

Trustees Scott Ruggles Liz Fessler Smith Andrea C Voorheis Michael Powell

PLANNING COMMISSION MEETING LOCATION: TOWNSHIP ANNEX, 7525 HIGHLAND, WHITE LAKE, MICHIGAN 48383 (FORMER WHITE LAKE LIBRARY) THURSDAY, OCTOBER 07, 2021 – 7:00 PM

White Lake Township | 7525 Highland Rd | White Lake, MI 48383 | Phone: (248) 698-3300 | www.whitelaketwp.com

AGENDA

- 1. CALL TO ORDER
- 2. ROLL CALL

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- 3. PLEDGE OF ALLEGIANCE
- 4. APPROVAL OF AGENDA
- 5. APPROVAL OF MINUTES
 - Regular Meeting Minutes of September 2, 2021
- 6. CALL TO THE PUBLIC (FOR ITEMS NOT ON THE AGENDA)
- 7. PUBLIC HEARING
- 8. CONTINUING BUSINESS
- 9. NEW BUSINESS

A. Redevelopment at 9328 Highland Road

Location: located on the north side of Highland Road (M-59) and west of Fisk Road. Consisiting of approximately 1.17 acres. Currently zoned (GB) General Business. Identified as parcel number 12-203-201-010 Request: **Final Site Plan Approval** Applicant: White Lake Retail Management, LLC 30200 Telegraph Road Bingham Farms, MI 48205

10. LIAISON'S REPORT

11. PLANNING CONSULTANT'S REPORT

- **12. DIRECTOR'S REPORT**
- **13. OTHER BUSINESS**
- **14. COMMUNICATIONS**
- **15. NEXT MEETING DATE:**
 - A. October 21, 2021 & November 4, 2021
- 16. ADJOURNMENT

WHITE LAKE TOWNSHIP PLANNING COMMISSION 7525 Highland Road White Lake, MI 48383 SEPTEMBER 2, 2021 @ 7:00 p.m.

Chairperson Anderson called the meeting to order at 7:00 p.m. and led the Pledge of Allegiance. Roll was called.

- ROLL CALL: Steve Anderson, White Lake, MI Peter Meagher, White Lake, MI Rhonda Grubb, White Lake, MI Merrie Carlock, White Lake, MI Matt Slicker, White Lake, MI Scott Ruggles, White Lake, MI
- Absent: Mark Fine Debby Dehart Joe Seward
- Also Present: Sean O'Neil, Planning Director Hannah Micallef, Recording Secretary
- Visitors: No members of the public present

Approval of Agenda

Commissioner Meagher moved to approve the agenda as presented. Commissioner Grubb supported and the MOTION CARRIED with a voice vote: 7 yes votes.

Approval of Minutes

a. August 19, 2021

Commissioner Carlock added that she chaired the August 19th, 2021 meeting.

Commissioner Meagher moved to approve the minutes of August 19, 2021 as amended. Commissioner Carlock supported and the MOTION CARRIED with a voice vote: 7 yes votes.

Call to the Public (for items not on the agenda) There were no members of the public present.

Public Hearing:

A. 2022-2027 Capital Improvement Plan (CIP)

Planning Director O'Neil summarized what a CIP was and the CIP process. The CIP serves as a tool for Township infrastructure projects and to get said projects off the ground with funding spread out over 6-year periods. This is done every September; and the CIIP serves as a budgeting tool for the Township Board. The CIP acted as a wish list, it was not a budget. There was a threshold of \$50,000.00 when identifying capital projects. Water and sewer projects, for example, end up being CIP projects, due to their cost. Sewer lining and the design of the Triangle Trail were two completed processes that were considered a success this year. The Planning Commission was charged with holding a public hearing for the CIP and to approve the document to send to the Township Board. The Township Board will consider the CIP for acceptance at their September meeting. Planning Director O'Neil wanted to thank the departments and staff within the Township for their help with putting the CIP together, and especially wanted to thank Staff Planner Quagliata for his efforts and work this year.

Chairperson Anderson asked if the resolution put out by the state for the CIP required a 6-year rolling plan. Planning Director O'Neil said yes, and the Township was required to prepare a CIP per the State because there were public utilities that the Township maintained.

Commissioner Carlock asked if the Planning Commission adopted CIP, did the Township Board needed to adopt it as well. Planning Director O'Neil said it was the Planning Commission who adopt the CIP, and the Township Board was the entity who accepted it. If the Township Board did not accept the CIP, the CIP would come back to the Planning Commission for changes to be made.

Chairperson Anderson opened the public hearing at 7:22 P.M. Seeing no public comment, Chairperson Anderson closed the public hearing at 7:24 P.M.

Commissioner Slicker asked staff about the water supply fund, Planning Director O'Neil said the water projects were funded out of the enterprise fund, and the sewer projects were funded from the general fund. Commissioner Slicker said the upgrades to the sewer systems should be funded by the enterprise fund. Planning Director O'Neil said general fund contribution should be added to page 2-4. He added that the sewer revolving funding would go into the Bogie Lake/Lakeland High School project, and will be a project that would be done through the school district and the Township. The majority of the project would be paid by the school district by means of the sewer revolving fund. The sewer revolving fund money comes to the Township, as the Township was the beneficiary for the funds, and then the school district would pay the money back through the Township. Planning Director O'Neil said Director Potter would have more information. Commissioner Ruggles said the DPS department typically had the funding to cover their projects, and the project to take sewer down M-59 westbound would be costly.

