### **Approved Developments**

Additionally, based on the Town of Zebulon Development Activity Map, the following approved developments were identified for inclusion in this analysis as background traffic:

- 7-Eleven
- Zebulon Domino's
- Clifton Grove (Pearces Road Residential)
- Weavers Ridge

Traffic for these approved developments will be obtained or developed from either site plans or traffic studies attained from the Town of Zebulon.

### **Roadway Improvements by Others**

State Transportation Improvement Program (TIP) project U-5118 FB proposes to construct access management improvements north of Pearces Road to Dogwood Drive along NC 96. This project is expected to begin construction in 2025. While this project was considered for inclusion during scoping discussions with the Town, it will ultimately be excluded in order to provide a conservative analysis of the intersection of NC 96 at Pearces Road.

### **Trip Distribution**

The following overall distribution will be used for Zebulon Sheetz Development entering and exiting traffic:

- 50% to/from the east on NC 96
- 30% to/from the west on NC 96

• 20% to/from the north on Pearces Road

### **Trip Generation**

The property is currently consists of a 5,000 square foot (SF) convenience store/gas station with 12 vehicle fueling positions (vfp). The development is proposing to expand the store to 6,150 SF with 14 vfp. See attached for the existing and proposed trip generation of the Zebulon Sheetz development.

### **Other Study Assumptions**

Existing peak hour factors (PHF) will be used in each traffic condition where those exceed the default PHF of 0.90. For future traffic signals, inputs (right-turns on red, permitted + protected phasing) will be obtained from the signal plans, and optimized signal timings will be used in each of the traffic conditions.

### **Sheetz Zebulon**

Table 1 - Trip Generation (11th Edition): 6150SF Store, 14 vfp

Table 1 Trip Constant (Trui Zamon), 010001 Ctols, 14 tip											
Land Use	Intensity		Daily			AI	/I Peak Ho	our	PM Peak Hour		
		intensity		In	Out	Total	In	Out	Total	In	Out
945 Convenience Store/Gas Station: 9-15 vfp Existing	5,000	s.f.	3,502	1,751	1,751	283	142	141	273	137	136
945 Convenience Store/Gas Station: 9-15 vfp Proposed	6,150	s.f.	4,308	2,154	2,154	348	174	174	335	168	167
Pass-By Capture	<u>AM</u>	<u>PM</u>									
945 Convenience Store/Gas Station - Existing	76%	75%	2,644	1322	1,322	215	108	107	205	103	102
945 Convenience Store/Gas Station - Proposed	76%	75%	3,254	1627	1,627	264	132	132	251	126	125
Difference in Pass-By Trips			610	305	305	49	24	25	46	23	23
Total Net New External Trips: Proposed Site		1,054	527	527	84	42	42	84	42	42	
Total Net New External Trips: Existing Site			858	429	429	68	34	34	68	34	34
Difference in Total Net New External Trips			196	98	98	16	8	8	16	8	8
			•	•	•	•		•	•	•	



# Appendix B: Trip Generation

### Sheetz Zebulon

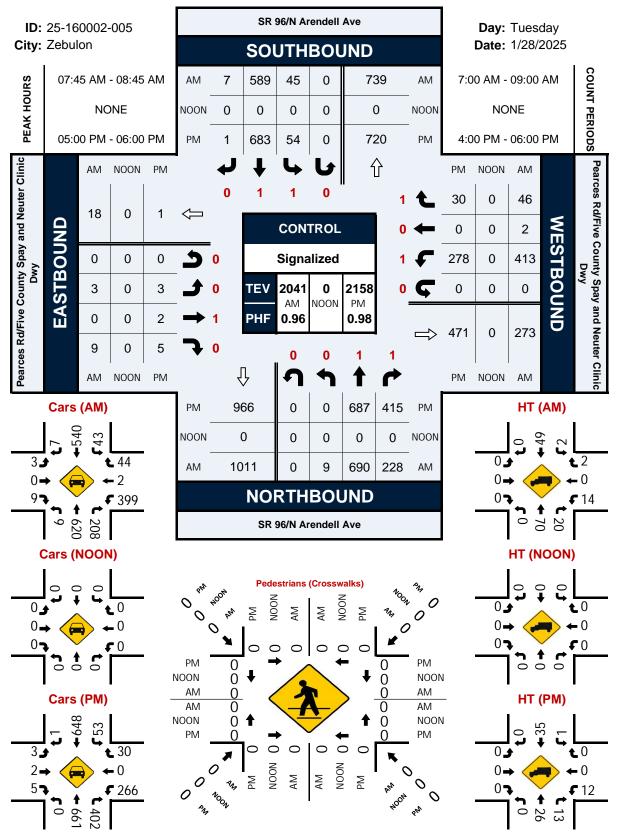
Table 1 - Trip Generation (11th Edition): 6150SF Store, 14 vfp

Table 1 The Coloradion (Truit Zaldon), Cross Color, 14 Vip											
Land Use	Intensity		Daily			Al	/I Peak Ho	our	PM Peak Hour		
		intensity		In	Out	Total	In	Out	Total	In	Out
945 Convenience Store/Gas Station: 9-15 vfp Existing	5,000	s.f.	3,502	1,751	1,751	283	142	141	273	137	136
945 Convenience Store/Gas Station: 9-15 vfp Proposed	6,150	s.f.	4,308	2,154	2,154	348	174	174	335	168	167
Pass-By Capture	<u>AM</u>	<u>PM</u>									
945 Convenience Store/Gas Station - Existing	76%	75%	2,644	1322	1,322	215	108	107	205	103	102
945 Convenience Store/Gas Station - Proposed	76%	75%	3,254	1627	1,627	264	132	132	251	126	125
Difference in Pass-By Trips		610	305	305	49	24	25	46	23	23	
Total Net New External Trips: Proposed Site		1,054	527	527	84	42	42	84	42	42	
Total Net New External Trips: Existing Site		858	429	429	68	34	34	68	34	34	
Difference in Total Net New External Trips			196	98	98	16	8	8	16	8	8

# Appendix C: Traffic Count Data

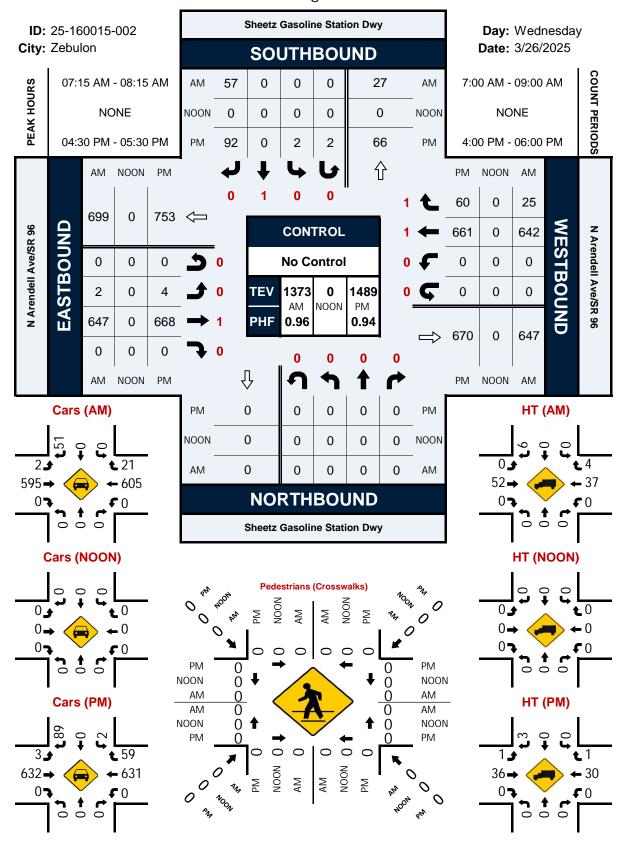
### SR 96/N Arendell Ave & Pearces Rd/Five County Spay and Neuter Clinic Dwy

### Peak Hour Turning Movement Count



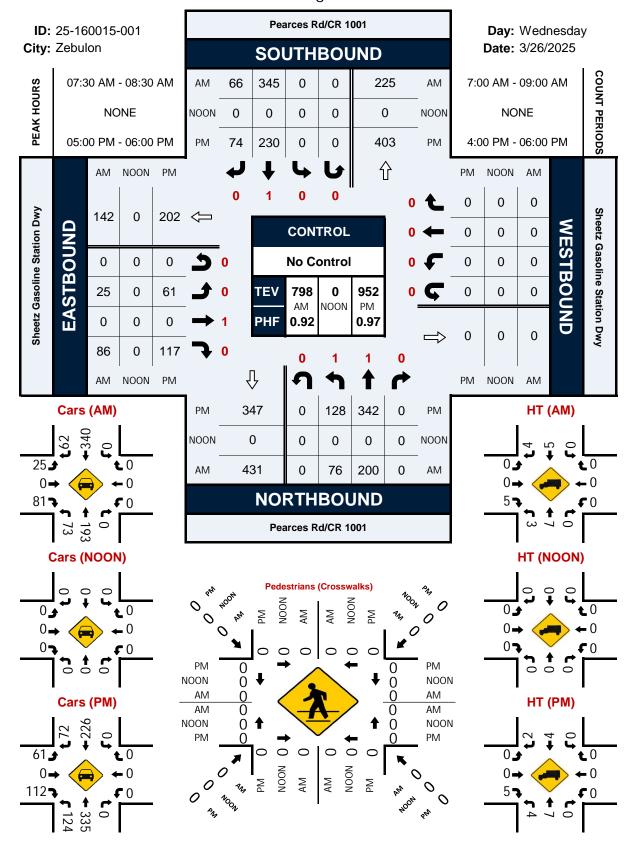
### Sheetz Gasoline Station Dwy & N Arendell Ave/SR 96

### Peak Hour Turning Movement Count



### Pearces Rd/CR 1001 & Sheetz Gasoline Station Dwy

### Peak Hour Turning Movement Count



# Appendix D: Approved Development Information

# TRAFFIC IMPACT ANALYSIS

## Zebulon 7-Eleven Convenience Store

ZEBULON, NORTH CAROLINA



### **REPORT PREPARED FOR:**

C4 CStore Holdings II, LLC 121 West Trade Street, Suite 2550 Charlotte, NC 28202

### REPORT PREPARED BY

Impact Designs, Inc.
PO Box 3728
Mooresville, NC 28117
nick@impactdesignsinc.com

Attachment 4 PD 2025-05

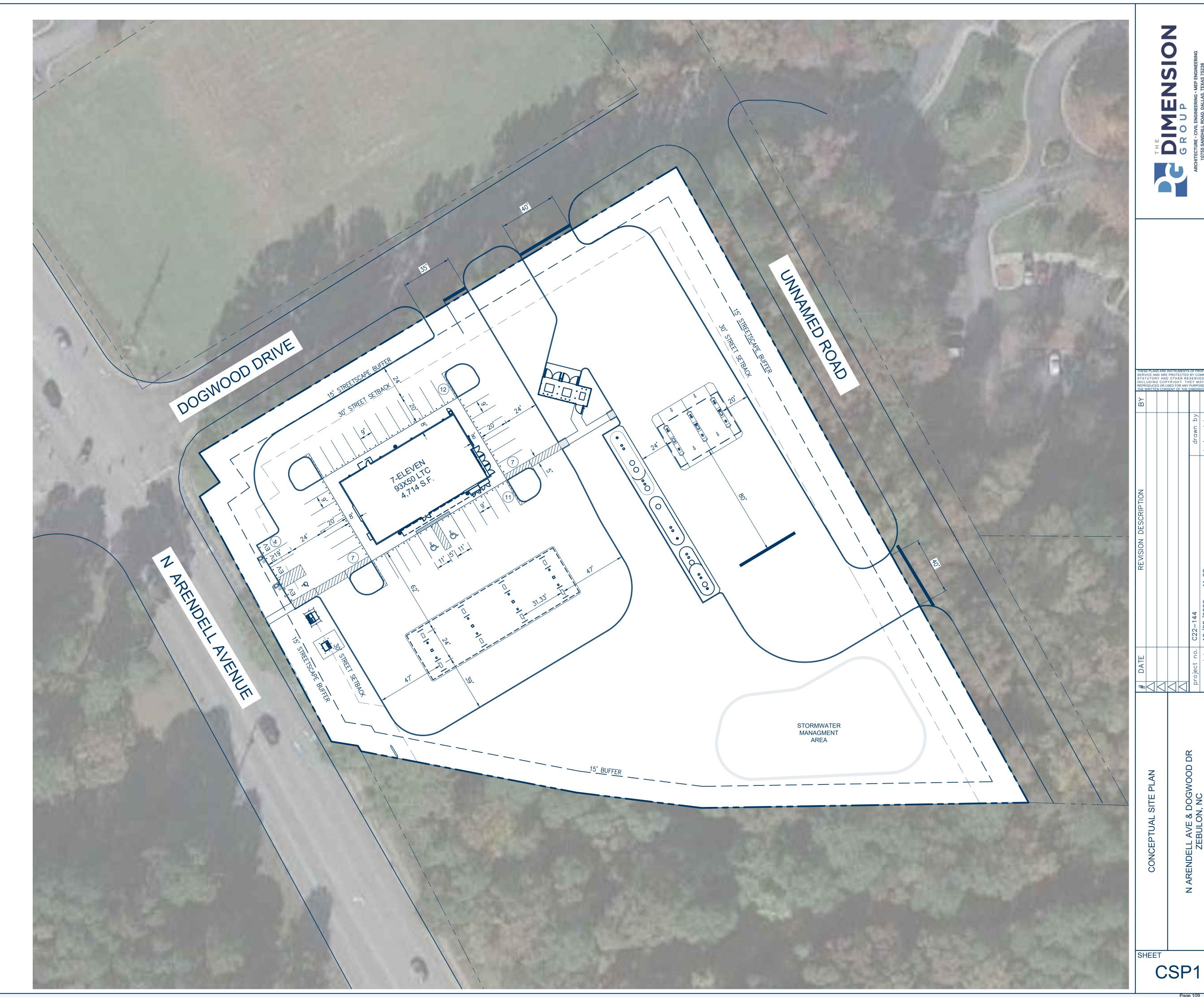
QUALIFICATIONS

1. THIS SITE PLAN WAS PRODUCED WITH THE BEST

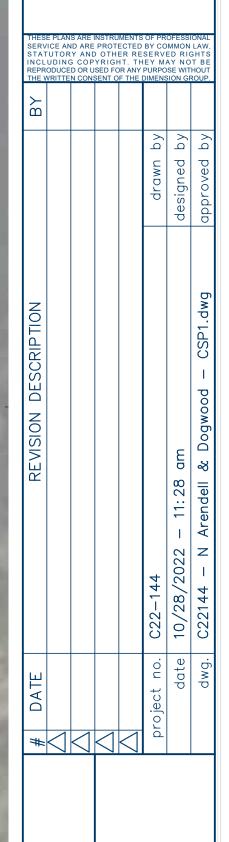
- INFORMATION AVAILABLE AT DATE OF PRODUCTION. 2. NO ALTA/TOPO SURVEY, NO TITLE REPORT, NO EASEMENT
- RESEARCH WAS AVAILABLE. 3. TRANSPORTATION, UTILITY, ARCHEOLOGICAL, HISTORICAL
- RESEARCH WAS NOT PERFORMED. 4. NO ZONING REQUIREMENTS, SETBACKS, BUFFERS WERE SUPPLIED AT THE DATE OF THIS PLAN. PROPOSED LAYOUT MAY NEED TO BE ADJUSTED PENDING ADDITIONAL INFORMATION.
- 5. WATER QUALITY/QUANTITY TREATMENT LOCATION AND SIZE SUBJECT TO ENGINEERING CALCULATIONS AND AGENCY REVIEW.
- 6. FOR ILLUSTRATIVE PURPOSES ONLY: NOT FOR LEASING DIMENSIONS OR CONSTRUCTION. ALL DIMENSIONS AND LAYOUT SUBJECT TO CHANGE.
- 7. SITE PLAN WILL REQUIRE 7-ELEVEN AND CITY APPROVAL.

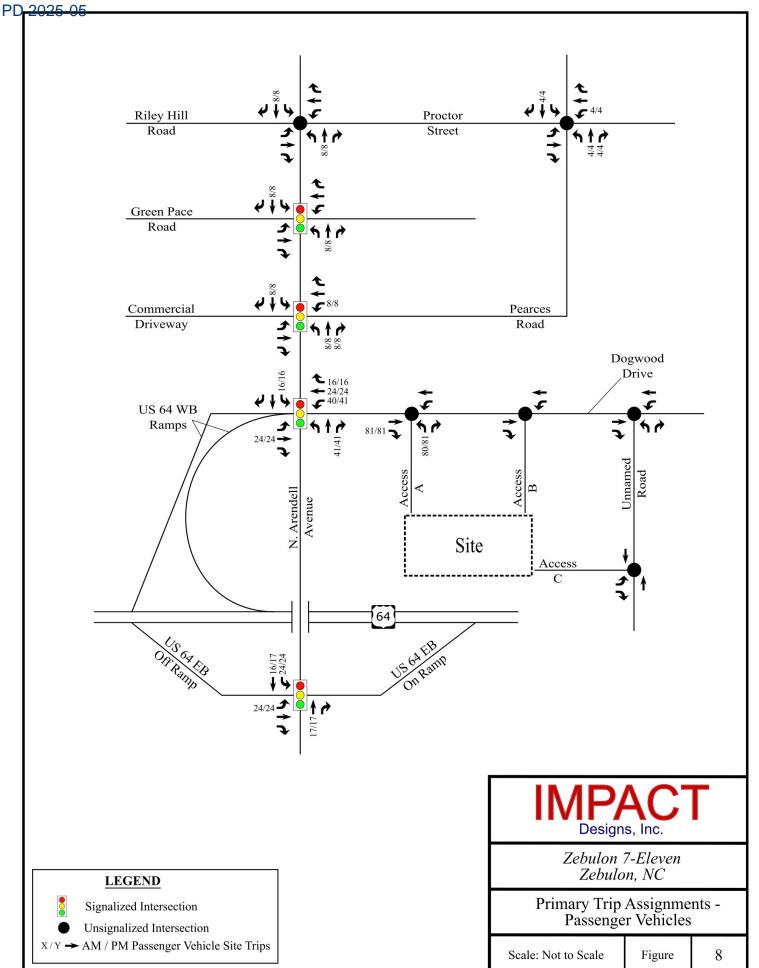
SITE SUMMARY AREA PARKING SPACES

152,875 S.F.± 41

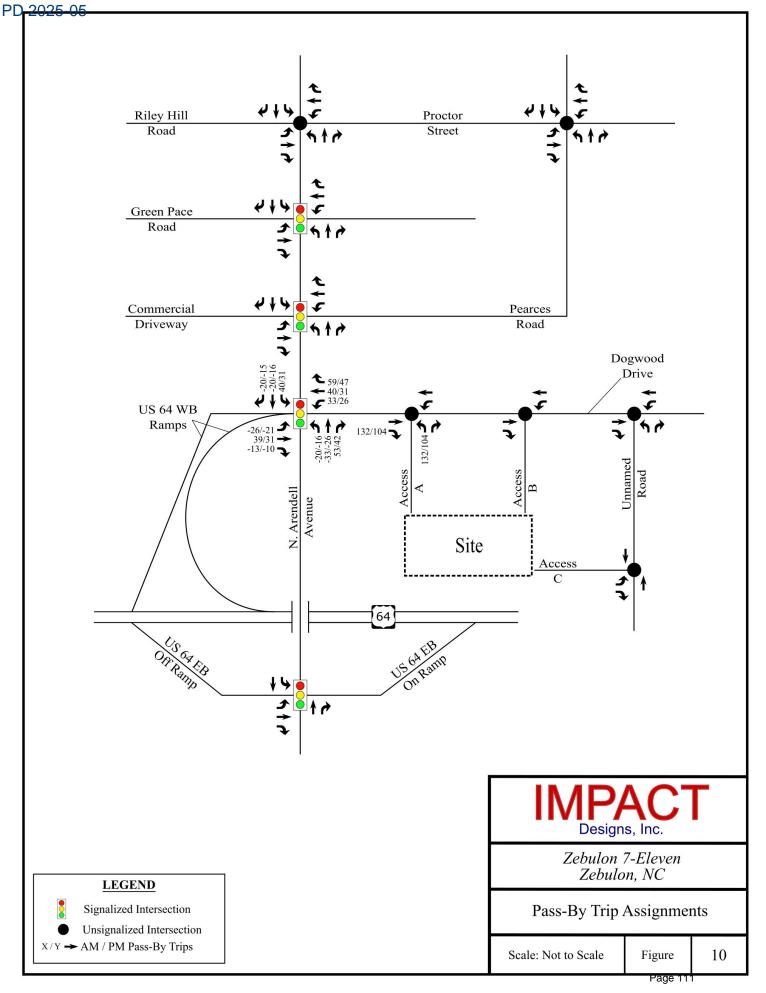


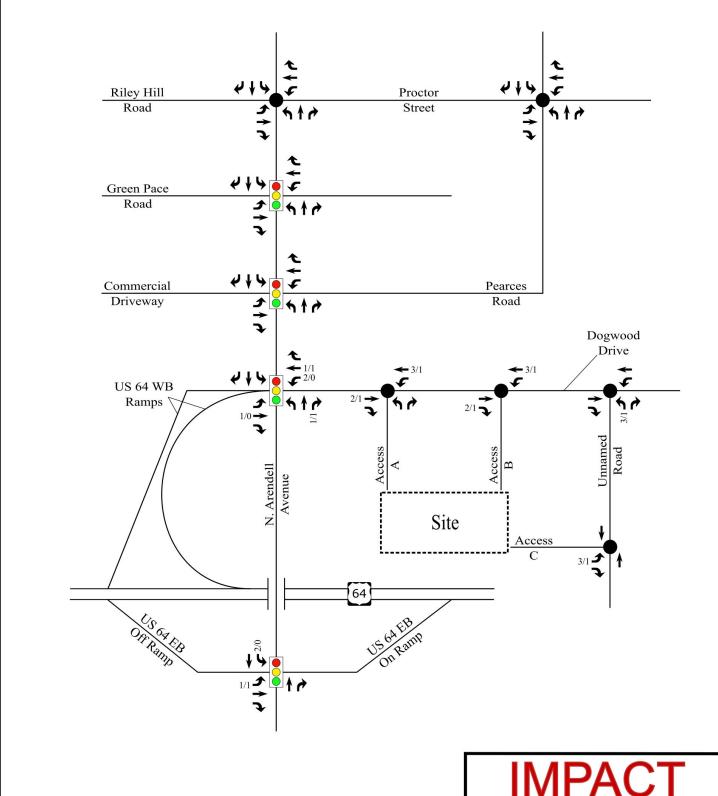






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#### **LEGEND**

Signalized Intersection

Unsignalized Intersection

 $X/Y \rightarrow AM/PM$  Truck Site Trips

# Designs, Inc.

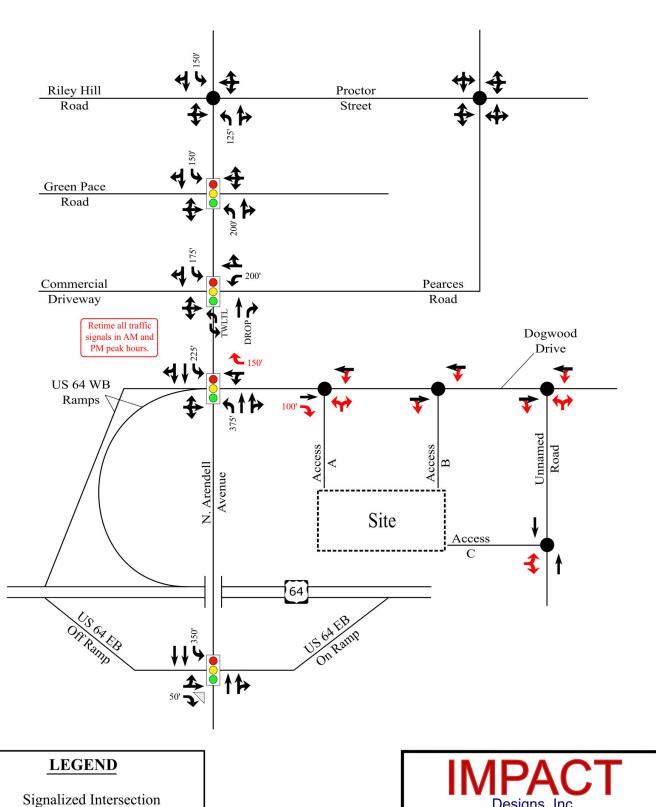
Zebulon 7-Eleven Zebulon, NC

Primary Trip Assignments - Trucks

Scale: Not to Scale

Figure

12





- Unsignalized Intersection
- **Existing Lane**



Channelized Movement

- Recommended Improvement
- Storage (In Feet) X'

