

SHEETZ JSP23-33

JSP23-33 SHEETZ

Public hearing at the request of Silken Gold for Preliminary Site Plan, Wetland Permit, Woodland Permit, and Stormwater Management Plan. The subject property is zoned B-3 General Business and is located in Section 13, west of Haggerty Road and south of Twelve Mile Road. The applicant is proposing to demolish the existing gas station on the site to redevelop with a new gas station/convenience store.

Required Action

Approve/Deny the Preliminary Site Plan, Wetland Permit, Woodland Permit and Stormwater Management Plan.

REVIEW	RESULT	DATE	COMMENTS
Planning	Approval recommended	9-18-24	 Items to be addressed in Final Site Plan submittal
Engineering	Approval recommended	9-19-24	 Underground stormwater detention system proposed Items to be addressed in the Final Site Plan submittal
Landscaping	Approval Not recommended (See comments)	9-16-24	 Applicant response letter indicates unsupported waivers will be brought into compliance in Final Site Plan submittal Waiver to allow a lack of greenbelt berm along 12 Mile (Supported by staff) Waiver to allow a lack of street trees along Haggerty Road (Supported due to utility conflicts) Waiver to allow a deficiency in foundation landscaping at the building (Supported by staff) Items to be addressed in Final Site Plan
Wetland	Approval Not recommended (See comments)	9-17-24	 <u>Applicant response letter indicates mitigation</u> to be revised to meet Ordinance requirements Wetland Use permit required Off-site mitigation on nearby parcel has been revised to account for all requirements Items to be addressed in the electronic stamping submittal
Woodland	Approval recommended	9-17-24	 Woodland Use Permit for removal of approximately 93 regulated trees Items to be addressed in Final Site Plan
Traffic	Approval recommended	9-16-24	 ZBA Variance for loading zone in the front yard Items to be addressed in Final Site Plan

Façade	Approval recommended	7-1-24	Full compliance with Ordinance
Fire	Approval recommended	9-5-24	 Meets Fire Department Standards

Motion sheet

Approval - Preliminary Site Plan

i.

In the matter of Sheetz JSP23-33, motion to **approve** the <u>Preliminary Site Plan</u> based on and subject to the following:

- a. Landscaping waiver from Section 5.5.3.B.ii-iii to allow a continuous hedge in lieu of a berm along 12 Mile Road, as the intent of the ordinance is achieved, which is hereby granted.
- b. Landscape waiver from Section 5.5.3.B.ii-iii for the deficiency in street trees along Haggerty Road due to utility conflicts, which is hereby granted.
- c. Landscape waiver from Section 5.5.3.D to allow 25% of the building foundation landscaping to be located away from the building, as the intent of the ordinance is achieved, which is hereby granted.
- d. Approval of variances to be requested from the Zoning Board of Appeals as follows:
 - Loading zone located in the front yard due to the location of the fuel tanks needing to be near the fuel pumps.
- e. The findings of compliance with Ordinance standards in the staff and consultant review letters, and the conditions and items listed in those letters being addressed on the Final Site Plan; and
- f. (additional conditions here if any).

(This motion is made because the plan is otherwise in compliance with Article 3, Article 4 and Article 5 of the Zoning Ordinance and all other applicable provisions of the Ordinance.)

-AND-

Approval - Wetland Permit

In the matter of Sheetz JSP23-33, motion to **approve** the <u>Wetland Permit</u> based on and subject to the following:

- a. The size of the off-site mitigation area shall be adjusted to fulfill the requirements for mitigation under the Code of Ordinances as shown in the plan dated 9/25/24;
- b. Mitigation areas and the adjacent wetland and woodland areas shall be protected in a 4.23-acre conservation easement;
- c. The findings of compliance with Ordinance standards in the staff and consultant review letters, and the conditions and items listed in those letters being addressed on the Final Site Plan; and
- d. (additional conditions here if any)

(This motion is made because the plan is otherwise in compliance with Chapter 12 of the Code of Ordinances and all other applicable provisions of the Ordinance.)

-AND-

Approval - Woodland Permit

In the matter of Sheetz JSP23-33, motion to **approve** the <u>Woodland Permit</u> based on and subject to the following:

- e. The findings of compliance with Ordinance standards in the staff and consultant review letters, and the conditions and items listed in those letters being addressed on the Final Site Plan; and
- f. (additional conditions here if any)

(This motion is made because the plan is otherwise in compliance with Chapter 37 of the Code of Ordinances and all other applicable provisions of the Ordinance.)

– AND –

Approval – Stormwater Management Plan

In the matter of Sheetz JSP23-33, motion to **approve** the <u>Stormwater Management Plan</u>, based on and subject to:

- a. The findings of compliance with Ordinance standards in the staff and consultant review letters, and the conditions and items listed in those letters being addressed on the Final Site Plan; and
- b. (additional conditions here if any).

(This motion is made because it otherwise in compliance with Chapter 11 of the Code of Ordinances and all other applicable provisions of the Ordinance.)

– OR –

Denial - Preliminary Site Plan

In the matter of Sheetz JSP23-33, motion to **deny** the <u>Preliminary Site Plan</u>... (because the plan is not in compliance with Article 3, Article 4 and Article 5 of the Zoning Ordinance and all other applicable provisions of the Ordinance.)

-AND-

Denial- Wetland Permit

In the matter of Sheetz JSP23-33, motion to **deny** the <u>Wetland Permit</u>... (because the plan is not in compliance with Chapter 12 of the Code of Ordinances and all other applicable provisions of the Ordinance.)

-AND-

Denial- Woodland Permit

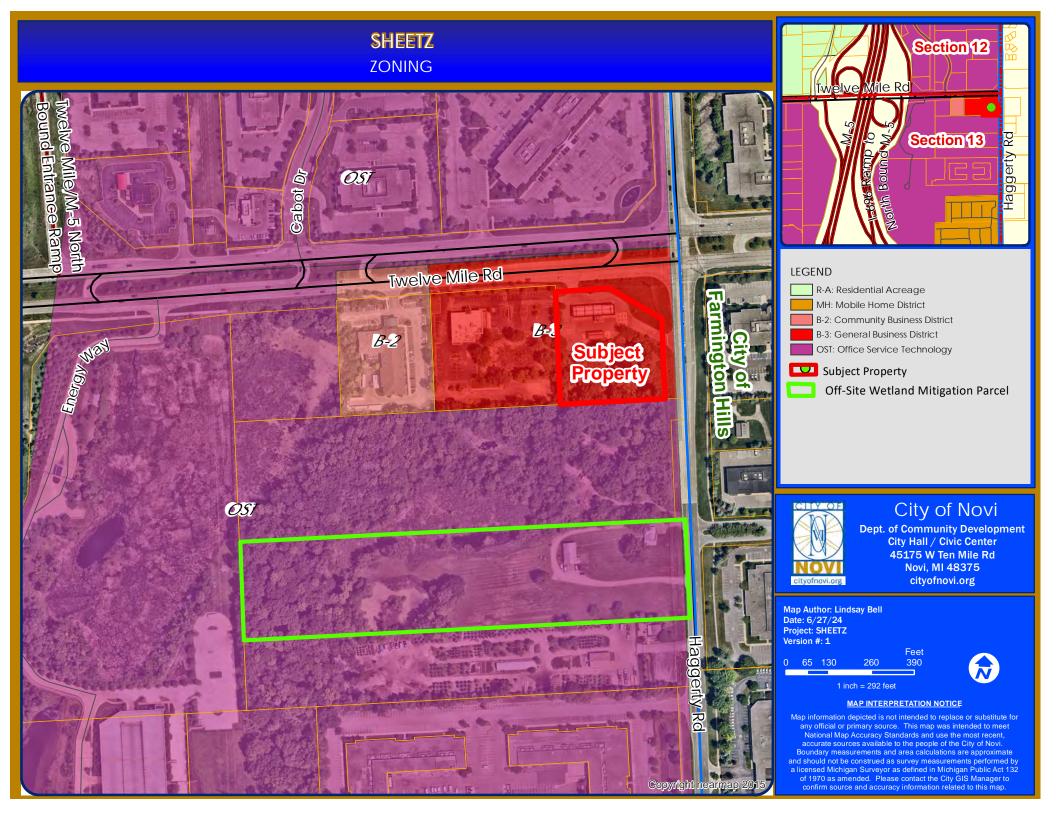
In the matter of Sheetz JSP23-33, motion to **deny** the <u>Woodland Permit</u>... (because the plan is not in compliance with Chapter 37 of the Code of Ordinances and all other applicable provisions of the Ordinance.)

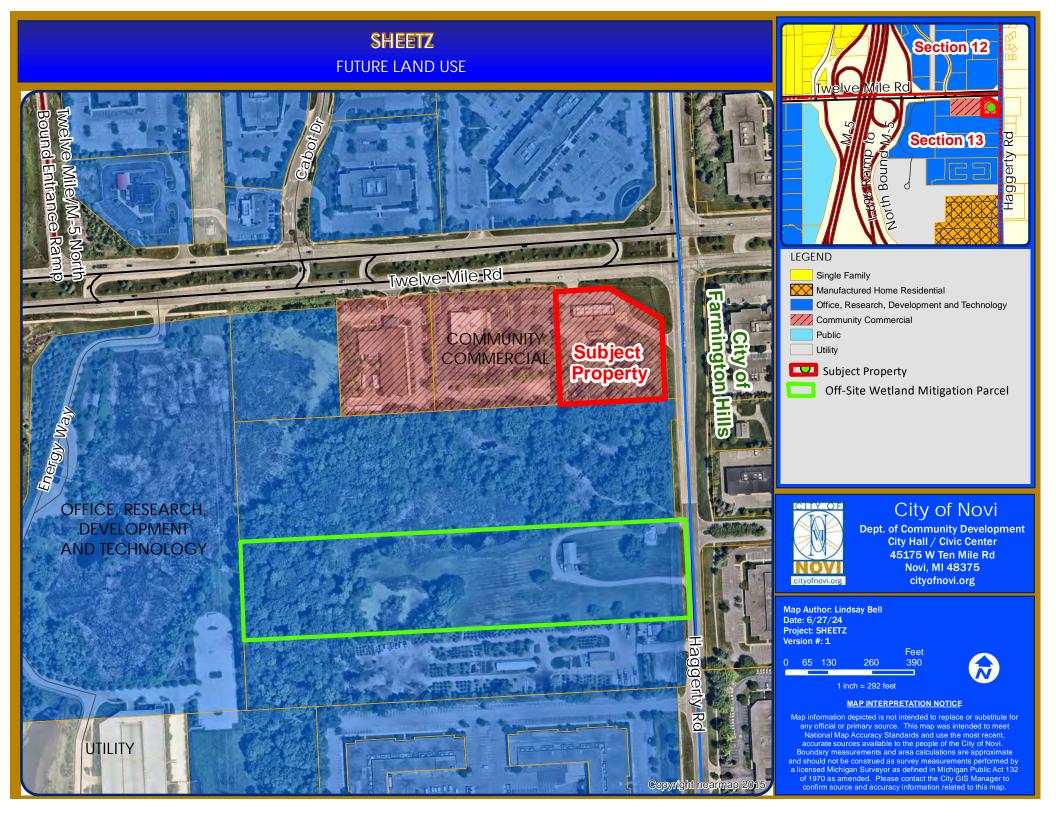
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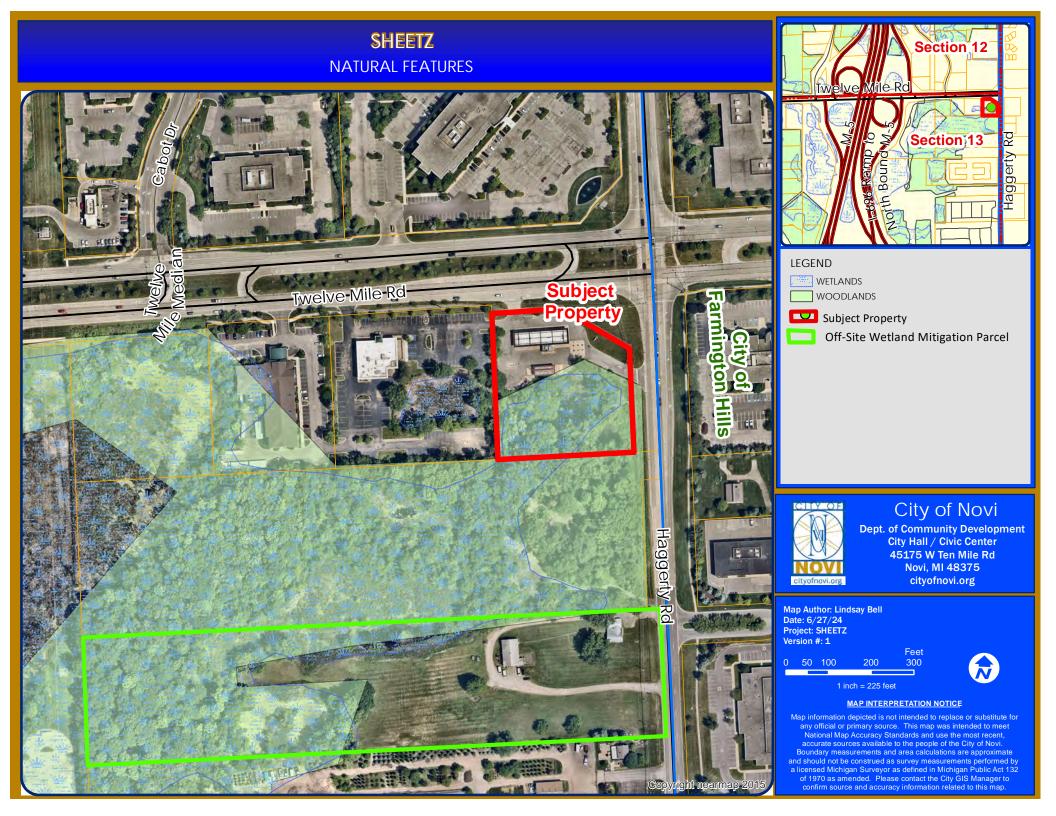
Denial - Stormwater Management Plan

In the matter of Sheetz JSP23-33, motion to **deny** the <u>Stormwater Management Plan</u>... (because the plan is not in compliance with Chapter 11 of the Code of Ordinances and all other applicable provisions of the Ordinance.) <u>MAPS</u> Location Zoning Future Land Use Natural Features









SITE PLAN (Full plan set available for viewing at the Community Development Department.)



APPLICANT SKILKEN GOLD DREW RICHLEN, PE 4270 MORSE ROAD COLUMBUS, OH 43230 PHONE: (614) 418-3100

OWNER

39471 TWELVE MILE ROAD, LLC AND UF MICHIGAN, LLC 132 N. OLD WOODWARD **BIRMINGHAM, MI 48009** PHONE: (248) 633-2430

ENGINEER

GIFFELS WEBSTER MS. NANCY STANDISH, PE 1025 E. MAPLE, SUITE 100 **BIRMINGHAM, MI 48009** PHONE: (248) 852-3100

SURVEYOR

GIFFELS WEBSTER CHRIS ASIALA, PS 1025 E. MAPLE, SUITE 100 **BIRMINGHAM, MI 48009** PHONE: (248) 852-3100

LANDSCAPE ARCHITECT

GIFFELS WEBSTER FRANCESCA SCHOVERS, RLA 1025 E. MAPLE, SUITE 100 **BIRMINGHAM, MI 48009** PHONE: (248) 852-3100

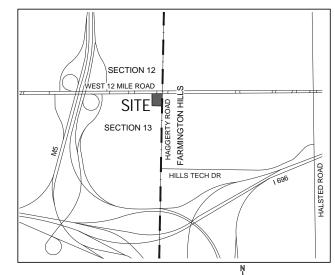
GENERAL NOTES

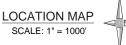
- 1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF NOVI, OAKLAND COUNTY WRC, GREAT LAKES WATER AUTHORITY, AND THE EGLE.
- 2. ALL WORK WITHIN THE ROAD COMMISSION FOR OAKLAND COUNTY RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH ROAD COMMISSION SUPPLEMENTAL PERMIT SPECIFICATIONS AND BY PERMIT ONLY. 3. ALL PERMITS REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR. ALL PERMIT FEES, BONDS, AND INSURANCE REQUIRED BY THE ISSUING AGENCIES
- SHALL BE PROVIDED BY THE CONTRACTOR, AND MUST BE KEPT CURRENT. THE CONTRACTOR IS RESPONSIBLE FOR ALL OTHER FEES, INSPECTION COSTS, ETC., AND SHALL ADHERE TO ALL REQUIREMENTS SET FORTH IN SAID PERMITS.
- 4. 72 HOURS PRIOR TO EXCAVATION, THE CONTRACTOR SHALL NOTIFY MISS DIG [1-800-482-717] FOR LOCATION OF UNDERGROUND AND CABLE FACILITIES, AND SHALL NOTIFY REPRESENTATIVES OF OTHER UTILITIES LOCATED IN THE VICINITY OF THE WORK.
- NACUNES, AND SALL ROLFY MENSION AND SUPERVISION OF THE RESEARCH AND ADDRESS OF THE ADDRESS OF THE WORK: UTILTY INCOMEND SOMONO IN THE PARSES WAS DETARGED AND UTILITY OWNER AND AND AN AN OTE ALCOLARS AND COMPETE UTILTY INCOMEND SOMONO IN THE PARSES WAS DETARGED AND UTILITY OWNER AND AND AN AN OTE ALCOLARS AND COMPETE MONTH AND AN ATTERED AND SOMONO AND AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND MONTH AND AN ATTERED AND SOMONO AND ADDRESS AND ADDRESS
- THE UTILITY POLES SHOWN ON THESE DRAWINGS ARE INTENDED TO SHOW ONLY THE LOCATION OF EXISTING POLES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE QUANTITY AND DIRECTION OF OVERHEAD LINES. THE COST FOR SUPPORTING AND RELOCATING POLES SHALL BE INCIDENTLATION TO THE PROJECT.
- BE INCIDENTAL TO THE PROJECT. THE CONTRACTOR SHALL PROVIDE FOR CONTROLLED ACCESS TO THE SITE FOR USE BY THE VARIOUS WORK FORCES, EMERGENCY VEHICLES, OCCUPANTS, VISITORS, BTC. THROUGHIOUT CONSTRUCTION. THIS ACCESS MUST PROVIDE FOR THE REMOVAL OF MUD FROM VEHICLES RESPONSIBILITY TO NOTIFY THE RESIDENTS AND BUSINESSES, WHOSE DRIVENAYS ARE AFFECTED BY HIS SCHEDULE, SAVAL THROW ALCUSSIVE BY AND RESPONSIBILITY TO NOTIFY THE RESIDENTS AND BUSINESSES, WHOSE DRIVENAYS ARE AFFECTED BY HIS SCHEDULE, SAVAL THROW ALCUSSIVE BY DEVIDENT ON THE AND ALCUSSIVE BY DEVIDENT ON THE ACCESS THE REMOVAL COSINE BY AND AND ALCUSSIVE BY THE RESIDENTS AND BUSINESSES. CONSTRUCTION.
- 8. DURING CONSTRUCTION, CONTRACTOR MAY ENCOUNTER SPRINKLER HEADS, PIPING, LIGHTING, AND BURIED ELECTRICAL CABLE, MAILBOXES, FENCES, SIGNS, ETC. CONTRACTOR SHALL REPLACE AND/OR RESTORE ALL COMPONENTS OF SUCH SYSTEMS. THIS WORK SHALL BE INCIDENTAL TO THE PROJECT
- 9 RIGHT-OF-WAYS AND FRONT OF LOTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED BY TOPSOIL SEED AND MULICH
- 10. THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION ACTIVITIES TO THE LIMITS OF THE SITE AS SHOWN ON THE CONSTRUCTION PLANS. ANY DAMAGE OR DISKUPTION TO ADJACENT SITES IS THE RESPONSIBILITY OF THE CONTRACTOR TO CORRECT IMMEDIATELY. NO OFF-SITE WORK SHALL BE PERFORMED DUTISIDE OF PUBLIC RIGHTS-OF-WAY OF DEDICATED EASEMENTS WITHOUT PRIOR WRITET BAPPROVAL OF THE PROPERTY INVERSE TO ADJACENT SITE OF PUBLIC RIGHTS-OF-WAY OF DEDICATED EASEMENTS WITHOUT PRIOR WRITET BAPPROVAL OF THE PROPERTY INVERSE 11. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO VEGETATION OUTSIDE THE CLEARING AND GRUBBING LIMITS. NO DRIVING OR PARKING OF VEHICLES AND/OR STORAGE OF MATERIALS AND SUPPLIES SHALL BE PERMITTED OUTSIDE THE LIMITS OF CONSTRUCTION.
- VERTICES AND/USE SUBJECT MORE DEVINE AND APPLIES STAFLE DE PERMIT LE DU SUB LE LE LIMITS DE LODIS JOULION. 21 THE PROTECTION OF DESTITING TERES, SA REQUIRED, SHALE SOELEVITE LO TIMATOTOS RESPONSIBILOT. 13 RINAL CLANUP AND RESTORTION SHALL CONISTO FINE GRADING OF CONSTRUCTION AREAS, REMOVAL OF CONSTRUCTION SIGNS, ETC. TOPSOIL SWALLE GESPARA DOVERA LLO STUBBER DERÁS, FOLLOWOR DE SEGUE PRITE CONTROL DE ROSDON MALO TO STATA WILLELO, NA SFURTI-RE REQUIRED BY THE LANDSCAPINE PLANS AND SPECIFICATIONS. ALL REQUIRED RESTORATION TEMES NOT SPECIFICALIVI DENTIFIED AS A PARTIEM SHALL BE CONSIDERED INDERTIA. TO THE CONTRACT.
- 14. ALL RESTORATION SHALL BE SPECIFIED ON THE PLANS AND IN THE SPECIFICATIONS. NON PAY ITEMS SHALL BE INCIDENTAL TO THE PROJECT 15. THE CONTRACTOR AND/OR HIS SUBCONTRACTORS SHALL NOTIFY THE CITY OF NOVI, CITY OF NOVI FIRE DEPARTMENT, THE OAKLAND COUNTY SHERIFF'S DEPARTMENT, AND THE ROAD COMMISSION FOR OAKLAND COUNTY TWO (2) WEEKS PRIOR TO THE BEGINNING OF CONSTRUCTION
- 16. ALL CULVERTS REMOVED DURING CONSTRUCTION SHALL BE PLACED BACK IN THEIR ORIGINAL POSITION. THIS WORK IS INCIDENTAL TO THE PROJECT ANY CULVERTS SHOWN ON PLAN DAMAGED BY THE CONTRACTOR DURING REMOVAL, SHALL BE REPLACED WITH NEW CULVERTS AT THE CONTRACTOR'S EXPENSE
- 17. THE CONTRACTOR SHALL PROVIDE NECESSARY SIGNS, BARRICADES, AND LIGHTS TO PROTECT THE TRAFFIC AND THE WORK AS DIRECTED BY THE FIELD ENGINEER OR THE DAKLAND COUNTY ROAD COMMISSION. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MICHIGAN MANUAL OF
- UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD.) 18. ALL LOT MARKERS AND MONUMENT FORTUNES DURING CONSTRUCTION SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING REQUIRED TO CONSTRUCT THE PROPOSED UTILITIES. COST OF DEWATERING SHALL BE INCIDENTAL TO THE PROJECT.

SHEETZ NOVI, MI (HAGGERTY) 39471 W. 12 MILE ROAD, NOVI, MI 48377 PARCEL NO. 22-13-200-016







SHEET INDEX

C2

C3

C4

ENGINEERING PLANS COVER EXISTING CONDITIONS/TOPOGRAPHIC SURVEY DEMOLITION PLAN

- SESC PLAN SITE AND PAVING PLAN
- C5 GRADING PLAN C6
- C7 UTILITY PLAN
- C8 STORM WATER MANAGEMENT PLAN SITE DETAILS
- C9 C10 SITE DETAILS
- C11 MDOT RAMP DETAILS
- SITE DISTANCE AND FIRE TRUCK TURNING C12 C13 WETLAND PLAN
- C14 CONCEPTUAL MITIGATION PLAN C15
 - MITIGATION AREA TREE REMOVAL
- C16 OUTDOOR SEATING CUT SHEETS

LANDSCAPE PLANS 1-100 LANDSCAPE PLAN

LANDSCAPE NOTES & CALCULATIONS L-200

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ARCHITECTURAL PLANS				
A100	FLOOR PLAN			
A200-201	BUILDING ELEVATIONS			
AWNING	AWING ELEVATIONS			
CANOPY	GAS CANOPY DETAILS			
1 SHEET	TRASH ENCLOSURE			
1 SHEET	PERIMETER WALL DETAILS			

(now what's below. Call before you dig

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Manager.