Chairperson Anderson asked staff about the pump station at Lakeland, and wanted to know if the installation of the booster station would be added to the station to enhance its effectiveness. Planning Director O'Neil said the booster would continue to move the pressure through the system to avoid friction in the pipes.

Commissioner Meagher asked staff why the police didn't have a lot of projects. Planning Director O'Neil said it was because they didn't have many projects over \$50,000.00. The new Public Safety building project costs was under the general fund. Chairperson Anderson asked if

Item A.

Item A.

the new safety building would be funded by the millage. Planning Director O'Neil said that was unknown at this time. Commissioner Ruggles asked Planning Director O'Neil if the public safety building would be incorporated with the Civic Center development project. Planning Director O'Neil said Mr. McGraw from River Caddis wanted to workshop with the Planning Commission in the future, and wanted to bring this up as a topic.

Chairperson Anderson asked staff about the new generator and if it would be transferable if the Township moved facilities. Planning Director O'Neil confirmed.

Chairperson Anderson asked staff about the fire ladder truck, and asked why a 100' ladder truck was needed. Planning Director O'Neil said 100' was standard, and it was an operational item the Fire Chief could speak to.

Commissioner Slicker asked staff if the CIP was for the current calendar year. Planning Director said it was a six-year rolling plan, and the projects were rated and called out in different years.

Commissioner Meagher moved that the White Lake Planning Commission adopt the 2022-2027 as presented and make a recordation to the Township Board to accept the CIP as presented. Commissioner Carlock supported, and the motion CARRIED with a roll call vote: (6 yes votes)

(Slicker/yes, Carlock/yes, Ruggles/yes, Anderson/yes, Meagher/yes, Grubb/yes)

Continuing Business

No continuing business.

Old Business: No old business.

New Business:

No new business.

Other Business:

No other business.

Liaison's Report

Commissioner Grubb said the Parks and Rec provided totes for the run that was held in August. The shipping containers are going to be removed from Hawley, and the signs and picnic tables will be in Stanley Park soon. The water testing at Stanley Park went well. There will be geocaching at Vetter Park. Halloween at Fisk Farm was scheduled for October 16th.

Commissioner Carlock said the Harvest Happenings will happen in October in Hess-Hathaway Park in Waterford.

Commissioner Ruggles said that the Township Board had a special meeting with the Fire Department. The Fire Department was currently a BLS (Basic Life Support) system, and they requested to be moved to an ALS (Advanced Life Support) system. The paramedics would be able to assist a resident in need without the STAR paramedic team. Currently, the fire department relies on STAR for further acts to save a life, and STAR has an average response time of 20 minutes. There would be increased costs to do this, and the Township Board approved a motion to begin exploring the requirements and costs for the

Item A.

transition. If the transition was approved, the Fire Department would be in a probationary period of two years from the State and would have a choice to continue after that.

Commissioner Ruggles said the Township Board voted to extend the COV ID state of Emergency until the end of the year. It gave Supervisor Kowall the authority to meet via Zoom or in person, and the Township Board will vote monthly to assess what meeting method will go forward.

The Dublin Senior Center parking lot paving project was presented before the Township Board. DLZ had a project cost of \$60,000.00 just for design. The asphalt estimate was \$90,000.00. The Township Board declined to move forward due to the costs.

Planning Consultant's Report

No report.

Director's Report:

Planning Director O'Neil mentioned again that Mr. McGraw would like to meet with the Commissioners in small groups near the end of the month. The Sonic redevelopment project will be back to the Planning Commission as their loading dock problem was resolved at the Township Board. The Elizabeth Lake Retail project was looking to resubmit preliminary site plans, and could be before the Planning Commission in October.

Communications:

Next Meeting Dates:	September 16, 2021
	October 7, 2021

Adjournment:

Commissioner Grubb moved to adjourn the meeting at 8:0 p.m. Commissioner Carlock supported and the MOTION CARRIED with a voice vote: 7 yes votes.

Director's Report

Project Name: Redevelopment at 9328 Highland

Description: Final Site Plan Approval

Date on Agenda this packet pertains to: October 7, 2021

□ Public Hearing

 $\Box \mbox{Special Land Use}$

⊠Initial Submittal

□Rezoning □Other:_____

 \Box Preliminary Approval

⊠ Final Approval

Contact	Consultants & Departments	Approval	Denial	Approved w/Conditions	Comments
Sean O'Neil	Planning Director			\boxtimes	Per comments below.
DLZ	Engineering Consultant				See letter dated 09/13/2021
McKenna & Associates	Planning Consultant			\boxtimes	See letter dated 09/17/2021
John Holland	WLT Fire Chief				See email dated 09/20/2021
Jeanine Smith	WLT Assessor				See memo dated 09/02/2021



September 13, 2021

Sean O' Neil, Director Community Development Department Charter Township of White Lake 7525 Highland Road White Lake, Michigan 48383

RE: 9328 Highland Road- Commercial Building with Drive Thru – Final Site Plan and Final Engineering Plan - 1st Review

DLZ # 2145-7233-10

Dear Mr. O' Neil,

Our office has reviewed the above-mentioned plans prepared by Stonefield Engineering and Design and dated August 30, 2021. These plans were reviewed for conformance with the Township Engineering Design Standards. We offer the following comments for your consideration:

<u>Preliminary Site Plan Comments-</u>The following comments from our Preliminary Site Plan review letter dated July 7, 2021 are listed below. We have provided responses to those comments in **bold** typeface.