# Designs, Inc.

Zebulon 7-Eleven Zebulon, NC

Proposed Lane Configurations and Traffic Control

Scale: Not to Scale

Figure

14

# Pearces Road Residential Development

Traffic Impact Analysis

Zebulon, North Carolina

October 2020

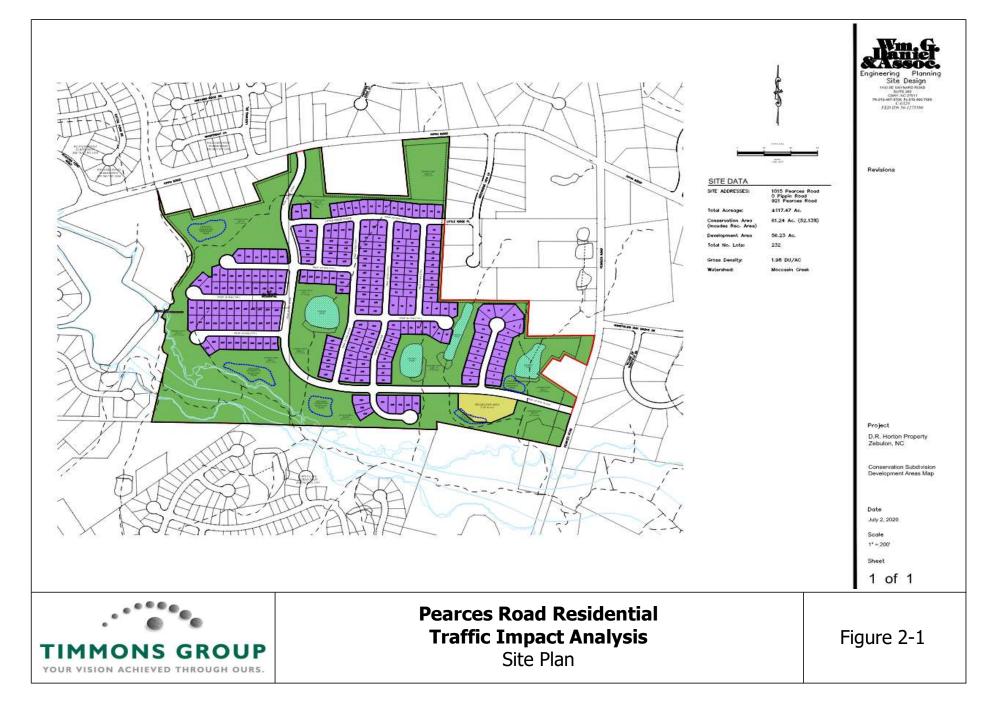
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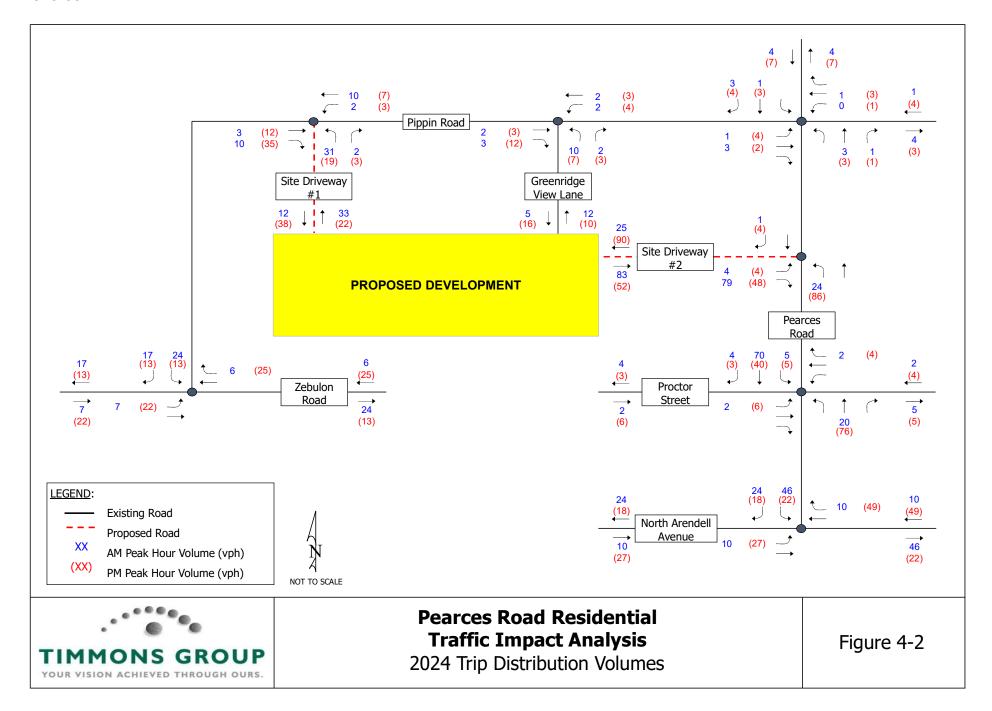
**DR Horton** 

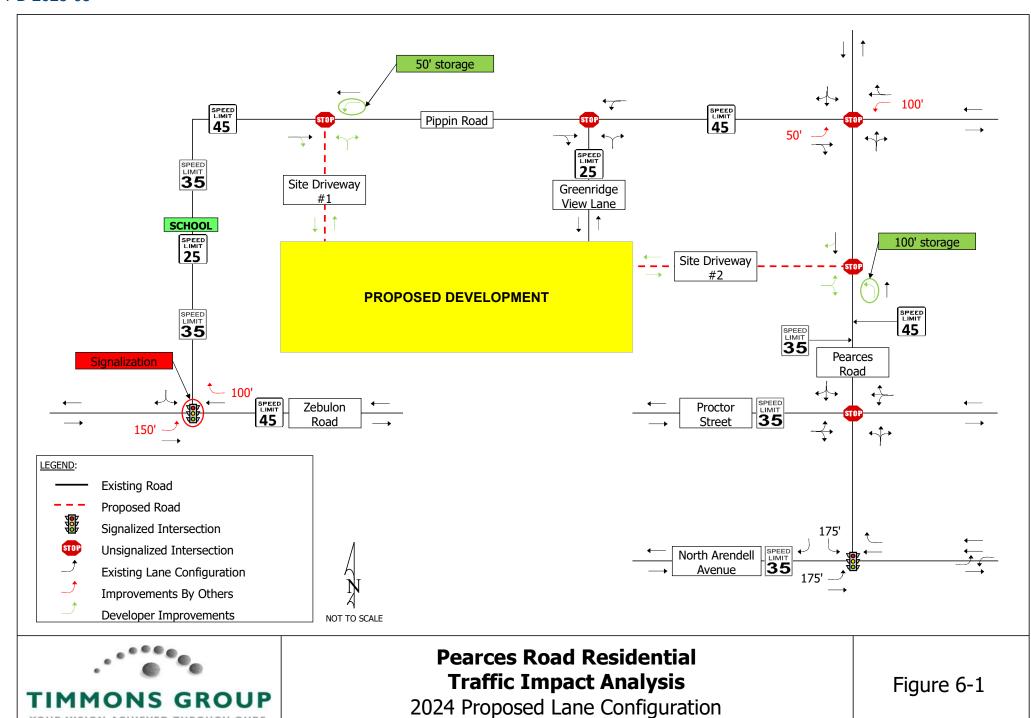


Contact: Jeff Hochanadel, PE, PTOE

5410 Trinity Road, Suite 102 • Raleigh, NC 27607 (919) 866-4951 phone • (919) 859-5666 գքах www.timmons.com







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# TRAFFIC IMPACT ANALYSIS

**FOR** 

### **ZEBULON DOMINO'S**

**LOCATED IN** 

## **ZEBULON, NORTH CAROLINA**

#### **Prepared For:**

Rivers & Associates, Inc. 353 E Six Forks Road Suite 230 Raleigh, NC

#### **Prepared By:**

DRMP, Inc. License #F-1524

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REVISIONS:

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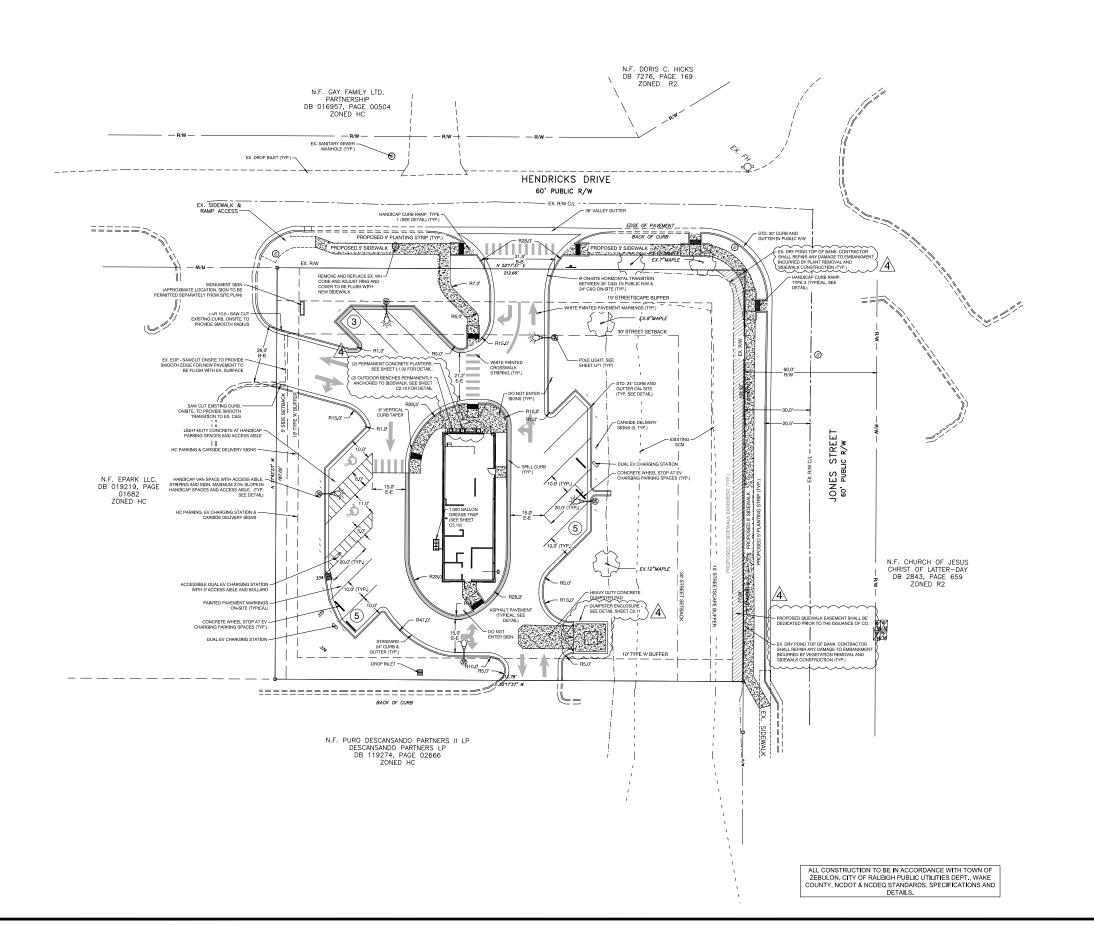
SIGNED BY:

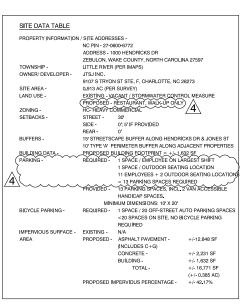
PLAN

SITE

SF/MS

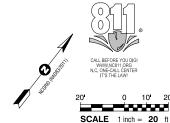
5





#### STORMWATER MANAGEMENT NOTES:

2. EXISTING ON-SITE FIBER OPTIC LINES TO BE REROUTED BY CONTRACT

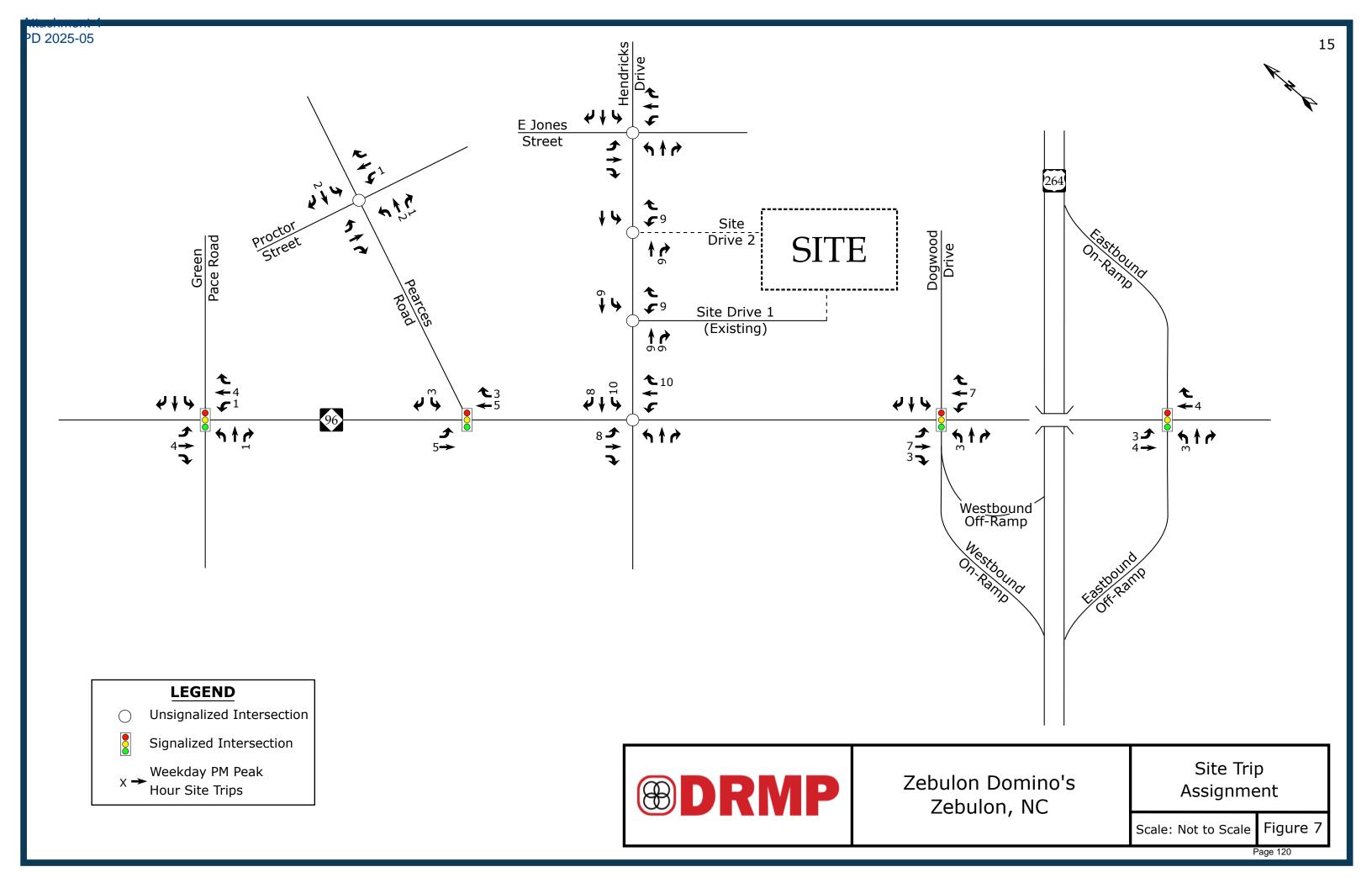


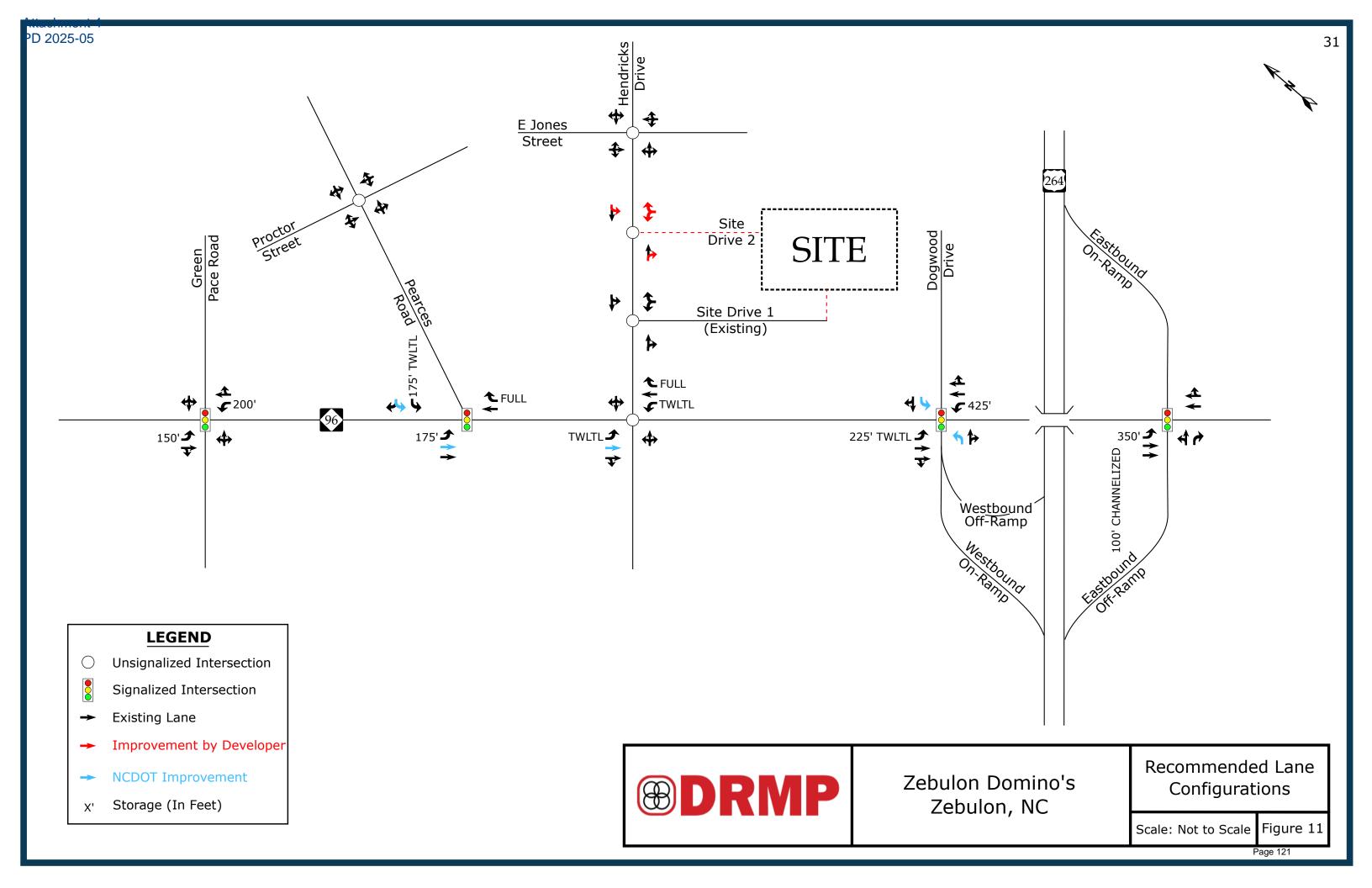


SF/MS RAWN BY: JSJ/PRM HECKED BY: ROJECT No. 202301 WING No W-408 AS SHOW

<u>/3\/1\</u>

**@2.0**1





#### Attachment 3



RAMEY KEMP & ASSOCIATES, INC. 5808 Faringdon Place, Suite 100 Raleigh, NC 27609 Phone: 919-872-5115 www.rameykemp.com

July 25, 2019

Mr. Meade Bradshaw Assistant Planning Director Town of Zebulon 1003 N. Arendell Avenue Zebulon, NC 27597 Phone: (919) 269-7455

Email: mbradshaw@townofzebulon.org

Subject: Traffic Study

Weaver's Ridge - Zebulon, North Carolina

#### Dear Mr. Bradshaw:

This letter provides the findings of the traffic study prepared by Ramey Kemp & Associates, Inc. (RKA) for the proposed Weaver's Ridge development located east of Zebulon Road (NC 96) across from Glory Road in Zebulon, North Carolina. The purpose of the study is to determine how traffic generated by the proposed development is expected to impact surrounding roadways and intersections.

The proposed residential development is assumed to consist of 124 townhomes and 58 single-family homes. Refer to Figure 1 for the site location map. Site access will be provided via one (1) full movement site driveway along Zebulon Road (NC 96) across from Glory Road and a connection to the Weaver's Pond Development via Golden Plum Lane.

Refer to Figure 2 for the preliminary site plan of the proposed development and Figure 3 for an illustration of the existing lane configurations within the study area.

The study analyzes traffic conditions for the study intersections during the weekday AM and PM peak hours for the following scenarios:

- Existing (2019) Traffic Conditions
- Background (2024 +1) Traffic Conditions
- Combined (2024 +1) Traffic Conditions
- Combined (2024 +1) Traffic Conditions with Improvements

#### **Existing (2019) Peak Hour Conditions**

Through coordination with the Town of Zebulon (Town) and the North Carolina Department of Transportation (NCDOT), existing peak hour traffic volumes were determined based on previous and current traffic studies conducted within the study area. The counts from the Weaver's Pond Development were conducted by Ramey Kemp & Associates, Inc. in August of 2017 and projected to the year 2019 for the existing (2019) volumes for the following intersections:

- Zebulon Road (NC 96) and Pippin Road
- Pippin Road and Pearces Road

Existing peak hour traffic volumes were determined based on traffic counts conducted at the study intersections listed below, in April of 2019 by Ramey Kemp & Associates, Inc. during a typical weekday AM (7:00 AM – 9:00 AM) and PM (4:00 PM – 6:00 PM) peak periods:

Zebulon Road (NC 96) and Glory Road

The volumes conducted in 2017 were grown to the year 2019 using an annual 3% growth rate and then the volumes were balanced along Zebulon Road (NC 96) to account for any variance associated with the different count dates. Volumes were not balanced along Pippin Road due to the reasonable imbalance in comparison to the land uses between the intersections along Pippin Road. Refer to Figure 4 for existing weekday AM and PM peak hour traffic volumes. A copy of the count data is attached to this report. Through coordination with the Town and the NCDOT, it was determined that an annual growth rate of 3% would be used to generate projected traffic volumes. Refer to Figure 5 for projected (2025) traffic. It should be noted that the balanced existing (2019) traffic is not re-balanced after the growth rate is applied for the projected (2025) traffic volumes, which can result in minor (1 vehicle) imbalances due to rounding.

#### **Adjacent Developments**

Through coordination with the Town, the following residential developments were identified to be included as an adjacent development in this study:

- Weaver's Pond
- Taryn Lake & Taryn Creek

Adjacent development trips are shown in Figure 6. Refer to the appendix in the attachments for the adjacent development information.

#### **Background (2025) Peak Hour Conditions**

Background traffic is comprised of existing traffic growth within the study area and additional traffic created as a result of adjacent approved developments. The background (2025) traffic volumes were determined by projecting the existing (2019) peak hour traffic to the year 2025 and adding the adjacent development trips. Refer to Figure 7 for background (2025) peak hour traffic.

#### **Future Roadway Improvements**

The Weaver's Pond development has committed to improvements at the intersection of Zebulon Road (NC 96) and Pippin Road. The improvements are expected to consist of a northbound right-turn lane with at least 100 feet of storage and appropriate decel and taper, a southbound left-turn lane with at least 150 feet of storage and appropriate decel and taper, and signalization of the intersection.

#### **Trip Generation**

The proposed development is assumed to consist of 124 townhomes and 58 single-family homes. Average weekday daily, AM peak hour, and PM peak hour trips for the proposed development were estimated using methodology contained within the ITE *Trip Generation Manual*, 10<sup>th</sup> Edition. Refer to Table 1 for a detailed breakdown of the proposed site trip generation.

\_\_\_\_\_\_\_



Land Use (ITE Code)	Intensity	Daily Traffic	AM Pea Trips		PM Pea Trips	k Hour (vph)
(III couc)		(vpd)	Enter	Exit	Enter	Exit
Single-Family Detached Housing (210)	58 units	630	11	35	38	22
Multifamily Housing (Low-Rise) (Townhomes) (220)	124 units	900	14	45	45	27
Total Trips		1,530	25	80	83	49

**Table 1: Trip Generation Summary** 

It is estimated that the proposed development will generate approximately 1,530 total site trips on the roadway network during a typical 24-hour weekday period. Of the daily traffic volume, it is anticipated that 105 trips (25 entering and 80 exiting) will occur during the weekday AM peak hour and 132 trips (83 entering and 49 exiting) will occur during the weekday PM peak hour.