Designer

Section

Quality Control:

NS

NS

NS

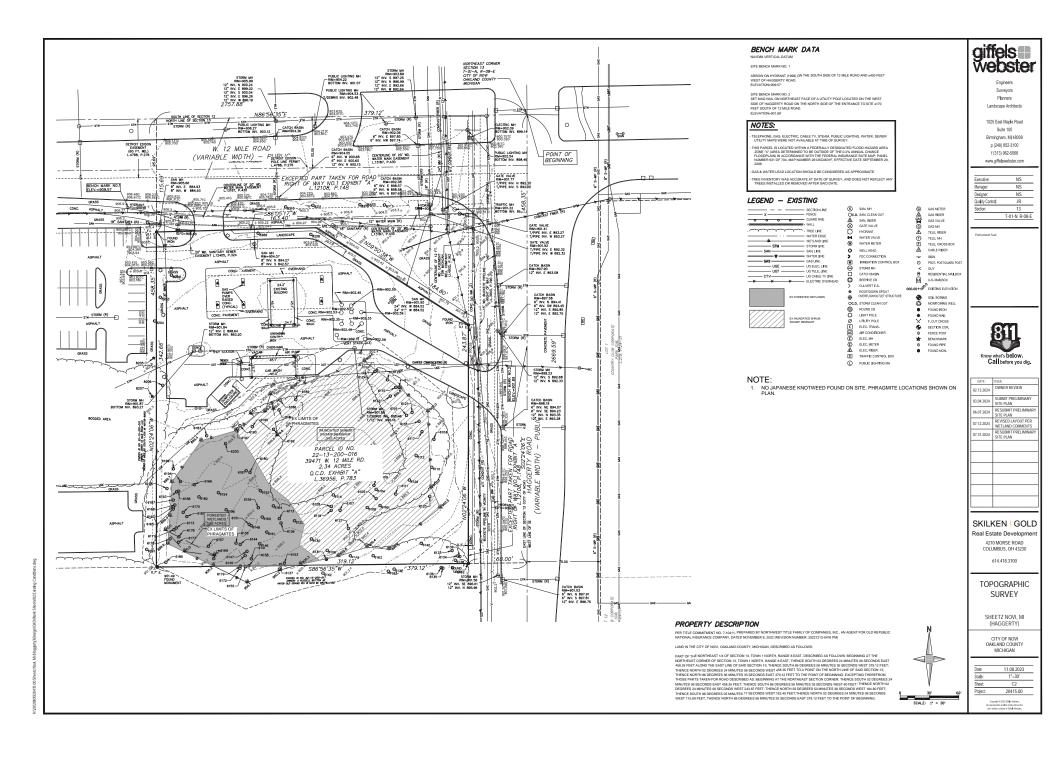
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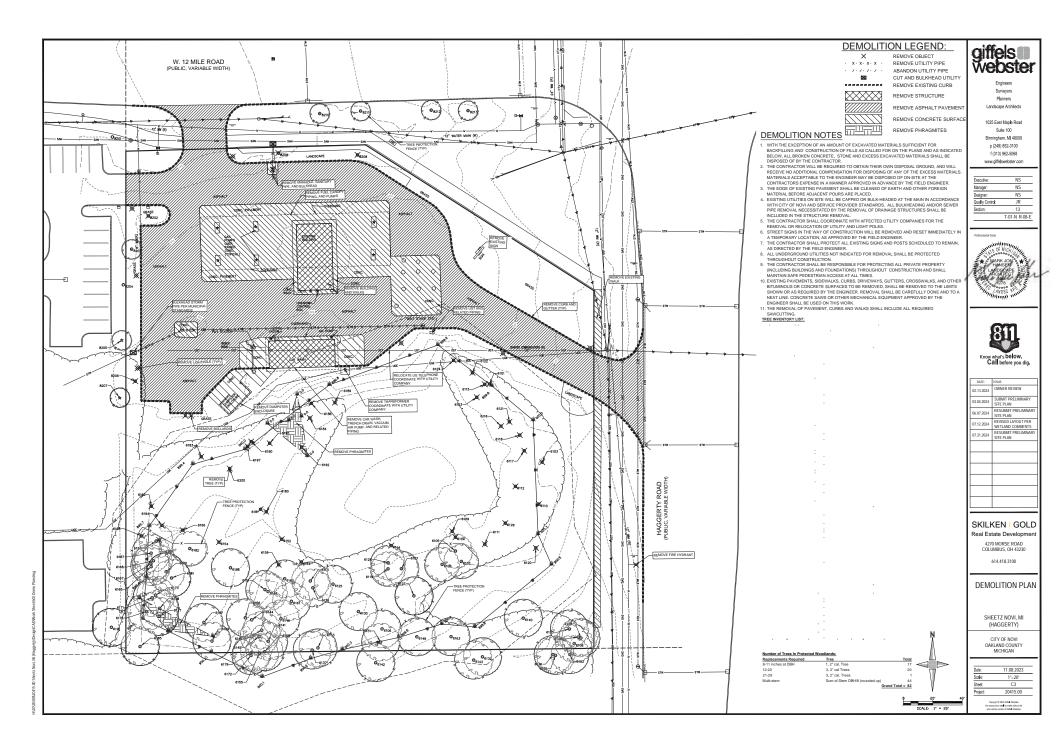
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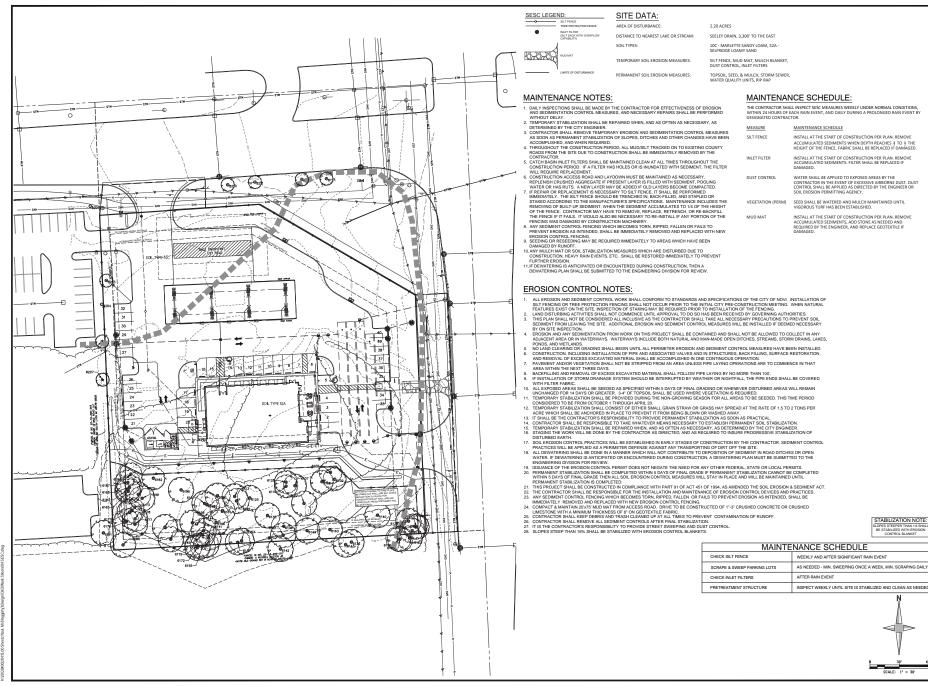
	DATE:	ISSUE:	
_	02.13.2024	OWNER REVIEW	
	03.04.2024	SUBMIT PRELIMINARY SITE PLAN	
	06.07.2024	RESUBMIT PRELIMINARY SITE PLAN	
	07.12.2024	REVISED LAYOUT PER WETLAND COMMENTS	
	07.31.2024	RESUBMIT PRELIMINARY SITE PLAN	
	Real Estate Development 4270 MORSE ROAD COLUMBUS, OH 43230 614.418.3100		
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CITY OF NOVI PROJECT NUMBER: JSP23-33









aiffole
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webster

Engineers Surveyors Planners Landscape Architects

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p (248) 852-3100 f (313) 962-5068 www.giffelswebster.com

Executive NS Manager: NS Designer: NS Quality Control JR Section:

Professional Sea

T-01-N R-08-E

INSTALL AT THE START OF CONSTRUCTION PER PLAN. REMOVE

81 Know what's below. Call before you dig.

12.13.2024 OWNER REVIEW 13.04.2024 SUBMIT PRELIMINA SITE PLAN 06.07.2024 RESUBMIT PRELIMINAL ITE PLAN REVISED LAYOUT PER 07.12.2024 07.12.2024 WETLAND COMMENTS 07.31.2024 RESUBMIT PRELIMINAR SITE PLAN SKILKEN | GOLD Real Estate Development 4270 MORSE ROAD COLUMBLIS: OH 43230 614.418.3100 SESC PLAN SHEETZ NOVE ME (HAGGERTY) CITY OF NOVI OAKLAND COUNTY

MICHIGAN 11.08.2023

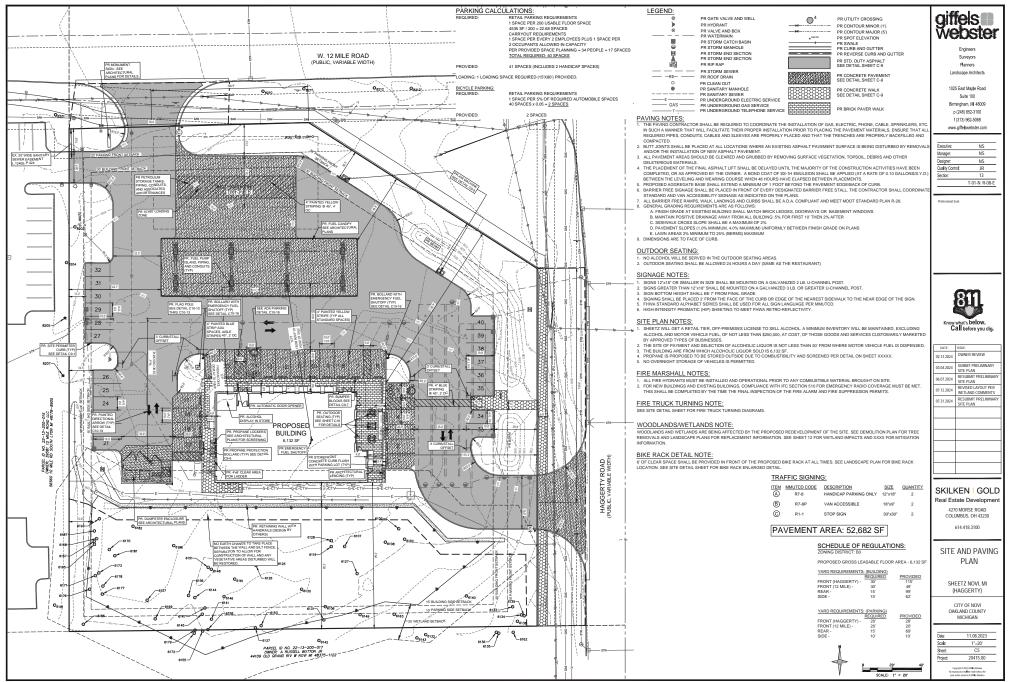
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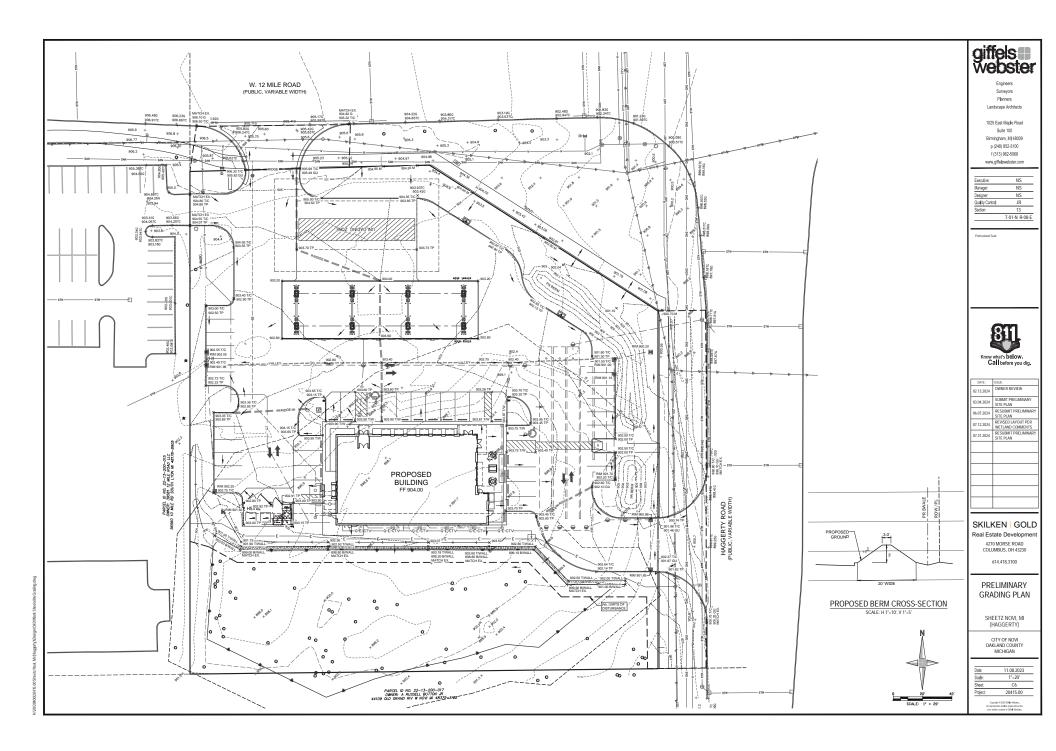
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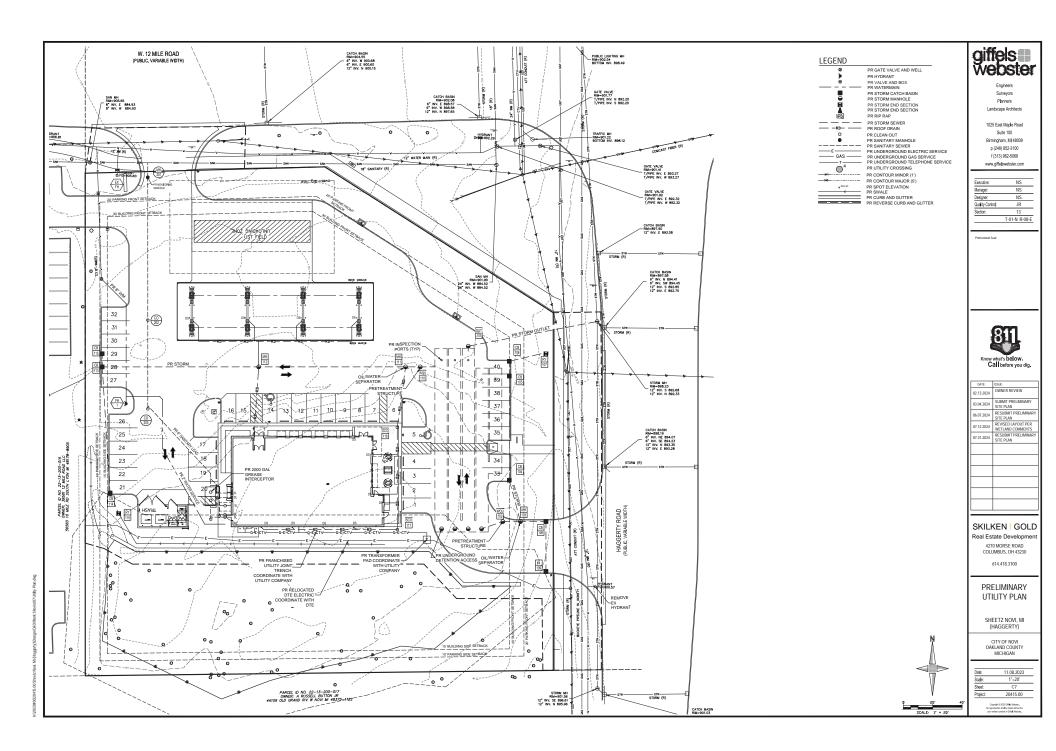
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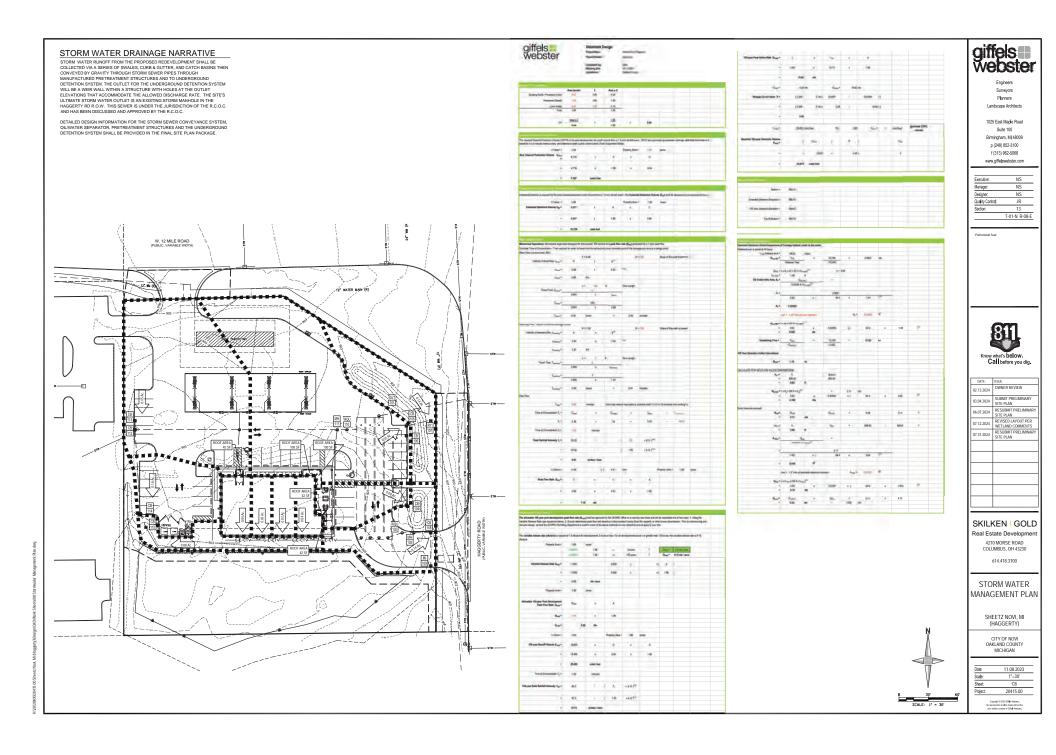
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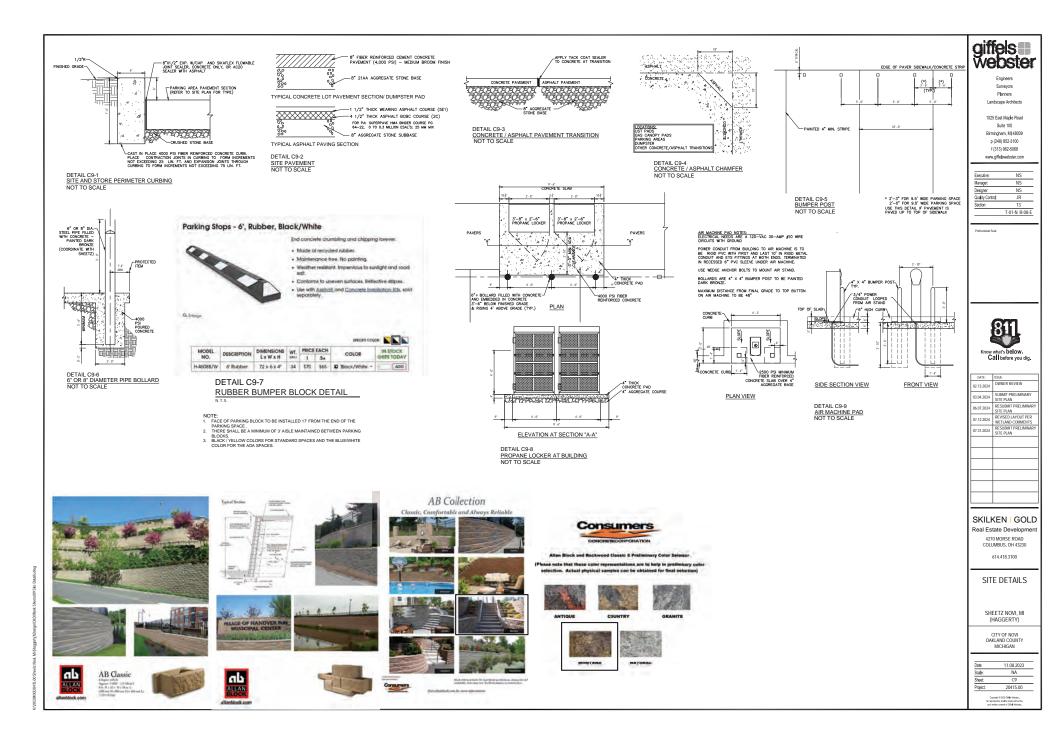


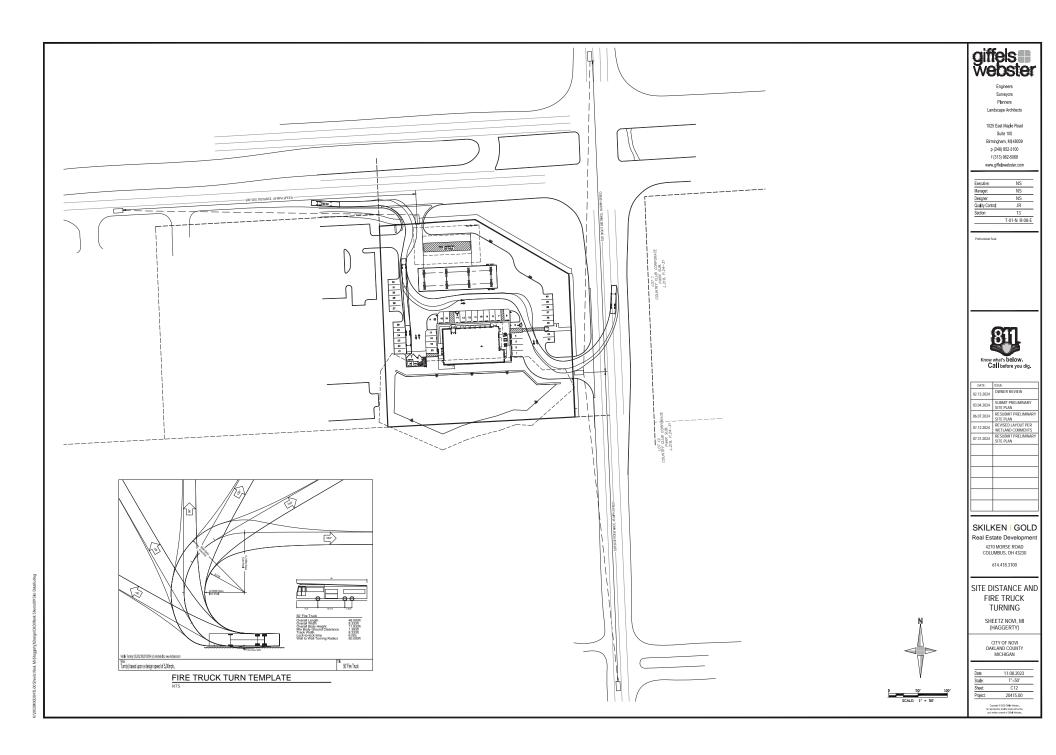
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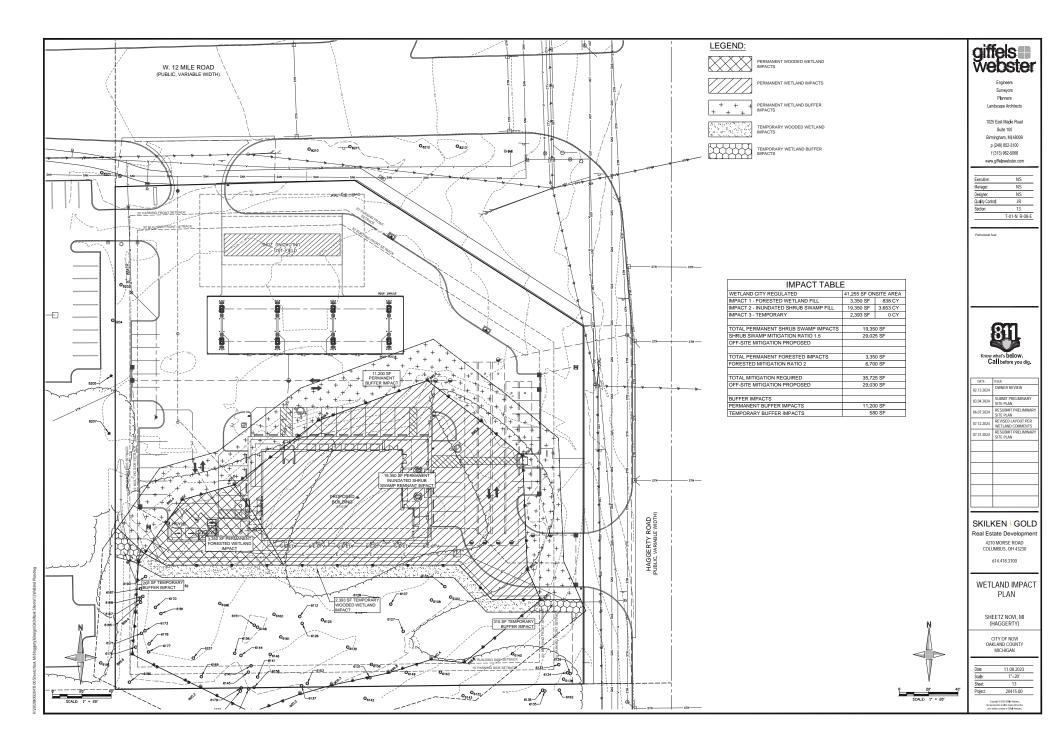