- A separate connection for a sanitary sewer lead is proposed for the drive-thru restaurant. It needs to be clarified that all kitchen discharge lines are routed to the existing external grease trap. Please also clarify if existing oil and grease separator is properly sized for the new use. Comment addressed. A note has been added to Sheet C-5 that all grease will be routed to the existing external grease trap. It is understood that the existing grease trap is 1500 gallons per the Sonic As-Built plans which meets Township requirements.
- 2. The existing watermain easement, where the hydrant and watermain are proposed to be removed, will need to be vacated. Comment remains as a notation. A note to this effect has been added to Sheet C-2.
- 3. The existing storm sewer easements, where the existing storm sewer is to be removed, will need to be vacated. **Comment outstanding. Please add a note to Sheet C-2 with regard to this.**

4494 Elizabeth Lake Rd, Waterford, MI 48328 OFFICE 248.681.7800 ONLINE WWW.DLZ.COM



WLT-9328 Highland Road Commercial Building- FSP/FEP Review.01 September 13, 2021 Page 2 of 4

- 4. The existing detention basin on the northern portion of the site will need to be inspected and maintenance performed prior to a Certificate of Occupancy issuance for the site. Applicant shall provide documentation regarding the existing storm sewer and detention basin maintenance agreement to demonstrate this redevelopment is covered under the original agreement. Applicant will need to update agreements if necessary. Applicant has provided the existing storm sewer and detention basin maintenance agreement and it is understood the maintenance agreement is transferable to new owners. DLZ recommends the Exhibit B sketch and easement descriptions be updated to reflect proposed improvements and easement vacations.
- 5. The as-built plans for the previous Sonic restaurant indicate an existing storm water quality device in an unmarked location in the area where the existing storm sewer runs westerly at the western property line. The location and existing condition of this device will need to be verified or an alternate means of onsite stormwater pretreatment will be required. Comment addressed. A note has been added to Sheet C-4 indicating that the stormwater quality device will be inspected and repaired as necessary prior to construction.
- 6. The proposed plan does not cause an increase in impervious area; it has been reduced by approximately 300 square feet. Our office has no concerns with respect to increased storm water runoff from this property. Details regarding proposed storm sewer pipe sizing will be reviewed at the time of Final Engineering Plan submittal. Comment addressed. The design engineer has submitted details indicating that the impervious area for the proposed improvements will not increase.
- 7. We defer to the Fire Department with regard to items related to fire suppression including proposed hydrant location. **Comment remains as a notation.**
- 8. The plan proposes a new benchmark be established at time of construction; a benchmark on NAVD 88 datum will be required to be established and shown on the Final Engineering Plan. Although the design engineer indicates a new benchmark will be established prior to construction, a new benchmark is required to be shown at this time on the Final Engineering Plan.
- 9. The plan appears to propose 5 foot wide sidewalk in front of the building. Ordinance requires 7 foot walks to account for vehicle overhang. This may be allowable as the plans propose either bumper blocks or handicap signs in front of the spaces which would prevent overhang. We defer further comment to the Planning Department or Planning Consultant. Comment addressed. Sidewalk in front of the building is now proposed as 7' wide.
- 10. The proposed storm sewer easement on the westernmost storm segment is shown over the subject property line. Will this easement be granted by the adjacent property owner? Comment remains, easement has been removed from storm sewer along the western property line. This easement should be included.



Final Site Plan/Final Engineering Plan Comments-

<u>General</u>

- 1. The parcel ID number is in error on the cover sheet. Please revise.
- 2. Provide notes from WLT Engineering Design Standards section A.8.a.-d. on plan.
- 3. Attach WLT Standard Details Sheets to plan.

Grading/Paving

- 1. Provide existing grade for the northernmost curb connection on the west side of the property.
- 2. There appear to be two low points proposed along the drive thru area north of the building (965.55 and 965.35). Ensure positive drainage in these two areas.

Sanitary Sewer

1. Provide sanitary lead slopes; a minimum of 1% slope is required.

Watermain

1. Provide details regarding proposed hydrant lead, including length, size, and pipe type.

Stormwater Management

- 1. Provide the following items for the proposed storm sewer:
 - a. Inside diameter for proposed catch basins.
 - b. Pipe profiles with HGL line shown, all areas of CSB, and all utility crossings.
- 2. Pipe material shall be RCP CL IV.