#### **Site Trip Distribution and Assignment**

Trip distribution percentages used in assigning site traffic for this development were estimated based on a combination of existing traffic patterns, population centers adjacent to the study area, and engineering judgment. All trip distributions were approved by the Town and NCDOT during the scoping process. It is estimated that trips will be regionally distributed as follows:

- 20% to/from the north via Pearces Road
- 5% to/from the south via Pearces Road
- 50% to/from the south via Zebulon Road (NC 96)
- 25% to/from the north via Zebulon Road (NC 96)

It should be noted that based on engineering judgement it was determined that 100% of site trips will exit the site using the full movement site driveway located along Zebulon Road (NC 96). The site trip distribution is shown in Figure 8. Refer to Figure 9 for the site trip assignment.

It is not expected that the traffic from the proposed development will utilize the Weaver's Pond access; however, it is expected that a portion of the Weaver's Pond development will utilize the new site drive along Zebulon Road (NC 96). Based on coordination with the NCDOT and Town, Phases 3A and 5 of the Weaver's Pond Master Plan are proposed to be rerouted from the Weaver's Pond access on Pippin Road to the new Zebulon Road (NC 96) site drive aligned with Glory Road. Phases 3A and 5 include 137 homes combined, or approximately 19% of the total homes in the Weaver's Pond development. 19% of the Weaver's Pond site trips were rerouted from Pippin Road to the proposed site drive. Figure 10 illustrates the anticipated rerouted Weaver's Pond development site trips through the proposed Weaver's Ridge site.



#### **Combined (2025) Peak Hour Conditions**

To estimate traffic conditions with the site fully built-out, the total site trips were added to the background (2025) traffic volumes to determine the combined (2025) traffic volumes. Refer to Figure 11 for an illustration of the combined (2025) peak hour traffic volumes with the proposed site fully developed.

#### **Capacity Analysis**

The existing (2019), background (2025), and combined (2025) weekday AM and PM peak hour traffic volumes were analyzed to determine the current levels of service at the study intersections under existing roadway conditions. The results of the analysis are presented in the following section of this report.



#### Zebulon Road (NC 96) and Pippin Road

The existing intersection of Zebulon Road (NC 96) and Pippin Road was analyzed under existing (2019), background (2025), and combined (2025) traffic conditions with the lane configurations and traffic control shown in Table 2. It should be noted that this intersection was analyzed as a signalized intersection for the background (2025) and combined (2025) scenarios. Refer to Table 2 for a summary of the analysis results. The Synchro capacity analysis reports are included in the attached appendix.

WEEKDAY AM WEEKDAY PM P PEAK HOUR PEAK HOUR P LEVEL OF SERVICE LEVEL OF SERVICE R **ANALYSIS** LANE **SCENARIO**  $\mathbf{o}$ CONFIGURATIONS A Overall Overall Approach Approach  $\mathbf{C}$ (seconds) (seconds) Н  $\mathbb{C}^2$  $D^2$ WB 1 LT-RT Existing (2019) N/A N/A NB 1 TH-RT Conditions SB  $A^1$  $A^1$ 1 LT-TH Background (2025) 1 LT-RT C D WB  $\mathbf{C}$ C Conditions -NB 1 TH, 1 RT  $\mathbf{C}$  $\mathbf{C}$ (22)(23)SB**Signalized** C 1 LT, 1TH В  $\mathbf{C}$ **Combined** (2025) 1 LT-RT D WB  $\mathbf{C}$  $\mathbf{C}$ Conditions -C NB 1 TH, <u>1 RT</u> C (21)(26)**Signalized** SB1 LT, 1TH C В

Table 2: Analysis Summary of Zebulon Road (NC 96) and Pippin Road

Improvements by Weaver's Pond shown underlined.

- 1. Level of service for major-street left-turn movement.
- 2. Level of service for minor-street approach.

Capacity analysis of existing (2019) traffic conditions indicates the minor-street approach at Zebulon Road (NC 96) and Pippin Road operates at LOS C during the weekday AM peak hour and LOS D during the weekday PM peak hour. The Weaver's Pond development is committed to constructing a northbound right-turn lane, a southbound left-turn lane and installing a signal at this intersection. These improvements were analyzed under future (2025) traffic conditions. Because signal plans and timings have not yet been finalized, the signal timings were optimized under background (2025) traffic conditions and the same timings were used to analyze combined (2025) traffic conditions. Under background (2025) and combined (2025) traffic conditions, the intersection is expected to operate at an overall LOS C or better.

It is anticipated that the improvements associated with the Weaver's Pond development will accommodate the proposed site traffic at this intersection.

\_\_\_\_\_\_\_



#### Pippin Road and Pearces Road

The existing unsignalized intersection of Pippin Road and Pearces Road was analyzed under existing (2019), background (2025), and combined (2025) traffic conditions with the lane configurations and traffic control shown in Table 3. Refer to Table 3 for a summary of the analysis results. The Synchro capacity analysis reports are included in the attached appendix.

Table 3: Analysis Summary of Pippin Road and Pearces Road

ANALYSIS	A P P R	LANE	WEEKD PEAK LEVEL OF	HOUR	WEEKI PEAK LEVEL OF	HOUR
SCENARIO	O A C H	CONFIGURATIONS	Approach	Overall (seconds)	Approach	Overall (seconds)
Existing (2019) Conditions	EB WB NB SB	1 LT-TH-RT 1 LT-TH-RT 1 LT-TH-RT 1 LT-TH-RT	$\begin{array}{c} B^2 \\ B^2 \\ A^1 \\ A^1 \end{array}$	N/A	$B^2$ $B^2$ $A^1$ $A^1$	N/A
Background (2025) Conditions	EB WB NB SB	1 LT-TH-RT 1 LT-TH-RT 1 LT-TH-RT 1 LT-TH-RT	$C^2$ $C^2$ $A^1$ $A^1$	N/A	$C^2$ $C^2$ $A^1$ $A^1$	N/A
Combined (2025) Conditions	EB WB NB SB	1 LT-TH-RT 1 LT-TH-RT 1 LT-TH-RT 1 LT-TH-RT	$C^2$ $C^2$ $A^1$ $A^1$	N/A	$C^2$ $C^2$ $A^1$ $A^1$	N/A

<sup>1.</sup> Level of service for major-street left-turn movement.

Capacity analysis of existing (2019), background (2025), and combined (2025) traffic conditions indicates the minor-street approaches and major-street left-turn movements at Pippin Road and Pearces Road are expected to operate at LOS C or better during both the weekday AM and PM peak hours.



<sup>2.</sup> Level of service for minor-street approach.

#### Zebulon Road (NC 96) and Glory Road/Site Drive

The existing unsignalized intersection of Zebulon Road and Glory Road/Site Drive was analyzed under existing (2019), background (2025), and combined (2025) traffic conditions with the lane configurations and traffic control shown in Table 4. Refer to Table 4 for a summary of the analysis results. The Synchro capacity analysis reports are included in the attached appendix.

Table 4: Analysis Summary of Zebulon Road (NC 96) and Glory Road/Site Drive

ANALYSIS	A P P R	LANE	WEEKD PEAK LEVEL OF	HOUR	WEEKI PEAK LEVEL OF	HOUR
SCENARIO	O A C H	CONFIGURATIONS	Approach	Overall (seconds)	Approach	Overall (seconds)
Existing (2019) Conditions	EB NB SB	1 LT-RT 1 LT-TH 1 TH-RT	C <sup>2</sup> A <sup>1</sup>	N/A	B <sup>2</sup> A <sup>1</sup>	N/A
Background (2025) Conditions	EB NB SB	1 LT-RT 1 LT-TH 1 TH-RT	C <sup>2</sup> A <sup>1</sup>	N/A	C <sup>2</sup> A <sup>1</sup>	N/A
Combined (2025) Conditions	EB WB NB SB	1 LT- <b>TH</b> -RT <b>1 LT, 1 TH-RT</b> 1 LT-TH, <b>1 RT</b> 1 <b>LT</b> -TH-RT	$\begin{array}{c} D^2 \\ F^2 \\ A^1 \\ A^1 \end{array}$	N/A	$\begin{array}{c} E^2 \\ F^2 \\ A^1 \\ A^1 \end{array}$	N/A
Combined (2025) Conditions – Signalized to meet UDO	EB WB NB SB	1 LT- <b>TH</b> -RT <b>1 LT, 1 TH-RT</b> 1 LT-TH, <b>1 RT</b> 1 <b>LT</b> , 1 TH-RT	D D B B	B (17)	D D A B	B (11)

Improvements by Developer shown in **bold**.

- 1. Level of service for major-street left-turn movement.
- 2. Level of service for minor-street approach.

Capacity analysis of existing (2019) and background (2025) traffic conditions indicates the minor-street approach and major-street left-turn movement at Pippin Road and Glory Road are expected to operate at LOS C or better during both the weekday AM and PM peak hours. Under combined (2025) traffic conditions, the proposed development is expected to add a 4<sup>th</sup> leg to the intersection. With the addition of the 4<sup>th</sup> leg, the eastbound minor-street approach is expected to operate at LOS D during the weekday AM peak hour and LOS E during the weekday PM peak hour, and the new westbound approach is expected to operate at LOS F during both the weekday AM and PM peak hours.

Right and left-turn lanes were analyzed and recommended per the NCDOT *Policy on Street and Driveway Access to North Carolina Highways* (Driveway Manual). A southbound left-turn lane with 50 feet of storage and appropriate decel and taper is recommended, as well as a northbound right-turn lane with 100 feet of storage and appropriate decel and taper.



Per the Town's UDO, if a site access operates at LOS D or worse, additional site access points may need to be considered. It should be noted that the proposed Weaver's Ridge development is expected to have connectivity to the Weaver's Pond development, which has two site access points along Pippin Road. Drivers will likely use an alternative site access if they experience significant delay at the more convenient site access.

In order to meet the Town's UDO, improvements must be identified to improve the intersection to an acceptable level-of-service. Signalization and/or additional capacity along Zebulon Road (NC 96) would be necessary for significant improvement at the intersection. A traffic signal was considered at this intersection, and combined (2025) traffic volumes were analyzed utilizing the criteria contained in the *Manual on Uniform Traffic Control Devices* (MUTCD). A traffic signal was warranted during both weekday peak hours under combined (2025) traffic conditions; however, due to the high volume of residential development, which typically generates trips during two peak hours each day, it is anticipated that a 4- or 8-hour signal warrant would not be met.

A traffic signal was analyzed at the intersection to meet the Town's UDO requirements. With a signal, the intersection is expected to operate at LOS B with all approaches operating at LOS D or better.



#### **Conclusions**

This traffic study was conducted to determine the potential traffic impacts for the proposed Weaver's Ridge residential development located east of Zebulon Road (NC 96) across from Glory Road in Zebulon, North Carolina.

The proposed residential development is assumed to consist of 124 townhomes and 58 single-family homes. The study analyzes traffic conditions during the weekday AM and PM peak hours for the following scenarios:

- Existing (2019) Traffic Conditions
- Background (2025) Traffic Conditions
- Combined (2025) Traffic Conditions
- Combined (2025) Traffic Conditions with Improvements

It is estimated that the proposed development will generate approximately 1,530 total site trips on the roadway network during a typical 24-hour weekday period. Of the daily traffic volume, it is anticipated that 105 trips (25 entering and 80 exiting) will occur during the weekday AM peak hour and 132 trips (83 entering and 49 exiting) will occur during the weekday PM peak hour.

#### **Recommendations**

Based on the findings of this study, specific geometric improvements have been identified and are recommended to accommodate future traffic conditions. See a more detailed description of the recommended improvements below. Refer to Figure 12 for an illustration of the recommended lane configuration for the proposed development.

#### **Committed Improvements by Weaver's Pond**

#### Zebulon Road (NC 96) and Pippin Road

- Provide designated northbound right-turn lane with at least 100 feet of storage and appropriate decel and taper.
- Provide designated southbound left-turn lane with at least 150 feet of storage and appropriate decel and taper.
- Install traffic signal at intersection when warranted.

#### **Recommended Improvements by Developer**

#### Zebulon Road (NC 96) and Glory Road / Site Drive 1

- Provide site access via westbound approach with one ingress lane and two egress lanes striped as one left-turn lane and one shared through/right-turn lane.
- Provide designated northbound right-turn lane with at least 100 feet of storage and appropriate decel and taper.
- Provide designated southbound left-turn lane with at least 50 feet of storage and appropriate decel and taper.

\_\_\_\_\_\_

• Monitor intersection for signalization.



If you should have any questions, please feel free to contact me at (919) 872-5115.

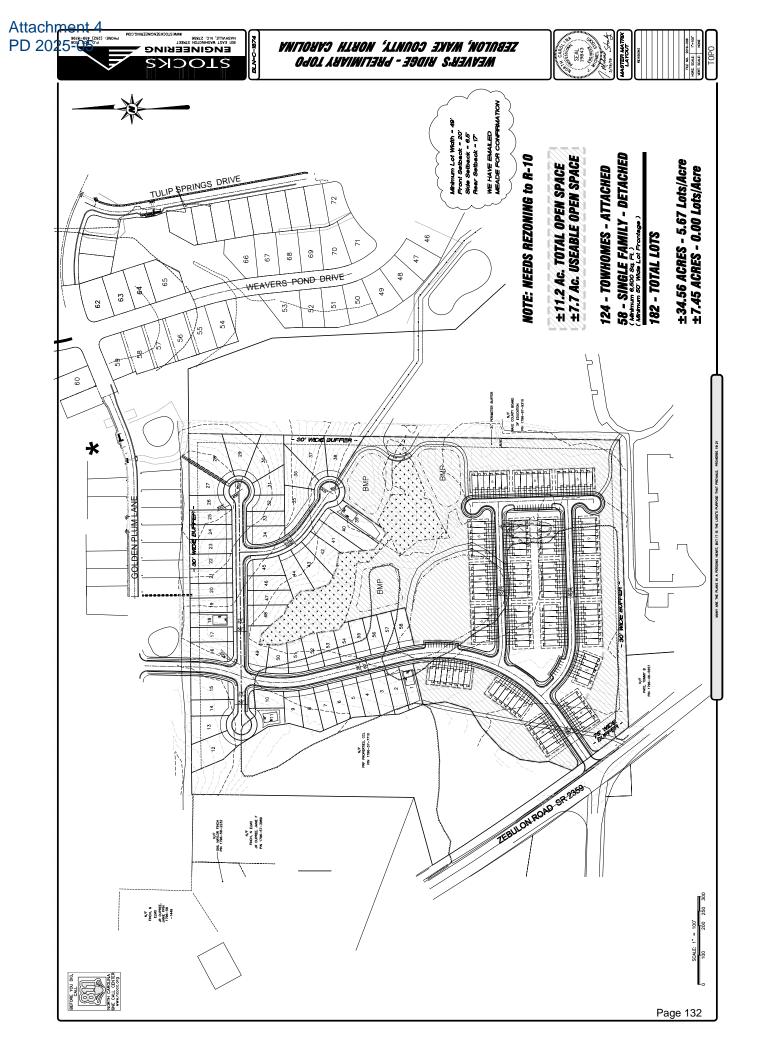
Sincerely,

Joshua Reinke, P.E. Transportation Engineer

Ramey Kemp & Associates, Inc.

NC Corporate License # C-0910

Attachments: Appendix



#### **LEGEND**

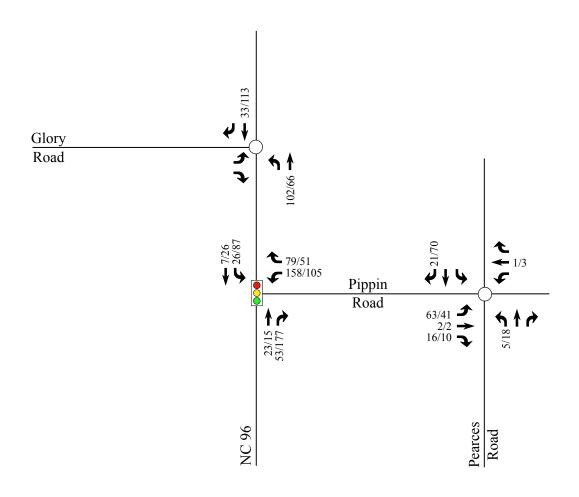
Unsignalized Intersection



Signalized Intersection

X/Y → Weekday AM / PM Peak Hour Adjacent Development Trips



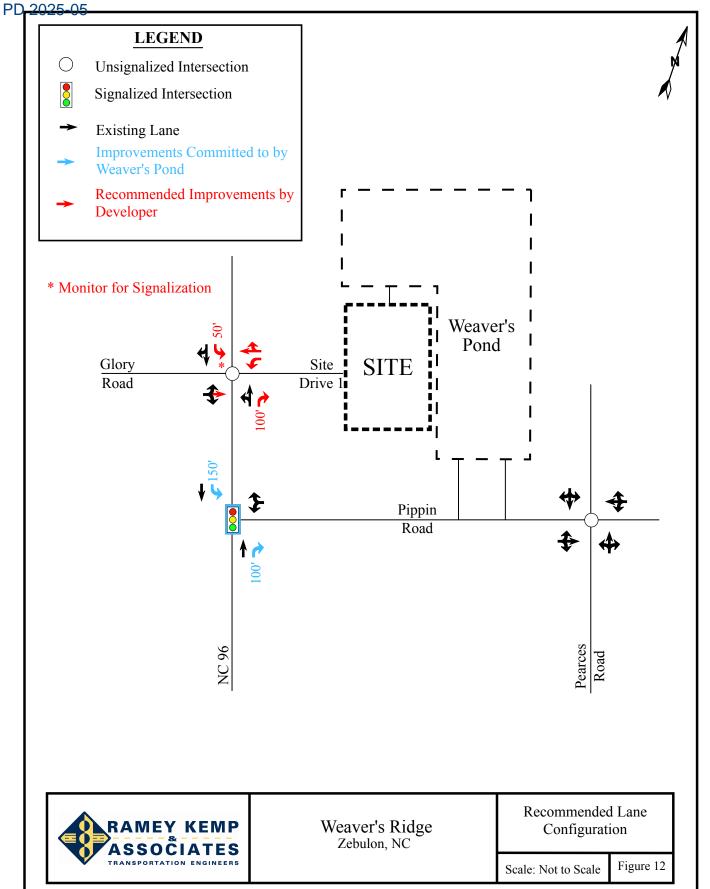




Weaver's Ridge Zebulon, NC Peak Hour Adjacent Development Trips

Scale: Not to Scale

Figure 6



# Appendix E: Intersection Spreadsheets

### INTERSECTION VOLUME DEVELOPMENT INTERSECTION #1

NC 96 at -/Pearces Road

					AM PE	AK HOUR										
			-			Pearce	es Road			NC	96			NO	C 96	
		North	bound			South	bound			Eastb	ound			West	bound	
	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
Observed 2025 Traffic Volumes	0	0	0	0	0	413	0	46	0	45	589	0	0	0	690	228
Count Balancing																
Pedestrians			0				0		i i		)		i i	l	0	
Conflicting Pedestrians		0	-	0		0	Ī	0	Ì	0		0	Ì	0	Ī	0
Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conflicting Bicycles		•	0	0			Ü	0				0				0
Heavy Vehicles	0	0	0	0	0	14	0	2	0	2	49	0	0	0	70	20
Heavy Vehicle %	2%	2%	2%	2%	2%	3%	2%	4%	2%	4%	8%	2%	2%	2%	10%	9%
	2 /0		96	Z /0	2 /0		96	4 /0	2 /0		96	270	2 /0		.96	970
Peak Hour Factor	1			1 1	1			1	1			1	1		.96	
Adjustment Factor	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1 (00	1
Adjusted 2025 Volumes	0	0	0	0	0	413	0	46	0	45	589	0	0	0	690	228
Annual Growth Rate	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%
Growth Factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
			0	0		21	0			1.05	30		0		35	1.05
Background Growth	0	0	0	0	0	21	0	2	0	2	30	0	0	0	35	12
New Road Adjustment								_								
7-Eleven	0	0	0	0	0	8	0	0	0	0	8	0	0	0	8	8
Clifton Grove (Pearces Road Residential)	0	0	0	0	0	46	0	24	0	10	0	0	0	0	0	10
Zebulon Domino's	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weaver's Ridge	0	0	0	0	0	4	0	0	0	0	40	0	0	0	13	1
Total Approved Development Trips	0	0	0	0	0	58	0	24	0	10	48	0	0	0	21	19
2027 No-Build Traffic	0	0	0	0	0	492	0	72	0	57	667	0	0	0	746	259
2027 No-Build Pedestrians			0				0				)				0	
2027 No-Build Conflicting Pedestrians		0		0		0		0		0		0		0		0
2027 No-Build Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2027 No-Build Conflicting Bicycles				0				0				0				0
															,	
Trip Distribution IN										30%					20%	30%
Trip Distribution OUT						(50%)										
Balancing Adjustment																1
Retail Trips	0	0	0	0	0	4	0	0	0	2	0	0	0	0	2	2
						1	1			1	1		1	1	1	
Total Primary Site Trips	0	0	0	0	0	4	0	0	0	2	0	0	0	0	2	2
Pass-By Distribution REDUCTION									l		-30%		l		-10%	
Pass-By Distribution IN									1	30%	-3070				-1078	10%
Pass-By Distribution OUT						(30%)				30%					1	10%
· ·						` '										
Balancing Adjustment		0		^	^	-1			^	-	-		^	_		
Pass-By Trips	0	0	0	0	0	7	0	0	0	7	-7	0	0	0	-2	2
Total Vehicular Project Trips	0	0	0	0	0	11	0	0	0	9	-7	0	0	0	0	4
Total Verneulai Troject Hips	0	0	0	0	U			0	U		-,		U			
2027 Build Traffic	0	0	0	0	0	503	0	72	0	66	660	0	0	0	746	263
2027 Build Heavy Vehicle %	2%	2%	2%	2%	2%	3%	2%	3%	2%	3%	8%	2%	2%	2%	10%	8%
2027 Build Pedestrians	2.70		0				0	-,,			)				0	
2027 Build Conflicting Pedestrians		0	Ĭ	0		0	Ĭ	0		0	l	0		0	Ĭ	0
2027 Build Connecting Fedestrians 2027 Build Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2027 Build Bicycles 2027 Build Conflicting Bicycles	0	U	U	0		U	U	0	U	U	U	0	U	U	0	0
Lot, band dominiting bioyolos				0				9								