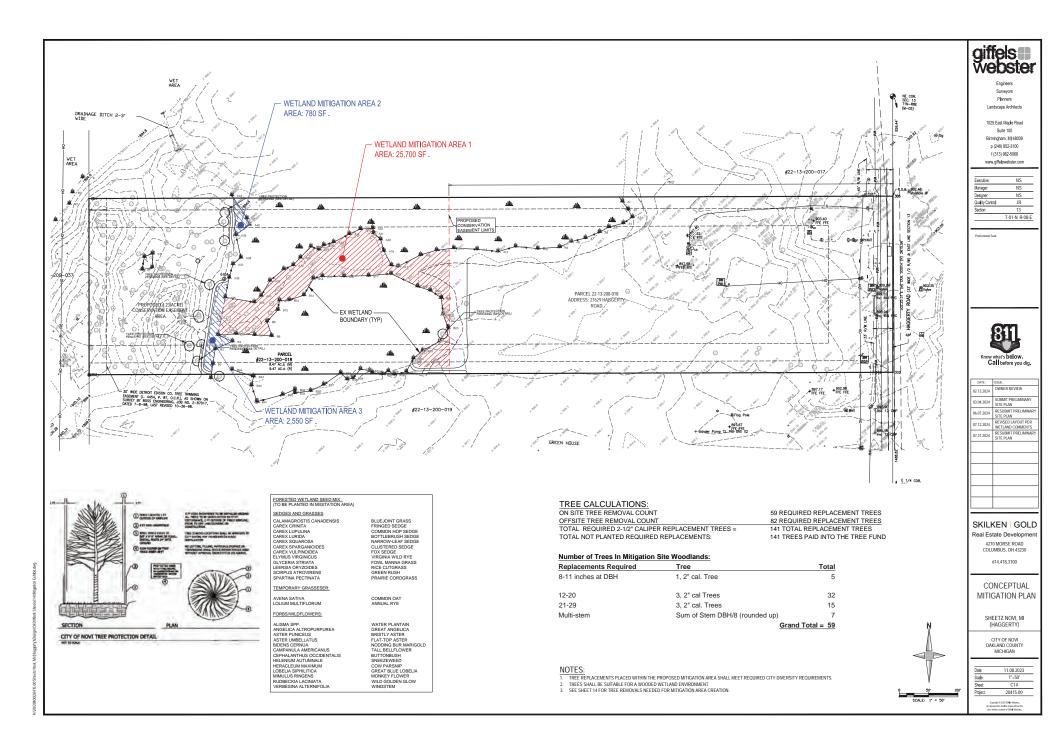


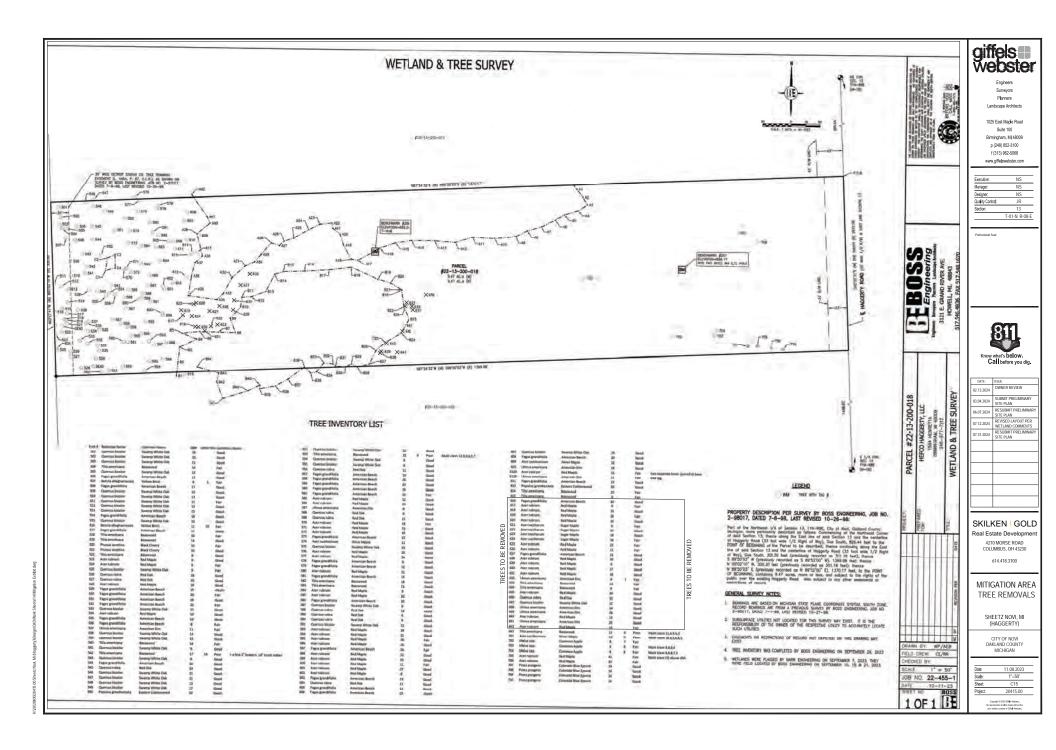


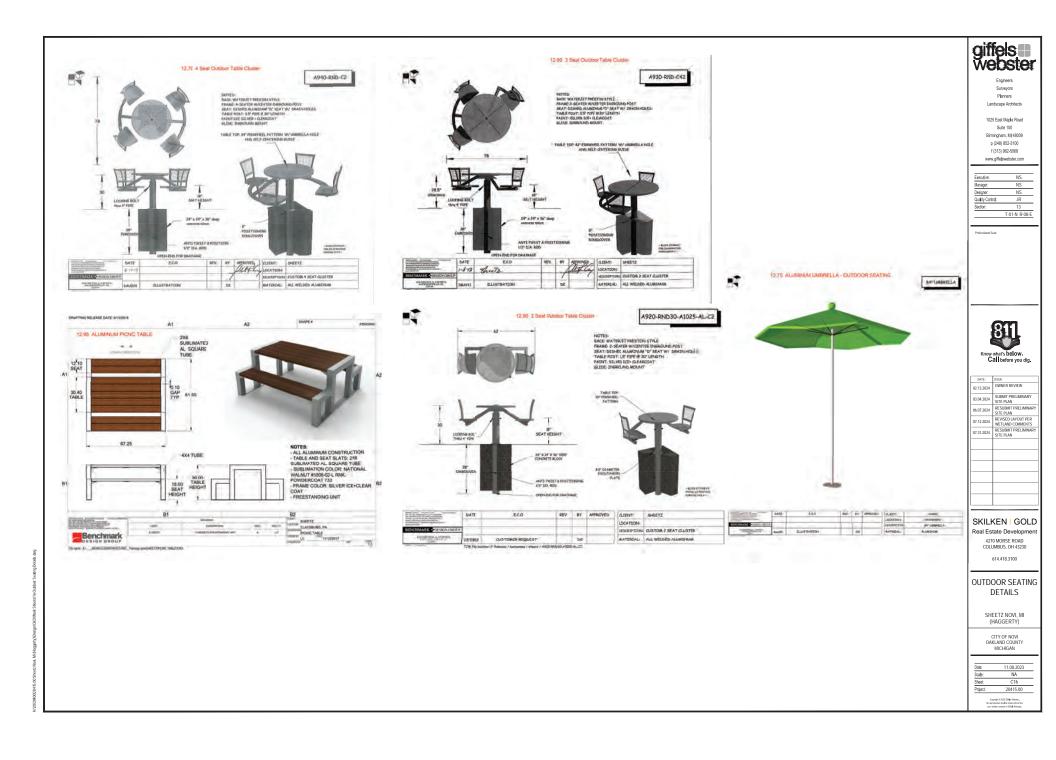


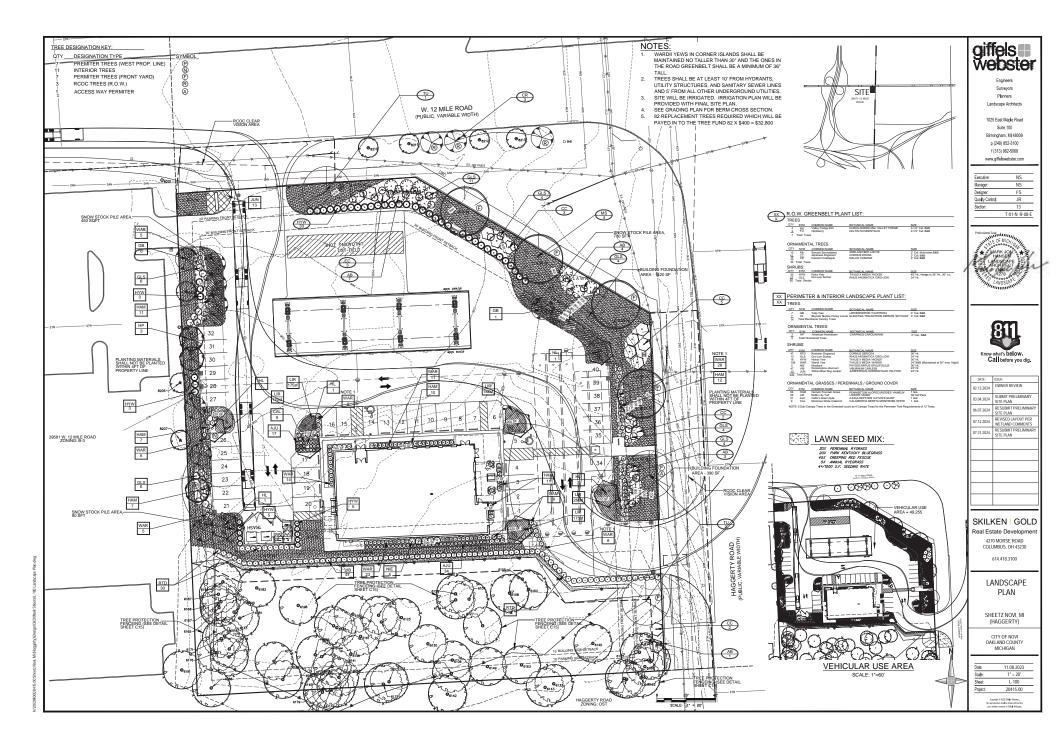






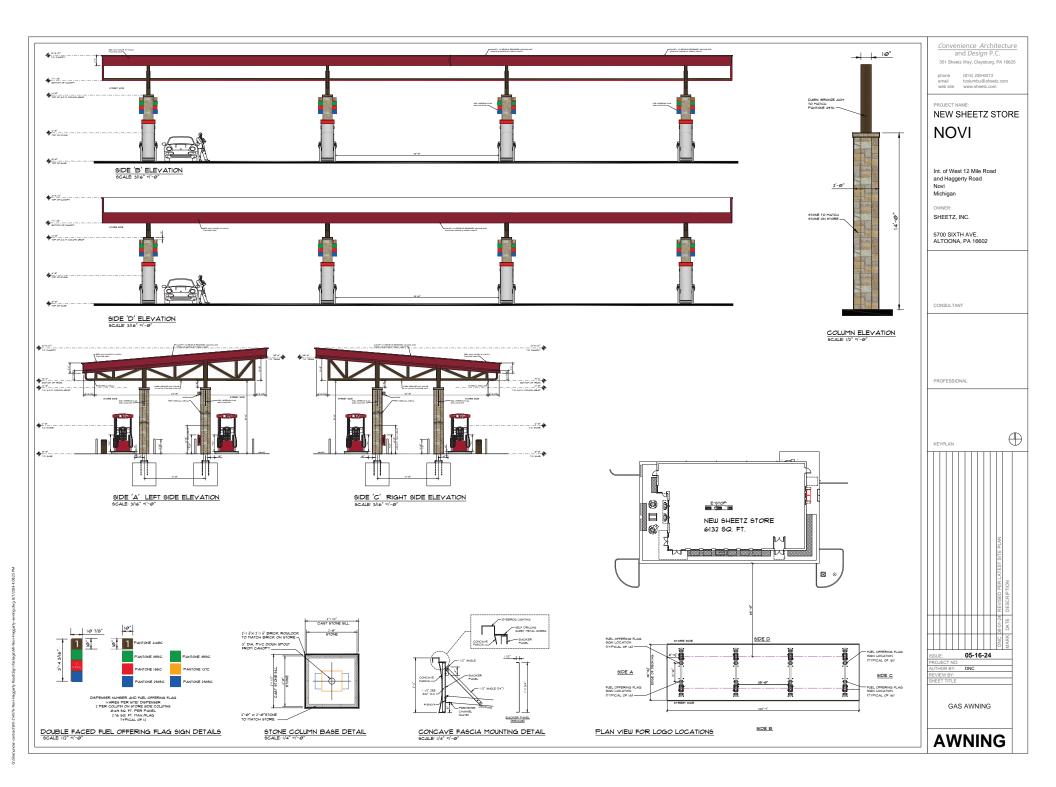


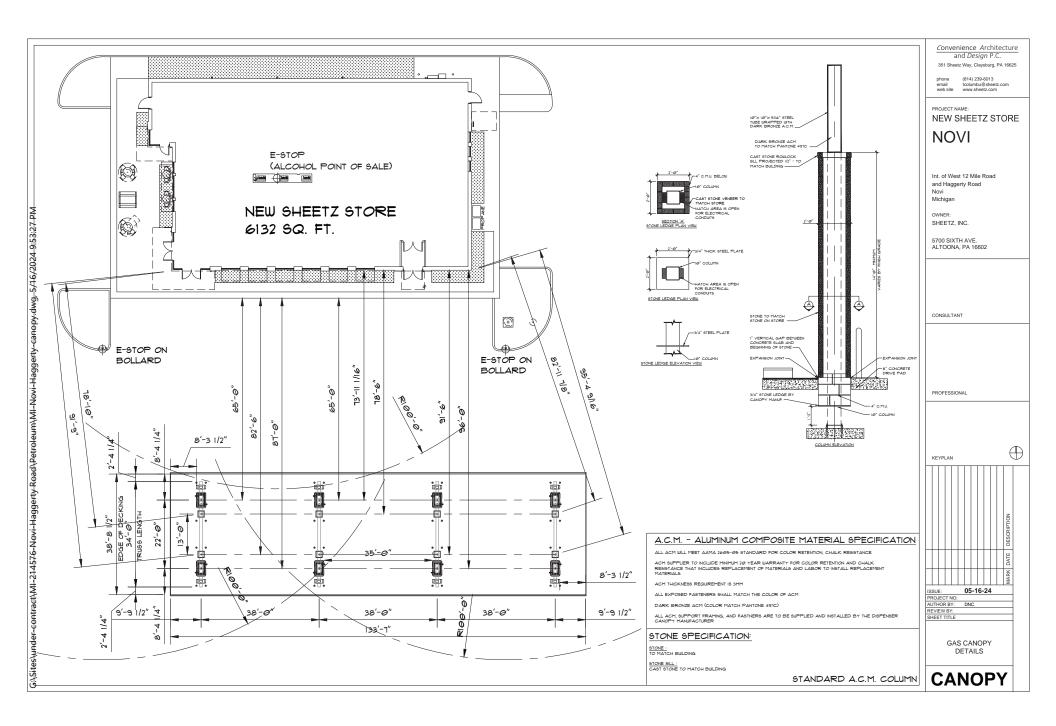


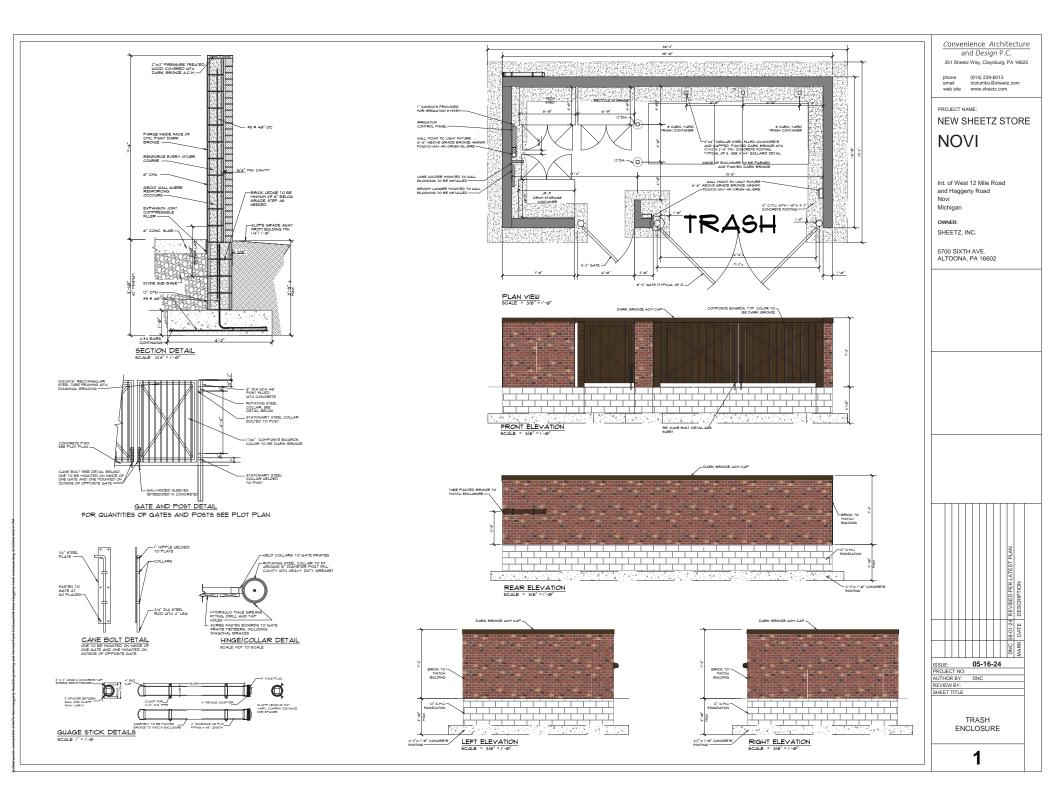


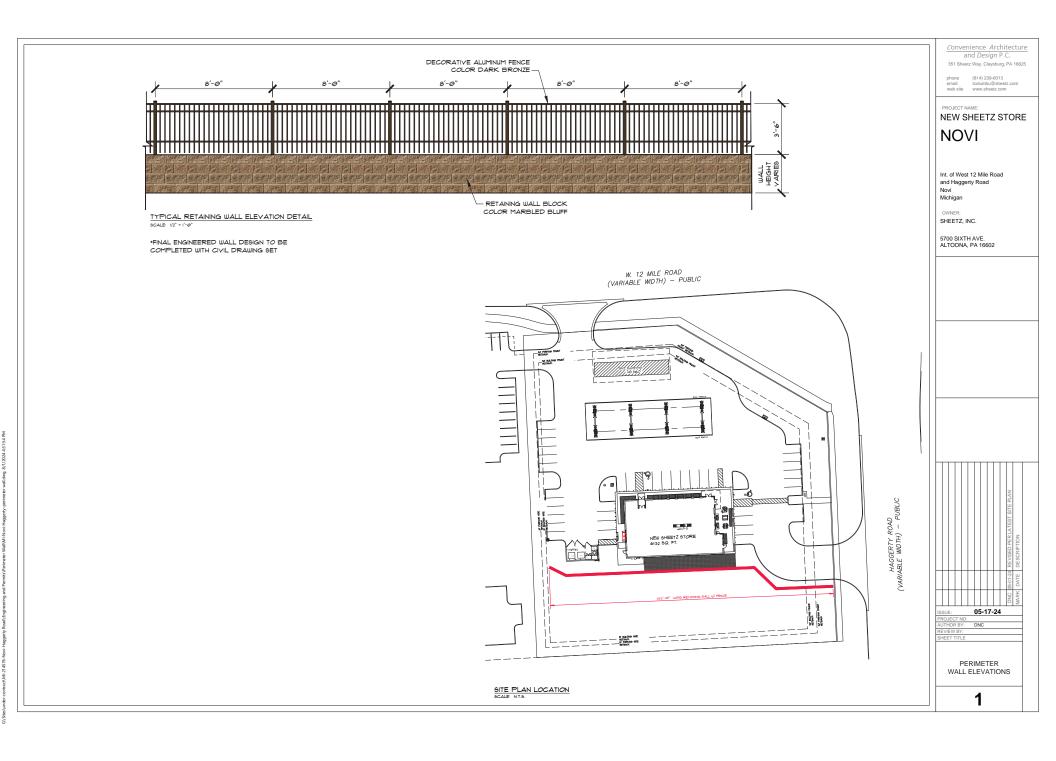












APPLICANT NARRATIVE

LAW OFFICES LANDRY, MAZZEO, DEMBINSKI & STEVENS, P.C.

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www.lmdlaw.com

D. B. LANDRY dlandry@lmdlaw.com Office:(248) 476-6900Direct:(248) 919-3783Fax:(248) 476-6564

October 4, 2024

Via Electronic Message Only

Lindsay Bell City of Novi Planning Department 45175 West 10 Mile Road Novi, Michigan 48375 Ibell@cityofnovi.org

Re: JSP23-33 Sheetz Third Re-Submittal of Revised Preliminary Site Plan

Dear Ms. Bell:

Please accept this submission in response to your email of September 19, 2024 along with the Plan Review Center report dated September 18, 2024. With this submission we believe that we have complied with the requests of the City of Novi and would respectfully request that we be placed on the Planning Commission agenda for October 30, 2024 where we seek preliminary site plan approval, woodland permit, wetland permit, and storm water management plan.

In your email of September 19, 2024, you indicated that "wetland and landscape reviews are not recommending approval due to unsupported deviations from ordinance requirements. Other reviews are recommending approval or conditional approval." With this submission we believe we are now satisfying the wetland mitigation requirements and we have decreased the number of landscape deviations. We believe the only remaining requested landscape deviations are be supported by the administration.

You will recall that in our prior submissions we were short square footage with respect to wetland mitigation. We have been working diligently with the city administration to address this condition given the constraints of the site. You had acknowledged in your September 19, 2024 review that our prior efforts to redesign the site had lessened the prior deficiency by more than one half, which at that time the deficiency was .15 acre. We had requested a wetland variance (from City Council) and offered to place 4,23 acres of woodland in a conservation easement and to purchase EGLE wetland credits for the shortage. However, since that time we have continued our efforts and we have been able to achieve all wetland mitigation square footage required by the ordinance. Therefore, it will no longer be necessary for the City to consider our wetland variance request, the EGLE credits or the previously proposed conservation easement as we now believe that we are in complete satisfaction of the city wetland ordinance.

I am including herewith the initial report from our wetland consultant, ASTI, dated May 1, 2024, which contains all the necessary background information on the site and I am also including Sheets C13, C14, and C15 which contain the now revised wetland impact plan, the mitigation plan, and the mitigation area tree removals. We believe we are now in compliance with the wetland ordinance.

I have also attached hereto a letter dated October 2, 2024 from Giffels Webster which address all of the comments in the plan review center report of September 18, 2024.

We acknowledge that we will need to obtain a ZBA variance for the loading zone in the front yard and we will be submitting a variance application within the next week to the ZBA.

I have also included herein a color rendering of the site plan to be used for the planning commission presentation.

Please confirm that we will be placed on the October 30, 2024 Planning Commission agenda to seek the necessary approvals.

Please contact me directly if you have any questions regarding this submittal or require any additional information.

Very truly yours,

LANDRY, MAZZEO, DEMBINSKI & STEVENS, P.C.

David B. Landry

DBL/sh

CC via e-mail:

Nancy Standish Dana Knox Kareem Amer David Bruckelmeyer PLANNING REVIEW



PLAN REVIEW CENTER REPORT <u>Planning Review</u>

SHEETZ JSP 23-33 September 18, 2024

PETITIONER

Silken Gold

REVIEW TYPE

2nd Revised Preliminary Site Plan

PROPERTY CHARACTERISTICS

Section	13			
Site Location	39471 Twel	39471 Twelve Mile Road; 22-13-200-016		
Site School	Novi Comr	nunity School District		
Site Zoning	B-3 Genera	al Business District		
	North	OST Office Service Technology		
Adjoining Zoning	East	(Farmington Hills – OS-4 Office Research)		
	West	B-3 General Business District		
	South	OST Office Service Technology		
Current Site Use	BP Gas Sta	tion		
	North	Medical office building		
Adjoining Uses	East	Office Building		
	West	Shelter Bay Animal Hospital		
	South	Vacant		
Site Size	2.34 acres			
Plan Date	July 31, 202	July 31, 2024		

PROJECT SUMMARY

The applicant is proposing to demolish an existing BP gas station at 39471 Twelve Mile Road to construct a new 6,132 square foot convenience store with eight double-sided fueling stations. Existing underground storage tanks will be removed and replaced. Wetland and woodland impacts will require permitting.

RECOMMENDATION

Approval of the Preliminary Site Plan is conditionally recommended based on the applicant being able to satisfactorily address the wetland issue. Currently, Landscape and Wetlands are not recommending approval of the Preliminary Site Plan due to unsupported departures from Ordinance requirements. Planning, Engineering, Woodland, Fire, Façade, and Traffic reviews are recommending approval or conditional of the Preliminary Site Plan.

ORDINANCE REQUIREMENTS

This project was reviewed for compliance with the City of Novi Zoning Ordinance and any other applicable provisions of the ordinance, as noted. The plans show general compliance with ordinance requirements. Please address any items in **bold** with the next review.

- <u>Use Agreement:</u> Review of an existing Use Agreement for the property is currently being conducted. For this parcel, the document states the use "shall be limited to the sale of gasoline, the sale of food and related sundry items, and the operation of an auto wash and accessory uses customarily incidental to the sale of gasoline and the operation of an auto wash, but not including servicing and repair of automobiles." It is determined that the sale of alcohol is considered customarily incidental to the use described in the Use Agreement. The City Attorney concurs that an amendment of the agreement is not warranted by the proposed development.
- 2. <u>Wetland Mitigation (Code of Ordinances, Chapter 12)</u>: The original site plan submittal indicated 0.13 acre of impact to forested wetland, and 0.50 acre of impact to scrub-shrub wetland. Calculations indicated approximately 1.0 acre of wetland mitigation was required, but they were only proposing to construct 0.66 acre. Staff advised the applicant to reduce the wetland impacts as much as possible since the amount of wetland mitigation proposed was deficient by 0.34-acre. The plans have been revised to remove the access drive at the rear of the building and now 0.08 acre of forested wetland and 0.44 acre of shrub-scrub wetland impacts are proposed. This results in a total mitigation requirement of 0.82 acre.

Sheet 14 of the site plan shows off-site wetland mitigation will be proposed as it cannot be accommodated on-site. The plan indicates a parcel to the south, 27629 Haggerty (not adjacent but nearby) will be used in part to construct 29,030 square feet (0.66 acre) of mitigation. The amount of mitigation proposed is deficient by 6,695 square feet (0.15-acre).

The applicant narrative requests that the City allow the lesser mitigation amount, with the condition that all of the mitigation area would be "higher quality wetland replacement i.e., forested wetland" (as opposed to the scrub-shrub type which is primarily what is being impacted on the Sheetz site), as well as the preservation of 4.23 acres of adjacent woodland/wetland in a permanent conservation easement. They would also purchase EGLE wetland bank credits for the remaining 6,695 square feet of mitigation, if authorized by EGLE. Note that EGLE has determined that the wetland present is not regulated according to their criteria.

Since the last review, the applicant has redesigned the site to reduce the wetland impacts proposed. However, they are still deficient in the amount of wetland mitigation required under the terms of the ordinance. This type of departure from the Code of Ordinances would not be able to be approved by the Planning Commission. If the plan does not meet the requirements of the Ordinance, they must deny the wetland permit, and possibly deny the site plan as well since it hinges on the wetland permit to allow the impacts. If denied, the applicant could then appeal the denial to City Council.

Staff has not supported previous variance requests from the Wetland and Watercourse Protection Ordinance in nearly all instances. However, we do acknowledge that the applicant has redesigned the site to lessen the deficiency by more than half (0.15-acre now vs. 0.34 acre previously). The placement of a conservation easement around the wetland mitigation area and surrounding existing woodland and wetland areas (4.23 acres total) would further protect the natural resources in the nearby area. Finally, the purchase of EGLE wetland bank credits has been authorized by Council in certain circumstances. See the applicant's narrative for the justification of their request. Staff encourages the applicant to fully explore the additional locations for wetland mitigation as suggested in the Wetland Review letter prior to the Planning Commission public hearing, as we would prefer the matter be eligible to be approved.

- 3. <u>Woodland Protection (Code of Ordinances, Chapter 37)</u>: The site plan indicates impacts to protected woodland trees on site with 33 trees to be removed, resulting in 84 replacement credits required. To construct the wetland mitigation areas, 27 woodland trees will need to be removed from the off-site property resulting in 62 additional replacement credits required.
- 4. <u>Alcohol Sales (Sec 4.29.2)</u>: The sale of Alcohol is permitted as an accessory use, subject to obtaining a liquor license and the following:
 - a. The applicant or licensee maintains a minimum inventory on the premises, excluding alcoholic and motor vehicle fuel, of not less than \$250,000, at cost, of those goods and services customarily marketed by approved types of businesses
 - b. The site of payment and selection of alcoholic liquor is not less than 50 feet from that point where motor vehicle fuel is dispensed.
 - c. The building from which alcoholic liquor is sold provides not less than 5,000 feet of gross leasable floor area.

The applicant confirms sale of alcohol is proposed and has provided information to verify conformance with each of the above conditions. The applicant indicates no on-premises alcohol consumption is permitted. They will seek a retail tier, off-premises license.

- 5. <u>Outdoor Storage (Sec. 3.10.2.B):</u> "All business, servicing or processing, except for off-street parking, loading/unloading and those outdoor sales uses permitted and regulated in Section 3.1.11.C, shall be conducted within completely enclosed buildings." The plans show the placement of propane outside the building, which is required due to combustibility. The propane will be screened as shown on the plan. The other merchandise (antifreeze/washer fluid, and ice) have been removed.
- 6. <u>Curbing at Building</u>: Section 5.5.3.C.ii.i states that wheel stops or raised curbing shall be installed to prevent vehicles from encroaching into the sidewalk. The sidewalk around the building appears to be flush with the parking lot pavement. The applicant has modified the plans to replace the bollards with bumper blocks.
- 7. Loading Area (Sec. 5.4.2): A loading zone is proposed as required in the B-3 district, but the location is in the front yard, which is not permitted. The applicant has indicated that the location is necessary to be near the underground fuel tanks. <u>A Zoning Board of Appeals variance will need to be requested.</u>
- 8. <u>Noise Impact Statement (Sec. 5.14.10.B)</u>: A noise impact statement has been provided as required. The statement includes modeling of the anticipated noise levels of mechanical equipment, which is shown to comply with both City of Novi and City of Farmington Hills performance standards for noise.
- 9. <u>Signage:</u> Sign permits will need to be applied for through the Code Compliance Division (248.735-5678).
- 10. <u>Photometric Plan (Sec. 5.7)</u>: The photometric plan is not required to go before the Planning Commission for this project, but it will be a requirement for Final Site Plan approval.
- 11. <u>Planning Chart:</u> Please refer to the attached Planning Chart for additional comments to address in the next submittal.

OTHER REVIEWS

a. <u>Engineering Review</u>: Engineering is recommending **approval** of the Preliminary Site Plan and Stormwater Management Plan, with comments to be addressed in the Final Site Plan submittal. (See Engineering Review Letter)

- b. <u>Landscape Review</u>: Landscape is **not recommending approval at this time** as there are several unsupported waivers required for the current layout. (See Landscape Review Letter & Chart)
- c. <u>Wetland Review</u>: Wetlands is **not recommending approval at this time** because wetland mitigation plans do not meet the requirements of the Wetland and Watercourse Protection Ordinance. (See Wetland Review)
- d. <u>Woodland Review</u>: Woodlands is **recommending approval**. (See Woodland Review)
- e. <u>Traffic Review:</u> Traffic is **recommended approval** of the revised Preliminary Site Plan, with comments to be adequately addressed at the time of Final Site Plan submittal (See Traffic Review).
- f. <u>Façade Review:</u> Façade **recommended approval** of the revised Preliminary Site Plan the elevations are in full compliance with the Ordinance. (See Façade Review)
- g. <u>Fire Review:</u> Fire **recommends approval** of the Preliminary Site Plan with comments to be addressed in Final Site Plan.

NEXT STEP: PLANNING COMMISSION AND RESPONSE LETTER

The Preliminary Site Plan, Woodland Permit, Wetland Permit, and Stormwater Management Plan will need approval from the Planning Commission. <u>Although not all reviewers are recommending approval, at this time the applicant wishes to move forward with requesting the necessary waivers and variances</u>. Please provide the following via email **by Tuesday**, **October 22th in order to be on the Wednesday**, **October 30th agenda**:

- 1. Site Plan submittal in PDF format (maximum of 10MB). NO CHANGES MADE. (This has been provided).
- 2. A response letter addressing ALL the comments from ALL the review letters. <u>Please review each of</u> <u>the letters provided and indicate whether changes to the plans will be made to achieve greater</u> <u>compliance with the Ordinance, or if waivers/variances are requested.</u>
- 3. A color rendering of the Site Plan (to be used for Planning Commission presentation).