Required Permits and Approvals

The following items, permits, and approvals will be required:

- 1. An updated Exhibit B within the existing Storm Sewer Maintenance Agreement will be required.
- 2. Vacated easement for portion of watermain to be removed. No new watermain easement will be required as the proposed hydrant falls within remaining easement limits.
- 3. Soil Erosion Permit through OCWRC.



WLT-9328 Highland Road Commercial Building- FSP/FEP Review.01 September 13, 2021 Page 4 of 4

Recommendation

We recommend the plans be revised to address the above referenced items and be resubmitted for review. *Please provide a response letter to the above comments; this will ensure a more streamlined review of the revised plan by our office.*

Please contact our office should you have any questions.

Sincerely,

DLZ Michigan

M Leve

Michael Leuffgen, P.E. Department Manager

Encl. White Lake Township Standard Details White Lake Township Standard Notes

Cc: Justin Quagliata, Community Development, via email Hannah Micallef, Community Development, via email Aaron Potter, DPS Director, White Lake Township, via email Nick Spencer, Building Official, White Lake Township via email John Holland, Fire Marshall, White Lake Township, via email

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Victoria Loemker, P. E. Senior Engineer

MCKENNA



September 17, 2021

Planning Commission Charter Township of White Lake7525 Highland Road White Lake, MI 48383

Subject: 9328 Highland Road Final Site Plan Review Zoned: General Business (GB) District

Petitioner(s): White Lake Retail Management, LLC

Location: North side of Highland Road, west of Fisk Road and east of Village Drive

Dear Planning Commissioners:



Source: Oakland County Property Gateway

We have received an application for final site plan review for 9328 Highland Road, parcel number 12-23-201-010, dated August 30, 2021 consisting of approximately 1.18 acres, currently zoned General Business (GB). The lot is the site of the Sonic Restaurant (currently closed). The final site plan is consistent with the preliminary site plan that was approved by the Planning Commission at their August 5th meeting, subject to the following conditions:

1. Specifications on the number of tables and chairs to be made a part of the final site plan. The petitioner needs to put this on the site plan; however, he verbally stated that there will not be any more than 16 chairs/4 tables.

HEADQUARTERS 235 East Main Street Suite 105 Northville, Michigan 48167

O 248.596.0920 F 248.596.0930 MCKA.COM

Communities for real life.



2. The Petitioner needs to provide calculations for the amount of the façade that meets the Zoning Ordinance requirements as well as the percentage of windows on the front façade (required to be at least 30%).

This has been provided on sheet PP-4. The percentage of durable materials ranges from 53% to 60%.

3. Petitioner to provide a copy of the development agreement that addresses the cross-access easements.

This was provided.

- 4. Determination by the Planning Commission as to the lack of a delineated loading zone. The Township Board determined that the loading zone proposed on the revised preliminary site plan meets the spirit and intent of the Zoning Ordinance, and is preferable to no loading zone. The loading zone, as proposed, is 15'x 30'.
- 5. Determination by the Planning Commission as to the lack of a buffer on the west side of the site.

The Planning Commission was ok with utilizing Belle Tire's buffer to meet this requirement,

- 6. A note on the plan regarding a two-year guarantee and bond for all new plant materials. **Note has been added.**
- 7. A note that all landscaped areas that abut parking areas will be separated with a 6-inch curb. **Note added and detail provided.**
- A note that any landscaping materials that are in poor condition will be removed and replaced with materials that meet the Zoning Ordinance requirements.
 Noted on landscape plan
- 9. Dimension of existing pathway along Highland Road added to final site plan. Added to plan
- 10. Determination by the Planning Commission as to the appropriateness of the existing level of lighting, which exceeds the Zoning Ordinance maximum for foot candles at the lot lines and internally within the site.

At their August 5th meeting, the Planning Commission determined that the proposed lighting and the maintenance of the existing parking lot lights are acceptable as there is no overflow into the traversed portion of Highland Road or Elizabeth Lake Road.

11. The petitioner should revise the proposed (wall sconce) light fixtures with those that meet the Ordinance requirements.

A note was added to the plan; however, new fixtures were not submitted.

12. The Petitioner to provide detail on the wall sign calculations with respect to the front façade area and the area of the proposed wall signs.

A note was added to sheet PP-4 that signage would be coordinated by each tenant to comply with the Zoning Ordinance requirements.

13. Address of the businesses being added to the monument sign in letters at least 6 inches in height,

This was not addressed

14. Determination by the Planning Commission as to the utilization of the existing trash dumpster enclosure.

The Planning Commission determined that, provided the enclosure is in good shape, it may be used.

- 15. A site inspection showed that the white, metal fence in the rear of the site is in need of repair. A note should be added to this effect on the final site plans. Noted on the site plan, sheet C-3
- 16. Sidewalk in front of building be increased from five feet to seven feet. The sidewalk width was increased, however, it appears that the western most portion (in front of the restaurant's front entrance door) is still less than seven feet.
- 17. Sidewalk on east side of building be increased from four feet to five feet.



The width was increased, as shown on sheet C-3.