#### INTERSECTION VOLUME DEVELOPMENT INTERSECTION #1 NC 96 at -/Pearces Road

					PM PE	AK HOUR										
						Pearce	es Road			NC	96			N(	C 96	
		North	bound			South	bound			Fasth	oound			West	bound	
	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
Observed 2025 Traffic Volumes	0	0	0	0	0	278	0	30	0	54	683	0	0	0	687	415
Count Balancing																
Pedestrians			0								0				0	
Conflicting Pedestrians		0		0		0		0			Ī	0	i i	0	Ī	
Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conflicting Bicycles	0		-	0	·	Ü	Ů	0	- Ŭ	Ü	-	0	·	Ü	l	0
Heavy Vehicles	0	0	0	0	0	12	0	0	0	1	35	0	0	0	26	13
Heavy Vehicles Heavy Vehicle %	2%	2%	2%	2%	2%	4%	2%	2%	2%	2%	5%	2%	2%	2%	4%	3%
	2%		.98	2%	2%		2% 98	2%	2%		98	2%	2%		.98	3%
Peak Hour Factor	4		.98	1 4				- 1		0.					.98	
Adjustment Factor	1	1	ı	1	1	1	1	1	ı		1	ı	1	1	107	1
Adjusted 2025 Volumes	0	0	0	0	0	278	0	30	0	54	683	0	0	0	687	415
Arrayal Carryth Data	2.50	2.50/	2.50/	2.50/	2.50/	2.50/	2.50/	2.50/	2.50/	2.50/	2.50/	2.50/	2.50/	2.50/	2.50/	2.50/
Annual Growth Rate	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%
Growth Factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Background Growth	0	0	0	0	0	14	0	2	0	3	35	0	0	0	35	21
New Road Adjustment								_								
7-Eleven	0	0	0	0	0	8	0	0	0	0	8	0	0	0	8	8
Clifton Grove (Pearces Road Residential)	0	0	0	0	0	22	0	18	0	27	0	0	0	0	0	49
Zebulon Domino's	0	0	0	0	0	3	0	0	0	0	5	0	0	0	5	3
Weaver's Ridge	0	0	0	0	0	2	0	0	0	0	25	0	0	0	41	4
Total Approved Development Trips	0	0	0	0	0	35	0	18	0	27	38	0	0	0	54	64
2027 No-Build Traffic	0	0	0	0	0	327	0	50	0	84	756	0	0	0	776	500
2027 No-Build Pedestrians			0				0				0				0	
2027 No-Build Conflicting Pedestrians		0		0		0	_	0		0		0		0		0
2027 No-Build Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2027 No-Build Conflicting Bicycles				0				0				0				0
Trip Distribution IN				1			1		1	30%	1	1	ı	1	20%	30%
Trip Distribution OUT						(50%)			-	3070		-	1		2070	3076
Balancing Adjustment						(3076)			1							
Retail Trips	0	0	0	0	0	4	0	0	0	2	0	0	0	0	2	2
retail 111ps	U		0	0	U	7	U	U	U		U		U	U		
Total Primary Site Trips	0	0	0	0	0	4	0	0	0	2	0	0	0	0	2	2
Pass-By Distribution REDUCTION			1	<u> </u>			1		1		-30%		1	1	-10%	
Pass-By Distribution IN										30%	-30%				-10%	10%
Pass-By Distribution OUT						(30%)				30%						1076
						(30%)			-			-			1	
Balancing Adjustment	0	0	0	0	0	7	0	0	0	7	-7	0	0	0	-2	2
Pass-By Trips	U	0	U	U	U	/	U	U	U	/	-/	U	U	U	-2	
Total Vehicular Project Trips	0	0	0	0	0	11	0	0	0	9	-7	0	0	0	0	4
2007 D. U.L. C.				_	_	222		F0	_	00	740		0		1 77/	F04
2027 Build Traffic	0	0	0	0	0	338	0	50	0	93	749	0	0	0	776	504
2027 Build Heavy Vehicle %	2%	2%	2%	2%	2%	4%	2%	2%	2%	2%	5%	2%	2%	2%	4%	3%
2027 Build Pedestrians			0				0				0				0	_
2027 Build Conflicting Pedestrians		0		0		0		0	_	0	_	0		0		0
2027 Build Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2027 Build Conflicting Bicycles				0				0				0				0

#### INTERSECTION VOLUME DEVELOPMENT

#### INTERSECTION #2

NC 96 at -/Site Driveway 1

					AM PE	AK HOUR										
			-			Site Dri	veway 1			NO	96			NC	96	
		North	bound			South	bound			Easth	ound			Westl	oound	
	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
Observed 2025 Traffic Volumes	0	0	0	0	0	0	0	57	0	0	647	0	0	0	642	25
Count Balancing																
Pedestrians			)				0				0				)	
Conflicting Pedestrians		0		0		0		0		0		0		0		0
Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conflicting Bicycles	-			0		-	_	0		-	-	0		-	-	0
Heavy Vehicles	0	0	0	0	0	0	0	6	0	0	52	0	0	0	37	4
Heavy Vehicle %	2%	2%	2%	2%	2%	2%	2%	11%	2%	2%	8%	2%	2%	2%	6%	16%
Peak Hour Factor	270	0.1		270	270		96	1170	270		96	270	270		96	1070
Adjustment Factor	1	1	1	1	1	1	1	1	1	1	1	1	1	1 1	1	1
Adjusted 2025 Volumes	0	0	0	0	0	0	0	57	0	0	647	0	0	0	642	25
Adjusted 2025 Volumes	U	U	U	U	U	U	U	57	U	U	047	U	U	U	042	25
Annual Growth Rate	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%
Growth Factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Background Growth	0	0	0	0	0	0	0	3	0	0	33	0	0	0	33	1.03
New Road Adjustment	U	U	U	U	U	U	U	3	U	U	33	U	U	U	33	
7-Eleven	0	0	0	0	0	0	0	0	0	0	8	0	0	0	8	0
	0	0	0	0	0	0	0	0		0	10	0		0	24	0
Clifton Grove (Pearces Road Residential)									0				0			
Zebulon Domino's	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weaver's Ridge	0	0	0	0	0	0	0	0	0	0	40	0	0	0	13	0
Total Approved Development Trips	0	0	0	0	0	0	0	0	0	0	58	0	0	0	45	0
2027 No-Build Traffic	0	0	0	0	0	0	0	60	0	0	738	0	0	0	720	26
2027 No-Build Pedestrians			)				0				0			(	)	
2027 No-Build Conflicting Pedestrians		0		0		0		0		0		0		0		0
2027 No-Build Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2027 No-Build Conflicting Bicycles				0				0				0				0
Trip Distribution IN			1				1	l	1	l	30%	1	1	l	l	20%
1 '								(30%)	1		3070		1			2070
Trip Distribution OUT								(30%)	<b>-</b>				<b>-</b>			<b>—</b>
Balancing Adjustment	•			0					_	_			^			
Retail Trips	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	2
Total Primary Site Trips	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	2
Pass-By Distribution REDUCTION							1	1	1	I	1	1	1	1	-35%	
															-30%	25%
Pass-By Distribution IN					<b>-</b>			(250/)	-			<del>                                     </del>	-			25%
Pass-By Distribution OUT								(35%)								<del>                                     </del>
Balancing Adjustment																<b>—</b> —
Pass-By Trips	0	0	0	0	0	0	0	9	0	0	0	0	0	0	-8	6
Total Vehicular Project Trips	0	0	0	0	0	0	0	11	0	0	2	0	0	0	-8	8
							ı	1		1	1			1	1	
2027 Build Traffic	0	0	0	0	0	0	0	71	0	0	740	0	0	0	712	34
2027 Build Heavy Vehicle %	2%	2%	2%	2%	2%	2%	2%	9%	2%	2%	7%	2%	2%	2%	5%	12%
2027 Build Pedestrians		(	)			(	0				0			(	)	
2027 Build Conflicting Pedestrians		0		0		0		0		0		0		0		0
2027 Build Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2027 Build Conflicting Bicycles				0				0				0				0

## INTERSECTION VOLUME DEVELOPMENT INTERSECTION #2

NC 96 at -/Site Driveway 1

					PM PE	AK HOUR										
			-			Site Dri	veway 1			NO	96			N	C 96	
		North	nbound			South	bound			Easth	oound			West	bound	
	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
Observed 2025 Traffic Volumes	0	0	0	0	0	0	0	92	0	0	668	0	0	0	661	60
Count Balancing																
Pedestrians			0				0				0				0	
Conflicting Pedestrians		0		0		0		0		0		0		0		0
Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conflicting Bicycles				0				0				0				0
Heavy Vehicles	0	0	0	0	0	0	0	3	0	0	36	0	0	0	30	1
Heavy Vehicle %	2%	2%	2%	2%	2%	2%	2%	3%	2%	2%	5%	2%	2%	2%	5%	2%
Peak Hour Factor		0	.94			0	.94			0.	94			0	.94	
Adjustment Factor	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Adjusted 2025 Volumes	0	0	0	0	0	0	0	92	0	0	668	0	0	0	661	60
														_		
Annual Growth Rate	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%
Growth Factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Background Growth	0	0	0	0	0	0	0	5	0	0	34	0	0	0	33	3
New Road Adjustment	•							_	•		_					0
7-Eleven	0	0	0	0	0	0	0	0	0	0	8	0	0	0	8	0
Clifton Grove (Pearces Road Residential)	0	0	0	0	0	0	0	0	0	0	27	0	0	0	18 5	0
Zebulon Domino's Weaver's Ridge	0	0	0	0	0	0	0	0	0	0	5 25	0	0	0	41	0
Total Approved Development Trips	0	0	0	0	0	0	0	0	0	0	65	0	0	0	72	0
2027 No-Build Traffic	0	0	0	0	0	0	0	97	0	0	767	0	0	0	766	63
2027 No-Build Harit. 2027 No-Build Pedestrians	0	-	0	0	U		0	91	U		0	U	U		0	03
2027 No-Build Conflicting Pedestrians		0	Ť	0		0	Ī	0		0	Ĭ	0		0	Ť	0
2027 No-Build Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2027 No-Build Conflicting Bicycles				0		-	-	0			-	0		-	_	0
Trip Distribution IN		1	1	1		I	1	I	ı		30%	1	ı	1	I	20%
Trip Distribution OUT								(30%)			3070					2070
Balancing Adjustment								(5070)								
Retail Trips	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	2
·						ı		ı	•				•		1	
Total Primary Site Trips	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	2
Pass-By Distribution REDUCTION		1	Ι	Ι											-35%	
Pass-By Distribution IN																25%
Pass-By Distribution OUT								(35%)								
Balancing Adjustment																
Pass-By Trips	0	0	0	0	0	0	0	8	0	0	0	0	0	0	-8	6
Total Vehicular Project Trips	0	0	0	0	0	0	0	10	0	0	2	0	0	0	-8	8
						1		1								
2027 Build Traffic	0	0	0	0	0	0	0	107	0	0	769	0	0	0	758	71
2027 Build Heavy Vehicle %	2%	2%	2%	2%	2%	2%	2%	3%	2%	2%	5%	2%	2%	2%	4%	2%
2027 Build Pedestrians			0				0				0				0	
2027 Build Conflicting Pedestrians		0		0		0		0		0		0		0		0
2027 Build Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2027 Build Conflicting Bicycles				0				0				0				0

#### INTERSECTION VOLUME DEVELOPMENT

#### INTERSECTION #3

Pearces Road at Site Driveway 2/-

					AM PE	AK HOUR										
		Pearce	es Road			Pearce	es Road			Site Dri	iveway 2				-	
		North	bound			South	bound			Easth	bound			West	bound	
	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
Observed 2025 Traffic Volumes	0	76	200	0	0	0	345	66	0	25	0	86	0	0	0	0
Count Balancing																
Pedestrians			0	L.			0	l.			0	l.			0	
Conflicting Pedestrians		0		0		0		0		0		0		0		0
Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conflicting Bicycles				0	, and		Ů	0			,	0				0
Heavy Vehicles	0	3	7	0	0	0	5	4	0	0	0	5	0	0	0	0
Heavy Vehicle %	2%	4%	4%	2%	2%	2%	2%	6%	2%	2%	2%	6%	2%	2%	2%	2%
Peak Hour Factor	270		92	270	270		92	070	270		.92	070	270		.92	270
Adjustment Factor	1	1 1	1	1	1	1 1	1	1	1	1	1	1	1	1 1	.92	1 1
*	0						345			25		86		0	1	
Adjusted 2025 Volumes	U	76	200	0	0	0	345	66	0	25	0	86	0	0	0	0
Annual Growth Rate	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%
Growth Factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
		1.05	1.05	0		0	1.05							0	0	
Background Growth	0	4	10	U	0	U	17	3	0	1	0	4	0	U	0	0
New Road Adjustment								_		_						
7-Eleven	0	0	8	0	0	0	8	0	0	0	0	0	0	0	0	0
Clifton Grove (Pearces Road Residential)	0	0	20	0	0	0	70	0	0	0	0	0	0	0	0	0
Zebulon Domino's	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weaver's Ridge	0	0	1	0	0	0	4	0	0	0	0	0	0	0	0	0
Total Approved Development Trips	0	0	29	0	0	0	82	0	0	0	0	0	0	0	0	0
2027 No-Build Traffic	0	80	239	0	0	0	444	69	0	26	0	90	0	0	0	0
2027 No-Build Pedestrians			0				0				0				0	
2027 No-Build Conflicting Pedestrians		0		0		0		0		0		0		0		0
2027 No-Build Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2027 No-Build Conflicting Bicycles				0				0				0				0
Trip Distribution IN		60%						20%								
Trip Distribution OUT										(20%)		(50%)				
Balancing Adjustment		-1														
Retail Trips	0	4	0	0	0	0	0	2	0	2	0	4	0	0	0	0
Total Primary Site Trips	0	4	0	0	0	0	0	2	0	2	0	4	0	0	0	0
Pass-By Distribution REDUCTION	1	ı	-15%		1	1	-20%	l	i -	l	1	l			1	
	-	EE0/	-1370	-	1		-ZU70	200/	1		<del>                                     </del>					
Pass-By Distribution IN	<b>—</b>	55%		1	1		-	20%	<del>                                     </del>	(150/)	<del>                                     </del>	(E00/)				
Pass-By Distribution OUT	-								<b> </b>	(15%)		(50%)				
Balancing Adjustment	<u> </u>						<del></del>			<u> </u>		-1				
Pass-By Trips	0	13	-4	0	0	0	-5	5	0	4	0	12	0	0	0	0
Total Vehicular Project Trips	0	17	-4	0	0	0	-5	7	0	6	0	16	0	0	0	0
2027 Build Traffic	0	97	235	0	0	0	439	76	0	32	0	106	0	0	0	0
2027 Build Heavy Vehicle %	2%	3%	3%	2%	2%	2%	2%	6%	2%	2%	2%	5%	2%	2%	2%	2%
2027 Build Pedestrians		(	Ö				0				0				0	
				0		0		0		0		0		0		0
2027 Build Conflicting Pedestrians		0		U		U		U		U		U		0		
2027 Build Conflicting Pedestrians 2027 Build Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

## INTERSECTION VOLUME DEVELOPMENT INTERSECTION #3

Pearces Road at Site Driveway 2/-

					PM PE	AK HOUR										
		Pearce	es Road			Pearce	es Road			Site Dri	veway 2					
		North	bound			South	bound			Easth	ound			Wes	tbound	
	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
Observed 2025 Traffic Volumes	0	128	342	0	0	0	230	74	0	61	0	117	0	0	0	0
Count Balancing																
Pedestrians			0				0				0				0	
Conflicting Pedestrians		0		0		0		0		0		0		0		0
Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conflicting Bicycles				0				0				0				0
Heavy Vehicles	0	4	7	0	0	0	4	2	0	0	0	5	0	0	0	0
Heavy Vehicle %	2%	3%	2%	2%	2%	2%	2%	3%	2%	2%	2%	4%	2%	2%	2%	2%
Peak Hour Factor	270		.97	270	270		.97	370	270		97	470	2,0		1.97	270
Adjustment Factor	1 1	1	1 1	1	1	1	1 1	1	1	1	1 1	1	1	1	1 1	1
Adjusted 2025 Volumes	0	128	342	0	0	0	230	74	0	61	0	117	0	0	0	0
Adjusted 2023 Volumes	0	120	342	U	U	U	230	74	U	01	U	117	U	U		- 0
Annual Growth Rate	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%
Growth Factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Background Growth	0	6	17	0	0	0	12	4	0	3	0	6	0	0	0	0
New Road Adjustment			.,		Ü				Ť		- ŭ	Ü	ű			
7-Eleven	0	0	8	0	0	0	8	0	0	0	0	0	0	0	0	0
Clifton Grove (Pearces Road Residential)	0	0	76	0	0	0	40	0	0	0	0	0	0	0	0	0
Zebulon Domino's	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0
Weaver's Ridge	0	0	4	0	0	0	2	0	0	0	0	0	0	0	0	0
Total Approved Development Trips	0	0	91	0	0	0	53	0	0	0	0	0	0	0	0	0
2027 No-Build Traffic	0	134	450	0	0	0	295	78	0	64	0	123	0	0	0	0
2027 No-Build Pedestrians			0				0	70	Ů		0	125	Ü	-	0	_ ŭ
2027 No-Build Conflicting Pedestrians		0	Ĭ	0		0	Ĭ	0		0	Ĭ	0		0	Ĭ	0
2027 No-Build Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2027 No-Build Conflicting Bicycles				0			Ť	0	Ů			0				0
J. J			1		•											
Trip Distribution IN		60%						20%								
Trip Distribution OUT										(20%)		(50%)				
Balancing Adjustment		-1								, ,		` ′				
Retail Trips	0	4	0	0	0	0	0	2	0	2	0	4	0	0	0	0
									-							
Total Primary Site Trips	0	4	0	0	0	0	0	2	0	2	0	4	0	0	0	0
D. D. D. L. I. I. DEDUCTION	<u> </u>		000/	1	1		450/				ı			1		
Pass-By Distribution REDUCTION		1001	-20%				-15%	450/								
Pass-By Distribution IN		60%						15%		(0.001)		(100()				
Pass-By Distribution OUT										(20%)		(40%)				
Balancing Adjustment				_							_	1	_			
Pass-By Trips	0	14	-5	0	0	0	-3	3	0	5	0	10	0	0	0	0
Total Vehicular Project Trips	0	18	-5	0	0	0	-3	5	0	7	0	14	0	0	0	0
2027 Build Traffic	0	152	445	0	0	0	292	02	0	71	0	137	0	0	0	0
2027 Build Traffic 2027 Build Heavy Vehicle %	0 2%	3%	2%	2%	2%	0 2%	292	83 3%	2%	71 2%	0 2%	4%	2%	0 2%	2%	2%
2027 Build Heavy Venicle % 2027 Build Pedestrians	276		0	Z70	270		0	370	Z70		2%	470	Z70		0	270
			U	0		0	U I	0		0	J	0			I	0
2027 Build Conflicting Pedestrians	0	0	0	0	^	0	0		0		^	0	0	0	-	
2027 Build Bicycles 2027 Build Conflicting Bicycles	0	0	U	0	0	U	0	0	0	0	0	0	0	0	0	0
2027 Build Conflicting bicycles				U				U				U				U

# **Appendix F:**

**Synchro Output: Existing (2025)** 

#### 1: NC 96 & Pearces Road

	٠	-	<b>←</b>	•	-	4
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	*	<u></u>		**************************************	<u>`</u> ₩	<b>∌</b>
Traffic Volume (vph)	45	589	690	228	413	46
Future Volume (vph)	45	589	690	228	413	46
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	1700	1700	1700	1700	1700	1700
Grade (%)	12	1%	0%	12	1%	14
Storage Length (ft)	185	1 70	0 70	0	100	0
Storage Lanes	103			1	100	1
Taper Length (ft)	50				100	I
Satd. Flow (prot)	1727	1750	1727	1482	1744	1545
Flt Permitted	0.249	1730	1727	1402	0.950	1343
	453	1750	1727	1482	1744	1545
Satd. Flow (perm)	453	1750	1727		1/44	
Right Turn on Red				No		No
Satd. Flow (RTOR)		25	25		25	
Link Speed (mph)		35	35		35	
Link Distance (ft)		340	452		446	
Travel Time (s)		6.6	8.8		8.7	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	4%	8%	10%	9%	3%	4%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	47	614	719	238	430	48
Turn Type	Perm	NA	NA	pm+ov	Prot	Prot
Protected Phases	. 01111	2	6	4	4	4
Permitted Phases	2	_	J	6	,	'
Detector Phase	2	2	6	4	4	4
Switch Phase			U	7	7	7
Minimum Initial (s)	10.0	10.0	10.0	7.0	7.0	7.0
Minimum Split (s)	18.0	18.0	17.0	15.0	15.0	15.0
Total Split (s)	57.0	57.0	57.0	43.0	43.0	43.0
Total Split (%)	57.0%	57.0%	57.0%	43.0%	43.0%	43.0%
Yellow Time (s)	3.8	3.8	3.8	3.0	3.0	3.0
All-Red Time (s)	2.3	2.3	1.8	3.3	3.3	3.3
Lost Time Adjust (s)	-1.1	-1.1	-0.6	-1.3	-1.3	-1.3
Total Lost Time (s)	5.0	5.0	5.0	5.0	5.0	5.0
Lead/Lag						
Lead-Lag Optimize?						
Recall Mode	C-Max	C-Max	C-Max	None	None	None
Act Effct Green (s)	59.7	59.7	59.7	100.0	30.3	30.3
Actuated g/C Ratio	0.60	0.60	0.60	1.00	0.30	0.30
v/c Ratio	0.17	0.59	0.70	0.16	0.81	0.10
Control Delay (s/veh)	13.4	16.9	20.2	0.2	44.4	23.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	13.4	16.9	20.2	0.2	44.4	23.1
Total Delay (S/VeII)	13.4	10.7	20.2	0.2	44.4	۷۵,۱

 $\label{thm:condition} K:\RAL\_TPTO\Traffic\110529004\ Zebulon\ Sheetz\T4-Analysis\Synchro\Existing\ (2025).syn\ Kimley-Horn$ 

#### 1: NC 96 & Pearces Road

	•	<b>→</b>	<b>←</b>	•	<b>\</b>	4		
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR		
LOS	В	В	С	Α	D	С		
Approach Delay (s/veh)		16.6	15.3		42.3			
Approach LOS		В	В		D			
Queue Length 50th (ft)	13	229	298	0	251	22		
Queue Length 95th (ft)	39	404	531	0	331	43		
Internal Link Dist (ft)		260	372		366			
Turn Bay Length (ft)	185				100			
Base Capacity (vph)	270	1044	1030	1478	662	587		
Starvation Cap Reductn	0	0	0	0	0	0		
Spillback Cap Reductn	0	0	0	0	0	0		
Storage Cap Reductn	0	0	0	0	0	0		
Reduced v/c Ratio	0.17	0.59	0.70	0.16	0.65	0.08		
Intersection Summary								
Area Type:	Other							
Cycle Length: 100								
Actuated Cycle Length: 100								
Offset: 74 (74%), Reference	d to phase	2:EBTL a	and 6:WB	T, Start of	Green			
Natural Cycle: 60								
Control Type: Actuated-Coo	rdinated							
Maximum v/c Ratio: 0.81								
Intersection Signal Delay (s/					ersection			
Intersection Capacity Utilizat	tion 68.6%			IC	U Level o	Service C		
Analysis Period (min) 15								
Splits and Phases: 1: NC	96 & Peard	es Road					 	
<b>†</b> .						<u>ا</u> لاب		
Ø2 (R)						Ø4	 	
57 s						43 s		
4*								
Ø6 (R)								
57 s							 	

	•	<b>→</b>	<b>←</b>	•	-	4
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		<b>†</b>	<b>1</b>	7		7
Traffic Volume (vph)	0	647	642	25	0	57
Future Volume (vph)	0	647	642	25	0	57
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)		1%	2%		0%	
Storage Length (ft)	0			125	0	0
Storage Lanes	0			1	0	1
Taper Length (ft)	25				25	
Satd. Flow (prot)	0	1750	1775	1378	0	1481
Flt Permitted						
Satd. Flow (perm)	0	1750	1775	1378	0	1481
Link Speed (mph)		35	35		15	
Link Distance (ft)		421	340		208	
Travel Time (s)		8.2	6.6		9.5	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	8%	6%	16%	2%	11%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	674	669	26	0	59
Sign Control		Free	Free		Stop	
Intersection Summary						
Area Type:	Other					
Control Type: Unsignalize						

Control Type: Unsignalized Intersection Capacity Utilization 44.0% Analysis Period (min) 15

ICU Level of Service A

Intersection						
Int Delay, s/veh	0.6					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	LDL	LDI			JUL	
Lane Configurations	0	<b>T</b>	<b>4</b> 42	7 25	0	<b>7</b>
Traffic Vol, veh/h	0	647	642	25	0	57
Future Vol, veh/h	0	647	642	25	0	57
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	125	-	0
Veh in Median Storage	e,# -	0	0	-	0	-
Grade, %	-	1	2	-	0	-
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	2	8	6	16	2	11
Mymt Flow	0	674	669	26	0	59
IVIVIIIL I IOVV	U	0/4	007	20	U	37
Major/Minor	Major1	ľ	Major2	N	/linor2	
Conflicting Flow All		0		0	_	669
Stage 1	_	-	_	-	_	-
Stage 2	_	_			_	_
Critical Hdwy				_	-	6.31
<b>3</b>	-	-	-			
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.399
Pot Cap-1 Maneuver	0	-	-	-	0	442
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	442
Mov Cap-2 Maneuver	_	_		_	-	_
Stage 1	-	_	_	_	_	_
Stage 2	_	_	_	_	_	<u>-</u>
Staye 2	-		-	-		-
Approach	EB		WB		SB	
HCM Control Delay, s/			0		14.4	
HCM LOS	v 0		U		В	
TICIVI LOS					D	
Minor Lane/Major Mvm	nt	EBT	WBT	WBR S	SBLn1	
Capacity (veh/h)		-		-	442	
HCM Lane V/C Ratio		_	_		0.134	
HCM Control Delay (s/	\u2h\	-		-		
HCM Lane LOS	veri)		-			
		-	-	-	В	
HCM 95th %tile Q (veh	1)	-	-	-	0.5	