ZONING BOARD OF APPEALS

Any variances shall be requested from the Zoning Board of Appeals once a Planning Commission meeting has been scheduled. Please submit this <u>application</u> to Community Development Account Clerks to go before the Zoning Board of Appeals. The deadline for Zoning Board of Appeals applications is typically the first of the month for the following month's meeting.

CITY COUNCIL

After the Planning Commission meeting, the applicant may choose to appeal the decision of the Planning Commission to City Council.

FINAL SITE PLAN SUBMITTAL

If the Planning Commission, ZBA and City Council issue the necessary approvals, the applicant can move forward to Final Site Plan review. Please submit the following to begin this step:

- 1. **Six** copies of Final Site Plan sets (<u>24" x 36"</u>, <u>folded</u>) addressing ALL comments from Preliminary Site Plan Review. <u>Please also include a PDF copy.</u>
- 2. Response letter addressing ALL comments from ALL review letters and refer to sheet numbers where the change is reflected.
- 3. Final Site Plan Application
- 4. Final Site Plan Checklist
- 5. <u>No Revision Façade Affidavit</u> (only if no façade changes have been made) if changes are made, include additional plan set
- 6. An itemized engineering cost estimate including sanitary sewer, watermain, storm sewer, paving and grading costs, size 8.5" x 11" (The cost estimate should not include soil erosion or demolition costs.)

JSP23-33 SHEETZ 2nd Revised Preliminary Site Plan Review

- 7. An itemized landscaping cost estimate including greenbelt and greenbelt ornamental trees, perennials, pond plantings, shrubs, edging, mulch, seed mix and seeded lawn, size 8.5" x 11" (The cost estimate should not include woodland trees, replacement trees or mitigation.)
- 8. An Other Agencies Checklist

ELECTRONIC STAMPING SET SUBMITTAL AND RESPONSE LETTER

After receiving Final Site Plan approval, plans addressing the comments in all the staff and consultant review letters should be submitted electronically for informal review and approval prior to printing Stamping Sets. A letter from either the applicant or the applicant's representative addressing comments in this and other review letters and associated charts is to be submitted with the electronic stamping set. This letter should address all comments in ALL letters and ALL charts and refer to sheet numbers where the change is reflected.

If required, drafts for all legal documents with a legal transmittal are to be submitted along with stamping sets.

STAMPING SET APPROVAL

Stamping sets will be required for this project. After having received all the review letters from City staff the applicant should make the appropriate changes on the plans and submit **12 size 24" x 36" copies**, **folded**, **with signature and seal (may be electronic)** to the Community Development Department for final Stamping Set approval.

PRE-CONSTRUCTION MEETING

A Pre-Construction meeting is required for this project. Prior to the start of any work on the site, Pre-Construction (Pre-Con) meetings must be held with the applicant's contractor and the City's consulting engineer. Pre-Con meetings are generally held after Stamping Sets have been issued and prior to the start of any work on the site. There are a variety of requirements, fees and permits that must be issued before a Pre-Con can be scheduled, so it is recommended that you begin working with Sarah Marchioni [248.347.0430 or smarchioni@cityofnovi.org] in the Community Development Department after Final Site Plan approval. If you have questions regarding the checklist or the Pre-Con itself, please contact Sarah.

CHAPTER 26.5

Chapter 26.5 of the City of Novi Code of Ordinances generally requires all projects be completed within two years of the issuance of any starting permit. Please contact Sarah Marchioni at 248.347.0430 for additional information on starting permits. The applicant should review and be aware of the requirements of Chapter 26.5 before starting construction.

If the applicant has any questions concerning the above review or the process in general, do not hesitate to contact me at 248.347.0484 or <u>lbell@cityofnovi.org</u>.

Kundsong Bell

Lindsay Bell, AICP - Senior Planner



PLANNING REVIEW CHART: B-3 General Business District

Review Date:	September 18, 2024
Review Type:	Revised Preliminary Site Plan
Project Name:	JSP23-33 SHEETZ @ HAGGERTY/12 MILE
Plan Date:	July 31, 2024
Prepared by:	Lindsay Bell, Senior Planner
Contact:	E-mail: lbell@cityofnovi.org; Phone: (248) 347-0484

Items in **Bold** need to be addressed prior to the approval of the Preliminary Site Plan.

ltem	Required Code	Proposed	Meets Code	Comments
Zoning and Use R	equirements	•	•	•
Master Plan	Community Commercial	No change to existing zoning	Yes	
Zoning (Effective Dec. 25, 2013)	B-3: General Business District	B-3: General Business District	Yes	
Uses Permitted (Sec 3.1.12.B & C)	Sec 3.1.12.B Principal Uses Permitted.	Fueling Station – 6,132 sf with 8 2-sided pumps	Yes	Permitted Use
Fueling Station Use Standards (Sec 4.29.1)	Permitted use in B-3 subject to conditions:			
	A. Curb cuts shall not create traffic hazards on adjacent streets; entrances shall be minimum of 100 feet from street intersection or residential districts	Existing curb cut on 12 Mile Haggerty curb cut moved further south – meets requirement	Yes	
	B. Minimum 1 acre lot	2.34 acres	Yes	
	C. Fueling stations shall be located to minimize impact on residential, OS-1, OSC	Not adjacent to residential, OS-1 or OSC districts	Yes Yes	
	or B-1 District. Ample space provided for vehicles waiting for service; sufficient vehicle stacking space provided at pump islands so site circulation not impaired	No service proposed Stacking space diagram at pump islands not provided, however it appears adequate space for several vehicles to queue without impeding flow	Yes	

Item	Required Code	Proposed	Meets Code	Comments
	 D. Detached freestanding canopies shall comply with Sec. 4.19 (setback of 15 ft from ROW permitted, no signs placed on canopy_ 	Setback exceeds 15 feet	Yes	
	E. Storage of vehicles overnight prohibited except business vehicles (ex. wreckers)	No service repair proposed, no vehicle storage should be present on site (per notes sheet C5)	Yes	
	F. Noise impact statement required – see Section 5.14.10.B for standards	Provided – modeling shows compliance with Performance Standards	Yes	
	G. Minor auto repair	Not proposed	NA	
Alcohol Sales (Sec. 4.29.2)	 Permitted as accessory use, subject to liquor license and the following: Licensee maintains minimum inventory on the premises, excluding alcoholic liquor and fuel, of not less than \$250,000 of those goods and services customarily marketed by approved types of businesses The site of payment and selection of alcohol is not less than 50 feet from where fuel is dispensed The building of sale provides not less than 5,000 sf of GLA 	Applicant states Section 4.29.2 requirements will be met Letter from Sheetz states standards will be met	Yes	
B-3 Business Distrie	ct Required Conditions (Sec.	3.10)		
Truck Well (Sec. 3.10.1.A)	No truck well, loading dock, overhead door or other type of service bay door shall face a major thoroughfare, nor an abutting residential district	None proposed	NA	
Height, bulk, dens	sity, and area limitations (Sec	3.1.12)		

Item	Required Code	Proposed	Meets Code	Comments
Frontage on a Public Street. (Sec. 5.12)	Frontage on a Public Street is required	Frontage on Haggerty and Twelve Mile	Yes	
Access to Major Thoroughfare (Sec. 5.13)	Direct access to Major Thoroughfare is required unless noted in Section 5.13	Both are major thoroughfares	Yes	
Building Height (Sec. 3.1.12.D)	30 ft	26 ft at tallest point	Yes	
Building Setbacks	(Sec 3.1.12.D)	•		
Front (Twelve Mile)	30 ft.	49 ft	Yes	Yards with street frontage must comply with front
Side (east - Haggerty)	30 ft.	115 ft	Yes	yard setback standards (exterior side yard).
Side (west)	15 ft.	62 ft	Yes	
Rear (south)	20 ft.	99 ft	Yes	
Parking Setback	(Sec 3.1.12.D)			
Front (Twelve Mile)	20 ft.	21 ft	Yes	Yards with street frontage must comply with front yard setback standards (exterior side yard).
Side (east - Haggerty)	20 ft.	29 ft	Yes	
Side (west)	10 ft.	11 ft	Yes	
Rear (south)	10 ft.	69 ft.	Yes	
Note To District Sta	andards (Sec 3.6.2)			
Exterior Side Yard Abutting a Street (Sec 3.6.2.C)	All exterior side yards abutting a street shall be provided with a setback equal to the front yard setback requirement of the district in which located.	See above	Yes	
Minimum Lot Area (Sec. 3.6.2.D)	The minimum lot area and width, and the maximum percent of lot coverage shall be determined on the basis of off-street parking, loading, greenbelt screening, yard setback or usable open space requirements			
Off-Street Parking in Front Yard	Off-street parking shall be permitted in the front yard, except that said parking	Proposed	Yes	

Item	Required Code	Proposed	Meets Code	Comments
(Sec 3.6.2.E)	shall observe the minimum off-street parking setback requirements in Sec. 3.1 and 5.5.3			
Setback from Residential (Sec 3.6.2.L)	Property directly abutting/adjacent to residential zoning shall have minimum setback of 20 feet	Not adjacent to residential	NA	
Wetland/ Watercourse Setback (Sec 3.6.2.M)	25-foot setback from wetland boundary required – see section for details	Wetland buffers are not maintained – pavement within 5 feet of retaining wall adjacent to remaining wetland	No	See Wetland review letter
Parking setback screening (Sec 3.6.2.P)	Required parking setback area shall be landscaped per sec 5.5.3.	Landscape plan is provided		See Landscape Review
Modification of parking setback requirements (Sec 3.6.2.Q)	Refer to Sec 3.6.2 for more details	None proposed	NA	
Site Standards (Se	ection 5.0)			
Fueling station (without service garage) (5.2.12.C.)	1 fueling space for each dispensing pump + 1 space per 200 square feet Usable Floor Area, plus parking for accessory uses. 6132 sf/200 = 31 spaces (+fuel pump spaces)	42 proposed + fuel pump spaces Applicant calculation: 1 per 200 UFA of 4,535 sf Carryout: 1 per 2 employees + 1 per 2 occupants 34/2 = 17 40 spaces required	Yes	
Parking Space Dimensions and Maneuvering Lanes (Sec. 5.3.2)	 90° Parking: 9 ft. x 19 ft. 24 ft. two-way drives 9 ft. x 17 ft. parking spaces allowed along 7 ft. wide interior sidewalks as long as detail indicates a 4" curb at these locations and along landscaping 	19 ft length indicated 35-foot drive aisles	Yes	Impervious surface could be reduced by reducing drive aisle widths – potentially reducing impact to wetland
Parking stall located adjacent to a parking lot entrance (public or private) (Sec. 5.3.13)	Shall not be located closer than twenty-five (25) feet from the street right-of-way (ROW) line, street easement or sidewalk, whichever is closer	exceeds	Yes	

Item	Required Code	Proposed	Meets Code	Comments
End Islands (Sec. 5.3.12)	 End Islands with landscaping and raised curbs are required at the end of all parking bays that abut traffic circulation aisles. The end islands shall generally be at least 8 feet wide, have an outside radius of 15 feet, and be constructed 3' shorter than the adjacent parking stall as illustrated in the Zoning Ordinance 			Refer to Traffic and Landscape reviews for further comments
Barrier Free Spaces Barrier Free Code (2012 Michigan Building Code)	- Every 6 or fraction of six accessible parking spaces, at least one shall be van-accessible	2 barrier-free spaces proposed	Yes	
Barrier Free Space Dimensions Barrier Free Code (2012 Michigan Building Code)	 8' wide with an 8' wide access aisle for van accessible spaces 8' wide with a 5' wide access aisle for regular accessible spaces 	2 van accessible (10 ft space with 8 ft access aisle)	Yes	
Barrier Free Signs Barrier Free Code	One sign for each accessible parking space.	Indicated	Yes	
Minimum number of Bicycle Parking (Sec. 5.16.1)	Minimum 2 spaces	2 bike spaces indicated	Yes	
Bicycle Parking General requirements (Sec. 5.16)	 No farther than 120 ft. from the entrance being served When 4 or more spaces are required for a building with multiple entrances, the spaces shall be provided in multiple locations Spaces to be paved and the bike rack shall be inverted "U" design Shall be accessible via 6 ft. paved sidewalk 	100 feet from entrance Bike rack detail provided Accessed by 6' sidewalk	Yes	

Item	Required Code	Proposed	Meets Code	Comments
Bicycle Parking Lot layout (Sec 5.16.6)	Parking space width: 7 ft. One tier width: 11 ft. Two tier width: 18 ft. Maneuvering lane width: 4 ft.	Provided	Yes	
Loading Spaces (Sec. 5.4.2)	 Parking space depth: 32 in Loading, unloading space shall be provided in the rear yard at a ratio of 10 sq. ft. for each front foot of building Except in the case of a double frontage lot, loading-unloading, as well as trash receptacles may be located in an interior side yard beyond the minimum side yard setback requirement of the district; location subject to approval by the City. 	Loading zoning shown in front yard 80x15 ft shown (1,200 sf)	No	Loading size exceeds required (960sf) Location of loading zone will require variance
Dumpster (Sec 4.19.2.F)	 Located in rear yard or interior side yard in case of double frontage Attached to the building OR No closer than 10 ft. from building if not attached Not located in parking setback If no setback, then it cannot be any closer than 10 ft, from property line. Away from Barrier free Spaces 	Interior side yard.	Yes	
Dumpster Enclosure (Sec. 21-145. (c))	 Screened from public view A wall or fence 1 ft. higher than height of refuse bin And no less than 5 ft. on three sides Posts or bumpers to protect the screening Hard surface pad. Screening Materials: Masonry, wood or evergreen shrubbery 	7 ft 4 in Brick enclosure to match building	Yes	

Item	Required Code	Proposed	Meets Code	Comments
Lighting and Othe	r Equipment Requirements			
Accessory Structures (Sec. 4.19)	Flagpoles shall not be located closer to public ROW than ½ the distance between the ROW and the principal building	Flagpole indicated near NW corner of the building Retaining wall (4-5 ft height) on south side of property, approx. 300 ft length, topped with handrail/fence	Yes	Indicate height of flagpole These structures will require building permits
Roof top equipment and wall mounted utility equipment (Sec. 4.19.2.E.ii)	 All roof top equipment must be screened, and all wall mounted utility equipment must be enclosed and integrated into the design and color of the building 			See Façade review
Roof top appurtenances screening	Roof top appurtenances shall be screened in accordance with applicable facade regulations, and shall not be visible from any street, road, or adjacent property			See Façade review
Noise Specifications (Sec. 5.14.10.A)	Site proposals must comply with the standards of the noise ordinance.	Noise impact statement provided	Yes	
Sidewalk Requirer	nents			
Sidewalks (Sec. 7.4.2 of the Engineering Design Manual)	 6-foot sidewalk required along Haggerty 	6-foot sidewalk shown	Yes	
Pedestrian Connectivity	Whether the traffic circulation features within the site and location of automobile parking areas are designed to assure safety and convenience of both vehicular and pedestrian traffic both within the site and in relation to access streets	Sidewalk provided from building to Haggerty	Yes	

Item	Required Code	Proposed	Meets Code	Comments
Design and Construction Standards Manual	Land description, Sidwell number (metes and bounds for acreage parcel, lot number(s), Liber, and page for subdivisions).	Provided on Sheet 2	Yes	
General layout and dimension of proposed physical improvements	Location of all existing and proposed buildings, proposed building heights, building layouts, (floor area in sq. ft.), location of proposed parking and parking layout, streets, and drives, and indicate sq. ft. of pavement area (indicate public or private).			See this and other review letters for missing information
Economic Impact	 Total cost of the proposed building & site improvements Number of anticipated jobs created (during construction & after building is occupied) 	\$9.65M project; 65 construction jobs; 35 full time Sheetz store employees		
Other Permits and	Approvals			
Development/ Business Sign	Signage if proposed requires a permit.	A monument sign is shown west of the entrance on 12 Mile (no detail found in Arch sheets)		For sign permit information contact Ordinance Enforcement Division 248- 735-5678.
Development and Street Names	Development and street names must be approved by the Street Naming Committee before Preliminary Site Plan approval	Project name does not require approval.	NA	
Property Split	The proposed property split must be submitted to the Assessing Department for approval.	A split or combination is not proposed.	NA	
Other Legal Requi	irements			

Item	Required Code	Proposed	Meets Code	Comments
Conservation Easements	Conservation easements may be required for woodland impacts/wetland mitigation	Conservation easement proposed for off-site mitigation area, plus additional existing woodland if City agrees. Letter from property owner stating they agree to provide the conservation easement will be required	TBD	Will be required for off-site wetland mitigation
Lighting and Photo	ometric Plan (Sec. 5.7)			
Intent (Sec. 5.7.1)	Establish appropriate minimum levels, prevent unnecessary glare, reduce spillover onto adjacent properties & reduce unnecessary transmission of light into the night sky			Provide at the time of Final Site Plan submittal
Lighting Plan (Sec. 5.7.A.1)	Site plan showing location of all existing & proposed buildings, landscaping, streets, drives, parking areas & exterior lighting fixtures			
Building Lighting (Sec. 5.7.2.A.iii)	Relevant building elevation drawings showing all fixtures, the portions of the walls to be illuminated, illuminance levels of walls and the aiming points of any remote fixtures.			
Lighting Plan (Sec.5.7.2A.ii)	Specifications for all proposed & existing lighting fixtures			
	Photometric data			
	Fixture height			
	Mounting & design			
	Glare control devices			
	Type & color rendition of lamps			
	Hours of operation			
Maximum height when abutting residential districts	Height not to exceed maximum height of zoning district (or 25 ft. where			

Item	Required Code	Proposed	Meets Code	Comments
(Sec. 5.7.3.A)	adjacent to residential districts or uses)			
Standard Notes (Sec. 5.7.3.B)	 Electrical service to light fixtures shall be placed underground Flashing light shall not be permitted Only necessary lighting for security purposes & limited operations shall be permitted after a site's hours of operation 			
Indoor Lighting (Sec. 5.7.3.H)	Indoor lighting shall not be the source of exterior glare or spillover		TBD	
Security Lighting (Sec. 5.7.3.1) Lighting for security purposes shall be directed only onto the area to be secured.	 All fixtures shall be located, shielded and aimed at the areas to be secured. Fixtures mounted on the building and designed to illuminate the facade are preferred 		TBD	
Color Spectrum Management (Sec. 5.7.3.F)	Non-Res and Multifamily: For all permanent lighting installations - minimum Color Rendering Index of 70 and Correlated Color Temperature of no greater than 3000 Kelvin		TBD	
Parking Lot Lighting (Sec. 5.7.3.J)	 Provide the minimum illumination necessary to ensure adequate vision and comfort. Full cut-off fixtures shall be used to prevent glare and spillover. 		TBD	
Min. Illumination	Parking areas: 0.2 min			Provide line items in
(Sec. 5.7.3.k)	Loading & unloading areas: 0.4 min			statistics chart that show each of these areas with data
	Walkways: 0.2 min			
	Building entrances, frequent use: 1.0 min			

Item	Required Code	Proposed	Meets Code	Comments
	Building entrances, infrequent use: 0.2 min			
Average Light Level (Sec.5.7.3.L)	Average light level of the surface being lit to the lowest light of the surface being lit shall not exceed 4:1		TBD	
Max. Illumination adjacent to Non- Residential (Sec. 5.7.3.K)	When site abuts a non- residential district: - Maximum illumination at the property line shall not exceed 1 foot candle.		TBD	
Cut off Angles (Sec. 5.7.3.L)	 When adjacent to residential districts: All cut off angles of fixtures must be 90°. Maximum illumination at the property line shall not exceed 0.5 foot candle. 		NA	

NOTES:

1. This table is a working summary chart and not intended to substitute for any Ordinance or City of Novi requirements or standards.

2. The section of the applicable ordinance or standard is indicated in parenthesis. Please refer to those sections in Article 3, 4, and 5 of the zoning ordinance for further details

3. Please include a written response to any points requiring clarification or for any corresponding site plan modifications to the City of Novi Planning Department with future submittals.

ENGINEERING REVIEW



PLAN REVIEW CENTER REPORT

9/19/2024

Engineering Review

Sheetz JSP23-0033

APPLICANT

Skilken Gold

REVIEW TYPE

2nd Revised Preliminary Site Plan

PROPERTY CHARACTERISTICS

- Site Location:
 - Located south of Twelve Mile Road west of Haggerty Road Site Size: 2.34 acres
- Plan Date: 7/31/2024
- **Giffels Webster** Design Engineer:

PROJECT SUMMARY

- Construction of an approximately 6,132 square-foot gas station and associated parking. Site access would be provided via 12 Mile Road and Haggerty Road.
- Water service would be provided by extension from the existing 12-inch water main along the south side of Twelve Mile Road. A 2-inch domestic lead is proposed along with one hydrant.
- Sanitary sewer service would be provided by an extension from the existing 18-inch sanitary sewer along the south side of 12 Mile Road. A 6-inch lead is proposed to serve the building, along with a monitoring manhole.
- Storm water would be collected by a single storm sewer collection system and discharged to an underground detention system.

RECOMMENDATION

Approval of the 2nd Revised Preliminary Site Plan and Preliminary Storm Water Management Plan is recommended. Approval of the Storm Water Management Plan is recommended.

Comments:

The 2nd Revised Preliminary Site Plan meets the general requirements of the design and construction standards as set forth in Chapter 11 of the City of Novi Code of Ordinances,

the Storm Water Management Ordinance and the <u>Engineering Design Manual</u> with the following items to be addressed at the time of Final Site Plan submittal:

<u>General</u>

- 1. Provide at least two reference benchmarks at intervals no greater than 1,200 feet. At least one referenced benchmark must be a City-established benchmark, refer to <u>City of Novi Survey Benchmarks Arch Map</u>. Closest city benchmark 1243, power pole located northwest quad of intersection 12 Mile Road and Haggerty Road, approx. 20 feet northwest of back of curb.
- 2. **Only at the time of the printed Stamping Set submittal**, provide the City's standard detail sheets for water main (5 sheets), sanitary sewer (3 sheets), storm sewer (2 sheets), paving (2 sheets). The most updated details can be found on the City's website under <u>Engineering Standards and Construction Details</u>.
- 3. A <u>Right-of-Way Permit</u> will be required from the City of Novi and Oakland County. A copy of the approve RCOC permit will be required prior to per-con meeting. A copy of the Buckeye approval will be required prior to the pre-con meeting.
- 4. Applicant should clarify if an existing easement is provided for the connection to the property to the west, if no easement exists provide an easement for this connection.
- 5. Show site distance triangle for Haggerty Road and 12 Mile Road entrances in accordance with Figure VIII-E of the <u>Design and Construction Standards</u>, <u>Chapter 11 of the City of Novi Code of Ordinances</u>.
- 6. Provide a traffic control sign table listing the quantities of each *permanent* sign type proposed for the development. Provide a note along with the table stating all traffic signage will comply with the current MMUTCD standards. Traffic signs in the Road Commission for Oakland County (RCOC) right-of-way will be installed by RCOC.
- 7. Provide a traffic control plan for the proposed road work activity on Haggerty and 12 Mile Road. This will be needed at time of final site plan submittal.
- 8. Provide a note that compacted sand backfill (MDOT sand Class II) shall be provided for all utilities within the influence of paved areas; illustrate and label on the profiles.
- 9. Provide a construction materials table on the utility plan listing the quantity and material type for each utility (water, sanitary and storm) being proposed.
- 10. Provide a utility crossing table indicating that at least 18-inch vertical clearance will be provided, or that additional bedding measures will be utilized at points of conflict where adequate clearance cannot be maintained.
- 11. Provide a note stating if dewatering is anticipated or encountered during construction, then a dewatering plan must be submitted to the Engineering Division for review.
- 12. Generally, all proposed trees shall remain outside utility easements. Where proposed trees are required within a utility easement, the trees shall maintain a minimum 5-foot horizontal separation from water main and storm sewer and 10-

foot horizontal separation from sanitary sewer. <u>All utilities shall be shown on the</u> <u>landscape plan</u>, or other appropriate sheet, to confirm the separation distance.

- 13. Show the locations of all light poles on the utility plan and indicate the typical foundation depth for the pole to verify that no conflicts with utilities will occur. Light poles in a utility easement will require a License Agreement.
- 14. The grading and SESC sheets shall show the tree fence at least as far from the trunk as the critical root zone, defined as a circular area around a tree with a radius measured to the tree's longest dripline radius plus one (1) foot. No grading shall occur within the dripline. If the critical root zone is not fully protected, then replacements for that tree may be required.
- 15. Soil erosion and demo sheets should show silt fence locations. Soil erosion plans should clearly label construction entrance.

Water Main

- 16. Proposed hydrant should be facing the drive aisle, towards the east.
- 17. Water Systems must have the ability to serve at least <u>two thousand (2,000)</u> <u>gallons</u> per minute in single-family detached residential; <u>three thousand</u> <u>(3,000)</u> <u>gallons</u> per minute in apartment, cluster residential and similar complexes, institutional and school areas; and at least <u>four thousand (4,000)</u> <u>gallons</u> per minute in office, industrial and shopping centers is essential.
- 18. Per current EGLE requirement, provide a profile for all proposed water main 8inch and larger.
- 19. Provide a separate domestic lead and, if required by the Fire Marshal, a minimum 6-inch fire lead for each building with a unique shut-off valve for each.
- 20. 6-inch hydrant leads are allowed for leads less than or equal to 25 feet in length.
 8-inch leads are required for leads greater than 25 feet in length.
- 21. All gate values 6" or larger shall be placed in a well with the exception of a hydrant shut off value. A value shall be placed in a box for water main smaller than 6".
- 22. In the general notes and on the profile, add the following note: "Per the Ten States Standards Article 8.8.3, one full 20-foot pipe length of water main shall be used whenever storm sewer or sanitary sewer is crossed, and the pipe shall be centered on the crossing, in order to ensure 10-foot separation between water main and sewers." Additionally, show the 20-foot pipe lengths on the profile.
- 23. Check EGLE RIDE Mapper for on-site contamination information: https://www.michigan.gov/egle/maps-data/ride-mapper. EGLE mapper shows Part 211 permit on this site at one point, side ID 00037495. Please review these documents prior to filling out EGLE watermain application. EGLE will ask information about site contamination (they have requested the following information for other contaminated sites):
 - Estimated contaminant location(s) must be shown and labeled on the plans.
 - Provide a summary of the contaminant's nature and extent and include other relevant information.

- The water system design must mitigate potential risks from contamination.
- 24. A sealed set of utility plans along with the <u>Michigan Department of Environment</u>, <u>Great Lakes & Energy (EGLE) permit application</u> for water main construction, the <u>Streamlined Water Main Permit Checklist</u>, <u>Contaminated Site Evaluation</u> <u>Checklist</u>, and an electronic version of the utility plan should be submitted to the Engineering Division for review, assuming no further design changes are anticipated. Utility plan sets shall include only the cover sheet, any applicable utility sheets, and the standard detail sheets.

Irrigation Comments

25. Indicate if irrigation is proposed on-site, cross-connection specialist will need to review plans prior to stamping set approval.