COMMENTS

1. Existing Conditions. The conditions of the site and the surrounding area are summarized below:

Location	Existing Land Use	Master Plan	Existing Zoning
Site	Sonic Drive Thru	Planned Business	General Business
North	Mobile Home Park	Mobile Home	Mobile Home Park
East	Fisk Corners	Planned Business	General Business
South	Residential	Planned Business	Local Business
West	Discount Tire	Planned Neighborhood	General Business

- 2. Proposed Use. The Petitioner is proposing to demolish the existing Sonic building and construct a 5,840 square foot building. The easterly portion will consist of 3,000 square feet of retail and the western portion will consist of 2,840 square feet for a restaurant with a drive thru. The Petitioner is proposing to remove the building and parking spaces, with the exception of the thirteen spaces along the Highland Road frontage and reconfiguring the ADA spaces in the front of the building. Fisk Corners Shopping Center is located to the east and Discount Tire is located to the west of the subject property. Retail and restaurant uses are permitted in the General Business District. A drive thru and outdoor dining, which are proposed, are special land uses; however, because the property has been previously approved for such uses, no public hearing or separate special land use approval is required. The Petitioner stated that they approximate four tables and sixteen chairs for the outdoor dining. Specifications on the number of tables and chairs should be made a part of the final site plan review approval.
- 3. Building Placement; Architecture and Design. The site is of a conforming area and the building complies with all of the setback requirements for the General Business District with the exception of the lot width, which is required to be 200' but is actually 148.8' in width. Additionally, the developer is proposing to keep thirteen of the existing (previously approved) parking spaces that are located in the required front yard setback.

Applicable Requirement	Required by the Zoning Ordinance in the GB District	Proposed	
Front Yard Setback	50 feet	89.2 feet	
Side Yard Setback	15 feet	27 feet (west) 47.9 feet (east)	
Rear Yard Setback	20 feet	158.8 feet	
Building Height	35 feet or two stories	23 feet	
Minimum Lot Area	1 acre	1.18 acres	
Minimum Lot Width	200 feet	148.8 feet	

The building consists of brick veneer on the lower (approximately) one-third of the building, EIFS on the upper two thirds of the building, a prefinished metal coping along the top of the building and windows along the front and on the west and east elevations for approximately 19 feet. A narrow band of EIFS in a contrasting color is also shown just below the metal coping. At the August 5th Planning Commission meeting, the petitioner was asked to increase the amount of durable materials, possibly reduce the amount of EIFS and provide those calculations for percentage of durable materials on each elevation. The elevations were revised as follows:



- The brick veneer was increased on each elevation, most notably the front elevation. Previously, the brick veneer (on the columns) only went up the building approximately half way, the current plan has the brick continuing up to the metal coping. The amount of EIFS was reduced on the other three elevations as well.
- The percentage of durable materials was noted on each elevation, on sheet PP-4.

Four fabric awnings are proposed along each bay of windows and a sign area has been identified above the western most and eastern most bay of windows. The petitioner should provide a section detail and more specifics about the canopies.

4. Site Circulation and Parking. Fifty-three parking spaces are required and proposed. As - mentioned earlier, thirteen spaces in the front will remain. The site currently has nine 9' x 19' parking spaces in the rear, adjacent to the fence. They are proposing eleven, 9' by 19' spaces in this same area. The parking spaces on the east side of the site are proposed to be 17 feet long. The Zoning Ordinance allows for 17-foot spaces if they abut a sidewalk or landscaped area. This landscaped area was reduced from four feet to three feet, reducing down at the southern end of the site to zero feet. This was done to accommodate the wider sidewalk on the east side of the building; however, this is unacceptable as there needs to be a landscaped strip adjacent to those parking spaces – and a strip that will allow plant material to thrive. The previously recommended boxwood (43 of them) are not salt tolerant and will likely not survive in a narrow-landscaped strip adjacent to a parking lot that undoubtably will be salted heavily in the winter months. The petitioner stated that they may reduce the drive aisle on the west side of the site to allow for a 3-4-foot landscaped area.

Eight stacking spaces for the drive thru are required and are shown on the site plan. Entry to the site is from a 25' cross access easement that runs the width of the property. Curb cuts on Discount Tire and Fisk Corners Shopping Center provide access to this site both in the front and rear. A condition of the approval in 2008 was that the Township and the property owner enter into an agreement stating that the Sonic proprietor would voluntarily enter into a development agreement with the Township ensuring that no new driveways/curb-cuts would be pursued for the Sonic parcel now, or in the future, and that all driveways, parking, maneuvering lane and internal connections would be shared between these three parcels (to the east and west of the subject parcel). This has been submitted by the Petitioner.

Circulation is two way on the east side of the site and one way on the west side (to accommodate the drive thru traffic). As mentioned earlier, a 15' x 30' loading space is shown and the Township Board felt it was adequate.

5. Landscaping and Screening.

• Interior Landscape Requirements:

Per Section 5.19(E) of the Zoning Ordinance outlines the requirements for interior landscaping. A total of 15% of the total lot area shall be landscaped. Based on the lot area of 51,219 square feet, 7,683 square feet of landscaping is required, which equals 26 trees and 128 shrubs. The petitioner is proposing 16,449 square feet of overall interior landscaping, 30 trees and 134 shrubs. However, the landscape plan shows18 existing trees and 11 new trees. The petitioner should clarify this difference.