	•	•	4	<b>†</b>	ţ	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥		*	<b>1</b>	ħ	
Traffic Volume (vph)	25	86	76	200	345	66
Future Volume (vph)	25	86	76	200	345	66
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	0%			0%	1%	
Storage Length (ft)	0	0	50			0
Storage Lanes	1	0	1			0
Taper Length (ft)	25		100			
Satd. Flow (prot)	1600	0	1736	1827	1801	0
Flt Permitted	0.989		0.950			
Satd. Flow (perm)	1600	0	1736	1827	1801	0
Link Speed (mph)	15			35	35	
Link Distance (ft)	230			446	197	
Travel Time (s)	10.5			8.7	3.8	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	6%	4%	4%	2%	6%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)	0%			0%	0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	120	0	83	217	447	0
Sign Control	Stop			Free	Free	
Intersection Summary						
Area Type:	Other					
Control Type: Unsignalized	t					
Intersection Capacity Utilization	ation 43.1%			IC	CU Level	of Service A

NBL	NBT		
	NDT		
		SBT	SBR
*		<u>301</u>	אומט
76	200	345	66
76	200	345	66
0	200	0	00
			Free
			None
		-	None -
		- 0	-
			-
			92
			6
83	217	375	72
Maior1	Λ	Maior2	
		-	0
-	-	_	-
		_	_
	-		_
4.14			-
-	-	-	-
	-	-	-
	-	-	-
1103	-	-	-
-	-	-	-
-	-	-	-
	-	-	-
1103	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
MD		CD	
2.3		Ü	
NRT	FBI n1	SBT	SBR
			JDIC -
			-
			-
-	0.9	-	-
_		-	_
	Free 50 92 4 83  Major1 447 4.14 2.236 1103 1103 NBB 2.3	Free Free - None 50 0 - 0 92 92 4 4 83 217  Major1 N 447 0 4.14 2.236 - 1103 1103 NB 2.3  NBT EBLn1 - 524 - 0.23 - 13.9	Free         Free         Free           -         None         -           50         -         0           -         0         1           92         92         92           4         4         2           83         217         375           Major1         Major2           447         0         -           -         -         -           4.14         -         -           -         -         -           2.236         -         -           1103         -         -           -         -         -           1103         -         -           -         -         -           1103         -         -           -         -         -           -         -         -           NB         SB           2.3         0    MBT EBLn1 SBT  - 524

	٠	-	<b>←</b>	•	/	1
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LUL *		- VVD1	VVDIX	JDL *	3DK
Traffic Volume (vph)	<b>5</b> 4	<b>6</b> 83	<b>6</b> 87	415	<b>7</b> 278	30
Future Volume (vph)	54 54	683	687	415	278	30
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	405	1%	0%		1%	
Storage Length (ft)	185			0	100	0
Storage Lanes	1			1	1	1
Taper Length (ft)	50				100	
Satd. Flow (prot)	1761	1800	1827	1568	1727	1575
Flt Permitted	0.311				0.950	
Satd. Flow (perm)	576	1800	1827	1568	1727	1575
Right Turn on Red				No		No
Satd. Flow (RTOR)						
Link Speed (mph)		35	35		35	
Link Distance (ft)		366	439		465	
Travel Time (s)		7.1	8.6		9.1	
Confl. Peds. (#/hr)					,	
Confl. Bikes (#/hr)						
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	5%	4%	3%	4%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0
	U	U	U	U	U	U
Parking (#/hr)		00/	00/		00/	
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)		407	704	400	004	0.1
Lane Group Flow (vph)	55	697	701	423	284	31
Turn Type	Perm	NA	NA	pm+ov	Prot	Prot
Protected Phases		2	6	4	4	4
Permitted Phases	2			6		
Detector Phase	2	2	6	4	4	4
Switch Phase						
Minimum Initial (s)	10.0	10.0	10.0	7.0	7.0	7.0
Minimum Split (s)	18.0	18.0	17.0	15.0	15.0	15.0
Total Split (s)	70.0	70.0	70.0	40.0	40.0	40.0
Total Split (%)	63.6%	63.6%	63.6%	36.4%	36.4%	36.4%
Yellow Time (s)	3.8	3.8	3.8	3.0	3.0	3.0
All-Red Time (s)	2.3	2.3	1.8	3.3	3.3	3.3
Lost Time Adjust (s)	-1.1	-1.1	-0.6	-1.3	-1.3	-1.3
Total Lost Time (s)	5.0	5.0	5.0	5.0	5.0	5.0
Lead/Lag	5.0	5.0	5.0	5.0	5.0	3.0
Lead-Lag Optimize?	C 14	C NA	C 1.4	NI	NI.	NI
Recall Mode	C-Max	C-Max	C-Max	None	None	None
Act Effct Green (s)	76.0	76.0	76.0	110.0	24.0	24.0
Actuated g/C Ratio	0.69	0.69	0.69	1.00	0.22	0.22
v/c Ratio	0.14	0.56	0.56	0.27	0.75	0.09
Control Delay (s/veh)	8.4	11.9	11.8	0.4	52.4	32.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	8.4	11.9	11.8	0.4	52.4	32.0

 $\label{thm:condition} K:\RAL\_TPTO\LTraffic\110529004\ Zebulon\ Sheetz\T4-Analysis\Synchro\Existing\ (2025). syn\ Kimley-Horn$ 

	٠	<b>→</b>	<b>←</b>	•	/	4	
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR	
LOS	А	В	В	А	D	С	
Approach Delay (s/veh)		11.6	7.5		50.4		
Approach LOS		В	Α		D		
Queue Length 50th (ft)	12	221	221	0	189	18	
Queue Length 95th (ft)	35	407	405	0	258	39	
Internal Link Dist (ft)		286	359		385		
Turn Bay Length (ft)	185				100		
Base Capacity (vph)	397	1242	1261	1561	549	501	
Starvation Cap Reductn	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	
Reduced v/c Ratio	0.14	0.56	0.56	0.27	0.52	0.06	
Intersection Summary							
Area Type:	Other						
Cycle Length: 110							
Actuated Cycle Length: 110							
Offset: 50 (45%), Reference	d to phase	2:EBTL a	nd 6:WB	T, Start of	Green		
Natural Cycle: 55							
Control Type: Actuated-Cool	rdinated						
Maximum v/c Ratio: 0.75							
Intersection Signal Delay (s/				Int	ersection	LOS: B	
Intersection Capacity Utilizat	tion 68.6%			IC	U Level o	f Service C	,
Analysis Period (min) 15							
Calita and Dhases 1. NO	0/ 0 Daam	D					
Splits and Phases: 1: NC	96 & Peard	es Road					1 to
<b>J</b>							
Ø2 (R)							Ø4
44							103
Ø6 (R)							
70 s							

	•	<b>→</b>	<b>←</b>	•	-	4
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		<b>↑</b>	<b>1</b>	7		7
Traffic Volume (vph)	0	668	661	60	0	92
Future Volume (vph)	0	668	661	60	0	92
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)		1%	2%		0%	
Storage Length (ft)	0			125	0	0
Storage Lanes	0			1	0	1
Taper Length (ft)	25				25	
Satd. Flow (prot)	0	1800	1791	1568	0	1596
Flt Permitted						
Satd. Flow (perm)	0	1800	1791	1568	0	1596
Link Speed (mph)		35	35		15	
Link Distance (ft)		592	366		225	
Travel Time (s)		11.5	7.1		10.2	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	5%	5%	2%	2%	3%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	711	703	64	0	98
Sign Control		Free	Free		Stop	
Intersection Summary						
Area Type:	Other					
Control Type: Unsignalize	d					

ICU Level of Service A

Intersection Capacity Utilization 47.2% Analysis Period (min) 15

Intersection						
Int Delay, s/veh	1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	LDL			_	JDL	
Lane Configurations	0	110	<b>^</b>	<b>*</b>	0	7
Traffic Vol, veh/h	0	668	661	60	0	92
Future Vol, veh/h	0	668	661	60	0	92
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	125	-	0
Veh in Median Storage	2,# -	0	0	-	0	-
Grade, %	-	1	2	-	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	5	5	2	2	3
Mvmt Flow	0	711	703	64	0	98
	Major1		Major2		/linor2	
Conflicting Flow All	-	0	-	0	-	703
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.23
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.327
Pot Cap-1 Maneuver	0	-	-	-	0	436
Stage 1	0	-	-	-	0	-
Stage 2	0	_	_	-	0	-
Platoon blocked, %	Ū	_	_	_		
Mov Cap-1 Maneuver	_			-	_	436
Mov Cap-1 Maneuver	-	-	_		-	430
		-	-	-		-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s/			0		15.6	
HCM LOS	v U		U		C	
TIGIVI EUG					C	
Minor Lane/Major Mvm	nt	EBT	WBT	WBR S	SBLn1	
Capacity (veh/h)		-	-	-		
HCM Lane V/C Ratio		_	_		0.224	
HCM Control Delay (s/	veh)	-	_		15.6	
HCM Lane LOS	. 51.1)	_		_	C	
HCM 95th %tile Q (veh	1)	_	_	_	0.9	
	7				0.7	

	•	•	4	<b>†</b>	<b>↓</b>	4	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	¥		*	<b>^</b>	î,		
Traffic Volume (vph)	61	117	128	342	230	74	
Future Volume (vph)	61	117	128	342	230	74	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Lane Width (ft)	12	12	12	12	12	12	
Grade (%)	0%			0%	1%		
Storage Length (ft)	0	0	50			0	
Storage Lanes	1	0	1			0	
Taper Length (ft)	25		100				
Satd. Flow (prot)	1647	0	1752	1863	1788	0	
Flt Permitted	0.983		0.950				
Satd. Flow (perm)	1647	0	1752	1863	1788	0	
Link Speed (mph)	15			35	35		
Link Distance (ft)	239			465	197		
Travel Time (s)	10.9			9.1	3.8		
Confl. Peds. (#/hr)							
Confl. Bikes (#/hr)							
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	
Growth Factor	100%	100%	100%	100%	100%	100%	
Heavy Vehicles (%)	2%	4%	3%	2%	2%	3%	
Bus Blockages (#/hr)	0	0	0	0	0	0	
Parking (#/hr)							
Mid-Block Traffic (%)	0%			0%	0%		
Shared Lane Traffic (%)							
Lane Group Flow (vph)	184	0	132	353	313	0	
Sign Control	Stop			Free	Free		
Intersection Summary							
Area Type:	Other						
Control Type: Unsignalize	d						
Intersection Capacity Utiliz				IC	CU Level	of Service A	4

Intersection Capacity Utilization 44.3%

Intersection						
Int Delay, s/veh	4.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	7/	LDIN	NDL N	1	<b>1</b>	JUIN
Traffic Vol, veh/h	61	117	128	342	230	74
Future Vol, veh/h	61	117	128	342	230	74
· ·						
Conflicting Peds, #/hr	0	O Cton	0	0	0	0
	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	50	-	-	-
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	1	-
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	4	3	2	2	3
Mvmt Flow	63	121	132	353	237	76
Major/Minor Mi	inor2	N	Major1	N	/lajor2	
Conflicting Flow All	892	275	313	0	- najorz	0
Stage 1	275	210	313	-	-	-
Stage 2	617	-	-	-	-	-
				-	-	-
	6.42	6.24	4.13	-	-	-
	5.42	-	-	-	-	-
, ,	5.42	-	-	-	-	-
	3.518		2.227	-	-	-
Pot Cap-1 Maneuver	312	759	1242	-	-	-
Stage 1	771	-	-	-	-	-
Stage 2	538	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	279	759	1242	-	-	-
Mov Cap-2 Maneuver	279	-	-	-	-	-
Stage 1	689	-	-	-	-	-
Stage 2	538	_	_	_	_	_
Jugo Z	550					
Approach	EB		NB		SB	
HCM Control Delay, s/v	17.2		2.2		0	
HCM LOS	С					
Minor Long/Major Mayort		NDI	NDT	CDI ∽1	CDT	CDD
Minor Lane/Major Mvmt		NBL		EBLn1	SBT	SBR
Capacity (veh/h)		1242	-		-	-
HCM Lane V/C Ratio		0.106	-	0.385	-	-
HCM Control Delay (s/ve	eh)	8.2	-		-	-
HCM Lane LOS		Α	-	С	-	-
HCM 95th %tile Q (veh)		0.4	-	1.8	-	-

# **Appendix G:**

**Synchro Output: Background (2027)** 

	۶	<b>→</b>	<b>←</b>	*	-	1
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	*	<u> </u>	<u>₩</u>	7	)	7
Traffic Volume (vph)	57	667	746	259	492	72
Future Volume (vph)	57	667	746	259	492	72
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	12	1%	0%	12	1%	12
Storage Length (ft)	185	1 /0	0 70	0	100	0
Storage Lanes	103			1	100	1
Taper Length (ft)	50			1	100	
	1727	1750	1727	1482	1744	1545
Satd. Flow (prot) Flt Permitted	0.185	1750	1/2/	1402	0.950	1343
		1750	1707	1400		1515
Satd. Flow (perm)	336	1750	1727	1482	1744	1545
Right Turn on Red				No		No
Satd. Flow (RTOR)		0.5	^-		0.5	
Link Speed (mph)		35	35		35	
Link Distance (ft)		340	452		446	
Travel Time (s)		6.6	8.8		8.7	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	4%	8%	10%	9%	3%	4%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)					- 7,5	
Lane Group Flow (vph)	59	695	777	270	513	75
Turn Type	Perm	NA	NA	pm+ov	Prot	Prot
Protected Phases	T CITI	2	6	piii+0v 4	4	4
Permitted Phases	2		Ö		4	4
	2	0	_	6	A	1
Detector Phase	2	2	6	4	4	4
Switch Phase	10.5	40.0				
Minimum Initial (s)	10.0	10.0	10.0	7.0	7.0	7.0
Minimum Split (s)	18.0	18.0	17.0	15.0	15.0	15.0
Total Split (s)	57.0	57.0	57.0	43.0	43.0	43.0
Total Split (%)	57.0%	57.0%	57.0%	43.0%	43.0%	43.0%
Yellow Time (s)	3.8	3.8	3.8	3.0	3.0	3.0
All-Red Time (s)	2.3	2.3	1.8	3.3	3.3	3.3
Lost Time Adjust (s)	-1.1	-1.1	-0.6	-1.3	-1.3	-1.3
Total Lost Time (s)	5.0	5.0	5.0	5.0	5.0	5.0
Lead/Lag		0.0	0.0	0.0	0.0	0.0
Lead-Lag Optimize?						
Recall Mode	C-Max	C-Max	C-Max	None	None	None
Act Effct Green (s)	56.2	56.2		100.0		
\ /			56.2		33.8	33.8
Actuated g/C Ratio	0.56	0.56	0.56	1.00	0.34	0.34
v/c Ratio	0.31	0.71	0.80	0.18	0.87	0.14
Control Delay (s/veh)	19.4	22.1	26.8	0.3	47.0	22.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	19.4	22.1	26.8	0.3	47.0	22.2

 $\label{thm:linear_continuity} K:\RAL\_TPTO\LTraffic\110529004\ Zebulon\ Sheetz\T4-Analysis\Synchro\Background\ (2027).syn\ Kimley-Horn$ 

	•	-	•	•	1	1	
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR	
LOS	В	С	С	Α	D	С	
Approach Delay (s/veh)		21.9	19.9		43.8		
Approach LOS		С	В		D		
Queue Length 50th (ft)	20	316	388	0	295	32	
Queue Length 95th (ft)	56	494	#664	0	#417	62	
Internal Link Dist (ft)		260	372		366		
Turn Bay Length (ft)	185				100		
Base Capacity (vph)	188	982	970	1474	662	587	
Starvation Cap Reductn	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	
Reduced v/c Ratio	0.31	0.71	0.80	0.18	0.77	0.13	
Intersection Summary							
	Other						
Cycle Length: 100							
Actuated Cycle Length: 100							
Offset: 74 (74%), Referenced	to phase	2:EBTL a	and 6:WB	T, Start o	f Green		
Natural Cycle: 65							
Control Type: Actuated-Coord	dinated						
Maximum v/c Ratio: 0.87							
Intersection Signal Delay (s/v					tersection		
Intersection Capacity Utilizati	on 83.0%			IC	U Level c	f Service E	
Analysis Period (min) 15							
# 95th percentile volume ex			eue may	be longer	•		
Queue shown is maximum	n after two	cycles.					
Splits and Phases: 1: NC 9	96 & Peard	es Road					
<b>7</b> .						اللاب	



	•	<b>→</b>	<b>←</b>	•	-	1	
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		<b>↑</b>	<b>^</b>	7		7	
Traffic Volume (vph)	0	738	720	26	0	60	
Future Volume (vph)	0	738	720	26	0	60	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Lane Width (ft)	12	12	12	12	12	12	
Grade (%)		1%	2%		0%		
Storage Length (ft)	0			125	0	0	
Storage Lanes	0			1	0	1	
Taper Length (ft)	25				25		
Satd. Flow (prot)	0	1750	1775	1378	0	1481	
Flt Permitted							
Satd. Flow (perm)	0	1750	1775	1378	0	1481	
Link Speed (mph)		35	35		15		
Link Distance (ft)		421	340		208		
Travel Time (s)		8.2	6.6		9.5		
Confl. Peds. (#/hr)							
Confl. Bikes (#/hr)							
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	
Growth Factor	100%	100%	100%	100%	100%	100%	
Heavy Vehicles (%)	2%	8%	6%	16%	2%	11%	
Bus Blockages (#/hr)	0	0	0	0	0	0	
Parking (#/hr)							
Mid-Block Traffic (%)		0%	0%		0%		
Shared Lane Traffic (%)							
Lane Group Flow (vph)	0	769	750	27	0	63	
Sign Control		Free	Free		Stop		
Intersection Summary							
Area Type:	Other						
Control Type: Unsignalized							
Intersection Capacity Utiliz	ation 48.3%			IC	CU Level	of Service	A
Analysis Daried (min) 15							

Intersection						
Int Delay, s/veh	0.6					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	<u></u>	VVD1	VVDK	ODL	JDK 7
Traffic Vol, veh/h	0	<b>7</b>	<b>T</b> 720	26	0	60
Future Vol, veh/h	0	738	720	26	0	60
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		- -	None
Storage Length	_	-	_	125	_	0
Veh in Median Storage,		0	0	-	0	-
Grade, %	π - -	1	2	<u>-</u>	0	_
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	2	8	6	16	2	11
Mymt Flow	0	769	750	27	0	63
IVIVIIIL I IOW	U	103	750	21	U	03
	1ajor1		Major2		/linor2	
Conflicting Flow All	-	0	-	0	-	750
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.31
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.399
Pot Cap-1 Maneuver	0	-	-	-	0	397
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	397
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
_						
Annroach	EB		WB		SB	
Approach						
HCM Control Delay, s/v	0		0		15.8	
HCM LOS					С	
Minor Lane/Major Mvmt	_	EBT	WBT	WBR S	SBLn1	
Capacity (veh/h)		-	-	-		
HCM Lane V/C Ratio		-	-		0.157	
HCM Control Delay (s/v	eh)	_	_	-		
HCM Lane LOS		-	-	-	С	
HCM 95th %tile Q (veh)		_	-	-	0.6	

	٠	•	1	<b>†</b>	<b>↓</b>	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	M		Y	<b>^</b>	1	
Traffic Volume (vph)	26	90	80	239	444	69
Future Volume (vph)	26	90	80	239	444	69
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	0%			0%	1%	
Storage Length (ft)	0	0	50			0
Storage Lanes	1	0	1			0
Taper Length (ft)	25		100			
Satd. Flow (prot)	1600	0	1736	1827	1811	0
Flt Permitted	0.989		0.950			
Satd. Flow (perm)	1600	0	1736	1827	1811	0
Link Speed (mph)	15			35	35	
Link Distance (ft)	230			446	197	
Travel Time (s)	10.5			8.7	3.8	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	6%	4%	4%	2%	6%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)	0%			0%	0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	126	0	87	260	558	0
Sign Control	Stop			Free	Free	
Intersection Summary						
Area Type:	Other					
Control Type: Unsignalized						
Intersection Capacity Utiliz	ation 49.0%			IC	CU Level	of Service A

Intersection						
Int Delay, s/veh	2.7					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W		*	<b>^</b>	₽	
Traffic Vol, veh/h	26	90	80	239	444	69
Future Vol, veh/h	26	90	80	239	444	69
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	50	-	_	-
Veh in Median Storage		_	-	0	0	_
Grade, %	0	_	_	0	1	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	6	4	4	2	6
Mymt Flow	28	98	87	260	483	75
IVIVIIIL I IOW	20	30	01	200	400	13
Major/Minor	Minor2		Major1	<u> </u>	/lajor2	
Conflicting Flow All	955	521	558	0	-	0
Stage 1	521	-	-	-	-	-
Stage 2	434	-	-	-	_	-
Critical Hdwy	6.42	6.26	4.14	-	_	_
Critical Hdwy Stg 1	5.42	-	_	-	_	_
Critical Hdwy Stg 2	5.42	_	_	-	_	_
Follow-up Hdwy		3.354	2.236	_	_	_
Pot Cap-1 Maneuver	287	548	1003	-	-	_
Stage 1	596			_	_	_
Stage 2	653	_	_	_	_	_
Platoon blocked, %	000			_	_	_
Mov Cap-1 Maneuver	262	548	1003	-	_	_
Mov Cap-1 Maneuver	262	540	1003		-	_
	544	-		-	-	-
Stage 1		-	-	-	-	-
Stage 2	653	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s/			2.2		0	
HCM LOS	V 10.4		۷.۷		- 0	
TIOWI LOO	U					
Minor Lane/Major Mvn	nt	NBL	NBT I	EBLn1	SBT	SBR
Capacity (veh/h)		1003	-	440	-	-
HCM Lane V/C Ratio		0.087	-	0.287	-	-
HCM Control Delay (s/	/veh)	8.9	-		-	-
HCM Lane LOS	,	A	_	С	_	_
HCM 95th %tile Q (vel	າ)	0.3	-	1.2	-	-
	-/	0.0				

	۶	<b>→</b>	←	*	-	4
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	7	<u> </u>	<u>₩</u>	7	7	7
Traffic Volume (vph)	84	756	776	500	327	50
Future Volume (vph)	84	756	776	500	327	50
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	12	1%	0%	12	1%	12
Storage Length (ft)	185	1 /0	0 /0	0	100	0
Storage Lanes	1			1	100	1
Taper Length (ft)	50				100	
	1761	1800	1827	1560	1727	1575
Satd. Flow (prot)		1000	1027	1568		1575
Flt Permitted	0.244	4000	4007	4500	0.950	4575
Satd. Flow (perm)	452	1800	1827	1568	1727	1575
Right Turn on Red				No		No
Satd. Flow (RTOR)						
Link Speed (mph)		35	35		35	
Link Distance (ft)		366	439		465	
Travel Time (s)		7.1	8.6		9.1	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	5%	4%	3%	4%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)	U	U	J	J	U	U
Mid-Block Traffic (%)		0%	0%		0%	
		U%	U70		U%	
Shared Lane Traffic (%)	00	774	700	E40	224	F.4
Lane Group Flow (vph)	86	771	792	510	334	51
Turn Type	Perm	NA	NA	pm+ov	Prot	Prot
Protected Phases		2	6	4	4	4
Permitted Phases	2			6		
Detector Phase	2	2	6	4	4	4
Switch Phase						
Minimum Initial (s)	10.0	10.0	10.0	7.0	7.0	7.0
Minimum Split (s)	18.0	18.0	17.0	15.0	15.0	15.0
Total Split (s)	70.0	70.0	70.0	40.0	40.0	40.0
Total Split (%)	63.6%	63.6%	63.6%	36.4%	36.4%	36.4%
Yellow Time (s)	3.8	3.8	3.8	3.0	3.0	3.0
All-Red Time (s)	2.3	2.3	1.8	3.3	3.3	3.3
. ,	-1.1	-1.1	-0.6	-1.3	-1.3	-1.3
Lost Time Adjust (s)	5.0		5.0		5.0	
Total Lost Time (s)	5.0	5.0	5.0	5.0	5.0	5.0
Lead/Lag						
Lead-Lag Optimize?		0.1.	0.1:			
Recall Mode	C-Max	C-Max	C-Max	None	None	None
Act Effct Green (s)	72.8	72.8	72.8	110.0	27.2	27.2
Actuated g/C Ratio	0.66	0.66	0.66	1.00	0.25	0.25
v/c Ratio	0.29	0.65	0.66	0.33	0.78	0.13
Control Delay (s/veh)	12.7	15.6	15.8	0.6	51.1	30.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	12.7	15.6	15.8	0.6	51.1	30.4
. ctar Bora, (or torr)	14.1	.0.0		0.0	J 1. 1	JU. 1