Sanitary Sewer

- 26. Provide a sanitary sewer monitoring manhole, unique to this site, within a dedicated access easement or within the road right-of-way. If not in the right-of-way, provide a 20-foot-wide access easement to the monitoring manhole from the right-of-way.
- 27. Provide a sanitary sewer basis of design for the development on the utility plan sheet. (Calculations should use peaking factor of 4.0 and 3.2 People/REU, peaking factor of 4.0 is only for sanitary not for water main).
- 28. Note on the construction materials table that 6-inch sanitary leads shall be a minimum SDR 23.5, and mains shall be SDR 26.
- 29. Provide a note on the Utility Plan and sanitary profile stating the sanitary leads will be buried at least 5 feet deep where under the influence of pavement.
- 30. Illustrate all pipes intersecting with manholes on the sanitary profiles.
- 31. Three (3) sealed sets of revised utility plans along with the <u>Michigan Department</u> of <u>Environment</u>, <u>Great Lakes & Energy (EGLE) permit application</u>, electronic utility plan for sanitary sewer construction, and the Streamlined Sanitary Sewer Permit Certification Checklist should be submitted to the Engineering Division for review, assuming no further design changes are anticipated. Utility plan sets shall include only the cover sheet, any applicable utility sheets, and the standard detail sheets. It should be indicated with the application if an expedited EGLE review is requested. EGLE will charge a fee that can be paid directly to the State.

Storm Sewer

- 32. A minimum cover depth of 3 feet shall be maintained over all proposed storm sewer. Currently, a few pipe sections do not meet this standard. Grades shall be elevated, and minimum pipe slopes shall be used to maximize the cover depth.
- 33. Provide a 0.1-foot drop in the downstream invert of all storm structures where a change in direction of 30 degrees or greater occurs.
- 34. Match the 0.80 diameter depth above invert for pipe size increases.

- 35. Storm manholes with differences in invert elevations exceeding two feet shall contain a 2-foot-deep plunge pool.
- 36. Provide a four-foot-deep sump and an oil/gas separator in the last storm structure prior to discharge off- site/to the storm water basin.
- 37. Provide profiles for all storm sewer 12-inch and larger. All storm pipes accepting surface drainage shall be 12-inch or larger. This does not include roof drains.
- 38. Label the 10-year HGL on the storm sewer profiles and ensure the HGL remains at least 1-foot below the rim of each structure.
- 39. Illustrate all pipes intersecting storm structures on the storm profiles.
- 40. Provide a schedule listing the casting type, rim elevation, diameter, and invert sizes/elevations for each proposed, adjusted, or modified storm structure on the utility plan. Round castings shall be provided on all catch basins except curb inlet structures.
- 41. Show and label all roof conductors and show where they tie into the storm sewer.
- 42. Provide storm sewer design table.

Storm Water Management Plan

- 43. The Storm Water Management Plan (SWMP) for this development shall be designed in accordance with the Storm Water Ordinance and Chapter 5 of the <u>Engineering Design Manual</u>.
- 44. Time of Concentration should be a minimum of 10 min for site that are less than 5 acres.
- 45. As part of the Storm Drainage Facility Maintenance Easement Agreement, provide an access easement for maintenance over the storm water detention system and the pretreatment structure. Also, include an access easement to the detention area from the public road right-of-way.
- 46. Provide manufacturer's details and sizing calculations for the pretreatment structure(s) on the plans. Provide drainage area and runoff coefficient calculations specific to the area tributary to each treatment structure. The treated flow rate should be based on the 1-year storm event intensity (~1.6 In/Hr).

Underground Storage:

- 47. Provide the overland routing that would occur in the event the underground system cannot accept flow. This route shall be directed to a recognized drainage course or drainage system.
- 48. Provide an underdrain along the downstream side of the underground detention system which is tied into a manhole as a means of secondary storm water conveyance to the outlet.
- 49. Provide a table or note addressing the required bedding depth vs. bearing capacity of the underlying soils in the vicinity of the underground detention system per the manufacturer's specifications.

- 50. Provide a note on the plans stating the City's inspecting engineers shall verify the bearing capacity of the native soils to verify an adequate bedding depth is provided.
- 51. Provide a note on the underground detention detail that aggregate porosity will be tested, and results provided to the City's inspecting engineers.
- 52. Provide an isolator row in the underground detention system in addition to the swirl concentrator chamber. Contact the Engineering Division for further information.
- 53. Provide inspection ports throughout the underground detention system at the midpoint of all storage rows. Additional inspection ports may be required for systems larger than 200 feet. One inspection port every 50 feet for isolator row.
- 54. Inspection ports shall be a minimum of 8-inches.
- 55. For piped/chamber systems the underground storage system shall include 4foot diameter manholes at one end of each row for maintenance access purposes.
- 56. In order to prevent scouring (per Table 4 of StormTech manual), do not exceed the maximum inlet flow rates.

Paving & Grading

- 57. Provide a construction materials table on the Paving Plan listing the quantity and material type for each pavement cross-section being proposed.
- 58. Provide a minimum of 6 spot elevations where the pathway crosses each driveway (one at each corner and two in the center of the driveway on each side of the pathway). Spot elevations shall be provided to demonstrate a level landing adjacent to each side of the pathway crossing.
- 59. No more than ¼" vertical obstacle shall be allowed at each transition between the pathway and the drive approach.
- 60. Revise Dumpster Pad details to meet city standards, 8" concrete on 8" 21 AA aggregate base. Note: Dumpster pad shall extend minimum 10' beyond dumpster enclosure.
- 61. Add the maximum 2-percent cross-slope to the sidewalk detail.
- 62. Provide spot elevations at the intersection of the proposed pathway with the existing pathway.
- 63. Verify the slopes along the ingress/egress routing to the building from the barrierfree stalls. All barrier-free stalls shall comply with Michigan Barrier-Free regulations.
- 64. Provide existing and proposed contours on the Grading Plan at the time of the Final Site Plan submittal.
- 65. Provide a note on the Grading Plan stating that the proposed pathway within the road right-of-way shall match existing grades at both ends.
- 66. Provide at least 3-foot of buffer distance between the sidewalk and any fixed objects, including hydrants and irrigation backflow devices. Include a note on the plan where the 3-foot separation cannot be provided.

- 67. Site grading shall be limited to 1V:4H (25-percent), excluding landscaping berms. Numerous areas appear to exceed this standard.
- 68. The grade of the drive approach shall not exceed 2-percent within the first 25 feet of the intersection.
- 69. The sidewalk within the right-of-way shall continue through the drive approach. If like materials are used for each, the sidewalk shall be striped through the approach. The sidewalk shall be increased along the crossing or match the proposed cross-section if the approach is concrete.
- 70. Per MDOT Special Provision for Crushed Concrete; the use of crushed concrete is prohibited on the project within 100 feet of any water course (stream, river, county drain, etc.) and lake, regardless of the application of location of the water course or lake relative to the project limits. Add note to use 21AA crushed limestone base for any pavement within 100 feet of a water course.
- 71. Revise the on-site road cross-section to 1.5 inches of MDOT 5E1 on 2.5 inches of MDOT 3C on 8 inches of 21AA [limestone only if within 100 feet of a watercourse] aggregate base.
- 72. Provide additional spot grades as necessary to demonstrate that a minimum 5percent slope away from the building is provided for a minimum distance of ten feet around the perimeter of the building.
- 73. The City standard straight-faced curb (MDOT F-4 curb detail) shall be provided. Remove detail and attach City standard paving details.
- 74. Provide top of curb/walk and pavement/gutter grades to indicate height of curb adjacent to parking stalls or drive areas.
- 75. Dimensions of parking stalls abutting a curb or sidewalk are to the face of curb or walk. All other dimensions are to back of curb unless otherwise indicated.
- 76. Sheets shall be signed and sealed by the design engineer responsible for the proposed retaining wall design and all associated calculations. Retaining walls that are 48-inches or larger shall need a permit from Building Department.

Soil Erosion and Sediment Control

77. A SESC permit is required. A full review has not been completed at this time. A review will be done when a completed packet is submitted to Sarah Marchioni at Community Development.

Off-Site Easements

78. Indicate if any off-site easements are anticipated for sanitary sewer extension or for parking lot connection to adjacent property.

The following must be submitted with the Final Site Plan:

- 79. A letter from either the applicant or the applicant's engineer must be submitted with the Stamping Set highlighting the changes made to the plans addressing each of the comments listed above <u>and indicating the revised sheets involved</u>. Additionally, a statement must be provided stating that all changes to the plan have been discussed in the applicant's response letter.
- 80. An itemized construction cost estimate must be submitted to the Community Development Department for the determination of plan review and construction inspection fees. This estimate should only include the civil site work and not any costs associated with construction of the building or any demolition work. <u>The estimate must be itemized</u> for each utility (water, sanitary, storm sewer), on-site paving (square yardage, should include number do detectable warning plates), right-of-way paving (including proposed right-of-way), grading, and the storm water basin (basin construction, control structure, pre-treatment structure and restoration).

The following must be submitted with the Stamping Set:

The following is a list of possible legal documents that will be required, legal review transmittal will be provided with final site plan review letter.

- 81. A draft copy of the <u>Storm Drainage Facility Maintenance Easement Agreement</u> (<u>SDFMEA</u>), as outlined in the Storm Water Management Ordinance, must be submitted to the Community Development Department. Once the agreement is approved by the City's Legal Counsel, this agreement will then be sent to City Council for approval/acceptance. The SDFMEA will then be recorded at the office of the Oakland County Register of Deeds. This document is available on our website.
- 82. A draft copy of the <u>Cross-Access Easement</u> for the connection to the existing parking lot to the **(east/west/south/north)** must be submitted to the Community Development Department.
- 83. A draft copy of the 20-foot-wide <u>Watermain System Easement</u> onsite must be submitted to the Community Development Department.
- 84. A draft copy of the 20-foot-wide <u>Sanitary Sewer Monitoring Manhole Access</u> <u>Easement</u> onsite must be submitted to the Community Development Department.

The following must be addressed prior to construction:

- 85. A pre-construction meeting shall be required prior to any site work being started. Please contact Sarah Marchioni in the Community Development Department to setup a meeting (248-347-0430). Be advised that scheduling the pre-construction meeting can take 2-4 weeks.
- 86. A City of Novi Grading Permit will be required prior to any grading on the site. This permit will be issued at the pre-construction meeting (no application required). No fee is required for this permit.

- 87. Material certifications must be submitted to Spalding DeDecker for review prior to the construction of any onsite utilities. Contact Ted Meadows at 248-844-5400 for more information.
- 88. Construction inspection fees in the amount of **\$TBD** must be paid to the Community Development Department. ****fees are subject to change.**
- 89. Off-Site Legal exhibit review fees in the amount of **\$TBD** must be paid to the Community Development Department. **(ONLY FOR OFF-SITE DOCUMENTS)**
- 90. Legal escrow fees in the amount of **\$TBD** must be deposited with the Community Development Department. All unused escrow will be returned to the payee at the end of the project (except for escrows that are \$50 or less). This amount includes engineering legal fees only. There may be additional legal fees for planning legal documents. ****fees are subject to change.**
- 91. Legal fees for off-site easements should be paid as soon as possible so that documents can be approved.
- 92. A storm water performance guarantee in the amount of **\$TBD** (Equal to 120% of the cost required to complete the storm water management facilities) as specified in the Storm Water Management Ordinance must be posted at the Community Development Department.
- 93. Water and Sanitary Sewer Fees must be paid prior to the pre-construction meeting. Contact the Treasury Department at 248-347-0498 to determine the amount of these fees.
- 94. A street sign financial guarantee in the amount of **\$TBD** (\$400 per traffic control sign proposed) must be posted at the Community Development Department. Signs must be installed in accordance with MMUTCD standards.
- 95. A traffic control inspection fee of **\$TBD** must be paid to Community Development. This fee is the inspection of traffic control items such as signs, striping, curbs, parking stalls, sidewalk, detectable warning surfaces, and temporary pavement markings.
- 96. A <u>Soil Erosion Control Permit</u> must be obtained from the City of Novi. Contact Sarah Marchioni in the Community Development Department, Building Division (248-347-0430) for forms and information. The financial guarantee and inspection fees will be determined during the SESC review.
- 97. A permit for all proposed work activities within the road right-of-way must be obtained from the City of Novi. This application is available from the City Engineering Division or on the city website (Right-of-Way Permit Application) and can be filed once the Final Site Plan has been submitted. Please contact the Engineering Division at 248-347-0454 for further information. Please submit the cover sheet, standard details, and plan sheets applicable to the permit only.

- 98. A permit for work within the road right-of-way of **Haggerty Road and 12 Mile Road** must be obtained from the Road Commission for Oakland County (RCOC). Please contact the RCOC (248-858-4835) directly with any questions. The applicant must forward a copy of this permit to the city. Provide a note on the plans indicating all work within the road right-of-way will be constructed in accordance with the RCOC standards. **Be advised that review by the RCOC may take four weeks or longer.**
- 99. An <u>Act 399 Permit for Community Water Supply Systems</u> for water main construction must be obtained from EGLE. This permit application must be submitted through the Engineering Division after the water main plans have been approved. Please submit the cover sheet, overall utility sheet, standard details, and plan/profile sheets applicable to the permit.
- 100. A Part 41 Permit For Wastewater Systems for sanitary sewer construction must be obtained from EGLE. This permit application must be submitted through the Engineering Division after the sanitary sewer plans have been approved. Please submit the cover sheet, overall utility sheet, standard details and plan/profile sheets applicable to the permit. Be aware that approval by both (1) Oakland County Water Resources Commissioner (OCWRC) and (2) Wayne County Department of Public Services (WCDPS) are required prior to submittal to EGLE.
- 101. An inspection permit for the sanitary sewer tap must be obtained from the Oakland County Water Resources Commissioner (OCWRC).
- 102. Permits for the construction of each retaining wall exceeding 48 inches in height (measured from bottom of the footing to top of the wall) must be obtained from the Community Development Department (248-347-0415).

To the extent this review letter addresses items and requirements that require the approval of or a permit from an agency or entity other than the City, this review shall not be considered an indication or statement that such approvals or permits will be issued.

Please contact Humna Anjum at (248)735-5632 or email at <u>hanjum@cityofnovi.org</u> with any questions.

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Humna Anjum, Project Engineer

cc: Lindsay Bell, Community Development Diana Shanahan, Community Development Ben Nelson, Engineering Ben Croy, City Engineer LANDSCAPE REVIEW



PLAN REVIEW CENTER REPORT September 16, 2024 <u>Sheetz</u> Second Revised Preliminary Site Plan - Landscaping

<u>Review Type</u> Second Revised Preliminary Site Plan Landscape Review Job # JSP23-0033

Property Characteristics

- Site Location:
- Site Acreage:
- Site Zoning:
- Adjacent Zoning:

2.34 ac. B-3 North, South: OST, East: Farmington Hills Office, West: B-3 7/31/2024

Plan Date:

Ordinance Considerations

This project was reviewed for conformance with Chapter 37: Woodland Protection, Zoning Article 5.5 Landscape Standards, the Landscape Design Manual and any other applicable provisions of the Zoning Ordinance. Items in **bold** below must be addressed and incorporated as part of the revised Preliminary Site Plan submittal. Underlined items must be addressed on the Final Site Plans. Please follow guidelines of the Zoning Ordinance and Landscape Design Guidelines. This review and the accompanying Landscape Chart are summaries and are not intended to substitute for any Ordinance. Please address the comments on both reviews.

RECOMMENDATION:

This project is **not recommended for approval**. There are still deficiencies in landscaping provided that are not supported by staff.

39471 Twelve Mile Road

LANDSCAPE WAIVERS REQUIRED BY PROPOSED PLAN:

- Lack of greenbelt berm along 12 Mile Road -supported by staff
- No street trees along Haggerty Road supported by staff due to utility conflicts.
- Deficiency of interior parking lot trees not supported by staff
- Deficiency in accessway perimeter trees partially supported by staff see below
- Deficiency in foundation landscaping at the building supported by staff

PLEASE REVISE THE LAYOUT AND LANDSCAPING TO ELIMINATE OR REDUCE THE ABOVE UNSUPPORTED LANDSCAPE WAIVERS.

Ordinance Considerations

Existing Trees (Sec 37 Woodland Protection, Preliminary Site Plan checklist #17 and LDM 2.3 (2))

- 1. Tree survey is provided.
- 2. Wetland survey is provided.
- 3. A conceptual wetland mitigation plan is provided but no planting plans are shown.
- 4. No plans showing the required wetland mitigation plantings are provided. Please provide them.
- 5. Please work to save the large trees in the wetland mitigation area.
- 6. See the Merjent letter for detailed discussions of the woodland and wetland impacts.

Adjacent to Residential - Buffer (Zoning Sec. 5.5.3.B.ii and iii)

The site is not adjacent to residential so this buffering is not required.

Adjacent to Public Rights-of-Way - Berm/Wall, Buffer and Street Trees (Zoning Sec. 5.5.3.B.ii, iii)

- 1. The required berm is provided along Haggerty Road, but not along 12 Mile Road. This requires a landscape waiver. It is supported by staff because the proposed hedge has been extended to the berm.
- 2. The required greenbelt canopy trees, subcanopy trees and shrubs are provided.
- 3. The required street trees are provided along Twelve Mile Road with more subcanopy trees but not along Haggerty Road due to utility conflicts. **This requires a landscape waiver.** It is supported by staff.

Parking Lot Landscaping (Zoning Sec. 5.5.3.C.)

- 1. The required interior landscape area is provided
- 2. The site is still quite deficient in interior canopy trees. This requires a landscape waiver. It is not supported by staff. Please provide all of the required trees.
- 3. The required parking lot perimeter trees are not provided along the greenbelt sides of the site. The deficiency could easily be removed by moving 5 of the greenbelt canopy trees to within 15 feet of the parking lot, where they could double-count as parking lot perimeter trees and greenbelt canopy trees. The deficiency in parking lot perimeter trees requires a landscape waiver. It would not be supported by staff. Please reposition the canopy trees to remove the necessity for a waiver.
- 4. A landscape waiver is required for the deficiency in accessway perimeter trees along the north and south entrances. A lack of 3 of 4 required trees along the south side of the reconfigured drive would be supported by staff, but a tree should be added to both sides of that drive, and 2 more accessway perimeter trees should be added along the north access drives.

Building Foundation Landscaping (Zoning Sec 5.5.3.D)

- 1. The required area is provided, but approximately 25% of the area provided is away from the building. This requires a landscape waiver. It would be supported by staff as most of the required area is at the building, and the remaining area would enhance the appearance of the rest of the site.
- 2. The percentages of frontage landscaping for the both the east and north sides of the building meet or exceed the required 60% of frontage.

Loading Zone screening (Zoning Section 5.4.2)

- 1. The required screening for the loading zone is provided by the greenbelt landscaping and an evergreen hedge.
- 2. This is accepted by staff, as long as the hedge is maintained at 6 feet in height to screen most of the truck when it is unloading fuel. **Please add a note to this effect to the plan.**

<u> Plant List (LDM 4, 10)</u>

- 1. 9 of 19 species used (47%) are native to Michigan. This is not acceptable. <u>Please revise</u> the plant list to use species native to Michigan for no less than 50% of the species used.
- The quantities of serviceberries and Kousa dogwoods exceed the limitations of LDM 4. Tree counts for a single species may only account for 15% or less of the total number of trees planted. <u>Please reduce the number of Kousa dogwoods and serviceberries and</u> add other species in their place and/or increase the number of flowering crabapples used.

Planting Notations and Details (LDM 10)

- 1. Provided
- 2. Please add a tree protection fence detail to the Demolition Plan.

Storm Basin Landscape (Zoning Sec 5.5.3.E.iv and LDM 3)

- 1. Underground detention is proposed. If that is approved by engineering, no detention basin landscaping is required.
- 2. If above-ground detention is required, detention basin landscaping will also be required.

Irrigation (LDM 10)

- 1. If an irrigation system is used, a plan for it must be provided with Final Site Plans.
- 2. <u>If alternative means of providing water to the plants for their establishment and long-term</u> <u>survival, information regarding that is also required with Final Site Plans.</u>

If the applicant has any questions concerning the above review or the process in general, do not hesitate to contact me at 248.735.5621 or <u>rmeader@cityofnovi.org</u>.

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Rick Meader - Landscape Architect

LANDSCAPE REVIEW SUMMARY CHART - Second Revised Preliminary Site Plan

Review Date:	September 16, 2024
Project Name:	JSP23 – 0033: SHEETZ
Project Location:	39471 West Twelve Mile Road
Plan Date:	July 31, 2024
Prepared by:	Rick Meader, Landscape Architect E-mail: <u>rmeader@cityofnovi.org</u> ; Phone: (248) 735-5621

Items in **Bold** need to be addressed by the applicant before approval of the Preliminary Site Plan. <u>Underlined</u> items need to be addressed for Final Site Plan.

LANDSCAPE WAIVERS REQUIRED BY PROPOSED PLAN:

- Lack of greenbelt berm along 12 Mile Road -supported by staff
- No street trees along Haggerty Road supported by staff due to utility conflicts.
- Deficiency of interior parking lot trees not supported by staff
- Deficiency in accessway perimeter trees partially supported by staff see below
- Deficiency in foundation landscaping at the building supported by staff

GENERAL NOTE:

• Please remove the truck turning image from the main view on Sheet L-100. It isn't needed and clutters up the plan.

Item	Required	Proposed	Meets Code	Comments	
Landscape Plan Requirements (Landscape Design Manual (LDM) and Zoning Ordinance (Zoning Sec)					
Landscape Plan (Zoning Sec 5.5.2, LDM 2, 10)	 New commercial or residential developments Addition to existing building greater than 25% increase in overall footage or 400 SF whichever is less. 1"=20' minimum with proper North. Variations from this scale can be approved by LA Consistent with plans throughout set 	Scale: 1" = 20'	Yes		
Project Information (LDM 10)	Name and Address	Location map is provided	Yes		
Owner/Developer Contact Information (LDM 10)	Name, address and telephone number of the owner and developer or association	Yes	Yes		
Landscape Architect contact information (LDM 10)	Name, Address and telephone number of RLA/PLA/LLA who created the plan	Mark Hansen and Francesca Schovers - Giffels Webster	No	Please consistently show the person who is responsible for the plans. REPEAT COMMENT	

Item	Required	Proposed	Meets Code	Comments
Sealed by LA. (LDM 10)	Requires original signature	Copy of seal and signature on plan		<u>See above</u>
Miss Dig Note (800) 482-7171 (LDM 10)	Show on all plan sheets	In Title Block	Yes	
Zoning (LDM 10)	Include all adjacent zoning	 <u>Parcel:</u> B-3 <u>North, South:</u> OST <u>West:</u> B-3 <u>East:</u> Farmington Hills Office <u>West and south</u> <u>zoning are shown</u> <u>on L-</u>100 	Yes	
Survey information (LDM 10)	 <u>Legal description or</u> <u>boundary line survey</u> <u>Existing topography</u> 	Sheet C2	Yes	
Existing plant material Existing woodlands or wetlands (LDM 10)	 Show location type and size. Label to be saved or removed. Plan shall state if none exists. 	 On-site tree survey and removals on Sheet C3 Offsite tree survey and removals shown on Sheet C15. On Sheet C14 a note a table showing required replacements for offsite removals is provided, but it is very confusing, such that it can't be determined what is required. A note indicates that a contribution to the tree fund will be made for all required replacements. Wetland mitigation area survey on Sheet C13 A conceptual wetland mitigation plan is shown on C14 	• Yes • Yes • TBD • Yes • Yes • TBD	 It would be preferable to save the large trees (#635 - #637) in the mitigation area if possible. The Replacement Tree Requirements table below should be used for the woodland replacement calculations. <u>Provide detailed</u> wetland mitigation plans. See Merjent letter for complete wetland and woodland reviews
Soil types (LDM10)	<u>As determined by Soils</u> <u>survey of Oakland</u> <u>county</u>	Sheet C4	Yes	

Item	Required	Proposed	Meets Code	Comments
	<u>Show types,</u> boundaries			
Existing and proposed improvements (LDM 10)	Existing and proposed buildings, easements, parking spaces, vehicular use areas, and R.O.W	Included on landscape plan	Yes	
Existing and proposed utilities (LDM 10)	Overhead and underground utilities, including hydrants	 All existing and proposed utilities are shown No light posts are shown 	• Yes • No	Please add all light posts and resolve tree/pole conflicts.
Proposed grading. 2' contour minimum (LDM 10)	Provide proposed contours at 2' interval	Spot elevations, wall elevations and berm contours on Sheet C6	Yes	
Snow deposit (LDM 10)	Show snow deposit areas on plan	Yes	Yes	
LANDSCAPING REQUIRE		L	·	·
Parking Area Landscap	e Requirements (Zoning Se	c 5.5.3.C and LDM 5)		
General requirements (LDM 5)	 Clear sight distance within parking islands No evergreen trees 	 No landscaping within the parking lot is proposed that would block visibility Notes regarding the heights of the Ward's yews have been added 	Yes	
Name, type and number of ground cover (LDM 5)	As proposed on planting islands	Noted	Yes	
General (Zoning Sec 5.	5.3.C)			
Parking lot Islands	 A minimum of 200 SF to qualify A minimum of 200sf unpaved area per tree planted in an island 6" curbs Islands minimum width 10' BOC to BOC 	All islands with trees are sized appropriately and are labeled in SF	Yes	
Curbs and Parking stall reduction (Zoning Sec 5.3.12)	Parking stall can be reduced to 17' and the curb to 4" adjacent to a sidewalk of minimum 7 ft.	 Parking spaces are 19 or 20 feet long The applicant has indicated they do not want to reduce the size of the spaces. 	No	

Item	Required	Proposed	Meets Code	Comments	
Contiguous space limit (Zoning sec 5.5.3.C)	Maximum of 15 contiguous spaces	11 is maximum bay length	Yes		
Plantings around Fire Hydrant (Zoning sec 5.5.3.C)	 No plantings with matured height greater than 12' within 10 ft. of fire hydrants Plant trees at least 5 ft from underground utility lines Plantings near hydrants or FDCs should be no taller than 12" 	 One hydrant on the site is shown No shrubs are proposed that would block access to the hydrant. Two other hydrants near 12 Mile Road are also not blocked The building won't have an FDC 	Yes		
Landscaped area (Zoning sec 5.5.3.C)	Areas not dedicated to parking use or driveways exceeding 100 sq. ft. shall be landscaped	Yes	Yes		
Clear Zones (Zoning sec 5.5.3.B.ii Footnote 10)	 25 ft corner clearance required. Refer to Zoning Section 5.5.9 Road Commission for Oakland County zone for RCOC jurisdiction roads 	RCOC clear zones are shown for both entries	Yes		
	DS-2, OSC, OST, B-1, B-2, B-3 district (Zoning Sec 5.5.3.C)		C-1, RC, Spe	ecial Land Use or non-	
A = Total square footage of vehicular use areas up to 50,000sf x 7.5%	 A = x sf * 7.5 % = A sf 49,255 * 7.5% = 3694 sf 	Calculation provided	Yes		
B = Total square footage of additional paved vehicular use areas (not including A or B) over 50,000 SF) x 1 %	 B = x sf * 1% = B sf (Total area-50000)*1% 	Not used	TBD		
Category 2: For: I-1 and I-2 (Zoning Sec 5.5.3.C)					
A. = Total square footage of vehicular use area up to 50,000 sf x 5%	A = x sf * 6% = A sf	NA			
B = Total square footage of additional paved vehicular use areas over 50,000 SF x 0.5%	B = 0.5% x 0 sf = B SF	NA			
All Categories					

ltem	Required	Proposed	Meets Code	Comments
C = A+B Total square footage of landscaped islands	• C = A + B • C = 3694 + 0 = 3694 SF	3940 sf	Yes	Although the plan says 4735sf is provided, only 3940 sf can be found. It is acceptable as it exceeds the requirement.
D = C/200 Number of canopy trees required	• D = C/200 trees • 3694/200 = 18 Trees	11 trees in interior islands	No	 To count as an interior tree, a tree must be within the outer limits of the parking lot (and corners) and be in an island with at least 200sf of greenspace. A landscape waiver is required for the deficiency. It would not be supported by staff. Please add the required interior trees.
Perimeter Trees (Zoning Sec 5.5.3.C)	West side: 180/35 = 5 trees Frontage side: 366/70 = 5 trees Total required: 10 trees	7 trees 6 along west side + 1 greenbelt canopy tree within 15 feet of pavement	No	 Greenbelt trees within 15 feet of the parking lot (preferably closer) can be double- counted as parking lot perimeter trees. The requirement for each side must be met on that side. Five of the greenbelt canopy trees could be shifted toward the parking lot to be within 15 feet of it (preferably closer) so they could be double-counted as parking lot perimeter trees. Please do so.
Accessway perimeter (Zoning Sec 5.5.3.C)	 1 canopy tree per 35 lf on each side of road, less widths of access drives. North drives: (20+20+25+30)/35 = 3 trees South drive: (35+100)/35 = 4 trees 	 North drives: 1 tree South drive: 0 trees 	No	1. Please add the required trees along the north access drives. Greenbelt canopy trees within 15 feet of the accessway edge may be double- counted as