• Parking Lot Landscaping Requirements:

Per Section 5.19 (G) of the Zoning Ordinance outlines that requirements for parking lot landscaping. For commercial spaces, twenty square feet of parking lot landscaping is required for each space. Fifty-three spaces are required/proposed, which equates to 1,060 square feet of required parking lot landscaping – the petitioner is proposing 2,194 square feet.

For every 100 square feet of parking lot landscaping, three shrubs and one large deciduous,



ornamental or evergreen tree. As such, 11 trees and 32 shrubs are required; the petitioner is proposing11 trees and 51 shrubs, which meets the Zoning Ordinance.requirement. However, it appears that there are eight trees and thirty-two shrubs, which is short by three trees. The petitioner should clarify which landscaping materials are meeting the parking lot landscaping requirements as well as which specific plant materials are meeting the interior landscaping requirement.

Per Section 5.19 (G): The requirements, for trees and islands, may be modified when it is found that through careful coordination of parking lot landscaping with peripheral and building plantings an unnecessary duplication of plantings would be created. In addition, consideration shall be given to situations when an excess number of small islands would be created that would only serve to disrupt reasonable traffic patterns and maintenance activities.

• Greenbelt Standards

The Planning Commission determined that the greenbelt between the subject parcel and the parcel to the west is not necessary given the existing landscape plantings of Belle Tire. On the preliminary site plan, the petitioner had a four-foot greenbelt on the east property line with 43 boxwood shrubs. The final site plan shows this same area as having a three foot greenbelt which reduces down to zero feet. Six existing shrubs are shown to be remaining in this area. The petitioner should increase this greenbelt to at least three feet, preferably four feet, and plant some kind of plant material in that space. The existing shrubs are in very poor condition and it's doubtful that they will survive. Grasses, which are salt tolerant and can reach heights of five feet, would be a good option for this area.

Greenbelts are required between non-residential parking areas and the public right-of-way and shall be at least 20 feet wide and improved with one large deciduous or evergreen tree and eight shrubs for every 30 lineal feet, except that they may be substituted in part with a masonry screen wall, 30 inches in height, at the discretion of the Planning Commission, in which case, a five-foot greenbelt adjacent to the screen wall must be provided.

The Petitioner states that the existing 16.9-foot greenbelt adjacent to Highland Road is an existing nonconformity. Five trees and 40 shrubs are required; the Petitioner is proposing four trees and twenty-nine shrubs. Forty shrubs seem to be employed to meet this requirement; however, they are not located on the subject property and must be removed from the plan.

- 6. **Pedestrian Circulation.** Per Section 5.21 of the Zoning Ordinance, an eight (8) foot wide public sidewalk is required along Highland Road. Currently, there is a pathway along the frontage of the property.
- 7. Lighting. Section 5.18(G) of the Zoning Ordinance includes the standards for outdoor lighting. At the preliminary site plan review the Planning Commission determined that the proposed lighting plan, in the parking lot, is acceptable as the level of foot-candles is zero at the travelled part of Highland Road.

Nine, rubbed bronze anodized sconce fixtures are proposed on the building. Article 6, Section 6.8.E.vii of the Zoning Ordinance states *floodlights, wall pack units, and other types of unshielded lights, and lights where the lens or bulb is visible outside of the light fixture are not permitted.* The intent is wall-mounted decorative or architectural lighting must be fully shielded and directed downward – up-lighting or outward shining lighting are not permitted. A note was added to the plan but the sconces are still shown on the detail sheet. **The petitioner should revise the proposed light fixtures with those that meet the Ordinance requirements.** Four wall packs are proposed; two on the rear elevation and one on each side elevation. These wall packs are in compliance with the Ordinance as they are directed downward.



8. **Signs.** Section 5.9 of the Zoning Ordinance regulates signs. The site plan indicates one monument style sign along the Highland Road frontage. The sign is 7'-6" in overall height and 5' wide. The base consists of brick veneer to match the building with a stone cap. The size of the actual sign area is 27.5 square feet per side, which is in compliance with the Zoning Ordinance. The monument sign must have the address of the businesses on it in 6-inch high figures on the base, rather than the sign portion itself.

Two wall signs are shown on the front elevation. A note has been added to the elevation plan, sheet PP-4, that signage will be submitted per tenant. The proposed location of the signage is in compliance with the Zoning Ordinance.

- 9. **Trash Disposal.** The Petitioner is proposing to utilize the existing 9-foot by 22-foot trash enclosure. At the last Planning Commission meeting, the Planning Commission felt that it was acceptable to use the existing enclosure.
- 10. **Special Land Use Approval.** As stated earlier, the Sonic Restaurant received approval for two special land uses: drive thru operations and outdoor dining. A review of the standards as set forth in Articles 6.10 (General Standards for Special Land Uses) and Articles 4.17 and 4.18 (Drive Thru Window Service and Eating Establishments with Entertainment and/or Outdoor Dining, respectively) indicates that the continuation of these special land uses meets the requirements as stated in the Zoning Ordinance; subject to the following items:
 - Petitioner providing information as to the number of tables and chairs for the outdoor dining area; and
 - Note added to the final site plan indicating that the outdoor dining will comply with the hours of operation for outdoor dining as stated in Article 4.18 A I; and
 - Note added to the plan that the noise level from any outdoor speakers will not exceed 70dB at the lot line; and
 - Note added to the plan that the drive thru hours will not exceed those that were approved for Sonic.