 $\label{thm:linear_continuity} K:\RAL\_TPTO\LTraffic\110529004\ Zebulon\ Sheetz\T4-Analysis\Synchro\Background\ (2027).syn\ Kimley-Horn$ 

	۶	<b>→</b>	•	•	-	4	
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR	
LOS	В	В	В	Α	D	С	
Approach Delay (s/veh)		15.3	9.8		48.4		
Approach LOS		В	Α		D		
Queue Length 50th (ft)	24	299	311	0	219	28	
Queue Length 95th (ft)	65	520	537	0	296	55	
Internal Link Dist (ft)		286	359		385		
Turn Bay Length (ft)	185				100		
Base Capacity (vph)	298	1190	1208	1564	549	501	
Starvation Cap Reductn	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	
Reduced v/c Ratio	0.29	0.65	0.66	0.33	0.61	0.10	
Intersection Summary							
Area Type:	Other						
Cycle Length: 110							
Actuated Cycle Length: 110							
Offset: 50 (45%), Reference	ed to phase	2:EBTL a	and 6:WB	T, Start of	Green		
Natural Cycle: 55							
Control Type: Actuated-Coo	ordinated						
Maximum v/c Ratio: 0.78							
Intersection Signal Delay (s					ersection		
Intersection Capacity Utiliza	ation 79.8%			IC	U Level c	f Service D	
Analysis Period (min) 15							
Splits and Phases: 1: NC	C 96 & Peard	es Road					
Opinio driu i ridoco. 1. NC	J J J G I G GIC	os rodu					1 16
<b>J</b> (2) (D)							Ø4
Ø2 (R)							Ø4 40 s
44							10 3
Ø6 (R)							
70 s							

	٠	-	<b>←</b>	*	-	4	
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		<b>↑</b>	<b>↑</b>	7		7	
Traffic Volume (vph)	0	767	766	63	0	97	
Future Volume (vph)	0	767	766	63	0	97	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Lane Width (ft)	12	12	12	12	12	12	
Grade (%)		1%	2%		0%		
Storage Length (ft)	0			125	0	0	
Storage Lanes	0			1	0	1	
Taper Length (ft)	25				25		
Satd. Flow (prot)	0	1800	1791	1568	0	1596	
Flt Permitted							
Satd. Flow (perm)	0	1800	1791	1568	0	1596	
Link Speed (mph)		35	35		15		
Link Distance (ft)		592	366		225		
Travel Time (s)		11.5	7.1		10.2		
Confl. Peds. (#/hr)							
Confl. Bikes (#/hr)							
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	
Growth Factor	100%	100%	100%	100%	100%	100%	
Heavy Vehicles (%)	2%	5%	5%	2%	2%	3%	
Bus Blockages (#/hr)	0	0	0	0	0	0	
Parking (#/hr)							
Mid-Block Traffic (%)		0%	0%		0%		
Shared Lane Traffic (%)							
Lane Group Flow (vph)	0	816	815	67	0	103	
Sign Control		Free	Free		Stop		
Intersection Summary							
Area Type:	Other						
Control Type: Unsignalized							
Intersection Capacity Utiliz	ation 53.0%			IC	CU Level	of Service A	Α
Analysis Daried (min) 15							

Intersection						
Int Delay, s/veh	1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		<u></u>	<b>↑</b>	7		7
Traffic Vol, veh/h	0	767	766	63	0	97
Future Vol, veh/h	0	767	766	63	0	97
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-	None	-	None
Storage Length	_	-	_	125	_	0
Veh in Median Storag	ie.# -	0	0	-	0	-
Grade, %		1	2	<u>-</u>	0	_
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	5	5	2	2	3
Mvmt Flow	0	816	815	67	0	103
Major/Minor	Major1		Major2	N	Minor2	
Conflicting Flow All		0		0	-	815
Stage 1	_	-	_	-	_	-
Stage 2	_	_	_	<u>-</u>	_	_
Critical Hdwy	_	_	_	_	_	6.23
Critical Hdwy Stg 1	_	_	_	_	_	0.25
			_			
Critical Hdwy Stg 2	-	-		-	-	
Follow-up Hdwy	-	-	-	-		3.327
Pot Cap-1 Maneuver	0	-	-	-	0	376
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	-	376
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
J.						
A			\A/D		O.D.	
Approach	EB		WB		SB	
HCM Control Delay, s	s/v 0		0		18.2	
HCM LOS					С	
Minor Lane/Major Mvi	mt	EBT	WBT	WBR S	SRI n1	
	iiit.	LDI	וטיי	י אום יי		
Capacity (veh/h)		-	-	-	376	
HCM Lane V/C Ratio	/ 1>	-	-		0.274	
HCM Control Delay (s	s/ven)	-	-	-	18.2	
HCM Lane LOS		-	-	-	С	
HCM 95th %tile Q (ve	eh)	-	-	-	1.1	

	٠	•	1	<b>†</b>	ļ	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	A.A.		7	<b>^</b>	13	
Traffic Volume (vph)	64	123	134	450	295	78
Future Volume (vph)	64	123	134	450	295	78
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	0%			0%	1%	
Storage Length (ft)	0	0	50			0
Storage Lanes	1	0	1			0
Taper Length (ft)	25		100			
Satd. Flow (prot)	1647	0	1752	1863	1798	0
Flt Permitted	0.983		0.950			
Satd. Flow (perm)	1647	0	1752	1863	1798	0
Link Speed (mph)	15			35	35	
Link Distance (ft)	239			465	197	
Travel Time (s)	10.9			9.1	3.8	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	4%	3%	2%	2%	3%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)	0%			0%	0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	193	0	138	464	384	0
Sign Control	Stop			Free	Free	
Intersection Summary						
Area Type:	Other					
Control Type: Unsignalized						
Intersection Capacity Utiliz	zation 48.8%			IC	CU Level	of Service A
Analysis Daried (min) 15						

Intersection						
Int Delay, s/veh	4.7					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥		ሻ	<b>↑</b>	₽	
Traffic Vol, veh/h	64	123	134	450	295	78
Future Vol, veh/h	64	123	134	450	295	78
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	50	-	_	-
Veh in Median Storage		_	-	0	0	_
Grade, %	0	_	_	0	1	_
Peak Hour Factor	97	97	97	97	97	97
	2	4	3	2	2	3
Heavy Vehicles, %						
Mvmt Flow	66	127	138	464	304	80
Major/Minor I	Minor2		Major1	N	/lajor2	
Conflicting Flow All	1084	344	384	0	-	0
Stage 1	344	-	-	-	-	-
Stage 2	740	_	_	_	<u>-</u>	_
Critical Hdwy	6.42	6.24	4.13	_	_	_
Critical Hdwy Stg 1	5.42	0.24	7.10		_	_
Critical Hdwy Stg 2	5.42	-	_	_	-	
Follow-up Hdwy		3.336		_	_	-
Pot Cap-1 Maneuver	240	694	1169	-	-	
			1109	-		-
Stage 1	718	-	-	-	-	-
Stage 2	472	-	-	-	-	-
Platoon blocked, %	0.10	001	1100	-	-	-
Mov Cap-1 Maneuver	212	694	1169	-	-	-
Mov Cap-2 Maneuver	212	-	-	-	-	-
Stage 1	633	-	-	-	-	-
Stage 2	472	-	-	-	-	-
Ammanah	ED		ND		CD	
Approach	EB		NB		SB	
HCM Control Delay, s/			1.9		0	
HCM LOS	С					
Minor Lane/Major Mvm	nt	NBL	NRTI	EBLn1	SBT	SBR
	IC .		NDII			אומט
Capacity (veh/h)		1169	-	390	-	-
HCM Lane V/C Ratio	1.	0.118	-	0.494	-	-
HCM Control Delay (s/	ven)	8.5	-	22.9	-	-
HCM Lane LOS		Α	-	С	-	-
HCM 95th %tile Q (veh	1)	0.4	-	2.6	-	-

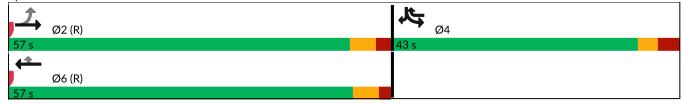
# **Appendix H:**

Synchro Output: Build-Out (2027)

	•	<b>→</b>	<b>←</b>	*	-	4
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	)	<u></u>		77017	) T	7
Traffic Volume (vph)	66	660	<b>T</b> 746	263	503	72
Future Volume (vph)	66	660	746	263	503	72
	1900	1900	1900	1900	1900	1900
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12			12		12
Grade (%)	405	1%	0%		1%	
Storage Length (ft)	185			0	100	0
Storage Lanes	1			1	1	1
Taper Length (ft)	50				100	
Satd. Flow (prot)	1744	1750	1727	1495	1744	1560
Flt Permitted	0.180				0.950	
Satd. Flow (perm)	330	1750	1727	1495	1744	1560
Right Turn on Red				No		No
Satd. Flow (RTOR)						
Link Speed (mph)		35	35		35	
Link Distance (ft)		340	452		446	
( )		6.6	8.8		8.7	
Travel Time (s)		0.0	0.0		0.1	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)	2.22	0.00	0.00	0.00	0.00	0.00
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	3%	8%	10%	8%	3%	3%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	69	688	777	274	524	75
Turn Type	Perm	NA	NA	pm+ov	Prot	Prot
Protected Phases		2	6	4	4	4
Permitted Phases	2	_		6		
Detector Phase	2	2	6	4	4	4
Switch Phase	2	2	Ü	4	4	4
	40.0	40.0	40.0	7.0	7.0	7.0
Minimum Initial (s)	10.0	10.0	10.0	7.0	7.0	7.0
Minimum Split (s)	18.0	18.0	17.0	15.0	15.0	15.0
Total Split (s)	57.0	57.0	57.0	43.0	43.0	43.0
Total Split (%)	57.0%	57.0%	57.0%	43.0%	43.0%	43.0%
Yellow Time (s)	3.8	3.8	3.8	3.0	3.0	3.0
All-Red Time (s)	2.3	2.3	1.8	3.3	3.3	3.3
Lost Time Adjust (s)	-1.1	-1.1	-0.6	-1.3	-1.3	-1.3
Total Lost Time (s)	5.0	5.0	5.0	5.0	5.0	5.0
Lead/Lag						
Lead-Lag Optimize?						
Recall Mode	C-Max	C-Max	C-Max	None	None	None
Act Effct Green (s)	55.7	55.7	55.7	100.0	34.3	34.3
Actuated g/C Ratio	0.56	0.56	0.56	1.00	0.34	0.34
v/c Ratio	0.38	0.71	0.81	0.18	0.88	0.14
Control Delay (s/veh)			77 2	0.3	47.6	22.0
	21.8	22.2	27.3			
Queue Delay	21.8 0.0	0.0	0.0	0.0	0.0	0.0

 $\label{thm:linear_continuity} K:\RAL\_TPTO\LTraffic\110529004\ Zebulon\ Sheetz\T4-Analysis\Synchro\Build-Out\ (2027).syn\ Kimley-Horn$ 

	•	-	•	•	1	4
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
LOS	С	С	С	Α	D	С
Approach Delay (s/veh)		22.2	20.3		44.4	
Approach LOS		С	С		D	
Queue Length 50th (ft)	24	317	394	0	301	32
Queue Length 95th (ft)	68	485	#664	0	#442	62
Internal Link Dist (ft)		260	372		366	
Turn Bay Length (ft)	185				100	
Base Capacity (vph)	183	975	962	1485	662	592
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.38	0.71	0.81	0.18	0.79	0.13
Intersection Summary						
Area Type:	Other					
Cycle Length: 100						
Actuated Cycle Length: 10						
Offset: 74 (74%), Reference	ed to phase	2:EBTL a	and 6:WB	T, Start o	f Green	
Natural Cycle: 70						
Control Type: Actuated-Co	ordinated					
Maximum v/c Ratio: 0.88						
Intersection Signal Delay (s	s/veh): 26.9			In	tersection	LOS: C
Intersection Capacity Utiliz	ation 88.0%			IC	U Level c	of Service
Analysis Period (min) 15						
# 95th percentile volume	exceeds cap	oacity, qu	eue may	be longer		
Queue shown is maxim	um after two	cycles.				
Splits and Phases: 1: NO	C 96 & Peard	es Road				



	٠	<b>→</b>	<b>←</b>	•	-	1	
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		<b>^</b>	<b>^</b>	7		7	
Traffic Volume (vph)	0	740	712	34	0	71	
Future Volume (vph)	0	740	712	34	0	71	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Lane Width (ft)	12	12	12	12	12	12	
Grade (%)		1%	2%		0%		
Storage Length (ft)	0			125	0	0	
Storage Lanes	0			1	0	1	
Taper Length (ft)	25				25		
Satd. Flow (prot)	0	1767	1791	1428	0	1508	
Flt Permitted							
Satd. Flow (perm)	0	1767	1791	1428	0	1508	
Link Speed (mph)		35	35		15		
Link Distance (ft)		421	340		208		
Travel Time (s)		8.2	6.6		9.5		
Confl. Peds. (#/hr)							
Confl. Bikes (#/hr)							
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	
Growth Factor	100%	100%	100%	100%	100%	100%	
Heavy Vehicles (%)	2%	7%	5%	12%	2%	9%	
Bus Blockages (#/hr)	0	0	0	0	0	0	
Parking (#/hr)							
Mid-Block Traffic (%)		0%	0%		0%		
Shared Lane Traffic (%)							
Lane Group Flow (vph)	0	771	742	35	0	74	
Sign Control		Free	Free		Stop		
Intersection Summary							
Area Type:	Other						
Control Type: Unsignalized	d						
Intersection Capacity Utiliz	ation 48.5%			IC	CU Level	of Service	Α
Analysis Daried (min) 15							

Intersection						
Int Delay, s/veh	0.7					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		<u> </u>	<b>↑</b>	7		7
Traffic Vol, veh/h	0	740	712	34	0	71
Future Vol, veh/h	0	740	712	34	0	71
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-		-	None
Storage Length	_	-	-	125	-	0
Veh in Median Storag	e.# -	0	0	-	0	-
Grade, %	-	1	2	_	0	_
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	2	7	5	12	2	9
Mymt Flow	0	771	742	35	0	74
IVIVIII I IOW	U	771	172	33	U	77
Major/Minor	Major1	1	Major2	N	/linor2	
Conflicting Flow All	-	0	-	0	-	742
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.29
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.381
Pot Cap-1 Maneuver	0	-	-	-	0	404
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %	•	_	_	_		
Mov Cap-1 Maneuver	· _	_	_	_	_	404
Mov Cap-2 Maneuver		_	_	_	_	-
Stage 1	_	_	_	_	_	_
Stage 2	_	_	_	_	_	_
Olage 2						
Approach	EB		WB		SB	
HCM Control Delay, s	s/v 0		0		15.9	
HCM LOS					С	
Min and an /Marin M	1	CDT	MOT	WED	א וחו	
Minor Lane/Major Mvi	mt	EBT	WBT	WBR S		
Capacity (veh/h)		-	-	-	404	
HCM Lane V/C Ratio		-	-	-	0.183	
HCM Control Delay (s	s/veh)	-	-	-	15.9	
HCM Lane LOS		-	-	-	С	
HCM 95th %tile Q (ve	eh)	-	-	-	0.7	

	٠	•	4	<b>†</b>	ļ	4	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	W		*	<b>↑</b>	1→		
Traffic Volume (vph)	32	106	97	235	439	76	
Future Volume (vph)	32	106	97	235	439	76	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Lane Width (ft)	12	12	12	12	12	12	
Grade (%)	0%			0%	1%		
Storage Length (ft)	0	0	50			0	
Storage Lanes	1	0	1			0	
Taper Length (ft)	25		100				
Satd. Flow (prot)	1613	0	1752	1845	1806	0	
Flt Permitted	0.988		0.950				
Satd. Flow (perm)	1613	0	1752	1845	1806	0	
Link Speed (mph)	15			35	35		
Link Distance (ft)	230			446	197		
Travel Time (s)	10.5			8.7	3.8		
Confl. Peds. (#/hr)							
Confl. Bikes (#/hr)							
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	
Growth Factor	100%	100%	100%	100%	100%	100%	
Heavy Vehicles (%)	2%	5%	3%	3%	2%	6%	
Bus Blockages (#/hr)	0	0	0	0	0	0	
Parking (#/hr)							
Mid-Block Traffic (%)	0%			0%	0%		
Shared Lane Traffic (%)							
Lane Group Flow (vph)	150	0	105	255	560	0	
Sign Control	Stop			Free	Free		
Intersection Summary							
Area Type:	Other						
Control Type: Unsignalized							
Intersection Capacity Utiliz	ation 51.4%			IC	CU Level	of Service A	Α

Intersection						
Int Delay, s/veh	3.4					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y		*	<b>†</b>	₽	
Traffic Vol., veh/h	32	106	97	235	439	76
Future Vol, veh/h	32	106	97	235	439	76
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Stop -	None	riee -	None	riee -	None
	0	None -	50		-	
Storage Length				-	- 0	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	1	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	5	3	3	2	6
Mvmt Flow	35	115	105	255	477	83
Major/Minor	Minor2		Major1	N	//ajor2	
Conflicting Flow All	984	519	560	0	- viajoiz	0
		519		-		-
Stage 1	519		-		-	
Stage 2	465	-	-	-	-	-
Critical Hdwy	6.42	6.25	4.13	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy		3.345		-	-	-
Pot Cap-1 Maneuver	275	551	1006	-	-	_
Stage 1	597	-	-	-	-	-
Stage 2	632	-	-	-	-	-
Platoon blocked, %				-	_	_
Mov Cap-1 Maneuver	246	551	1006	_	_	_
Mov Cap-1 Maneuver	246	-	-	_	<u>-</u>	_
	535			-	<u>-</u>	
Stage 1		-	-		-	-
Stage 2	632	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s/			2.6		0	
HCM LOS	V 17.3		2.0		U	
I IOWI LOG	U					
Minor Lane/Major Mvm	nt	NBL	NBT I	EBLn1	SBT	SBR
Capacity (veh/h)		1006	-	428	-	_
				0.35	_	_
		0.105	-	บ.จอ		
HCM Lane V/C Ratio	veh)	0.105	- -		_	_
HCM Lane V/C Ratio HCM Control Delay (s/	veh)	9	-	17.9	-	-
HCM Lane V/C Ratio	,		-			-

	۶	<b>→</b>	<b>←</b>	*	-	1
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	*	<u> </u>	<u>₩</u>	7	)	7
Traffic Volume (vph)	93	749	776	504	338	50
Future Volume (vph)	93	749	776	504	338	50
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	12	1%	0%	12	1%	12
Storage Length (ft)	185	1 /0	0 70	0	100	0
Storage Lanes	103			1	100	1
Taper Length (ft)	50				100	
	1761	1800	1827	1568	1727	1575
Satd. Flow (prot) Flt Permitted	0.241	1000	1027	1000	0.950	13/3
		1000	1007	1560		1575
Satd. Flow (perm)	447	1800	1827	1568	1727	1575
Right Turn on Red				No		No
Satd. Flow (RTOR)		0.5	^=		0.5	
Link Speed (mph)		35	35		35	
Link Distance (ft)		366	439		465	
Travel Time (s)		7.1	8.6		9.1	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	5%	4%	3%	4%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)		0 70	3 73		<b>3</b> 73	
Lane Group Flow (vph)	95	764	792	514	345	51
Turn Type	Perm	NA	NA	pm+ov	Prot	Prot
Protected Phases	I CIIII	2	6		4	
	2		Ö	4	4	4
Permitted Phases	2	0	^	6		4
Detector Phase	2	2	6	4	4	4
Switch Phase	10.5	40.0	40.5			
Minimum Initial (s)	10.0	10.0	10.0	7.0	7.0	7.0
Minimum Split (s)	18.0	18.0	17.0	15.0	15.0	15.0
Total Split (s)	70.0	70.0	70.0	40.0	40.0	40.0
Total Split (%)	63.6%	63.6%	63.6%	36.4%	36.4%	36.4%
Yellow Time (s)	3.8	3.8	3.8	3.0	3.0	3.0
All-Red Time (s)	2.3	2.3	1.8	3.3	3.3	3.3
Lost Time Adjust (s)	-1.1	-1.1	-0.6	-1.3	-1.3	-1.3
Total Lost Time (s)	5.0	5.0	5.0	5.0	5.0	5.0
Lead/Lag		0.0	0.0	0.0	0.0	0.0
Lead-Lag Optimize?						
Recall Mode	C-Max	C-Max	C-Max	None	None	None
				110.0		
Act Effct Green (s)	72.2	72.2	72.2		27.8	27.8
Actuated g/C Ratio	0.66	0.66	0.66	1.00	0.25	0.25
v/c Ratio	0.32	0.65	0.66	0.33	0.79	0.13
Control Delay (s/veh)	13.7	15.8	16.2	0.6	51.4	30.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	13.7	15.8	16.2	0.6	51.4	30.0

 $\label{thm:linear_continuity} K:\RAL\_TPTO\LTraffic\110529004\ Zebulon\ Sheetz\T4-Analysis\Synchro\Build-Out\ (2027).syn\ Kimley-Horn$ 

	۶	<b>→</b>	•	•	-	4	
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR	
LOS	В	В	В	Α	D	С	
Approach Delay (s/veh)		15.6	10.0		48.7		
Approach LOS		В	В		D		
Queue Length 50th (ft)	27	301	317	0	226	28	
Queue Length 95th (ft)	73	513	537	0	308	55	
Internal Link Dist (ft)		286	359		385		
Turn Bay Length (ft)	185				100		
Base Capacity (vph)	293	1181	1199	1562	549	501	
Starvation Cap Reductn	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	
Reduced v/c Ratio	0.32	0.65	0.66	0.33	0.63	0.10	
Intersection Summary							
Area Type:	Other						
Cycle Length: 110							
Actuated Cycle Length: 110							
Offset: 50 (45%), Reference	ed to phase	2:EBTL a	and 6:WB	T, Start of	Green		
Natural Cycle: 60							
Control Type: Actuated-Co	ordinated						
Maximum v/c Ratio: 0.79							
Intersection Signal Delay (s					ersection		
Intersection Capacity Utiliza	ation 80.4%			IC	U Level o	f Service D	
Analysis Period (min) 15							
Splits and Phases: 1: NC	C 96 & Peard	es Road					
Opinio driu i ridoco. 1. NC	J J J G I G GIC	os rodu					1 16
<b>J</b> (22 (D)							Ø4
Ø2 (R)							Ø4 40 s
44							10 3
Ø6 (R)							
70 s							

	٠	<b>→</b>	<b>←</b>	*	-	4	
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		<b>^</b>	<b>^</b>	7		7	
Traffic Volume (vph)	0	769	758	71	0	107	
Future Volume (vph)	0	769	758	71	0	107	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Lane Width (ft)	12	12	12	12	12	12	
Grade (%)		1%	2%		0%		
Storage Length (ft)	0			125	0	0	
Storage Lanes	0			1	0	1	
Taper Length (ft)	25				25		
Satd. Flow (prot)	0	1800	1809	1568	0	1596	
Flt Permitted							
Satd. Flow (perm)	0	1800	1809	1568	0	1596	
Link Speed (mph)		35	35		15		
Link Distance (ft)		592	366		225		
Travel Time (s)		11.5	7.1		10.2		
Confl. Peds. (#/hr)							
Confl. Bikes (#/hr)							
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	
Growth Factor	100%	100%	100%	100%	100%	100%	
Heavy Vehicles (%)	2%	5%	4%	2%	2%	3%	
Bus Blockages (#/hr)	0	0	0	0	0	0	
Parking (#/hr)							
Mid-Block Traffic (%)		0%	0%		0%		
Shared Lane Traffic (%)							
Lane Group Flow (vph)	0	818	806	76	0	114	
Sign Control		Free	Free		Stop		
Intersection Summary							
Area Type:	Other						
Control Type: Unsignalized							
Intersection Capacity Utiliza	ation 53.2%			IC	CU Level	of Service	) A