Item	Required	Proposed	Meets Code	Comments		
				accessway perimeter trees. 2. A landscape waiver is required for the proposed configuration. It would be supported for 3 of the 4 trees required along the south side of the south drive but a tree should be added to both sides of the south drive where space exists.		
Parking land banked (Zoning Sec 5.2.14.D)	NA	None				
Berms, Walls and ROW	Planting Requirements					
Berms (Zoning Sec 5.5.3	3.A & LDM 1)					
 All berms shall have a maximum slope of 33%. Gradual slopes are encouraged. Show 1ft. contours Berm should be located on lot line except in conflict with utilities. Berms should be constructed with 6" of topsoil. 						
Residential Adjacent to	Non-residential (Sec 5.5.3.	A & LDM 1.a)	1	Γ		
Berm requirements (Zoning Sec 5.5.A)	The site is not adjacent to residential property so this berm is not required	None	Yes			
Planting requirements (LDM 1.a.)	LDM Novi Street Tree List	NA				
Adjacent to Public Righ	its-of-Way (Sec 5.5.3.B and	LDM 1.b)				
Berm requirements (Zoning Sec 5.5.3.A.(5))	An undulating berm a minimum of 3 feet high with a 3-foot-wide crest is required	A berm is proposed along the eastern frontage and a hedge is proposed along the northern edge that extends to the berm	No	 A landscape waiver would be required for the lack of a berm along the north side. The waiver to use a hedge instead of a berm is supported by staff. 		
Cross-Section of Berms						
Slope, height and width	 Label contour lines Maximum 33% Min. 3 feet flat horizontal area Minimum 3 feet high Constructed of loam with 6' top layer of topsoil. 	Not provided	No	<u>Please provide a berm</u> <u>cross section showing</u> <u>the materials, slope,</u> <u>height and</u> groundcover.		
Type of Ground Cover		Lawn is proposed	Yes			
Setbacks from Utilities	Overhead utility lines	No trees conflict	Yes	The greenbelt trees		

Item	Required	Proposed	Meets Code	Comments
	and 15 ft. setback from edge of utility or 20 ft. setback from closest pole	with overhead lines but overhead lines do exist along Haggerty Road.		along Haggerty Road should be moved back as much as is reasonably possible from the overhead lines.
Walls (Zoning Sec 5.5.3.	A & LDM 10)			
Material, height and type of construction footing	Freestanding walls should have brick or stone exterior with masonry or concrete interior	 A 3-5 foot retaining wall is proposed along the wetland A standard detail showing the appearance of the wall is provided on the last sheet with a note that detailed drawings will be provided with building plans. 	Yes	
Walls greater than 4 ft. should be designed and sealed by an Engineer		See above		<u>See above</u>
ROW Landscape Scree	ning Requirements (Zoning	Sec 5.5.3.B.ii)		
Greenbelt width	Parking between ROW & Bldg: 20 ft.	20 ft	Yes	
Min. berm crest width	2 ft	A hedge is proposed for the north frontage and a berm is provided along Haggerty Road	No	As noted above, the waiver to use a hedge for 12 Mile Road will be supported by staff.
Minimum berm height	3 ft	See above	No	See above
3' wall	(2)(3)(4)	No greenbelt walls are proposed	NA	
Canopy deciduous or large evergreen trees	Parking between ROW & Bldg: • 1 tree per 70 lf • (245-37+185+90+37)/70 = 7 trees Frontage not adj to parking: • 1 tree per 60 lf • 66/60 = 1 tree Total requirement: = 8 trees	7 trees plus cluster of existing trees to remain at southeast corner of property	Yes	
Sub-canopy	Parking between ROW &	30 trees	Yes	1. See above and to

Item	Required	Proposed	Meets Code	Comments
deciduous trees)	 1 tree per 40 lf (245-37+185+90+37)/40 = 13 trees Frontage not adj to parking: 1 tree per 40 lf 66/40 = 2 trees Total frontage: 			the left regarding the calculations. 2. The excess trees may be removed if desired.
Shrubs	 = 15 trees Parking between ROW & Bldg: 1 tree per 40 lf 3*(245-56+185+140)/40 = 39 trees 	92 shrubs	Yes	Please add a note stating that the shrubs will be maintained at a height of at least 6 feet to provide better screening of the vehicle when it is loading.
Canopy deciduous trees in area between sidewalk and curb	 Parking & No Parking: 1 tree per 35 lf xx/35 = x trees <u>12 Mile Rd:</u> (227+39)/35 = 7 trees <u>Haggerty Rd:</u> (243+66)/35 = 6 trees Subcanopy trees should be provided at a rate of 1.5 subcanopy trees per required canopy tree where overhead wires exist 	 12 Mile Road: 4 existing crabapple trees + 3 more crabapples Haggerty Road: 0 trees 	• Yes • No	 Please break out the calculations between the two roads. If the RCOC does not allow any or all of the required street trees, they do not need to be provided, but documentation of their ruling must be provided to the City. A landscape waiver to not provide the street trees in the Haggerty Road right-of-way would be supported by staff as there is no room for the trees due to numerous utility lines there.
Other Screening Requir	ements			
Screening of outdoor storage, loading/unloading (Zoning Sec. 3.14, 3.15, 4.55, 4.56, 5.4.2, 5.5)	Loading zones must be screened from the roads.	Fuel loading zone is located in the parking lot facing 12 Mile Road 3 canopy trees, 12 subcanopy trees and a hedge are proposed	Yes	 As noted above, the hedge should be maintained at a height of 6 feet to at least partially block the fuel vehicle when it is unloading. <u>Please add a note to</u> <u>that effect.</u>

Item	Required	Proposed	Meets Code	Comments
Transformers/Utility boxes (LDM 6)	 A minimum of 2ft. separation between box and the plants Ground cover below 4" is allowed up to pad. No plant materials within 8 ft. from the doors 	 A transformer is shown at the southeast corner of the building. It's screened with Ward's yews. 	No	<u>Please add a note</u> <u>stating that the yews</u> <u>shall be maintained at</u> <u>a height at least as tall</u> <u>as the transformer.</u>
Building Foundation La	ndscape Requirements (Zor	ning Sec 5.5.3.D)		
Interior site landscaping SF (Zoning Sec 5.5.3.D)	 Equals to entire perimeter of the building x 8 with a minimum width of 4 ft. A: x If x 8ft = x SF A = 298 If * 8 ft = 2384 sf 	 <u>2612 sf</u> 1982sf (76% of area provided) is at the building or in an island immediately adjacent to the building 630sf is provided in areas further away from the building 	Yes/No	 A landscape waiver is required for the areas away from the building. It would be supported by staff as they will improve the overall look of the site.
Building Frontage Landscaping (Zoning Sec 5.5.3.D)	If visible from public street a minimum of 60% of the exterior building perimeter should be covered in green space	 12 Mile Road Frontage: 70% Haggerty Road Frontage: 65% 	• Yes • Yes	
Detention/Retention Ba	sin Requirements (Zoning Se	ec. 5.5.3.E & LDM 3)		
Planting requirements (Zoning Sec 5.5.3.E & LDM 3)	 Refer to wetland for basin mix Deciduous canopy tree 1/35 of east, south and west sides of pond at 10 feet from permanent water level 		Yes	 No detention landscaping is required for the current configuration. If aboveground detention is provided, it must be landscaped per the ordinance.
Phragmites and Japanese Knotweed Control (Zoning Sec 5.5.6.B)• Any and all populations of Phragmites australis and/or Japanese Knotweed on site sha be included on tree survey.• Any and all populations of Phragmites australis and/or Japanese Knotweed on site sha be included on tree survey.		Phragmites is shown on the Demolition Plan.	TBD	<u>Please add plans for the</u> <u>removal of the</u> <u>Phragmites to the</u> <u>Demolition Plan,</u> <u>Wetland mitigation plan</u> <u>or Landscape details.</u>

Item	Required	Proposed	Meets Code	Comments
	requirements to eradicate the weed from the site.			
LANDSCAPING NOTES,	Details and general requ	JIREMENTS		
Landscape Notes - Utili	ze City of Novi Standard No	otes		
Installation date (LDM 10)	Provide intended date	Between Mar 15 and Nov 15.	Yes	
 Include statement of intent to install and guarantee all materials for 2 years. Include a minimum one cultivation in June, July and August for the 2-year warranty period. 		Both notes are provided	Yes	
Plant source (LDM 10 & 11)	Shall be northern nursery grown, No.1 grade.	Yes	Yes	
Irrigation plan (LDM 10)	 A fully automatic irrigation system or a method of providing sufficient water for plant establishment and survival is required on Final Site Plans. If irrigation won't be used, note how trees will get sufficient water for establishment and long-term survival 	A note indicates that a plan for an irrigation system will be provided with Final Site Plans	Yes	<u>The irrigation system</u> <u>must conform to the</u> <u>rules listed at the</u> <u>bottom of this chart.</u>
Other information (LDM 10)	Required by Planning Commission	NA		
(Zoning Sec 5.5.6 & LDM 10)	2 yr. Guarantee	Yes	Yes	
Approval of substitutions. (Zoning Sec 5.5.5 & LDM 10)	City must approve any substitutions in writing prior to installation.	Yes	Yes	
Plant List (LDM 10 & 11)	- Include all cost estimates	6		
Quantities and sizes	• At least 50% of species used shall be native to	On plant list	Yes	The caliper size for the subcanopy trees can be reduced to 2"
Root type	 Michigan Tree diversity shall follow guidelines of LDM Section 4 No species on the Prohibited Species list may be used 	On plant list	Yes	
Botanical and common names (LDM 4 & 11)		 The tree diversity requirements are not met by the serviceberries or dogwoods (15 each while the 	• No • No	1. <u>Please reduce the</u> <u>number of</u> <u>serviceberries and</u> <u>Kousa dogwoods to</u> <u>no more than 15% of</u> <u>the trees planted.</u>

Item	Required	Proposed	Meets Code	Comments
		maximum is 8). • 9 of 19 species used (47%) are native to Michigan.		2. <u>Please increase the</u> <u>percentage of</u> <u>native species used</u> <u>to at least 50%,</u> <u>preferably more.</u>
Type and amount of lawn		Lawn seed mix is indicated on the plant list	Yes	Add quantities on the Final Site Plans
Cost estimate (LDM 10)	For all new plantings, mulch and sod as listed on the plan	Yes		
Planting Details/Info (LE	DM Part III) - Utilize City of N	ovi Standard Details		
Canopy Deciduous Tree		Yes	Yes	
Evergreen Tree		Yes	Yes	
Multi-stem Tree	Refer to LDM for detail	No	TBD	<u>Please add a detail if</u> <u>multi-stem trees will be</u> <u>used.</u>
Shrub	drawings	Yes	Yes	
Perennial/ Ground Cover		Yes	Yes	
Tree stakes and guys. (Wood stakes, fabric guys)		No	No	<u>Please add - city detail</u> <u>is available upon</u> <u>request</u>
Tree protection fencing	Located at Critical Root Zone (1' outside of dripline)	No	No	 <u>Please put on</u> <u>Demolition and/or</u> <u>Soil Erosion Control</u> <u>plan</u> <u>Please call out where</u> <u>the tree fence is on</u> <u>that plan as it's not</u> <u>clear.</u>
Other Plant Material Re				
General Conditions	Plant materials shall not be planted within 4 ft. of property line	Yes		
Plant Materials & Existing Plant Material (LDM 11)	Clearly show trees to be removed and trees to be saved.	Yes – on Demolition Plan	Yes	
Landscape tree credit (LDM 11)	 Substitutions to landscape standards for preserved canopy trees outside woodlands/ wetlands should be approved by LA. Refer to Landscape tree Credit Chart in LDM 	No		
Plant Sizes for ROW,	 Size determined by 	On Plant list	Yes	

Item	Required	Proposed	Meets Code	Comments
Woodland replacement and others (LDM 11)	use detailed in LDM Table 11.b.(2)a.i • Indicate on plant list			
Plant size credit (LDM 11)	NA	No		
Prohibited Plants (LDM 11.b)	No plants on City Invasive Species List	None are used	Yes	
Recommended trees for planting under overhead utilities (LDM 11)	Label the distance from the overhead utilities	Subcanopy trees are proposed beneath overhead wires	Yes	
Collected or Transplanted trees (LDM 11)		None		
Nonliving Durable Material: Mulch (LDM 12)	 Trees shall be mulched to 3" depth and shrubs, groundcovers to 2" depth Specify natural color, finely shredded hardwood bark mulch. Include in cost estimate. 	Yes	Yes	

NOTES:

1. This table is a working summary chart and not intended to substitute for any Ordinance or City of Novi requirements or standards.

2. The section of the applicable ordinance or standard is indicated in parenthesis. For the landscape requirements, please see the Zoning Ordinance landscape section 5.5 and the Landscape Design Manual for the appropriate items under the applicable zoning classification.

3. Please include a written response to any points requiring clarification or for any corresponding site plan modifications to the City of Novi Planning Department with future submittals.

Replacement Tree Requirements				
Ratio Replacement/				
Removed Tree d.b.h.(in)	Removed Trees			
8<11	1			
>11<20	2			
>20<29	3			
>30	4			

Irrigation System Requirements

- 1. Any booster pump installed to connect the project's irrigation system to an existing irrigation system must be downstream of the RPZ.
- 2. The RPZ must be installed in accordance with the 2015 Michigan Plumbing Code.
- 3. The RPZ must be installed in accordance with the manufacture installation instructions for winterization that includes drain ports and blowout ports.
- 4. The RPZ must be installed a minimum of 12-inches above FINISHED grade.
- 5. Attached is a handout that addresses winterization installation requirements to assist with this.
- 6. A plumbing permit is required.

Second Revised Preliminary Site Plan – Landscape Review September 16, 2024

7. The assembly must be tested after installation with results recorded on the City of Novi test report form.

WETLAND & WOODLAND REVIEW



September 17, 2024

Lindsay Bell Planner – Community Development City of Novi 45175 Ten Mile Road Novi, MI 48375

Submitted electronically to bell@cityofnovi.org

Re: Sheetz Re-revised Preliminary Site Plan Woodland and Wetland Review (JSP23-33)

Dear Lindsay,

Merjent, Inc. (Merjent) has conducted a review of the re-revised preliminary site plan (rrPSP) for the Sheetz (also referred to as 39471 W. 12 Mile Road; site) prepared by Giffels Webster (applicant; rev. date 7/31/2024). Merjent reviewed the rrPSP for conformance with the City of Novi's (City) Woodland Protection Ordinance, Chapter 37, and Wetlands and Watercourse Protection Ordinance, Chapter 12 Article V. The site (parcel 50-22-13-200-016) contains City-regulated woodlands (Figure 1) and City-regulated wetlands (Figure 2).

Merjent conducted a review of the original PSP submission (rev. date 3/4/2024) and submitted comments to be addressed by the applicant on April 1, 2024. Additionally, the applicant provided a revised preliminary site plan (rPSP) (rev. date 6/7/2024) and submitted comments to be addressed by the applicant on June 30, 2024. Hereafter, the April 1, 2024 review letter will be referred to as the PSP Review Letter and the June 30, 2024 review letter will be referred to as the rPSP Review Letter.

Comments *italicized* below will be in reference to previous Review Letters.

Wetlands

Wetland Recommendation: Merjent **does not recommend approval** of the Sheetz Project due to not meeting the requirements of the Wetlands and Watercourse Protection Ordinance. Options are provided in Comment 3 (below) on how to meet the requirements of the ordinance.

Upon review of published resources, the Sheetz Site appears to contain:

- ⊠ City-regulated wetlands, as identified on the City of Novi interactive map website. Note that both wetland and property limits depicted on the City's map are considered approximations (Figure 2).
- □ Wetlands that are regulated by the Michigan Department of Environment, Great Lakes, and Energy (EGLE).
- ☑ Wetlands as identified on National Wetland Inventory (NWI) and Michigan Resource Inventory System (MIRIS) maps, as identified on the EGLE Wetlands Viewer interactive map website (PSP Review Letter). NWI and MIRIS wetlands are identified by the associated governmental bodies' interpretation of topographic data and aerial photographs.

□ Hydric (wetland) soil as mapped by the U.S. Department of Agriculture, Natural Resource Conservation Service, as identified on the EGLE Wetlands Viewer interactive map website (PSP Review Letter).

Permits and Regulatory Status

The Mannik and Smith Group (MSG) provided a Wetland Boundary Determination on October 23, 2023 and determined that Wetland A meets the criteria of a City of Novi Essential Wetland. Additionally, the applicant provided a copy of a EGLE Wetland Identification Report (63-39471 W. 12 Mile Road, Novi; July 18, 2023) that determined Wetland A is not regulated by EGLE.

However, no EGLE review has occurred at the proposed mitigation site.

The following wetland-related items will be required for this project:

Item	Required/Not Required*
Wetland Permit (specify Non-minor or Minor)	Required, Non-minor
Wetland Mitigation	Required
Environmental Enhancement Plan	Required (mitigation plan)
Wetland Buffer Authorization	Required
EGLE Wetland Permit	Potentially Required*
Wetland Conservation Easement	Required

*See Comment 6

Wetland Review Comments

- 1. Comment 1 is still applicable and was provided for informational purposes.
- 2. *Comment 2 is still applicable.* The applicant has summarized direct wetland impacts in a table, which is summarized below. The values have been reduced relative to the rPSP Review Letter.

Impact	Amount	
Permanent Scrub-shrub Wetland Impact	19,350 sq. ft. (0.44 acre)	
	3,653 cu. yd.	
Permanent Forested Wetland Impact	3,350 sq. ft. (0.08 acre)	
	838 cu. yd.	
Temporary Forested Wetland Impact	2,393 sq. ft. (0.05 acre)	

For final site plan approval, the applicant should list the wetland type and reason for filling each wetland on Sheet 12 of the PSP. Information such as "X cubic yards of gravel overlain by X cubic yards of asphalt fill for parking lot/road," would be beneficial when preparing the Wetland Use Permit if this project is approved.

3. Comment 3 is still applicable from the rPSP Review Letter. An updated summary is provided below.

Merjent reviewed ASTI's August 14, 2024 mitigation analysis of the proposed Sheetz site and the proposed mitigation site. As stated in ASTI's letter, approximately 0.82 acre (35,725 sq. ft.) of mitigation is required for the proposed impacts on-site (0.44 acre scrub-shrub wetland and 0.08 acre forested wetland). The applicant is proposing the construction of approximately 0.67 acre (29,030 square feet) of all forested wetland to satisfy mitigation requirements. As currently proposed, the mitigation site at 27629 Haggerty Road would only satisfy a ratio of 1.28:1. Additionally, the applicant has proposed a



conservation easement around the remaining forested (primarily upland) areas within the Haggerty Parcel to account for the lack of mitigated wetland.

Merjent reviewed Section 12-176 (Mitigation) of the Code of Ordinances and past projects approved by the City of Novi under the guidance of both the Mannik and Smith Group (MSG) and Environmental Consulting and Technology, Inc (ECT). Although wetland replacement ratios and locations shall be determined on a case-by-case basis, the replacement ratio of 1.5:1 for emergent and scrub-shrub wetlands and 2:1 for forested wetlands has been the standard for projects that were previously reviewed by both MSG and ECT.

As stated in the August 14, 2024 letter from ASTI, the applicant has reduced impacts to wetlands from the rPSP Review Letter to the rrPSP submittal by approximately 4,530 square feet (reduced 2,310 sq. ft. forested and 2,220 sq. ft. scrub/shrub). Additionally, the applicant will create an overall higher quality (forested) wetland for the proposed project. It should be noted that in Section 12-176, five years of monitoring is required for mitigation sites. EGLE typically requires ten years of monitoring for created forested wetland mitigation sites in Southeast Michigan. A deviation of the standard mitigation ratio would only be permitted if City Council grants an exception from the Code requirements. Merjent recommends that if City Council does grant an exception from the Code requirements, the monitoring period be extended to ten years, per EGLE's recommendations for created forested wetland mitigation site, in addition to labor hours for monitoring, relative to the alternative listed below.

Alternatively, the applicant can maintain the required 1.5:1 and 2:1 mitigation ratios for scrub/shrub and forested impacts, respectively, and create the required 0.82 acre wetland mitigation area. There are additional areas recommended in **Attachment A** that could be considered for expanding the proposed mitigation site to meet the size requirements needed.

The performance standards for mitigation sites in the City of Novi are included as Attachment B.

- 4. Comment 4 is still applicable from the rPSP Review Letter. A wetland buffer authorization will be required for this project. For final site plan approval, the applicant should list any mowing, filling (cubic yards/type), and/or excavating that will be performed within the setback.
- 5. Comment 5 is still applicable from the PSP Review Letter. The Applicant is encouraged to provide wetland conservation easements for any areas of remaining wetland and 25-foot wetland buffer. The Applicant shall provide wetland conservation easements as directed by the City of Novi Community Development Department for any areas of proposed wetland.

The applicant has offered wetland and upland conservation easements for the project.

6. The construction of a proposed wetland mitigation occurs adjacent to two existing wetland areas. Review and/or approval from EGLE may be required due to the potential for incidental impact on these existing and potentially regulated wetland features at the wetland mitigation site. Merjent nor the City of Novi can make a determination if a permit is required, from EGLE, for the proposed mitigation site that would potentially influence the hydrology of these existing wetlands. The existing mitigation site wetlands may or may not be regulated by EGLE. The proposed mitigation site



is exempt from requiring additional City of Novi Wetland and Watercourse Permitting under Section 12-171 (b)(18): Activities within a wetland or watercourse solely for the purpose of creating additional wetland areas on adjacent land for mitigation purposes.

Woodlands

Woodland Recommendation: Merjent **recommends approval** of the Sheetz rrPSP. A list of comments is provided below to meet the requirements of the Woodland Protection Ordinance. The following Woodland Regulations apply to this site:

Woodland Regulation	Required
Woodland Permit (Chapter 37, Section 37-26)	Yes
Tree Replacement (Chapter 37, Section 37-8)	Yes
Tree Protection (Fence; Chapter 37, Section 37-9)	Yes
Woodland Conservation Easement (Chapter 37-30[e])	Yes, if feasible

Woodland Review Comments - Sheetz Site

 Comment 1 from the PSP Review Letter is still applicable. City-regulated woodlands, as identified on the City of Novi Woodlands interactive map website, are likely present onsite. Note that both the woodlands and property limits depicted on the City map are considered approximations (Figure 1). A site visit was performed on March 26, 2024 to verify and review the extent of woodlands on-site. Figure 1 attached has a polygon showing the approximate woodland areas onsite.

Photos of the site were provided in the PSP Review Letter.

- Comment 2 from the PSP Review Letter is still applicable. When a proposed site plan is located within
 a regulated woodland, any tree proposed for removal with a diameter at breast height (DBH) greater
 than or equal to eight inches will require tree replacement and a Woodland Use Permit per Section 378. This also applies to any tree that will be preserved, but where impacts to critical root zones are
 proposed.
- 3. Comment 3 from the PSP Review Letter is still applicable. Regardless of the presence of regulated woodlands onsite, a Woodland Use Permit is required to perform construction on any site containing the removal of trees larger than 36 inches in DBH.

No trees larger than 36 inches DBH will be removed.

- 4. The plan has proposed the removal of 33 regulated trees. A **Woodland Use Permit** is required to perform construction on any site containing regulated woodlands. The permit for this site would require Planning Commission approval because more than three trees are proposed to be impacted/removed by construction.
- 5. **Woodland Replacement**. Based on a review of the rrPSP, the following replacements are summarized in the plan.

Tree Size (DBH, inches)	Number of Trees	Ratio Replacement/Removed Tree	Total Replacements Required
8-11	17	1	17

merjent.

Tree Size (DBH, inches)	Number of Trees	Ratio Replacement/Removed Tree	Total Replacements Required
12-20	10	2	20
21-29	1	3	3
30+	0	4	0
Multi-stem	5	Sum of Stem DBH/8 (rounded up)	44*
Total	33	-	84

*See note below regarding total replacements of multi-stem trees.

There is an error in the count of trees between 21 and 29 inches DBH and the total number of replacements needed is 84. However, the following portion of Comment 5 was not addressed in the rrPSP and should be addressed prior to Final Site Plan Approval:

With the information provided above, the following multi-stem trees have been identified as having incorrect replacement values:

٠	6101	٠	6102	•	6103
٠	6107	٠	6115	•	6124
٠	6129	٠	6190	•	6200

For example, Tree 6101 is listed as having three nine-inch diameter at breast height (DBH) stems. The listed replacement value is three trees but should be four based on Section 37-8; $(9 \times 3) / 8 = 3.375$, rounded to the next whole number would be 4 replacement trees.

- 6. The applicant has addressed Comment 6 from the rPSP Review Letter and has stated they will mitigate all tree replacements via payment into the City of Novi Tree Fund in the amount of \$33,600. It should be noted that the second portion of Comment 5 (above) may affect this total amount.
- 7. A **financial guarantee**, in the amount of **\$6,000** (120% x **\$**5,000) is required for tree protection fencing maintenance per Chapter 26.5-37. This guarantee shall be paid prior to issuance of the City of Novi Woodland Use Permit.
 - a. For final site plan approval, the cost to stake, install, and remove tree protection fencing should be added to the Landscape Plan. This is needed to calculate woodland fence inspection fees.
- 8. Comment 11 is still applicable from the PSP Review Letter. Based on a site visit performed on March 26, 2024, the trees depicted in the site plan for the parcel boundary are accurate and the tree survey matches what is within the parcel boundary.

Photos were included in the PSP Review Letter.

Woodland Review Comments - Mitigation Site

1. Comment 1 is still applicable from the rPSP Review Letter. Pursuant to Section 37-28, woodland surveys shall be provided by a registered landscape architect, certified arborist, or registered forester, through an onsite inspection, who must verify the contents by seal and/or registration number with signature, whichever applies. The mitigation site tree survey does not contain an appropriate seal/signature from the on-site reviewer.



2. The rrPSP has proposed the removal of 27 trees within a regulated woodland. The following table is summarized based on Merjent's review of the provided plan and does not match what is provided on Sheet C14 and C15. The applicant should review their total replacement/removal counts and ensure they are accurate prior to Final Site Plan Review.

Tree Size (DBH, inches)	Number of Trees	Ratio Replacement/Removed Tree	Total Replacements Required
8-11	6	1	6
12-20	16	2	32
21-29	4	3	20
30+	1	4	4
Multi-stem	0	Sum of Stem DBH/8 (rounded up)	0
Total	27	-	62

3. Comment 3 from the rPSP Review is still applicable. Accurate critical root zones must be depicted on the site plan for all regulated trees within 50 feet of proposed grading or construction activities. Tree symbols are present on the plan but are relatively small. Additionally, it is unclear whether the tree symbol on the plan represents the trunk, dripline, or critical root zone of the tree. The tree symbol should be clarified in the legend or elsewhere on the plan. Critical root zones should be identified using a separate symbol on the site plans.

This comment was not addressed in the rrPSP and should be addressed prior to Final Site Plan **Approval.** Tree protection fencing was added but does not address the locations of CRZ's. For example, it is unclear whether Tree 598 will be impacted by final grading of the mitigation site.