RECOMMENDATION

Several items, as identified above need to be addressed prior to final site plan approval:

- 1. Specifications on the number of tables and chairs to be shown on a revised site plan.
- 2. The petitioner should revise the proposed (wall sconce) light fixtures with those that meet the Ordinance requirements.
- 3. Petitioner increasing the sidewalk in front of the building to seven feet for its entirety.
- 4. Address of the businesses being added to the monument sign in letters at least 6 inches in height,
- 5. Canopy section details submitted.
- 6. Clarification on the landscape plan as to which landscaping materials meet the various requirements for landscaping, as detailed above.
- 7. Notes as specified above for those conditions relative to the Special Land Use.

Based on the above recommendations and determinations, we recommend that the Planning Commission approve the preliminary site plan review for 9328 Highland Road subject to the issues identified above and the submission of revised plans for final site plan review.



If you have any questions about this report or require additional information, please do not hesitate to contact us.

Respectfully submitted,

McKENNA

Kathlen M. Jackson

Kathleen Jackson Senior Principal Planner

cc: Mr. Sean O'Neal, AICP Mr. Justin Quagliata Ms. Hannah Micallef

From:	Jason Hanifen
То:	Hannah Micallef
Subject:	RE: FSP for Sonic Redevelopment
Date:	Monday, September 20, 2021 9:26:46 AM

Good morning Hannah, sorry for the delay. The needs from the Fire Department have been met. Have a great day.

From: Hannah Micallef <HMicallef@whitelaketwp.com>
Sent: Monday, September 20, 2021 8:51 AM
To: John Holland <JHolland@whitelaketwp.com>; Jason Hanifen <JHanifen@whitelaketwp.com>
Cc: Sean O'Neil <SONeil@whitelaketwp.com>
Subject: RE: FSP for Sonic Redevelopment

Hi there,

Just a reminder that this one is overdue Thanks!

Hannah Micallef Executive Secretary Planning Department White Lake Charter Township 7525 Highland Road White Lake, MI 48383 Ph : 248-698-3300 x163 Fx: 248-698-3995 www.whitelaketwp.com



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From: Hannah Micallef

Sent: Thursday, September 16, 2021 3:49 PM

To: Aaron Potter <<u>APotter@whitelaketwp.com</u>>; Daniel Keller <<u>DKeller@whitelakepolice.com</u>>; John Holland <<u>JHolland@whitelaketwp.com</u>>; Jason Hanifen <<u>JHanifen@whitelaketwp.com</u>>
Cc: Sean O'Neil <<u>SONeil@whitelaketwp.com</u>>

Assessing Department

Memo

To:	Sean O'Neil, Planning
From:	Jeanine A Smith
Date:	September 2, 2021
Re:	Project Name: Sonic Redevelopment

File No:

Parcel Number:12-23-201-010

Comments: No comment

September I, 2021

Sean O'Neil Charter Township of White Lake 7525 Highland Road White Lake, MI 48383

RE: Engineering Plan Review Proposed Commercial Building with Drive-Through Parcel ID: 12-23-20-010 9328 Highland Road White Lake Charter Township, Oakland County, MI

Sean:

Stonefield Engineering & Design, LLC is pleased to submit documents to address the comments contained in the Site Plan Review Letter dated July 15, 2021. Please find the following items enclosed for review:

ITEM DESCRIPTION	DATED	COPIES	PREPARED BY
Site Development Plans	08/30/2021	I	Stonefield Engineering & Design
Floor Plans & Elevations	08/11/2021	I	Detroit Architectural Group
Site Plan Review Application	06/30/2021	I	White Lake Retail Management
Check for Final Site Plan Review Fee \$5,760.00	09/01/2021	I	Alrig USA Development
Reciprocal Easement Agreement	05/02/2008	I	JPMORGAN CHASE BANK
Storm Water Maintenance Agreement	10/22/2009	1	White Lake Landholding LLC
Electronic Copy	N/A	I	Stonefield Engineering & Design

The following is an itemized response to the comments contained within the Planning Commission Review Letter dated July 15, 2021:

Planning Comments:

1. Specifications on the number of tables and chairs to be made a part of the final site plan.

A tenant has not been finalized for the drive through space. Less than 55 total seats is anticipated.

2. The applicant needs to provide calculations for the amount of the façade that meets the Zoning Ordinance requirements as well as the percentage of windows on the front façade (required to be at least 30%).

Calculations demonstrating compliance with the 30% front façade window percentage requirement.

3. Applicant to provide a copy of the development agreement that addresses the cross-access easements.

Cross-access easement has been included within this application.

4. Determination by the Planning Commission as to the lack of a delineated loading zone.

Loading zone signage has been included on the attached Site Development Plans.