_`	, o a	J., O		-	
2:	NC	96 8	k Site	Driveway	_
					_

Intersection						
Int Delay, s/veh	1.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		<b>↑</b>	<u>₩</u>	7	ODL	7
Traffic Vol, veh/h	0	769	758	71	0	107
Future Vol, veh/h	0	769	758	71	0	107
-		769	756			
Conflicting Peds, #/hr				0	O Cton	0 Ctop
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	125	-	0
Veh in Median Storag	e,# -	0	0	-	0	-
Grade, %	-	1	2	-	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	5	4	2	2	3
Mvmt Flow	0	818	806	76	0	114
minici ion		010		, ,	•	
Major/Minor	Major1	1	Major2	N	/linor2	
Conflicting Flow All	-	0	-	0	-	806
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.23
Critical Hdwy Stg 1	_	_	-	-	-	-
Critical Hdwy Stg 2	_	_	_	_	-	_
Follow-up Hdwy	_	_	_	_	_	3.327
Pot Cap-1 Maneuver	0	_		_	0	380
	0		_		-	
Stage 1		-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	-	380
Mov Cap-2 Maneuver	· -	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	_	-	-	-	-	-
3.00						
Approach	EB		WB		SB	
HCM Control Delay, s	s/v 0		0		18.5	
HCM LOS					С	
Minor Lane/Major Mvr	mt	EBT	WBT	WBR S	SRI n1	
	TIL .		WDI			
Capacity (veh/h)		-	-	-	380	
HCM Lane V/C Ratio		-	-	-	0.3	
HCM Control Delay (s	s/veh)	-	-	-	18.5	
HCM Lane LOS		-	-	-	С	
HCM 95th %tile Q (ve	eh)	-	-	-	1.2	

	•	•	1	<b>†</b>	ļ	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y		*	<b>^</b>	1	
Traffic Volume (vph)	71	137	152	445	292	83
Future Volume (vph)	71	137	152	445	292	83
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	0%			0%	1%	
Storage Length (ft)	0	0	50			0
Storage Lanes	1	0	1			0
Taper Length (ft)	25		100			
Satd. Flow (prot)	1647	0	1752	1863	1794	0
Flt Permitted	0.983		0.950			
Satd. Flow (perm)	1647	0	1752	1863	1794	0
Link Speed (mph)	15			35	35	
Link Distance (ft)	239			465	197	
Travel Time (s)	10.9			9.1	3.8	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	4%	3%	2%	2%	3%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)	0%			0%	0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	214	0	157	459	387	0
Sign Control	Stop			Free	Free	
Intersection Summary						
Area Type:	Other					
Control Type: Unsignalized						
Intersection Capacity Utiliz	zation 51.2%			IC	CU Level	of Service A
Analysis Period (min) 15						

 $\label{lem:lem:lem:lem:lem:ki} K:\RAL\_TPTO\LTraffic\110529004\ Zebulon\ Sheetz\T4-Analysis\Synchro\Build-Out\ (2027).syn\ Kimley-Horn$ 

Intersection						
Int Delay, s/veh	5.8					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y	LDIX	NDL 1	ND1	3B1 <b>}</b>	אומט
	71	127	152		292	83
Traffic Vol, veh/h Future Vol, veh/h	71	137 137	152	445 445	292	83
	0			445		0
Conflicting Peds, #/hr		0	0		0	
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	50	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	1	-
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	4	3	2	2	3
Mvmt Flow	73	141	157	459	301	86
Major/Miner	Miner		Mais =1		/oicr0	
	Minor2		Major1		/lajor2	
Conflicting Flow All	1117	344	387	0	-	0
Stage 1	344	-	-	-	-	-
Stage 2	773	-	-	-	-	-
Critical Hdwy	6.42	6.24	4.13	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.336	2.227	-	-	-
Pot Cap-1 Maneuver	229	694	1166	-	-	-
Stage 1	718	-	-	-	-	-
Stage 2	455	-	-	-	-	-
Platoon blocked, %	.00			_	_	_
Mov Cap-1 Maneuver	198	694	1166		_	
Mov Cap-1 Maneuver	198	034	1100	_	_	
		-	-	-	-	-
Stage 1	621	-	-	-	-	-
Stage 2	455	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s/v			2.2		0	
	v 20.0		۷.۷		U	
HCM LOS	U					
Minor Lane/Major Mvm	nt	NBL	NBT I	EBLn1	SBT	SBR
Capacity (veh/h)		1166	-		_	
HCM Lane V/C Ratio		0.134		0.573	<u>-</u>	_
HCM Control Delay (s/	veh)	8.6	_			
HCM Lane LOS	veii)	6.6 A	-	20.6 D	- -	-
	.)					-
HCM 95th %tile Q (veh	IJ	0.5	-	3.4	-	-

# Appendix I: SimTraffic Reports

Existing (2025) AM 05/21/2025

## Intersection: 1: NC 96 & Pearces Road

Movement	EB	EB	WB	WB	SB	SB
Directions Served	L	T	Т	R	L	R
Maximum Queue (ft)	175	273	441	350	200	363
Average Queue (ft)	41	170	222	32	176	144
95th Queue (ft)	102	281	375	159	227	355
Link Distance (ft)		266	435	435		364
Upstream Blk Time (%)		1	1	0		0
Queuing Penalty (veh)		7	0	0		2
Storage Bay Dist (ft)	185				100	
Storage Blk Time (%)		6			37	1
Queuing Penalty (veh)		3			17	2

## Intersection: 2: NC 96 & Site Driveway 1

Movement	EB	SB
Directions Served	T	R
Maximum Queue (ft)	150	83
Average Queue (ft)	13	32
95th Queue (ft)	78	66
Link Distance (ft)	371	154
Upstream Blk Time (%)		0
Queuing Penalty (veh)		0
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

## Intersection: 3: Pearces Road & Site Driveway 2

Movement	EB	NB	SB
Directions Served	LR	L	TR
Maximum Queue (ft)	116	58	52
Average Queue (ft)	47	19	3
95th Queue (ft)	87	48	27
Link Distance (ft)	196		163
Upstream Blk Time (%)	0		0
Queuing Penalty (veh)	0		0
Storage Bay Dist (ft)		50	
Storage Blk Time (%)		0	
Queuing Penalty (veh)		1	

## **Network Summary**

Existing (2025) PM 05/21/2025

## Intersection: 1: NC 96 & Pearces Road

Movement	EB	EB	WB	WB	SB	SB
Directions Served	L	T	T	R	L	R
Maximum Queue (ft)	164	294	397	182	199	301
Average Queue (ft)	46	162	172	32	142	64
95th Queue (ft)	106	281	328	112	210	208
Link Distance (ft)		290	421	421		381
Upstream Blk Time (%)		1	0			
Queuing Penalty (veh)		3	0			
Storage Bay Dist (ft)	185				100	
Storage Blk Time (%)		5			31	0
Queuing Penalty (veh)		3			9	0

## Intersection: 2: NC 96 & Site Driveway 1

Movement	EB	SB
Directions Served	T	R
Maximum Queue (ft)	110	104
Average Queue (ft)	7	44
95th Queue (ft)	49	81
Link Distance (ft)	543	171
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

## Intersection: 3: Pearces Road & Site Driveway 2

Movement	EB	NB	SB
Directions Served	LR	L	TR
Maximum Queue (ft)	121	68	2
Average Queue (ft)	56	26	0
95th Queue (ft)	93	57	3
Link Distance (ft)	205		163
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		50	
Storage Blk Time (%)		1	
Queuing Penalty (veh)		3	

## **Network Summary**

## Intersection: 1: NC 96 & Pearces Road

Movement	EB	EB	WB	WB	SB	SB
Directions Served	L	T	T	R	L	R
Maximum Queue (ft)	227	282	468	417	200	374
Average Queue (ft)	79	216	277	68	188	235
95th Queue (ft)	182	320	461	271	224	438
Link Distance (ft)		266	435	435		364
Upstream Blk Time (%)		6	3	1		3
Queuing Penalty (veh)		42	0	0		18
Storage Bay Dist (ft)	185				100	
Storage Blk Time (%)	3	16			46	1
Queuing Penalty (veh)	17	9			33	7

## Intersection: 2: NC 96 & Site Driveway 1

Movement	EB	SB
Directions Served	T	R
Maximum Queue (ft)	318	93
Average Queue (ft)	57	36
95th Queue (ft)	216	73
Link Distance (ft)	371	154
Upstream Blk Time (%)	2	0
Queuing Penalty (veh)	0	0
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

## Intersection: 3: Pearces Road & Site Driveway 2

Movement	EB	NB	NB	SB
Directions Served	LR	L	Т	TR
Maximum Queue (ft)	127	73	15	147
Average Queue (ft)	54	27	1	19
95th Queue (ft)	107	59	11	93
Link Distance (ft)	196		364	163
Upstream Blk Time (%)	1			1
Queuing Penalty (veh)	0			0
Storage Bay Dist (ft)		50		
Storage Blk Time (%)		1	0	
Queuing Penalty (veh)		3	0	

## **Network Summary**

## Intersection: 1: NC 96 & Pearces Road

Movement	EB	EB	WB	WB	SB	SB
Directions Served	L	T	T	R	L	R
Maximum Queue (ft)	234	311	430	387	199	359
Average Queue (ft)	125	219	230	62	160	110
95th Queue (ft)	239	344	401	225	219	295
Link Distance (ft)		290	421	421		381
Upstream Blk Time (%)		7	1	0		0
Queuing Penalty (veh)		53	0	0		1
Storage Bay Dist (ft)	185				100	
Storage Blk Time (%)	12	15			37	1
Queuing Penalty (veh)	89	13			18	2

## Intersection: 2: NC 96 & Site Driveway 1

Movement	EB	SB
Directions Served	T	R
Maximum Queue (ft)	434	104
Average Queue (ft)	82	45
95th Queue (ft)	339	84
Link Distance (ft)	543	171
Upstream Blk Time (%)	3	0
Queuing Penalty (veh)	0	0
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

## Intersection: 3: Pearces Road & Site Driveway 2

Movement	EB	NB	SB
Directions Served	LR	L	TR
Maximum Queue (ft)	138	74	36
Average Queue (ft)	59	28	2
95th Queue (ft)	101	59	18
Link Distance (ft)	205		163
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		50	
Storage Blk Time (%)		1	
Queuing Penalty (veh)		4	

## **Network Summary**

05/21/2025

## Intersection: 1: NC 96 & Pearces Road

Movement	EB	EB	WB	WB	SB	SB
Directions Served	L	T	T	R	L	R
Maximum Queue (ft)	231	290	468	411	200	376
Average Queue (ft)	106	214	295	81	186	237
95th Queue (ft)	218	312	480	305	225	442
Link Distance (ft)		266	435	435		364
Upstream Blk Time (%)		5	5	2		4
Queuing Penalty (veh)		39	0	0		23
Storage Bay Dist (ft)	185				100	
Storage Blk Time (%)	8	14			47	1
Queuing Penalty (veh)	50	9			34	4

## Intersection: 2: NC 96 & Site Driveway 1

Movement	EB	SB
Directions Served	T	R
Maximum Queue (ft)	282	89
Average Queue (ft)	52	40
95th Queue (ft)	212	74
Link Distance (ft)	371	154
Upstream Blk Time (%)	1	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

## Intersection: 3: Pearces Road & Site Driveway 2

Movement	EB	NB	NB	SB
Directions Served	LR	L	T	TR
Maximum Queue (ft)	155	65	9	151
Average Queue (ft)	61	27	0	22
95th Queue (ft)	120	59	9	108
Link Distance (ft)	196		364	163
Upstream Blk Time (%)	1			2
Queuing Penalty (veh)	0			0
Storage Bay Dist (ft)		50		
Storage Blk Time (%)		1		
Queuing Penalty (veh)		3		

## **Network Summary**

05/21/2025

## Intersection: 1: NC 96 & Pearces Road

Movement	EB	EB	WB	WB	SB	SB
Directions Served	L	Т	T	R	L	R
Maximum Queue (ft)	235	330	432	393	199	372
Average Queue (ft)	154	246	232	79	160	118
95th Queue (ft)	270	365	409	274	220	308
Link Distance (ft)		290	421	421		381
Upstream Blk Time (%)		19	2	1		1
Queuing Penalty (veh)		145	0	0		2
Storage Bay Dist (ft)	185				100	
Storage Blk Time (%)	27	22			36	1
Queuing Penalty (veh)	201	20			18	2

## Intersection: 2: NC 96 & Site Driveway 1

Movement	EB	SB
Directions Served	T	R
Maximum Queue (ft)	530	126
Average Queue (ft)	235	52
95th Queue (ft)	655	96
Link Distance (ft)	543	171
Upstream Blk Time (%)	20	0
Queuing Penalty (veh)	0	0
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

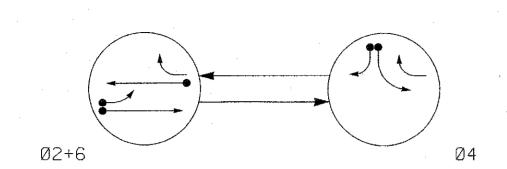
## Intersection: 3: Pearces Road & Site Driveway 2

Movement	EB	NB	NB	SB
Directions Served	LR	L	T	TR
Maximum Queue (ft)	156	68	6	56
Average Queue (ft)	71	32	0	3
95th Queue (ft)	126	60	6	31
Link Distance (ft)	205		381	163
Upstream Blk Time (%)	1			0
Queuing Penalty (veh)	0			0
Storage Bay Dist (ft)		50		
Storage Blk Time (%)		1	0	
Queuing Penalty (veh)		7	0	

## **Network Summary**

Appendix J: Signal Plans

## PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP) UNSIGNALIZED MOVEMENT

← − → PEDESTRIAN MOVEMENT

TABLE OF C	PER	AT I	ON
	Р	HAS	E .
SIGNAL FACE	Ø2+6	0 4	FLAST
21, 22	G	R	Υ
41, 42	R	G	R
61	G	R	Υ
62	G	R/	Υ

SIGNAL FACE I.D.

All Heads L.E.D.

OASIS	2070L	L00P	& DET	TE(	CTOR	I	NS"	ΓΑΙ	LATI	ON CH	IAF	T
II	INDUCTIVE LOOPS DETECTOR PROGRAMMING											
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A	6X40	+5	2-4-2	-	2	Υ	Υ	-	-	_	-	-
2B	6X6	70	3	-	2	Υ	Υ	_	_	-	-	-
4A	6X40	0	2-4-2	Υ	4	Y	Υ	-	_	3	-	_
4B	6X40	0	2-4-2	Υ	. 4	Υ	Υ	-	· <b>–</b>	15	-	-
6A	6X6	70	4	Υ	6	Υ	Υ	-	-		-	_
S9	6X6	+150	3	-	_	_	_	-	-		Υ	-
SIO	6X6	+135	3	_	-	_	-	-	_	-	Υ	-

2 Phase Fully Actuated (NC 96 - Arendell Ave. Closed Loop System)

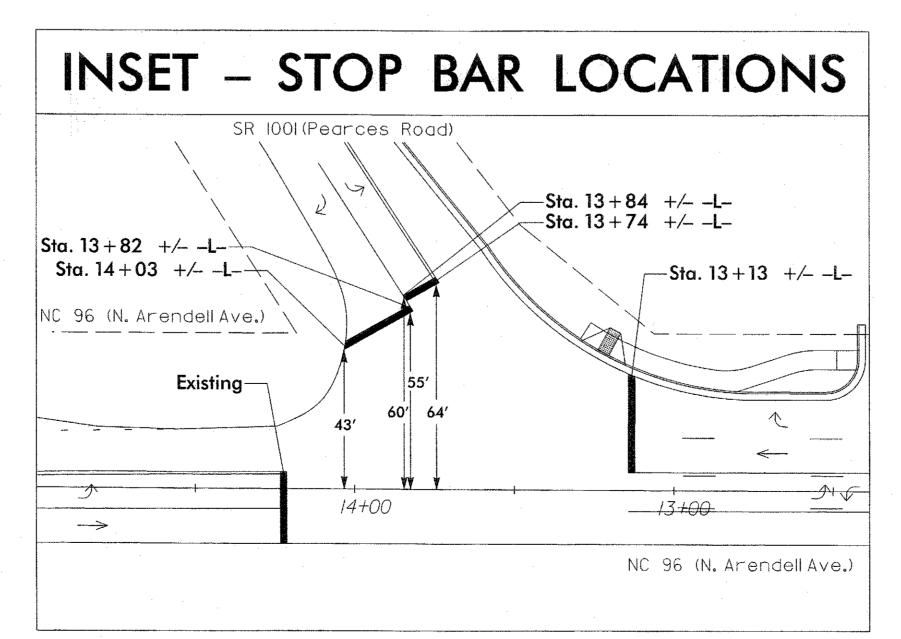
## **NOTES**

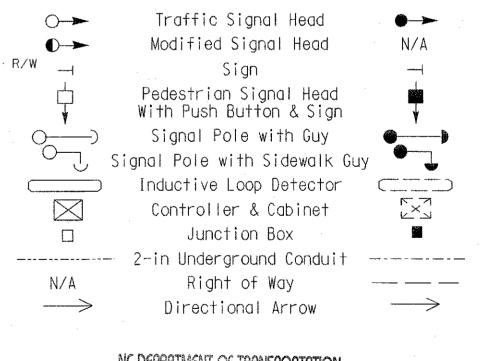
- 1. Refer to "Roadway Standard Drawings NCDOT" dated July 2006 and "Standard Specifications for Roads and Structures" dated July 2006.
- 2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- 3. Set all detector units to presence mode.
- 4. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- 5. Closed loop system data: Controller Asset #1700.

$\mathbb{R}$	$\overline{\mathbb{R}}$	X			2.
Y 12" G 21, 22	12"	No Roaco			3. 4.
21, 22 41, 42 61	62 Whoteless of the state of th		0 00		5.
	T. Grade	(A) (A)	00		
R/W	NC 96 (N. Arendell Ave.)			35 MPH 0% Grade	R∕W
		62	21 <b>(A)</b>		
	→ ②B Q	42	21   22   \$9 \( \) 41		PRO
R/W -	35 MPH +1% Grade			———————————— RANC 96 (N. Arendell Ave.)	₹/W

OASIS 20	70L TI	MING C	HART					
	PHASE							
FEATURE	2	4	6					
Min Green 1 *	. 10	7	10					
Extension 1 *	3.0	2.0	3.0					
Max Green 1 *	45	20	45					
Yellow Clearance	3.8	3.0	3.8					
Red Clearance	2.3	3,3	1.8					
Walk 1 *		-	-					
Don't Walk 1	-		-					
Seconds Per Actuation *	-		-					
Max Variable Initial *		-						
Time Before Reduction *			-					
Time To Reduce *	_		-					
Minimum Gap		_	_					
Recall Mode	MIN RECALL	Acceptance of the second secon	MIN RECALL					
Vehicle Call Memory	YELLOW	<u> </u>	YELLOW					
Dual Entry	-	-						
Simultaneous Gap	ON	ON	ON					

Green for all other phases should not be lower than 4 seconds.



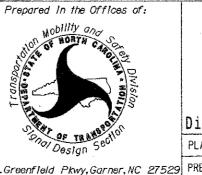


**LEGEND** 

**EXISTING** 

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHLIPHS FINAL DAAWING Date: 2/21/12 Traffic Engineering Branch

Signal Upgrade



NC 96 (N. Arendell Avenue)

SR 1001 (Pearces Road) Division 5 Wake County

1025 Wade Avenue
Raleigh, NC 27605
Tel:919-789-9977
Fax:919-789-9591

PLAN DATE:
PREPARED BY:

30
30
30
30 PLAN DATE: August 2011 REVIEWED BY: J Hochanadel A Nau INIT. DATE SIG. INVENTORY NO. 05-1700

SEAL



## MUNICIPAL UTILITY ALLOCATION POLICY

### **Statement of Purpose and Goals**

#### Introduction

Drinking water supplies throughout the greater City of Raleigh distribution system are finite, subject to disruption by drought and/or other calamity and Zebulon's allocation is contractually limited. The Town staff, the Planning Board, and the Board of Commissioners have given a great deal of thought and study as to the best utilization of this valuable resource to benefit current and future citizens.

The Town of Zebulon's municipal water and sewer capacity is a valuable resource that must be conserved and apportioned to new development projects that promote the Town's policy of ensuring a diversified tax base and housing supply. Such an allocation policy will tend to promote diversity of housing available to a wide cross section of citizens of diverse socio-economic backgrounds and promote economic viability and sustainability by providing for retail and other commercial development within the Town of Zebulon.

In order to preserve and enhance property values, manage its limited water supply as a vital natural resource, promote economic development, and incentivize smart growth practices, the allocation of Zebulon's potable water capacity shall hereafter be in accordance with this policy.

#### Land Use and the Tax Base

The local government expense of providing fire and police protection, schools, parks, social services, water and sewage systems and other essential public services to residential neighborhoods is generally greater than the ad valorem tax revenue generated by such neighborhoods. On the other hand, the cost of providing services to commercial and industrial development is generally less than the tax revenue accruing to the local government. Having a predominantly residential tax base would require the Town of Zebulon over time to assess a higher tax levy to raise funds to provide essential services or to reduce the level of public services provided. This is one reason among many why local governments including Zebulon strive to achieve a balance of both residential and non-residential growth.

Zebulon's historical development is transitioning from industrial to residential, leading to a current tax base of approximately 40% residential and 60% commercial/industrial. The following table shows Zebulon's tax base over the past five years <sup>1</sup>

#### **Zebulon Tax Base (Past Five Years)**

Fiscal Year	Commercial	Residential
2021-2022	60%	40%
2020-2021	65%	35%
2019-2020	72%	28%
2018-2019	73%	27%
2017-2018	71%	29%

<sup>&</sup>lt;sup>1</sup> "Tax Base Components | Wake County Government," Wake County North Carolina, https://www.wakegov.com/departments-government/tax-administration/data-files-statistics-and-reports/tax-base-components

As shown in the table above, the residential tax base has steadily increased proportionally over the past five years. This trend in the tax base data, combined with the vested planned residential development in the coming years, demonstrates the need for the Town to address this shift through policy. The Zebulon Board of Commissioners believes that it is fiscally responsible and otherwise in the public interest to promote and encourage non-residential development in the jurisdiction as an alternative to rapid residential development to keep the ratio between the two development types well balanced. A goal of maintaining a tax base of 60% residential and 40% commercial/industrial is hereby established.

#### Development Goals for the Full Build-Out of Zebulon

Communities without a wide variety of housing types and styles also put pressure on the Wake County Public School System which remains committed to having students of a wide range of socio-economic backgrounds attend each local school. In addition to the goal of maintaining a balanced tax base, the Town of Zebulon is committed to achieving a balance of housing types within its jurisdiction.

This commitment is consistent with both the Town's Strategic Plan and Comprehensive Plan. The *Town of Zebulon: Vision 2030 Strategic Plan* lists "Growing Smart" as one of its three focus areas, calling for the planning of appropriate land uses and affordability of the community. The *Grow Zebulon Comprehensive Land Use Plan* identifies six guiding principles for the town. Two of those principles are "Zebulon will be BALANCED" and "Zebulon will be PRUDENT." A balance should be achieved for the Town's tax base, its land uses, and its housing types to allow for an affordable community with employment and business opportunities that will help the community prosper. The achievement of balance in Zebulon will contribute to the Town being prudent. As stated previously, a local government's cost of providing services to commercial properties is generally less than that of residential properties. Having a balanced tax base that is not proportionally over-saturated with residential properties will contribute to keeping the Town financially sound.

Below are three development goals that are integral to the utility allocation policy and the future of the Town. These development goals apply to the entire, future Zebulon jurisdiction including the ETJ, short-range and long-range urban service areas.

**GOAL #1:** Maintain 60%-40% ratio of residential to non-residential tax values.

<u>Upon Adoption-January 2021</u>
60% Residential - 40% Non-Residential

GOAL #2: Residential Housing Percentage Breakdown SFD|TH|MF – 75%|10%|15% (Note – Duplex counted as MF)

<u>Upon Adoption-January 2021</u> 80.5% | 0.5% | 19%

**GOAL #3:** Encourage Mixed Use Development to improve pedestrian connectivity to non-residential activity.

## Policy and Procedures

#### Water Allocation

All existing parcels of real property within the corporate limits of Zebulon, regardless of proposed acreage, shape, or location as of the adoption of this ordinance are entitled to **115 gallons per day** of water allocation to build and sustain a single family or a limited business or commercial use. No additional water allocation will be awarded for proposed development except in accordance with the requirements of this policy.

#### Wastewater Connection

All projects considered for utility allocation must provide a wastewater system connection with adequate receiving capacity, as determined by the Wake County Health Department and/or City of Raleigh Public Utilities Department and approved by the Town of Zebulon Planning Director.