- 4. Regulated woodland disturbance includes impacts to the critical root zone of regulated trees, including but not limited to encroachment by grading, landscaping, and construction. If impacts to the critical root zone of regulated woodland trees are proposed woodland replacements are required. Revised woodland replacement calculations or plan revisions may be necessary to address any unclear encroachments into the critical root zone.
 - a. If critical root zones will be impacted, they can also be identified in the tree survey table with an additional "CRZ" label.

This comment was not addressed in the rrPSP and should be addressed prior to Final Site Plan Approval. Tree protection fencing was added, but does not address the locations of CRZ's. For example, it is unclear whether the CRZ of Tree 598 will be impacted by final grading of the mitigation site.

- 5. Comment 5 from the rPSP Review Letter has been addressed and tree protection fencing has been added.
 - a. For final site plan approval, the cost to stake, install, and remove tree protection fencing should be added to the Mitigation Site Plan. This is needed to calculate woodland fence



inspection fees. For additional information, see Comment 7 under the Woodlands Sheetz Site Review Section (above).

- 6. The applicant has elected to payment into the City of Novi Tree Fund. Based on the rrPSP, the payment will be in the amount of \$24,800 but may differ pending review of the Comments 2 through 4 (above).
- 7. Comment 7 has been addressed from the rPSP Review Letter and all woodland impacts will be mitigated via payment into the City of Novi Tree Fund.

Should you have any questions or concerns with this review, please contact me via email at <u>jason.demoss@merjent.com</u> or via phone at (619) 944-3835.

Sincerely,

Merjent, Inc.

Kulon Demoll

Jason DeMoss, PWS Environmental Consultant

Enclosures:

Figure 1 – City of Novi Woodlands Map Figure 2 – City of Novi Wetlands Map Figure 3 – City of Novi Woodlands Map, Haggerty Parcel Figure 4 – City of Novi Wetlands Map, Haggerty Parcel

CC:

Diana Shanahan, City of Novi, <u>dshanahan@cityofnovi.org</u> Rick Meader, City of Novi, <u>rmeader@cityofnovi.org</u> Barbara McBeth, City of Novi, <u>bmcbeth@cityofnovi.org</u> Robb Roos, Merjent, <u>robb.roos@merjent.com</u>





Figure 1. City of Novi Regulated Woodlands Map Approximate Site boundary is shown in Red. (Approximate) Regulated Woodland areas are shown in Green.





Figure 2. City of Novi Regulated Wetlands Map Approximate Site boundary is shown in red. (Approximate) Regulated Wetland areas are shown in turquoise





Figure 3. City of Novi Regulated Woodlands Map (Haggerty Parcel) Approximate Site boundary is shown in Red. (Approximate) Regulated Woodland areas are shown in Green.

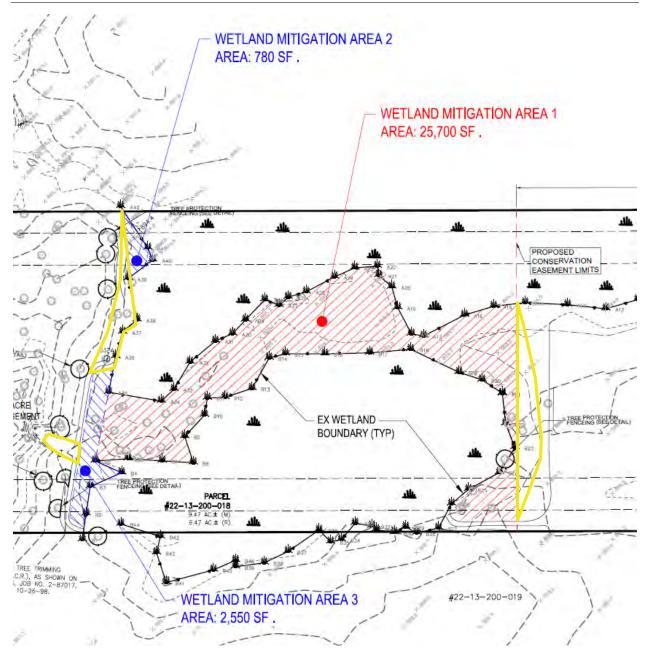




Figure 4. City of Novi Regulated Wetlands Map (Haggerty Parcel) Approximate Site boundary is shown in red. (Approximate) Regulated Wetland areas are shown in turquoise



Attachment A – Potential Mitigation Considerations



Areas outlined in yellow above could potentially expand proposed mitigation areas to meet the requirements of the ordinance. However, Merjent has not been on-site to verify if conditions would be feasible to allow for the expansion of mitigation areas. These potential expansions would allow for a less abrupt eastern wetland boundary for Mitigation Area 1, utilize a potential swale west of Mitigation Area 3, and allow the connection of Mitigation Area 2 and 3.



Attachment B City of Novi Mitigation Performance Standards



City of Novi Mitigation Performance Standards

August 2024

- a. Construction has been completed in accordance with the City of Novi's approved plans and specifications included in the permit and mitigation plan (and associated approved site plan).
- b. The mitigation wetland is characterized by the presence of water at a frequency and duration sufficient to support a predominance of wetland vegetation and the wetland types specified at the end of the monitoring period. The monitoring period will follow the U.S. Army Corps of Engineers definition of the growing season as stated in the 1987 *Wetland Delineation Manual*:
 - i. "The portion of the year when soil temperatures at 19.7 inches (50 cm) below the soil surface are higher than biological zero (5°C [41°F]). For ease of determination, this period can be approximated by the number of frost-free days."
 - ii. "Estimating starting and ending dates for the growing season are based on 28°F (-2.2°C) air temperature thresholds at a frequency of five years in 10."
- c. A layer of high-quality topsoil, from the A horizon of an organic or loamy surface texture soil, is placed (or exists) over the entire wetland mitigation area at a minimum thickness of six inches.
- d. The mitigation wetland shall be free of oil, grease, debris, and all other contaminants.
- e. A minimum of six wildlife habitat structures, consisting of at least three types, have been placed per acre of mitigation wetland. At least 50 percent of each structure shall extend above the normal water level. The types of acceptable wildlife habitat structures are:
 - i. Tree stumps laid horizontally within the wetland area. Acceptable stumps shall be a minimum of six feet long (log and root ball combined) and 12 inches in diameter.
 - ii. Logs laid horizontally within the wetland area. Acceptable logs shall be a minimum of 10 feet long and six inches in diameter.
 - iii. Whole trees laid horizontally within the wetland area. Acceptable whole trees shall have all of their fine structure left intact (i.e., not trimmed down to major branches for installation), be a minimum of 20 feet long (tree and root ball), and a minimum of 12 inches in diameter.
 - iv. Snags which include whole trees left standing that are dead or dying, or live trees that will be flooded and die, or whole trees installed upright into the wetland. A variety of tree species should be used for the creation of snag habitat. Acceptable snags shall be a minimum of 20 feet tall (above the ground surface) and a minimum of 12 inches in diameter at breast height. Snags should be grouped together to provide mutual functional support as nesting, feeding, and perching sites.
 - v. Sand mounds at least 18 inches in depth and placed so that they are surrounded by a minimum of 30 feet of water measuring at least 18 inches in depth. The sand mound shall have at least a 200 square foot area that is 18 inches above the projected high-water level and oriented to receive maximum sunlight.
- f. The mean percent cover of native wetland species in the herbaceous layer at the end of the monitoring period is not less than:
 - i. 60 percent for emergent wetland.
 - ii. 80 percent for scrub-shrub wetland.

- iii. 80 percent for forested wetland.
- g. Extensive areas of open water and submergent vegetation areas having no emergent and/or rooted floating vegetation shall not exceed 20 percent of the mitigation wetland area. Extensive areas of bare soil shall not exceed five percent of the mitigation wetland area. For the purposes of these performance standards, extensive refers to areas greater than 0.01 acre (436 square feet) in size.
- h. The total percent cover of wetland species in each plot shall be averaged for plots taken in the same wetland type to obtain a mean percent cover value for each wetland type. For the purposes of this standard, total percent cover is the percent cover of the ground surface covered by vegetation, bare soil, and open water, when viewed from above. Total percent cover cannot exceed 100 percent. Plots within identified extensive open water and submergent areas, bare soil areas, and areas without a predominance of wetland vegetation shall not be included in this average. Wetland species refers to species listed as facultative and wetter (FAC, FACW, OBL) on the U.S. Army Corps of Engineer's 2020 Regional Plant List (version 3.5) for the Midwest Region.
- i. The mitigation wetland supports a predominance of wetland (hydrophytic) vegetation (as defined in the 2010 U.S. Army Corps of Engineers "Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region [Version 2.0]") in each vegetative layer, represented by a minimum number of native wetland species, at the end of the monitoring period. The minimum number of native wetland type shall not be less than:
 - i. 15 species within the emergent wetland.
 - ii. 15 species within the scrub-shrub wetland.
 - iii. 15 species within the forested wetland.

The total number of native wetland plant species shall be determined by a sum of all species identified in sample plots of the same wetland type.

- j. At the end of the monitoring period, the mitigation wetland supports a minimum of:
 - i. 300 individual surviving, established, and free-to-grow trees per acre in the forested wetland that are classified as native wetland species and consisting of at least three different species.
 - ii. 300 individual surviving, established, and free-to-grow shrubs per acre in the scrub-shrub wetland that are classified as native wetland species and consisting of at least four different species.
 - iii. *Optional*: Eight native wetland species of grasses, sedges, or rushes per acre in the wet meadow wetland.
- k. Physiognomic classification of trees and shrubs shall be in accordance with the most updated resource from the following list:
 - i. The Michigan Floristic Quality Assessment
 - ii. Michigan Flora (also referred to as the University of Michigan Herbarium)
 - iii. The U.S. Army Corps of Engineer's Regional Plant List for the Midwest Region.
- I. The mean percent cover of invasive species including, but not limited to, *Phragmites australis* (Common Reed), *Lythrum salicaria* (Purple Loosestrife), and *Phalaris arundinacea* (Reed Canary Grass) shall in combination be limited to no more than 10 percent within each wetland type. Invasive species shall not dominate the vegetation in any extensive area of the mitigation wetland. A more exhaustive list of invasive species that are known to be in Michigan can be found on the State of Michigan's Invasive Species plant list (https://www.michigan.gov/invasives/id-report/plants)

If the mean percent cover of invasive species is more than 10 percent within any wetland type or if there are extensive areas of the mitigation wetland in which an invasive species is one of the dominant plant species, the permittee shall submit an evaluation of the problem to the City of Novi and/or the. If the permittee determines that it is infeasible to reduce the cover of invasive species to meet the above performance standard, the permittee must submit an assessment of the problem, a control plan, and the projected percent cover that can be achieved for review by the City of Novi. Based on this information, the City of Novi may approve an alternative invasive species standard. Any alternative invasive species standard must be approved in writing by the City of Novi.

If the mitigation wetland does not satisfactorily meet these standards by the end of the monitoring period, or is not satisfactorily progressing during the monitoring period, the permittee will be required to take corrective

Consultant review of Monitoring Reports will be split into the following sections:

- 1. Vegetation
- 2. Invasive Species
- 3. Hydrology
- 4. Wildlife Observations
- 5. Topsoil
- 6. Pollutants
- 7. Signage
- 8. Wetland Recommendations (as applicable)
 - a. Financial Guarantee Release

TRAFFIC REVIEW

ΑΞϹΟΜ

AECOM 39575 Lewis Dr, Ste. 400 Novi MI, 48377 USA aecom.com

Project name: JSP23-33 – Sheetz 2nd Revised Preliminary Traffic Review

From: AECOM

Date: September 16, 2024

To: Barbara McBeth, AICP City of Novi 45175 10 Mile Road Novi, Michigan 48375

CC: Lindsay Bell, Humna Anjum, Diana Shanahan, Dan Commer, Adam Yako

Memo

Subject: JSP23-33 - Sheetz 2nd Revised Preliminary Site Plan Traffic Review

The 2nd revised preliminary site plan was reviewed to the level of detail provided and AECOM recommends **approval** for the applicant to move forward as long as the comments are addressed to the satisfaction of the City.

GENERAL COMMENTS

- 1. The applicant, Skilken Gold, is proposing a 6,132 SF Sheetz store and gas station.
- 2. The development is located on the southwest corner of Twelve Mile Road and Haggerty Road. Twelve Mile Road and Haggerty Road are both under the jurisdiction of the Road Commission for Oakland County.
- 3. The site is zoned B-3 (General Business).
- 4. The following traffic related deviations are requested by the applicant:
 - a. Loading zone size not located in the rear or side yard.

TRAFFIC IMPACTS

- AECOM was unable to perform an initial trip generation based on the ITE Trip Generation Manual, 11th Edition, as there is insufficient data for land use. The existing land use is a convenience store/gas station, so AECOM does not anticipate any significant additional trips for the proposed convenience store/gas station.
- The City of Novi generally requires a traffic impact study/statement if the number of trips generated by the proposed development exceeds the City's threshold of more than 750 trips per day or 100 trips per either the AM or PM peak hour, or if the project meets other specified criteria.

Trip Impact Study Recommendation				
Type of Study: Justification				
None	-			

TRAFFIC REVIEW

The following table identifies the aspects of the plan that were reviewed. Items marked O are listed in the City's Code of Ordinances. Items marked with ZO are listed in the City's Zoning Ordinance. Items marked with ADA are listed in the Americans with Disabilities Act. Items marked with MMUTCD are listed in the Michigan Manual on Uniform Traffic Control Devices.

The values in the 'Compliance' column read as 'met' for plan provision meeting the standard it refers to, 'not met' stands for provision not meeting the standard and 'inconclusive' indicates applicant to provide data or information for review and 'NA' stands for not applicable for subject Project. The 'remarks' column covers any comments reviewer has and/or 'requested/required variance' and 'potential variance'. A potential variance indicates a variance that will be required if modifications are not made or further information provided to show compliance with the standards and ordinances. The applicant should put effort into complying with the standards; the variances should be the last resort after all avenues for complying have been exhausted. Indication of a potential variance does not imply support unless explicitly stated.

EXT	ERNAL SITE ACCESS AND	OPERATIONS		
No.	Item	Proposed	Compliance	Remarks
1	Driveway Radii O <u>Figure IX.3</u>	35' at Haggerty Road, not dimensioned at 12 Mile Road	Partially Met	Dimension radii at the 12 Mile Road driveway.
2	Driveway Width O <u>Figure</u>	36'	Met	
3	Driveway Taper O <u>Figure</u>	-	N/A	
3a	Taper length	-	N/A	
3b	Tangent	-	N/A	
4	Emergency Access O <u>11-</u> <u>194.a.19</u>	2 access points	Met	
5	Driveway sight distance O Figure VIII-E	Utilizing existing driveway on 12 Mile Road, 530' on Haggerty Road	Met	
6	Driveway spacing			
6a	Same-side O <u>11.216.d.1.d</u>	Greater than required distance on Haggerty Road	Met	
6b	Opposite side O <u>11.216.d.1.e</u>	Greater than required distance on Haggerty Road	Met	
7	External coordination (Road agency)	Applicant acknowledged coordination with RCOC required	Met	Work on Twelve Mile Road and Haggerty Road will need to be coordinated with the Road Commission for Oakland County (RCOC).
8	External Sidewalk <u>Master</u> <u>Plan & EDM</u>	6'	Met	

EXT	EXTERNAL SITE ACCESS AND OPERATIONS						
No.	Item	Proposed	Compliance	Remarks			
9	Sidewalk Ramps <u>EDM 7.4</u> & <u>R-28-J</u>	Detail included	Partially Met	Label proposed ramps at driveways on site plan.			
10	Any Other Comments:						

INTE	INTERNAL SITE OPERATIONS						
No.	Item	Proposed	Compliance	Remarks			
11	Loading zone <u>ZO 5.4</u>	15' x 80' in front yard	Not Met	Label additional loading zone for store, if proposed. A variance is requested by the applicant for current loading zone location.			
12	Trash receptacle ZO 5.4.4	In rear yard	Met				
13	Emergency Vehicle Access	Turning movements provided	Met				
14	Maneuvering Lane <u>ZO 5.3.2</u>	32.5', 35', 45'	Met	Greater than standard 24'.			
15	End islands <u>ZO 5.3.12</u>						
15a	Adjacent to a travel way	Dimensioned	Met				
15b	Internal to parking bays	Dimensioned	Met				
16	Parking spaces <u>ZO 5.2.12</u>	40 provided		See Planning review letter. 41 listed in parking calculations on site plan sheet, 40 shown on plan.			
17	Adjacent parking spaces <u>ZO</u> <u>5.5.3.C.ii.i</u>	<15 spaces in all parking bays	Met				
18	Parking space length <u>ZO 5.3.2</u>	19' and 20'	Met	Could reduce to standard 19' length.			
19	Parking space Width <u>ZO 5.3.2</u>	9' and 10'	Met				
20	Parking space front curb height <u>ZO 5.3.2</u>	6" and 4" wheel stops	Met	Wheel stop detail included. Remove Detail C9-5 for bumper posts on Site Details sheet.			
21	Accessible parking – number ADA	2 proposed, 2 required	Met				
22	Accessible parking – size <u>ADA</u>	10' x 20' with 8' aisle	Met				
23	Number of Van-accessible space ADA	2 proposed, 1 required	Met				
24	Bicycle parking						
24a	Requirement <u>ZO 5.16.1</u>	2 provided, 2 required	Met				
24b	Location <u>ZO 5.16.1</u>	Indicated	Met				
24c	Clear path from Street ZO 5.16.1	6'	Met				
24d	Height of rack <u>ZO 5.16.5.B</u>	3'	Met				

INTE	INTERNAL SITE OPERATIONS						
No.	Item	Proposed	Compliance	Remarks			
24e	Other (Covered / Layout) <u>ZO</u> <u>5.16.1</u>	Dimensioned	Met				
25	Sidewalk – min 5' wide <u>Master</u> <u>Plan</u>	5'	Met				
26	Sidewalk ramps <u>EDM 7.4</u> & <u>R-28-</u>	Detail included	Partially Met	Label proposed ramps on site plan.			
27	Sidewalk – distance back of curb EDM 7.4	-	N/A				
28	Cul-De-Sac O Figure VIII-F	-	N/A				
29	EyeBrow O Figure VIII-G	-	N/A				
30	Turnaround ZO 5.10	-	N/A				
31	Any Other Comments:						

SIG	SIGNING AND STRIPING					
No.	Item	Proposed	Compliance	Remarks		
32	Signing: Sizes MMUTCD	Included	Met			
33	Signing table: quantities and sizes	Included	Met			
34	Signs 12" x 18" or smaller in size shall be mounted on a galvanized 2 lb. U-channel post <u>MMUTCD</u>	Included	Met			
35	Signs greater than 12" x 18" shall be mounted on a galvanized 3 lb. or greater U- channel post <u>MMUTCD</u>	Included	Met			
36	Sign bottom height of 7' from final grade MMUTCD	Included	Met			
37	Signing shall be placed 2' from the face of the curb or edge of the nearest sidewalk to the near edge of the sign MMUTCD	Included	Met			
38	FHWA Standard Alphabet series used for all sign language MMUTCD	Included	Met			
39	High-Intensity Prismatic (HIP) sheeting to meet FHWA retro- reflectivity MMUTCD	Included	Met			
40	Parking space striping notes	Included	Partially Met	Label crosshatch markings adjacent to parking spaces that are not accessible aisle markings.		
41	The international symbol for accessibility pavement markings ADA	Included	Met			
42	Crosswalk pavement marking detail	Labeled, 4" blue	Partially Met	Standard crosswalk markings shall be white. Yellow would also be acceptable.		

SIG	NING AND STRIPING			
No.	Item	Proposed	Compliance	Remarks
43	Any Other Comments:	Details are include	ed for proposed pavemer	t marking arrows.

Note: Hyperlinks to the standards and Ordinances are for reference purposes only, the applicant and City of Novi to ensure referring to the latest standards and Ordinances in its entirety.

Should the City or applicant have questions regarding this review, they should contact AECOM for further clarification.

Sincerely,

AECOM

Paulo K. Johnson

Paula K. Johnson, PE Senior Transportation Engineer

Saumin Shal

Saumil Shah, PMP Project Manager

FAÇADE REVIEW



July 1, 2024

City of Novi Planning Department 45175 W. 10 Mile Rd. Novi, MI 48375-3024 50850 Applebrooke Dr., Northville, MI 48167



Façade Review Status Summary: **Approved, Full Compliance.**

Re: FACADE ORDINANCE - Facade Review – Preliminary Site Plan Sheets, JSP23-33, Façade Region: 1, Zoning District: B-3

Dear Ms. McBeth;

The following Facade Review is based on the drawings by Convenience Architecture and Design PC, dated 11/20/23. The percentages of materials proposed for each façade are as shown on the table below. The maximum percentages allowed by the Façade Ordinance are shown in the right-hand column. Materials in non-compliance with the Façade Chart, if any, are highlighted in bold.

Building	North (Front)	East	South	West	Ordinance Maximum (Minimum)
Brick	40%	45%	65%	63%	100% (30% Min.)
Stone	29%	25%	15%	16%	50%
Standing Seam	14%	12%	5%	6%	25%
Flat Metal Panel, RTU Screen	15%	16%	15%	15%	50%
Flat Metal, Canopies	2%	2%	0%	0%	50%

Canopy (Pantone Color)	North (Front)	East	South	West	Ordinance Maximum (Minimum)
Stone, Column Enclosure	31%	31%	35%	35%	30% Minimum
Flat Metal, Column Enclosure (497C)	4%	4%	4%	4%	50%
Flat Metal, Canopy Fascia (202C)	50%	50%	47%	47%	50%
Flat Metal, Truss (497C)	15%	15%	14%	14%	50%

Building - As shown above all building facades are in full compliance with the Façade

Canopies - In response to our prior comments, the applicant has increased the percentage of Stone on the column enclosures bringing the design of the canopies into full compliance.

Dumpster Enclosure – The dumpster enclosure is proposed to be 100% Brick to match the primary building and is in full compliance with the Façade Ordinance.

Notes to the Applicant:

1. Inspections – The Façade Ordinance requires inspection(s) for all projects. <u>The applicant should request inspection of the brick and awning color prior to installation</u>. It is the applicant's responsibility to request the inspection at the appropriate time (before installation). Inspections may be requested using the Novi Building Department's Online Inspection Portal with the following link. Please click on "Click here to Request an Inspection" under "Contractors", then click "Façade". <u>http://www.cityofnovi.org/Services/CommDev/OnlineInspectionPortal.asp</u>.

Sincerely, DRN & Architects PC

Douglas R. Necci, AIA

FIRE REVIEW



CITY COUNCIL

Mayor Justin Fischer

Mayor Pro Tem Laura Marie Casey

Dave Staudt

Brian Smith

Ericka Thomas

Matt Heintz

Priya Gurumurthy

City Manager Victor Cardenas

Director of Public Safety Chief of Police Erick W. Zinser

Fire Chief John B. Martin

Assistant Chief of Police Scott R. Baetens

Assistant Fire Chief Todd Seog September 5, 2024

TO: Barbara McBeth - City Planner Lindsay Bell - Plan Review Center Heather Zeigler – Plan Review Center Dan Commer – Plan Review Center Diana Shanahan – Planning Assistant

RE: Sheetz

PSP# 24-0019

Pre-App #23-0016

Project Description:

Build a new 6132 Sq. Ft. gas station on the corner of Twelve Mile and Haggerty Roads.

Comments:

- All fire hydrants MUST be installed and operational prior to any combustible material is brought on site. IFC 2015 3312.1
- For new buildings and existing buildings, you **MUST** comply with the International Fire Code Section 510 for Emergency Radio Coverage. This shall be completed by the time the final inspection of the fire alarm and fire suppression permits.
- <u>Corrected 3-25-24 KSP-</u> A hazardous chemical survey is required to be submitted to the Planning & Community Development Department for distribution to the Fire Department at the time any Preliminary Site Plan is submitted for review and approval. Definitions of chemical types can be obtained from the Fire Department at (248) 735-5674.

Recommendation:

Approved

Sincerely,

Kevin S. Pierce-Fire Marshal City of Novi – Fire Dept.

cc: file

cityofnovi.org

Novi Public Safety Administration

45125 Ten Mile Road

Novi, Michigan 48375 248.348.7100 248.347.0590 fax APPLICANT RESPONSE LETTERS



October 2, 2024

City of Novi 45175 Ten Mile Road Novi, MI 48375

Attn: Lindsay Bell, Senior Planner

GW# 20415.00

Re: JSP 23-33 Sheetz @ Haggerty/12 Mile Review

Dear Ms. Bell,

The review comments from City of Novi, (responses are *italicized*).

City of Novi Ordinance Requirements:

Wetland Mitigation (Code of Ordinances, Chapter 12):

2. The amount of mitigation proposed is deficient by 6,695 square feet (0.15-acre). *Plan is provided to show the required mitigation.*

Woodland Protection (Code of Ordinances, Chapter 37):

3. To construct the wetland mitigation areas, 27 woodland trees will need to be removed from the off-site property resulting in 62 additional replacement credits required. *Acknowledge.*

Loading Area (Sec. 5.4.2):

7. A Zoning Board of Appeals variance will need to be requested. *Sheetz will request a variance through the ZBA.*

City of Novi Engineering Review

Comments to address prior to preliminary site plan approval:

 The Revised Preliminary Site Plan meets the general requirements of the design and construction standards as set forth in Chapter 11 of the City of Novi Code of Ordinances, the Storm Water Management Ordinance and the Engineering Design Manual with the following items to be addressed at the time of Final Site Plan submittal: *Acknowledged.*

City of Novi Landscape Review Comments:

Ordinance Considerations

Existing Trees (Sec 37 Woodland Protection, Preliminary Site Plan checklist #17 and LDM 2.3 (2))

4. No plans showing the required wetland mitigation plantings are provided. Please

1025 E. Maple Road, Suite 100 | Birmingham, Michigan 48009 | Phone (248) 852-3100 | Fax (248) 852-6372



provide them.

Mitigation plans will be provided with the final site plan package.

5. Please work to save the large trees in the wetland mitigation area. Given the amount of trees on the site and the area of mitigation required, we have tried to save as many as possible.

Adjacent to Public Rights-of-Way – Berm/Wall, Buffer and Street Trees (Zoning Sec.

5.5.3.B.ii,iii)

1. The required berm is provided along Haggerty Road, but not along 12 Mile Road. This requires a landscape waiver. It is *supported by staff because the proposed hedge has been extended to berm.*

We request the waiver.

- 2. The required greenbelt canopy trees, subcanopy trees and shrubs are provided. *Acknowledged.*
- The required street trees are provided along Twelve Mile Road with more subcanopy trees but not along Haggerty Road due to utility conflicts. This requires a landscape waiver. It is supported by staff.

We request a waiver.

Parking Lot Landscaping (Zoning Sec. 5.5.3.C.)

- 1. The required interior landscape area is provided *Acknowledged.*
- The site is still quite deficient in interior canopy trees. This requires a landscape waiver. It is not supported by staff. Please provide all of the required trees. After speaking with landscape architect, we will adjust the plan and meet the requirement.
- 3. The required parking lot perimeter trees are not provided along the greenbelt sides of the site. The deficiency could easily be removed by moving 5 of the greenbelt canopy trees to within 15 feet of the parking lot, where they could double-count as parking lot perimeter trees and greenbelt canopy trees. The deficiency in parking lot perimeter trees requires a landscape waiver. It would not be supported by staff. Please reposition the canopy trees to remove the necessity for a waiver.

After speaking with landscape architect, we will adjust the plan and meet the requirement.

4. A landscape waiver is required for the deficiency in accessway perimeter trees along the north and south entrances. A lack of 3 of 4 required trees along the south side of the reconfigured drive would be supported by staff, but a tree should be added to both sides of that drive, and 2 more accessway perimeter trees should be added along the north access drives.
After speaking with landscape architect, we will adjust the plan and most the reconfigured to provide the reconfigured and the reconfigured drive.

After speaking with landscape architect, we will adjust the plan and meet the requirement.

Building Foundation Landscaping (Zoning Sec 5.5.3.D)

1. The required area is provided, but approximately 25% of the area provided is away from the building. This requires a landscape waiver. It would be supported by staff as most of the required area is at the building, and the remaining area would enhance the appearance of the rest of the site. We request the waiver.



Loading Zone screening (Zoning Section 5.4.2)

2. This is accepted by staff, as long as the hedge is maintained at 6 feet in height to screen most of the truck when it is unloading fuel. Please add a note to this effect to the plan.

Note will be added to the plan.

Plant List (LDM 4, 10)

1. 9 of 19 species used (47%) are native to Michigan. This is not acceptable. Please revise the plant list to use species native to Michigan for no less than 50% of the species used.

Plans will be revised to meet this requirement.

2. The quantities of serviceberries and Kousa dogwoods exceed the limitations of LDM 4. Tree counts for a single species may only account for 15% or less of the total number of trees planted. Please reduce the number of Kousa dogwoods and serviceberries and add other species in their place and/or increase the number of flowering crabapples used.

Plans will be revised to meet this requirement.

Planting Notations and Details (LDM 10)

1. Please add a tree protection fence detail to the Demolition Plan. Acknowledged, tree protection fence detail has been added to the Demolition Plan.

Irrigation (LDM 10)

1. If an irrigation system is used, a plan for it must be provided with Final Site Plans. Acknowledged, irrigation plan will be provided with Final Site Plans

Landscape Plan Requirements

1. Show woodland replacement calculation for the offsite tree removals. The woodland replacement trees need to be shown on a plan to be sure they can reasonably be planted on-site before the woodland permit can be approved. It would be preferable to save the large trees (#635 - #637) in the mitigation area if possible. Provide detailed wetland mitigation plans. See Merjent letter for complete wetland and woodland reviews.

Woodland replacement calculations have been added to the mitigation plan. Replacement trees cannot be counted in the mitigation area so they will pay into the tree fund. Detailed mitigation plans will be provided at the final site plan stage.

2. Please add all light posts and resolve tree/pole conflicts. Light Poles will be shown on the Final Site Plan Submittal.

Merjent Review:

Wetland Review

1. For final site plan approval, the applicant should list the type and reason for filling each wetland on Sheet 12 of the PSP. Information such as "X cubic yards of gravel overlain by X cubic yards of asphalt fill for parking lot/road," would be beneficial when preparing the Wetland Use Permit if this project is approved. Acknowledged.



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- 2. Sheet 12 of the PSP states that off-site mitigation is proposed. Additionally, Sheet 05 states that "XXXXXX" lists mitigation information (not provided in PSP). Due to the need for approximately 1.00 acre of wetland mitigation, the applicant shall provide a conceptual mitigation plan either appended to the PSP or within the PSP. The conceptual mitigation plan should contain the following information:
 - a. The location of the proposed wetland mitigation site in relation to the proposed Sheetz site. A location map for the mitigation site should be provided with the nearest crossroads and/or identifiable landmarks.
 - b. The total acreage and ecological type of the wetland that will be created and/or expanded.
 - c. A brief description of existing conditions at the proposed mitigation site. Existing conditions include but are not limited to, general topography, soils, vegetation, and any existing hydrology.
 - d. A brief description of the method with which the mitigated wetland will be created and/or expanded. A detailed engineering design is not required, but the source of water for the mitigated wetland should be identified.

Information has been included with this submittal see C14/C15 and ASTI letter.

- 3. A deviation of the standard mitigation ratio would only be permitted if City Counsil grants an exception from the Code requirements. If the required amount of mitigation cannot be provided, the applicant should consider redesigning the site to reduce the wetland impacts proposed. Sheet C15 states that the wetlands located on the Haggerty Parcel were flagged by Barr Engineering on September 7, 2023. It is recommended that the applicant provide a wetland delineation report for this property and if the planning process continues for this project, a wetland boundary verification is recommended to be performed at the Haggerty Parcel. *An updated mitigation plan is provided with this letter depicting required mitigation areas to meet ordinance.*
- 4. A wetland buffer authorization will be required for this project. For final site plan approval, the applicant should list any mowing, filling (cubic yards/type), and/or excavating that will be performed within the setback. *Acknowledged.*
- 5. The Applicant is encouraged to provide wetland conservation easements for any areas of remaining wetland and 25-foot wetland buffer. The Applicant shall provide wetland conservation easements as directed by the City of Novie Community Development Department for any areas of proposed wetland mitigation areas. This language shall be submitted to the City Attorney within 60 days of the issuance of the City of Novi Wetland and Watercourse permit. *Acknowledged.*
- 6. The construction of a proposed wetland mitigation occurs adjacent to two existing wetland areas. Review and/or approval from EGLE may be required due to the potential for incidental impact on these existing and potentially regulated wetland features at the wetland mitigation site. Merjent nor the City of Novi can make a determination if a permit is required, from EGLE, for the proposed mitigation site that would potentially influence the hydrology of these existing wetlands. The existing mitigation site wetlands may or may not be regulated by EGLE. The proposed mitigation site is exempt from requiring additional City of Novi Wetland and Watercourse Permitting under Section 12-171(b)(18): Activities within a wetland or watercourse solely for the purpose of creating additional wetland areas on adjacent land for mitigation purposes.

Wetland hydrology is groundwater driven as confirmed by piezometer readings and soil borings. As a result, impacts to surrounding hydrology is highly unlikely. EGLE permits



are not anticipated because the construction will be done from upland with final grades meeting the existing wetland grades along the wetland/upland boundaries.

Woodland – Sheetz Site

 City-regulated woodlands, as identified on the City of Novi Woodlands interactive map website, are likely present onsite. Note that both the woodlands and property limits depicted on the City map are considered approximations. A visit was performed on March 26, 2024 to verify and review the extent of woodlands on-site. Figure 1 attached has a polygon showing the approximate woodland areas onsite. Select photos from the site visit are included in Attachment A.

Tree replacement calculations have been updated.

- 2. When a proposed site plan is located within a regulated woodland, any tree proposed for removal with a diameter at breast height (DBH) greater than or equal to eight inches will require tree replacement and a Woodland Use Permit per Section 37-8. This also applies to any tree that will be preserved, but where impacts to critical root zones are proposed. *Acknowledged.*
- 3. Regardless of the presence of regulated woodlands onsite, a Woodland Use Permit is required to perform construction on any site containing the removal of trees larger than 36 inches in DBH. Review of PSP Sheet 3 shows that no trees larger than 36 inches DBH are located on-site. *Acknowledged.*
- 4. The plan has proposed the removal of 41 regulated trees. A Woodland Use Permit is required to perform any construction on any site containing regulated woodlands. The permit for this site would require Planning Commission approval because more than three trees are proposed to be impacted/removed by construction. *Acknowledged.*
- 5. Woodland Replacement. Based on review of the rPSP, a summary of woodland replacements is provided in the plan. The Woodland Replacement tables need to be adapted and revised. *Woodland replacement tables have been added.*
- 10. A financial guarantee, in the amount of \$6,000 (120% x \$5,000) is required for tree protection fencing maintenance per Chapter 26.5-37. This guarantee shall be paid prior to issuance of the City of Novi Woodland Use Permit.
 - a. For final site plan approval, the cost to stake, install, and remove tree protection fencing should be added to the Landscape Plan. This is needed to calculate woodland fence inspection fees.

Acknowledged.

11. Based on a site visit performed on March 26, 2024, the trees depicted in the site plan for the parcel boundary are accurate and the tree survey matches what is within the parcel boundary. Photographs on the site visit are enclosed in Attachment A. *Acknowledged.*

Woodland Review Comments – Mitigation Site

- 1. Pursuant to Section 37-28, woodland surveys shall be provided by a registered landscape architect, certified arborist, or registered forester, through an onsite inspection. *A signed and sealed tree survey will be included with the FSP submittal.*
- 2. A The rrPSP has proposed the removal of 27 trees within a regulated woodland. The following table is summarized based on Merjent's review of the provided plan and does not match what is



Date: 10.02.2024 Project: 20415.00 Page: 6

provided on Sheet C14 and C15. The applicant should review their total replacement/removal counts and ensure they are accurate prior to Final Site Plan Review. Acknowledged.

- 3. Accurate critical root zones must be depicted on the site plan for all regulated trees within 50 feet of proposed grading or construction activities. Acknowledged.
- 4. Regulated woodland disturbance includes impacts to the critical root zone of regulated trees. including but not limited to encroachment by grading, landscaping, and construction. If impacts to the critical root zone of regulated woodland trees are proposed - woodland replacements are required.

Acknowledged.

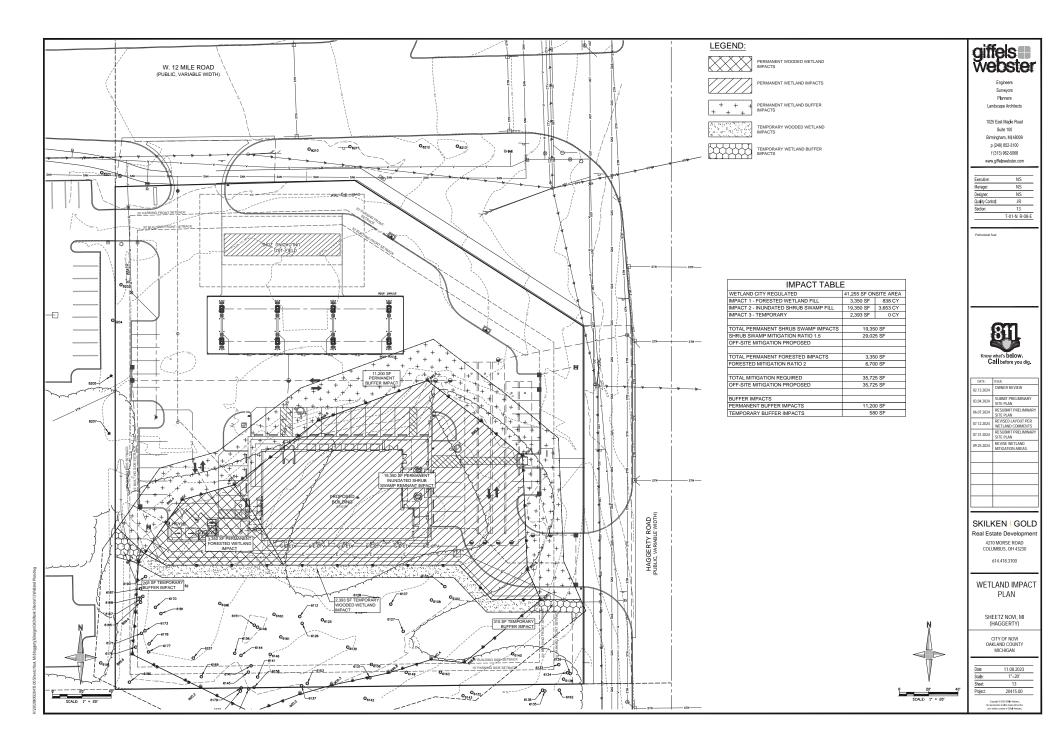
- 5. Sections 37-9 and 37-28 state requirements for showing tree protection fencing in site plans. The mitigation site does not show the use of protective barriers around woodlands that will not be impacted.
 - Acknowledged.
- 6. The applicant has elected to payment into the City of Novi Tree Fund. Based on the rrPSP, the payment will be in the amount of \$24,800 but may differ pending review of the Comments 2 through 4 (above). Acknowledged.

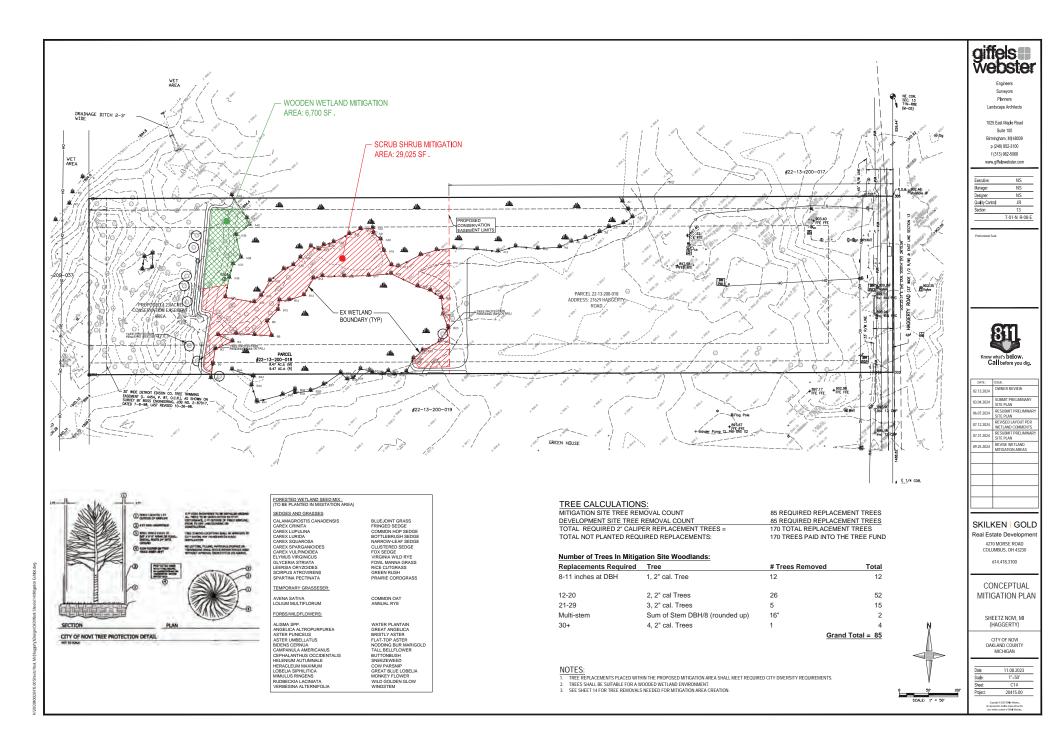
Please feel free to contact me if you have any questions.

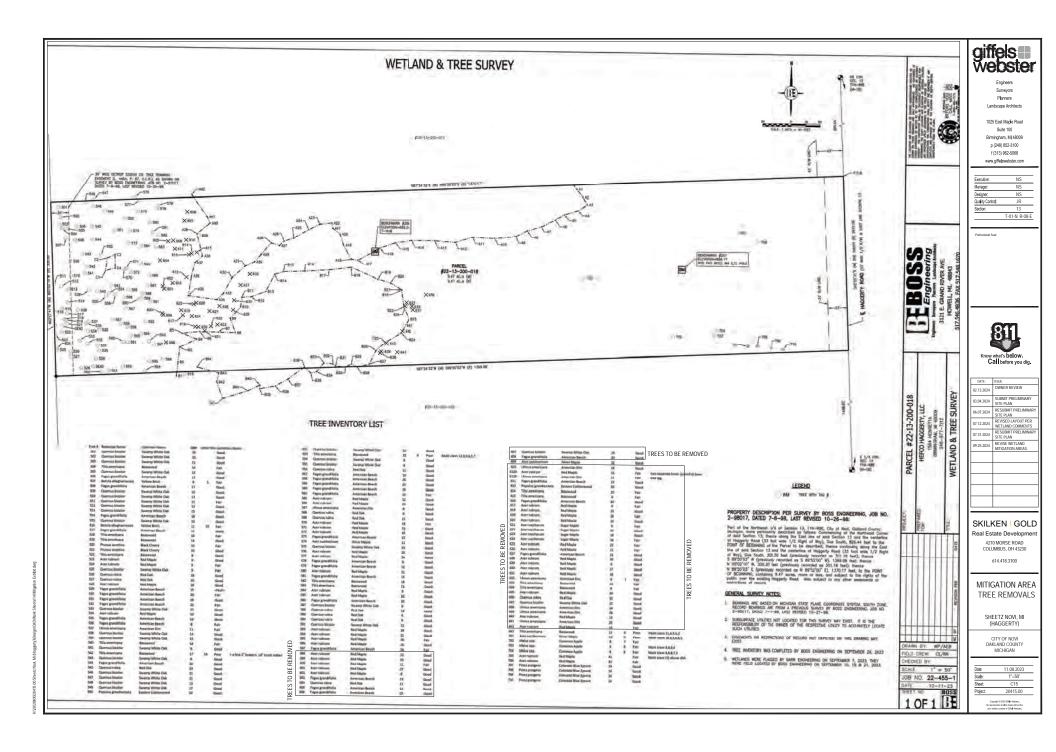
Respectfully, **GIFFELS-WEBSTER**

Y pury M Standish Nancy Standish, PE

Partner









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May 1, 2024

Kareem Amr Skilken Gold 4270 Morse Road Columbus, OH 43230

RE: Sheetz Novi Property 39471 Twelve Mile Road Parcel ID No. 22-13-200-016 Novi, Michigan City of Novi File No. JSP23-33

Dear Kareem Amr:

The following document is intended to summarize proposed impacts to cityregulated wetlands on the Sheetz Novi property and to document the rationale for the selected wetland mitigation proposal. The proposed project includes the demolition of an existing BP gas station at 39471 Twelve Mile Road to construct a new 6,132 square foot convenience store with eight double-sided fueling stations.

As part of redevelopment activities, a portion of a city-regulated wetland will be impacted due to fill. The existing wetland is not EGLE regulated and therefore does not require EGLE approval for the impacts. The proposed permanent impacts are as follows:

•	Inundated Shrub Swamp Remnant Scrub/Shrub Wetland	21,570 sf (0.495 acres) Permanent Impact
•	Forested Wetland	5,660 sf (0.130 acres) Permanent Impact
	Total Proposed Impact	A CALL AND A



Mitigation of these wetland fills, if permitted, are defined in the ordinances and listed below:

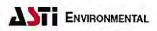
 Inundated Shrub Swamp Remnant Wetland 1.5:1 ratio 32,355 sf (0.743 acres) mitigation

Forested Wetland 2:1 ratio
 Total Required Mitigation
 43,675 sf (1.03 acres)

Wetland Mitigation Selection Considerations

ASTI Environmental, in conjunction with Skilken Gold and the Skilken Gold real estate team, analyzed a total of 10 properties throughout the city for potential mitigation use. These properties were assessed using published data such as aerial photos, City of Novi mapping (wetlands, woodlands, and 2-foot contour), EGLE mapping, and soils surveys. Several site assessments included field visits and a Geoprobe was used on two of the sites that made it through to final consideration (West Road property and the selected Haggerty Road property). The Geoprobe was used to further assess soils and depth to groundwater. The following site characteristics were assessed for each site to determine wetland mitigation potential:

- Existing wetland existing wetland on the property in question or the surrounding properties indicates a potential for wetland creation through expansion.
- Mapped soils soils mapped as poorly drained, for example, indicate a
 potential source of wetland hydrology.
- Topography city 2-foot contour maps provided insight into the amount of grading that may be required. Topography coupled with existing wetland provided an estimate for depth to groundwater.
- Presence or absence of woodland converting city mapped woodland or trees in general to create wetland was not desired, nor expected to be approved.
- Hydrology source properties with ground water as the hydrologic input were desired over the use of surface water runoff.
- Existing development some properties reviewed were "development ready" and were eliminated due to the presence of infrastructure.
- Availability for purchase the majority of properties reviewed were for sale; however, the selected site was not. The owner was approached and is willing to discuss potential purchase of a portion of his property.



 Measured depth to groundwater – two sites, a property on West Road and the selected mitigation site, are currently being monitored for depth to groundwater from installed piezometers. The West Road site will likely be eliminated due to groundwater being too deep.

Selected Mitigation Alternative – Portion of 27629 Haggerty Road

The selected mitigation proposal is to purchase +/-4 acres of the +/-9 acres owned by Howard Friedlaender located at 27629 Haggerty Road (approximately 770 feet south of the subject property). Per the included plan, the proposal is to purchase the back portion of the property for required wetland mitigation. The plan proposes a total of 29,030 sf (0.667 acres) of mitigation. This is a mitigation ratio of 1.07:1. Rather than mitigating separate wetland types, the project is proposing the mitigation to be all forested wetland. Forested wetland is less common and a more desirable, generally higher functioning wetland type.

Created forested wetland will also provide the opportunity for addressing the tree replacement obligations associated with the Sheetz development. It is estimated that all but 20 replacement trees can be accommodated within the wetland mitigation area.

Proposed construction within the mitigation area includes cutting grades down one to two feet to meet the same elevation as the adjacent wetlands and to intercept groundwater, the intended primary source of hydrology. The constructed mitigation area will then be planted to meet mitigation standards for the wetland type, specifically, trees and a forested wetland seed mix, using only species native to Michigan.

In addition to placing the 29,030 sf mitigation area in a conservation easement, the mitigation proposal includes the placement of the entire 4.23 acre section of adjacent forested land within a conservation easement. The wooded area contains a diverse assemblage of tree species including swamp white oak, basswood, American beech, yellow birch, black cherry, red maple, red oak, American elm, and sugar maple. These trees range in size from 8 inches up to 29 inches with most being in the 10-15-inch range.

The final mitigation effort proposed is as follows:

- New wetland construction at a ratio of 1.07:1
- Additional conservation easement at a ratio of 5.35:1.

The ecological benefits of this proposal include no net loss of wetland acreage within the city by meeting a minimum 1:1 ratio and the mitigation site is located in close proximity to the permitted impacts (approximately 770 feet away). In addition, existing upland forest will be protected from development in perpetuity



through a conservation easement as part of the wetland mitigation. This forested area is currently only protected by the woodland ordinance.

The added benefit of this proposal is the minimal risk of failure. Rather than attempting wetland creation in an area with unknown or an estimated source of hydrology, such as surface water runoff, this wetland creation area will be driven by groundwater, which is currently being monitored. Further, it will be made part of a much larger wetland/forested upland complex adding to the functions and values of that complex and servicing the area in which the impacts will occur.

We greatly appreciate the opportunity to work with you on this project. If you have any questions or comments, please do not hesitate to contact me at 734.474.0190 or dknox@asti-env.com.

Sincerely yours,

ASTI ENVIRONMENTAL

Dana R. Knox, PWS Wetland Ecologist Certification No. 213

Attachments: 2024-05-02 Mitigation Exhibit-13 2024-05-02 Mitigation Exhibit-14



NOISE IMPACT STUDY



2023-121R1 December 15, 2023

Mr. Andrew Richlen, PE, MBA Project Manager Skilken Gold Real Estate Development 4270 Morse Road Columbus, OH 43230

Subject: Gas Station & Store Community Impact Statement re: Sheetz Store – SWC Twelve Mile Rd. & Haggerty Rd. Novi, MI

Dear Mr. Richlen:

At your request and authorization, Kolano and Saha Engineers, Inc. (K&SE) has conducted an investigation to provide a community impact statement for the City of Novi regarding the operation of the proposed gas station and store. This investigation reviewed the building mechanical equipment noise impact to the surrounding community. These sound levels were evaluated against the limits established by the City of Novi Ordinance.

Proposed Site

The location of the proposed Sheetz Store is at the southwest corner of Twelve Mile Road and Haggerty Road. All properties adjacent to the proposed Sheetz location are commercial, including to the east of Haggerty Road in Farmington Hills. The closest residential properties are to the north-northeast, approximately 800 feet away in Farmington Hills. The next closest residential properties are to the south, approximately 1800 feet away in Novi. The City of Novi noise code limits for commercial properties apply at all adjacent property lines within the Novi boundaries. **Exhibit 1** provides an aerial view of the site with the proposed building, drives and parking lot overlaid, as well as the zoning of adjacent properties and the City of Novi boundary to the east.

Sound level predictions were based on the location of property lines, mechanical equipment, and equipment manufacturer noise data. The following documents were utilized for the predictions:

- Giffels+Webster site plan, Sheetz Novi dated 7/26/2023.
- Convenience Architecture and Design PC architectural plans, mechanical plans, plumbing plans, electrical plans dated 10/2/2023
- Sound power data provided for the proposed rooftop air makeup units as provided to us by equipment manufacturers.

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City of Novi Noise Code

The City of Novi Code, Zoning Ordinance, Section 5.14 Performance Standards, Subsection 10 Noise, restricts property line noise levels to 75dB(A) daytime and 70dB(A) nighttime for business and commercial zones. Furthermore, it restricts property line noise levels to 60dB(A) daytime and 55dB(A) nighttime for residential zones. Daytime is defined as 7AM - 10PM with Nighttime occupying 10PM - 7AM.

Operations of the Sheetz store are expected to occur during daytime and nighttime periods. Additionally, it is expected that the roof top mechanical equipment may operate 24 hours a day to maintain building environmental conditions.

City of Farmington Hills Noise Code

The City of Farmington Hills Code of Ordinances addresses noise standards in Article VII, Section 17-101. – Noise. In residential districts, it restricts property line noise levels to 60 dB(A) at daytime (7AM to 7PM), 55 dB(A) at evening (7PM to 10PM), and 50 dB(A) at nighttime (10PM to 7AM). In commercial districts, it restricts property line noise levels to 65 dB(A) at daytime (7AM to 7PM), and 50 dB(A) at nighttime (7PM to 7AM).

Advanced Computer Modeling Noise Prediction

Sound is a physical phenomenon that can be readily predicted with reasonable accuracy. To evaluate the sounds created from the proposed Sheetz store and determine what noise impact may occur at the site boundaries, we developed an advanced three-dimensional, outdoor acoustical model. This model allows accurate prediction of sound levels created by the operation of known building mechanical systems and related delivery operations. The computer program we use for this modeling relies on international standards (such as ISO 9613) to properly calculate and predict sound levels. The computer program relies on user inputs of terrain, structures, foliage, obstacles, sound reflective and absorptive surfaces, receiver positions, as well as the type of sound source, including point sources (small individual devices, such as small fans), line sources (numerous sources in a line, such as road traffic), and area sources (sources with large surface areas, such as transformers). By using this predictive tool, we have constructed a virtual acoustic model of the proposed Sheetz store site and have developed sound level predictions for it.

Building Rooftop Mechanical Equipment

Building mechanical systems consist of three roof top air handling units, six refrigeration condenser units, and two exhaust fans. These mechanical units will be located on the roof the Sheetz store, shielded by a screen wall. Sound level data used for these mechanical systems comes from the unit manufacturers. Our modeling assumes a worst-case scenario with all units operating simultaneously at nighttime. The predicted sound level contour plots with this equipment operating are shown in **Exhibit 2**. The predicted sound level for the rooftop mechanical equipment is expected to be below all applicable ordinance noise limits.

Mr. Andrew Richlen Skilken Gold

Delivery Trucks Traveling on Site

The Sheetz store is expected to receive deliveries on a regular basis. Store supplies are expected to be delivered by WB67 delivery trucks. Deliveries are expected on a weekly basis and will occur during daytime hours. Similarly, fuel deliveries are expected to occur on a weekly basis during daytime hours. Additional deliveries may come by box trucks or vans. Loading and unloading is expected to occur during normal daytime business hours. The delivery vehicles are expected to enter and exit the site from Haggerty Road and W Twelve Mile Road. Delivery vehicles operating on the Sheetz site are expected to comply with the City of Novi noise regulations.

Customer Vehicles on Site

Vehicles moving on site of the Sheetz store are expected to produce relatively low levels of noise. These levels are expected to be well below traffic sound levels on Twelve Mile Road and Haggerty Road.

Conclusions

Based on the findings of our investigation, we expect the proposed Sheetz Novi store to comply with the City of Novi ordinance noise criteria.

Mr. Richlen, we hope this summary of our investigation is informative and helpful. Should you need additional information regarding this work or additional assistance, don't hesitate to ask.

Sincerely, KOLANO AND SAHA ENGINEERS, INC.

town ally

Darren Brown, P.E. INCE Board Certified Consultant