#### General Conditions & Requirements

- All proposed projects must be within the existing corporate limits or have filed a valid and complete petition for Voluntary Annexation.
- All proposed projects under consideration must have a complete application submitted for the appropriate Master Plan, Subdivision, Site Plan, Special Use Permit, Conditional Zoning Request, Zoning Compliance Permit, Building Permit, or any other necessary approval.
- All projects are subject to a Utility Allocation or Developer's Agreement approved by the Town's
  Board of Commissioners. If the Developer/Applicant fails to meet all terms of that agreement the
  unused allocation will be reclaimed, no new building permits will be issued, and no new
  connections to the water or wastewater systems will be permitted. Active building permits will
  have certificates of occupancy held until mitigating measures are agreed to by all parties.
- Projects with proven vested rights upon adoption of this ordinance will be permitted to finish their projects as previously approved.
- Public water may be utilized for irrigation purposes so long as the Primary Use associated with the site has previously gained water allocation through the Town.
- Any third parties who buy land to build upon are bound by the approved Utility Allocation
  Agreement or Development Agreement for that property. If the agreement is not fulfilled, the
  above terms and conditions still apply regardless of who owns the land.

#### Compliance Required

This policy allocates municipal water in gallons per day for new development proposals, master plans, site plans, building plans, and/or structures seeking construction approval. Each phase of a phased development must comply with the terms and development schedule of an approved Utility Allocation Agreement before the next phase can begin or the development risks loss of previously reserved allocation.

Previously dedicated but unused allocation can be reclaimed by the Town's Board of Commissioners for:

- (1) the lack of compliance with any existing Utility Allocation or Developer's Agreement;
- (2) violation of applicable town policy provision, ordinance standard, condition of approval;
- (3) violation of federal or state regulation; or
- (4) other good cause.

#### **Utility Allocation Application Process**

Upon receiving a new development proposal requesting water capacity, the Planning Staff shall direct the Developer/Applicant to demonstrate the project's qualifications. A Developer/Applicant shall state on the appropriate application, and stipulate within an approved Utility Allocation Agreement, the use or uses proposed to be built as part of the project along with the construction design and materials. Town action on the request will be deferred until the application is complete and the requested information has been provided.

Proposed projects shall complete the UTILITY ALLOCATION WORKSHEET according to its instructions to determine the total number of points achieved. The Utility Allocation Application package will be reviewed for completeness and compliance by the Technical Review Committee (TRC) in conjunction with the applicable development approval for the subject property (conditional rezoning, planned development, site plan, etc.).

Qualification for water allocation is judged by:

- The level of developer investment
- Anticipated increases in the Town's ad valorem tax base
- Construction and dedication of public infrastructure
- Provision of employment opportunities for Zebulon citizens
- Provisions of diversified housing stock
- Preservation of open space
- Protection of existing tree canopy
- Conservation of existing habitat
- The provision of recreational amenities for current or future Zebulon residents

Projects must be awarded **60 TOTAL POINTS** or more to merit water allocation.

Points are awarded in two categories, BASE POINTS and BONUS POINTS. BONUS POINTS are broken down into six categories.

- 1. Nonconformity Abatement and Public Infrastructure Improvements
- 2. Green Development Standards
- 3. Gateway and Transit Improvements
- 4. Amenities
- 5. Affordable Housing
- 6. Other

Unless a project can gain all necessary BONUS POINTS from a single improvement identified in the approved list, improvements must be made from at least two of the categories of BONUS POINTS.

All features and/or improvements that earn a projects BONUS POINTS must be clearly shown on a development plan for each application type.

#### Expiration of Allocation Award

A developer/applicant who has secured allocation according to this policy and hasn't progressed in construction plan approval, building permit approval, or on-site construction for a period of 12 months will lose the award of allocation without benefit.

#### Annual Review of Policy & Appeals

This policy shall be reviewed in January of each year and, when appropriate, readjusted by the Town's Board of Commissioners. The Town's overall progress on policy goals will be considered and the multipliers and/or point thresholds readjusted accordingly.

Appeals of any provision of this ordinance shall be decided upon by the Town's Board of Commissioners upon receiving a recommendation from the Planning Board.

#### BASE POINTS: List of Preferred Land Uses and Required Characteristics:

The uses listed below have been determined to be the most desirable and important uses for the Town of Zebulon to promote and maintain economic and housing diversity. Only projects that completely meet the stated performance characteristics will be considered for utility allocation. Please select one of the following Base Point classifications.

Single Family Homes (Expedited Subdivision or Recombination) Newly constructed Single Family Homes built upon new lots created via the minor subdivision, exempt subdivision, expedited subdivision (3 or fewer lots) or recombination process.
Change of Use This category captures renovation, rehabilitation, up-fit or retrofit of existing buildings or portions of buildings that pre-date this policy and require a code summary sheet, change in building occupancy, certificate of occupancy, building permit and/or building inspections and do not increase the utility demand from the previous use of the building.
Business Office/Finance/ Insurance / Professional Services Center - Large Qualifying projects must exceed 100,000 square feet of heated floor space and create at least 150 employment positions that exceed the average annual Wake County salary according to Wake County Economic Development or the Employment Security Commission. Employees perform professional, scientific, and technical services for others. Such services require a high degree of expertise and training and provide high salaried employment opportunities. Examples include software engineering, legal, medical, accounting, consulting, architectural, biomedical, chemical, research and development, and administrative services. Finance or Insurance Centers shall also pool financial risks by underwriting insurance and annuities. Some establishments support employee benefit programs. Examples include bank or credit union headquarters, brokerages, investments, insurance, financing, and data processing establishments.
Manufacturing/Industrial Employment Center  Manufacturing or Industrial establishments in this category exceed 200,000 square feet of floor space located in plants, factories, or mills and employ power-

	driven machines and materials-handling equipment. They may also employ workers who assemble or create new products by hand, without the characteristic machinery-intensive enterprise. Many manufacturing establishments process products of agriculture, forestry, fishing, mining, or quarrying as well as products of other manufacturing establishments. Most manufacturing establishments have some form of captive services (e.g., research and development, and administrative operations, such as accounting, payroll, or management) in conjunction on-site.
45 Base Points	Governmental Uses/Public Administration  This category encompasses centers for all government functions; it includes federal, state, and local government agencies that administer, oversee, and manage public programs and budgets and have executive, legislative, or judicial authority. Establishments develop policy, create laws, adjudicate civil and criminal legal cases, and provide for public safety and national defense.
40 Base Points	Single Use Retail  Newly constructed single use, stand-alone building used primarily for retail, restaurant, or similar commercial use.
40 Base Points	Hotels, Motels, or other Accommodation Service Establishments  This category serves lodging and short-term accommodations for travelers. They may offer a wide range of services, from overnight sleeping space to full-service hotel suites. They may offer these services in conjunction with other activities, such as entertainment or recreation. Stays in these establishments are generally less than one month. This classification does not include boarding or rooming houses.
40 Base Points	Arts/Entertainment/Museums  These establishments operate facilities or provide services for a variety of cultural, entertainment, and performing art functions. Establishments include those that produce, promote, or participate in live performances, events, or exhibits intended for public viewing; those that preserve and exhibit objects and sites of historical, cultural, or educational interest; and those that operate facilities or provide services to serve activities associated with the aforementioned.
40 Base Points	Amusement, Sports or Recreational Establishment Establishments in this category operate either indoor or outdoor facilities offering family activities (i.e. sports, recreation, or amusement) and provide services, such as facilitating amusement in places operated by others, operating recreational sports groups and leagues. Examples include golf courses, indoor sports venues, bowling alleys, miniature golf courses, athletic clubs, skating rinks and arcades. This category may be used in conjunction with a commercial or residential development as a mixed use development.
40 Base Points	Mixed Use Development (Transit Oriented)  Newly constructed or substantially rehabilitated collection of vertically mixed retail, office and residential uses in multi-story buildings centered within a one-half mile radius of an existing rail or bus transit station or the intersection of

	Horton Street and North Arendell Avenue in Downtown Zebulon. In order to qualify as mixed use, developments must dedicate at least one-third of the total heated square footage to residential use and the remainder to a mix of retail and office uses. All three use types must be represented and at least 10% of the heated square footage must be dedicated to street level, storefront retail uses.
40 Base Points	Mixed Use Development (Urban Infill)  Newly constructed or substantially rehabilitated collection of mixed retail, office and residential uses in a multi-story building on a previously developed parcel within the corporate limits. In order to qualify as mixed use, developments must dedicate at least one-third of the total heated square footage to residential use and the remainder to a mix of retail and office uses. All three use types must be represented and at least 10% of the heated square footage must be dedicated to street level, storefront retail uses.
40 Base Points	Mixed Use Development (Greenfield)  Newly constructed collection of mixed retail, office and residential uses in a multistory building or buildings on a previously undeveloped parcel. In order to qualify as mixed use, developments must dedicate at least one-third of the total heated square footage to residential use and the remainder to a mix of retail and office uses. All three use types must be represented and at least 10% of the heated square footage must be dedicated to street level, storefront retail uses.
35 Base Points	Housing Services for the Elderly Establishments  This category offers housing services for the aged, not requiring a license from the North Carolina Department of Health and Human Services, such as independent retirement housing, multi-unit assisted housing with services (MAHS), and continuing care retirement centers. All facilities must provide, but not necessarily be limited to, the following services/facilities: On-site laundry facilities, on site management, guaranteed transportation services at least four days per week, on-site exercise facilities, on-site computer access, and a clubhouse/common lounge area for all residents.
35 Base Points	Mixture of Use Development (Retail/Office-Institutional/Commercial)  Newly constructed collection of horizontally arranged uses including retail, office-institutional and commercial within a master planned project on a previously undeveloped parcel or parcels totaling at least 10 acres. Mixture of use projects must include at least two (2) use types with at least 25% of the space devoted to each use type included in the development.
30 Base Points	Retail/Commercial Center  Newly constructed center of at least 50,000 square feet, typically containing an anchor such as a grocery store and other smaller spaces and/or outparcels for subordinate uses. Uses are entirely consumer-driven and include all manner of retail, service and office possibilities.
30 Base Points	Business Office/Finance/ Insurance / Professional Services Center – Medium Qualifying projects must exceed 50,000 square feet of heated floor space and create at least 75 employment positions that exceed the average annual Wake County salary according to Wake County Economic Development or the

	Employment Security Commission. Employees perform professional, scientific, and technical services for others. Such services require a high degree of expertise and training and provide high salaried employment opportunities. Examples include software engineering, legal, medical, accounting, consulting, architectural, biomedical, chemical, research and development, and administrative services. Finance or Insurance Centers shall also pool financial risks by underwriting insurance and annuities. Some establishments support employee benefit programs. Examples include bank or credit union headquarters, brokerages, investments, insurance, financing, and data processing establishments.
30 Base Points	Business Office/Finance/ Insurance / Professional Services Center – Small Qualifying projects 50,000 square feet of heated floor space or less. Employees perform professional, scientific, and technical services for others. Such services require a high degree of expertise and training and provide high salaried employment opportunities. Examples include software engineering, legal, medical, accounting, consulting, architectural, biomedical, chemical, research and development, and administrative services. Finance or Insurance Centers shall also pool financial risks by underwriting insurance and annuities. Some establishments support employee benefit programs. Examples include bank or credit union headquarters, brokerages, investments, insurance, financing, and data processing establishments.
30 Base Points	Multi-Tenant Retail Center  Newly constructed center 50,000 square feet or less, typically containing a more than one tenant space within a single structure. Uses are entirely consumer-driven and include all manner of retail, service and office possibilities.
30 Base Points	Single Use Office  Newly constructed single use, stand-alone building used primarily for office and professional.
30 Base Points	Bungalow Court or Pocket Neighborhood  Newly constructed Bungalow Court or Pocket Neighborhood per the standards of the Unified Development Ordinance.
30 Base Points	Distribution/Trucking Center  Newly constructed center of at least 500,000 square feet where products and resources are transported to and delivered from via truck or rail.
25 Base Points	Warehouse Newly constructed center of at least 500,000 square feet where products and resources are stored.
25 Base Points	Religious Institutions  Any facility such as a church, temple, synagogue, mosque or monastery used for worship by a non-profit organization and their customarily related uses.
20 Base Points	Intensive Industrial Uses: Uses classified as Special Land Uses within the Industrial Classification.

# Attachment 5 PD 2025-05

20 Base Points	Multi-Family Residential & Condo Units	
20 Base Points	Major Subdivision 4- 25 Lots Any subdivision of land of four (4) – 25 Lots.	
10 Base Points	Major Subdivision 26 lots or more Any subdivision of land of 26 or more lots.	
Board Determination	All Other Uses Not Categorized  This category of use captures all other uses not categorized elsewhere.  Allocations for such uses are left to the discretion of the Town's Board of Commissioners upon recommendation of the Planning Board and acted on a case- by-case basis.	

# Attachment 5 TOPIDCONDEMES ON 2/19 FOLLOW UP CALL WE CAN TAKE CREDIT FOR THESE POINTS.

### **BONUS POINTS**

Proposed projects can gain BONUS POINTS by agreeing to provide any of the following items over and above the UDO or Standard Specification requirements for their development proposal.

NOTE: No bonus points are given for UDO requirements.

CATEGORY 1 – Non-Conformity Abatement and Public Infrastructure Improvements

Section 1A - Abatement of Nonconformities		(Max - 3 points)
	Abatement of any existing non-conforming structures	3
	Abatement of any existing non-conforming use of land	2
	Abatement of any existing non-conforming lots	1

Section 1B - Roadway Infrastructure Not Warranted by TIA/UDO/CTP	(Max - 10 points)
Construction of full cross section of existing off-site public street	5
Nearby intersection improvements	5
Traffic signal improvements	4
Signage or striping improvements	1

Section 1C - Off-Site Public Greenway Improvements	(Max - 10 points)
Construct more than 4000 linear feet of 10-foot-wide path	10
Construct more than 3000 linear feet of 10-foot-wide path	8
Construct more than 2000 linear feet of 10-foot-wide path	6
Construct more than 1000 linear feet of 10-foot-wide path	4
Construct 500 to 1000 linear feet of 10-foot-wide path	2

Section 1D – Off-Site Bike-Ped Improvements		(Max – 5 points)
	Construction of off-site sidewalk improvements (Subject to TRC	2
	Approval)	
	Construction of off-site bike lane improvements (Subject to TRC	3
	Approval)	

## CATEGORY 2. Green Development Standards/ Building & Site Design

Section 2A - Conservation of Natural Habitat Meeting Active Open Space	(Max - 10 points)
Requirements as Defined in the UDO	
One point per acre up to 10 acres	1 - 10

Section 2B - Parking	(Max – 15 points)
Structured Parking Facilities - must reduce footprint by 20%	10
EV Charging Stations (two-port)	5
Provision of on-street public parking (1 point per stall up to 10 Max)	1 - 10

Section 2C - Stormwater SCM's	(Max – 10 points)
Stormwater - Restored Riparian Buffer	10
Construct a fountain or other stormwater amenity within the BMP/SCM	4
(as approved by Staff)	
Stormwater - Landscaped Green Roof	5
Stormwater - Underground capture system for on-site irrigation	5
Stormwater - Bioretention	5
Stormwater - Wetland	5
Exclusive use of porous pavement in parking areas where suitable	2

Section 2	Section 2D - Building/Site Design	
	Compliance with residential design guidelines per Section 5.2 of the	10
	UDO	
	Non-Residential building design that incorporates an active upper	5
	story.	
	Pedestrian oriented and walkable site design which promotes	5
	alternatives to vehicular travel within the development. (Subject to	
	TRC Approval)	

Section 2E - Infill/Redevelopment	(Max – 16 points)
Development or Redevelopment within DTC	10
Development or Redevelopment within DTP	6
Redevelopment of previously vacant building space over 20,000 square feet	6
Redevelopment of previously vacant building space under 20,000 square feet	5

Section 2F - Historic Preservation	
Historic Structure Preservation via Deed Restriction (Determined by TRC)	10
Restoration of Historic Structure (Must be approved by TRC)	5

Section 2G – LEED Certification	(Max – 10 points)
LEED Certification for Neighborhood Development (LEED ND)	10
Platinum LEED Certification	10
Gold LEED Certification	8
Silver LEED Certification	6
Bronze LEED Certification	4
LEED Certified Certification	2

## CATEGORY 3 – Outdoor Enhancement and Transit Improvements

Section 3	A – Outdoor Enhancement	(Max – 12 points)
	Construction of a Parkway Street Section on a Collector level street	5

	Construction or Preservation of Gateway Landscaping or Structure (Subject to Comprehensive Plan Consistency and TRC approval)	5		
	Outdoor Display of Public Art (Subject to TRC Approval)	4		
	Public Facing Outdoor Mural (Subject to TRC Approval)	4		
	Maintenance of Roadside Gateway Plant Bed (requires maintenance agreement)	3		
	Planting Pollinator Garden (225 Square Foot Minimum)	3		
	Exclusive use of xeriscaping techniques and drought tolerant species	3		
	Enhanced Roadside Landscaping (Subject to TRC Approval)	2		
<b>*</b>	Enhanced Buffer Landscaping (Subject to TRC Approval)	2		
	Construction of a Parkway Street Section on a Local level street	2		
<b>/</b>	Installation of Native Shade Tree Species (per Tree up to 10 Trees)	1	10 TREES = 10 POINT	S

Section 3B – Transit (Pursuant to location being adjacent to a planned or active transit route)	(Max - 8 points)
Provision of more than 50 designated Park & Ride Stalls	8
Provision of 25 designated Park & Ride Stalls	5
Provision of 10 designated Park & Ride Stalls	3
Provision of mass transit easement w/ structure (bus stop with	2
shelter & bench)	

## CATEGORY 4 - Amenities

Section 4A - Private Greenway	(Max - 3 points)
Construction of more than 3000 linear feet private greenway	3
meeting Town of Zebulon standards	
Construction of more than 2000 linear feet of private greenway	2
meeting Town of Zebulon standards	
Construction of more than 1000 linear feet of private greenway	1
meeting Town of Zebulon standards	

Section 4B – Pool (Combinations may be approved by TRC)	(Max - 8 points)
Olympic Pool and Aquatic Center	8
Junior Olympic Pool	5
Lap Pool (four lane minimum)	3
Resort Style Pool	2
Any Other Pool	1

Section 4C -	Outdoor Deck/Patio	(Max - 3 points)
	Deck/Patio - More than 3000 square feet	3
	Deck/Patio - More than 2000 square feet	2
<b>~</b>	Deck/Patio - More than 1000 square feet	1

Section 4D - Pool Amenities (Max - 2 points)
--

Jacuzzi/Hot Tub/Whirlpool	2
Water Playground with apparatus	2
Sauna/Steam room	2

Section 4E - Clubhouse	(Max - 10 points)
Commercial Coffee Shop with at least 10 designated public seating	10
spaces.	
With full kitchen and over 4000 square feet of meeting space	10
With full kitchen and less than 4000 square feet of meeting space	9
Meeting space without kitchen more than 3500 square feet	8
Meeting space without kitchen 2500 - 3499 square feet	7
Meeting Space without kitchen 1500 - 2499 square feet	5
Meeting Space without kitchen less than 1500 square feet	4
No meeting space, bathrooms and changing rooms only	3
Outdoor Kitchen or Grills	2

Section 4F - Additional Active Recreation	(Max - 10 points)
Gymnasium (regulation size indoor basketball court)	10
Baseball/Softball Field (regulation size)	5
Football/Soccer Field (regulation size)	5
Skate Park	5
Tennis Courts (two regulation courts, fenced)	5
Multi-Use Hardcourt (two regulation basketball courts, street	5
hockey, fenced)	
Pickleball Court (three regulation courts, fenced)	5
Pocket Park – 5,000 square feet	3
IPEMA Certified Playground Equipment	4
Lighted Field of Play for nighttime use	3
Electronic Scoreboard or Covered Dugouts or Bleachers	3
Community Garden – 15-foot by 15-foot, with water access and	3
potting shed.	

	G – Additional Urban Open Space Enhancements (Within Non al Zoning Districts)	(Max – 10 points)
	Fountain	2
<b>*</b>	<b>Canopy Including Fixed Permanent Seating</b>	2
	Drinking Fountain with Pet Fountain	2
	Permanent Game Tables	1
<b>*</b>	Permanent Tables with Shade Cover	1
	All Weather Bulletin Board	1
	Covered or Internal Bicycle Parking	1
<b>~</b>	Artist-Design Bicycle Racks	1
·	Little Free Library	1
·	Drinking Fountain	1
	Public Work Bike Stand With Tools	1

## CATEGORY 5 – Affordable Housing

	a percentage of the provided housing stock of a proposed nt cost no more than 30% of a household income not exceeding	(Max – 10 Points
•	Area Median Income (AMI)	
	15% Affordable Housing	10
	10% Affordable Housing	5

## CATEGORY 6 – Other

(Max 5 Points)

Integrated public safety operation systems (EX. Flock Safety or others	3
as approved by the Police Department)	
Smart Waste and Recycling Stations	2

# Future Land Use Map





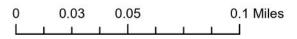


# **Aerial Map**



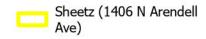






# Legend

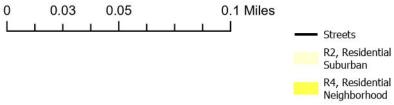
Streets
Parcels



# **Zoning Map**







## Legend











CASE # Planned Development 2025-05: Sheetz (1406 N Arendell)

**HEARING DATE: October 13, 2025** 

State of North Carolina

County of Wake
BEFORE ME, the undersigned Notary, 2. Mcking Worker or
this day of October 2025, personally appeared Matthew Lower,
known to me to be a credible person and of lawful age, who being by me first duly sworn, on his oath, deposes and says:
I Matthew Lower, Planning Director for the Town of Zebulon, affirm that the following Public Notice Procedures have been completed in accordance with applicable North Carolina General Statute and Town of Zebulon Unified Development Ordinance Section 2.3.6 have been satisfied for the above referenced hearing.
<ul> <li>Advertisement in a Paper of General Circulation sent on September 29, 2025 (Wake weekly, publication dates 10/3/2025 &amp; 10/10/2025)</li> <li>Posted to Planning Department Website 9/29/2025</li> <li>Signs Posted on Site 10/1/2025</li> <li>Mailed Notices sent out 10/1/2025</li> </ul>
ms Sm 10/9/2025
Matthew Lower Date
Substituted and sworn to before me, this day of _October 2025
Motary Seal: 10 M NOTARY DELIC
[signature of Notary]  [printed name of Notary]
NOTARY PUBLIC
My commission expires: My 23, 2027.
iviy commission expires.

## **Notice of Public Hearing**

Notice is hereby given pursuant to the provisions of Article 2.3.6 of the Town of Zebulon Unified Development Ordinance that a public hearing will be held on October 13<sup>th</sup>, 2025, at 6:00 PM at the Zebulon Municipal Complex, 1003 N. Arendell Avenue, and will be conducted by the Board of Commissioners and Planning Board for the purpose of considering the following items:

IDT Project Number 1745359– Planned Development 2025-05 – Sheetz (1406 N Arendell Ave)

PIN #2706011220 A request by Sheetz, INC., for a rezoning from Heavy Commercial (HC) to Planned Development for the use of a Convenience Store with Gasoline Sales.

Public comments may be submitted to <u>publiccomments@townofzebulon.org</u> no later than 12:00 Noon on the day of the hearing to be read into the record. Links will be provided along with the full application packet and documentation on the Planning Department web page at <a href="https://www.townofzebulon.org/departments/planning/public-hearing-information">https://www.townofzebulon.org/departments/planning/public-hearing-information</a>. For questions or additional information, please contact us at (919) 823-1811.

## Aviso de audiencia pública

Por la presente se notifica, de conformidad con lo dispuesto en el artículo 2.3.6 de la Ordenanza de Desarrollo Unificado de la ciudad de Zebulon, que el 13 de octubre de 2025, a las 18:00 horas, se celebrará una audiencia pública en el Complejo Municipal de Zebulon, situado en 1003 N. Arendell Avenue, que será dirigida por la Board of Commissioners y la Planning Board con el fin de examinar los siguientes puntos:

Proyecto IDT Numero 1745359: Desarrollo Planificado 2025-05 – Sheetz (1406 N Arendell Ave)

PIN Numero 2706011220 Solicitud de Sheetz, INC., para cambiar la zonificación de comercial pesado (HC) a desarrollo planificado para el uso de una tienda de conveniencia con venta de gasolina.

Los comentarios públicos pueden enviarse a <u>publiccomments@townofzebulon.org</u> antes de las 12:00 del mediodía del día de la audiencia para que se lean en el acta. Se proporcionarán enlaces junto con el paquete completo de la solicitud y la documentación en la página web del Departamento de Planificación en <a href="https://www.townofzebulon.org/departments/planning/public-hearing-information">https://www.townofzebulon.org/departments/planning/public-hearing-information</a>. Si tiene alguna pregunta o desea obtener información adicional, póngase en contacto con nosotros en el (919) 823-1811.