5. Determination by the Planning Commission as to the lack of a buffer on the west side of the site.

Planning Commission approved the west side buffering at the August 5th meeting.

stonefieldeng.com

6. A note on the plan regarding a two-year guarantee and bond for such for all new plant materials.

Note has been added to the landscaping sheet of the Site Development Plans on the 2-year guarantee.

7. A note that all landscaped areas that abut parking areas will be separated with a 6-inch curb.

A note has been added to the landscaping sheet of the Site Development Plans.

8. A note that any landscaping materials that are in poor condition will be removed and replaced with materials that meet the Zoning Ordinance requirements.

A note has been added to the landscaping sheet of the Site Development Plans.

9. Dimension of existing pathway along Highland Road added to final site plan.

Highland Road existing pathway dimension has been added to the site plan sheet of the attached <u>Site</u> <u>Development Plans</u>.

10. Determination by the Planning Commission as to the appropriateness of the existing level of lighting, which exceeds the Zoning Ordinance maximum for foot candles at the lot lines and internally within the site.

Noted.

11. The petitioner should revise the proposed (wall sconce) light fixtures with those that meet the Ordinance requirements.

Noted.

12. The applicant to provide detail on the wall sign calculations with respect to the front façade area and the area of the proposed wall signs.

Wall signage calculations have been included on the attached architectural elevations.

13. Address of the businesses being added to the monument sign in letters at least 6 inches in height.

Address has been added to the proposed monument sign.

14. Determination by the Planning Commission as to the utilization of the existing trash dumpster enclosure.

Noted.

15. Lastly, a site inspection showed that the white, metal fence in the rear of the site is in need of repair. A note should be added to this effect on the final site plans.

Note calling out the fence to be repaired has been added to the site plan sheet of the attached <u>Site</u> <u>Development Plans.</u>

The following is an itemized response to the comments contained within the Fire Department Review Letter dated July 15, 2021:

Fire Department Comments:

1. The access drive shall be designed and maintained to support the imposed loads of fire apparatus and shall be surfaced so as to provide all weather driving capabilities.

Noted. All areas used for fire circulation shall be surfaced with asphalt.

2. The required turning radius shall accommodate the largest Fire Department apparatus (40').

Truck turning exhibit for a 40ft fire truck has been included on the attached Site Development Plans.

3. The angle of approach/Departure to and from White Lake roads shall not exceed 8 degrees.

Noted and provided.

4. The proposed relocation of the existing fire hydrant on drawing C-5 has Fire Marshal approval.

Noted.

The following is an itemized response to the comments contained within the Engineering Review Letter dated July 7, 2021:

Engineering Comments:

1. A separate connection for a sanitary sewer lead is proposed for the drive-thru restaurant. It needs to be clarified that all kitchen discharge lines are routed to the existing external grease trap. Please also clarify if existing oil and grease separator is properly sized for the new use.

Note to clarify the existing grease trap has been added to the utility sheet of the attached <u>Site</u> <u>Development Plans</u>.

2. The existing watermain easement, where the hydrant and watermain is proposed to be removed, will need to be vacated.

Noted.

3. The existing storm sewer easements, where the existing storm sewer is to be removed, will need to be vacated.

Noted.

4. The existing detention basin on the northern portion of the site will need to be inspected and maintenance performed prior to a Certificate of Occupancy issuance for the site. Applicant shall provide documentation regarding the existing storm sewer and detention basin maintenance agreement to demonstrate this redevelopment is covered under the original agreement. Applicant will need to update agreements if necessary.

Stormwater Maintenance Agreement has been included within this submission.

5. The as-built plans for the previous Sonic restaurant indicate an existing storm water quality device in an unmarked location in the area where the existing storm sewer runs westerly at the western property line. The location and existing condition of this device will need to be verified or an alternate means of onsite stormwater pretreatment will be required.

The water quality device has been called out to be inspected and repaired as necessary.

6. The proposed plan does not cause an increase in impervious area; it has been reduced by approximately 300 square feet. Our office has no concerns with respect to increased storm water runoff from this property. Details regarding proposed storm sewer pipe sizing will be reviewed at the time of Final Engineering Plan submittal.

Noted.

Response to Commente 9328 Highland R White Lake September 1, 2021 Page 4 of 4

7. We defer to the Fire Department with regard to items related to fire suppression including proposed hydrant location.

Noted.

8. The plan proposes a new benchmark be established at time of construction; a benchmark on NAVD 88 datum will be required to be established and shown on the Final Engineering Plan.

New benchmark will be established prior to construction.

9. The plan appears to propose 5-foot-wide sidewalk in front of the building, ordinance requires 7-foot walks to account for vehicle overhang. This may be allowable as the plans propose either bumper blocks or handicap signs in front of the spaces which would prevent overhang. We defer further comment to the Planning Department or Planning Consultant.

Sidewalks have been extended to 7ft where vehicles overhang.

10. The proposed storm sewer easement on the westernmost storm segment is shown over the subject property line, will this easement be granted by the adjacent property owner?

Noted. Easement limits have been modified to only stay onsite.

Should you have any questions, please do not hesitate to contact our office.

Best regards,

h / ane y

Mitchell Harvey, P.E. mharvey@stonefieldeng.com Stonefield Engineering and Design, LLC

Half

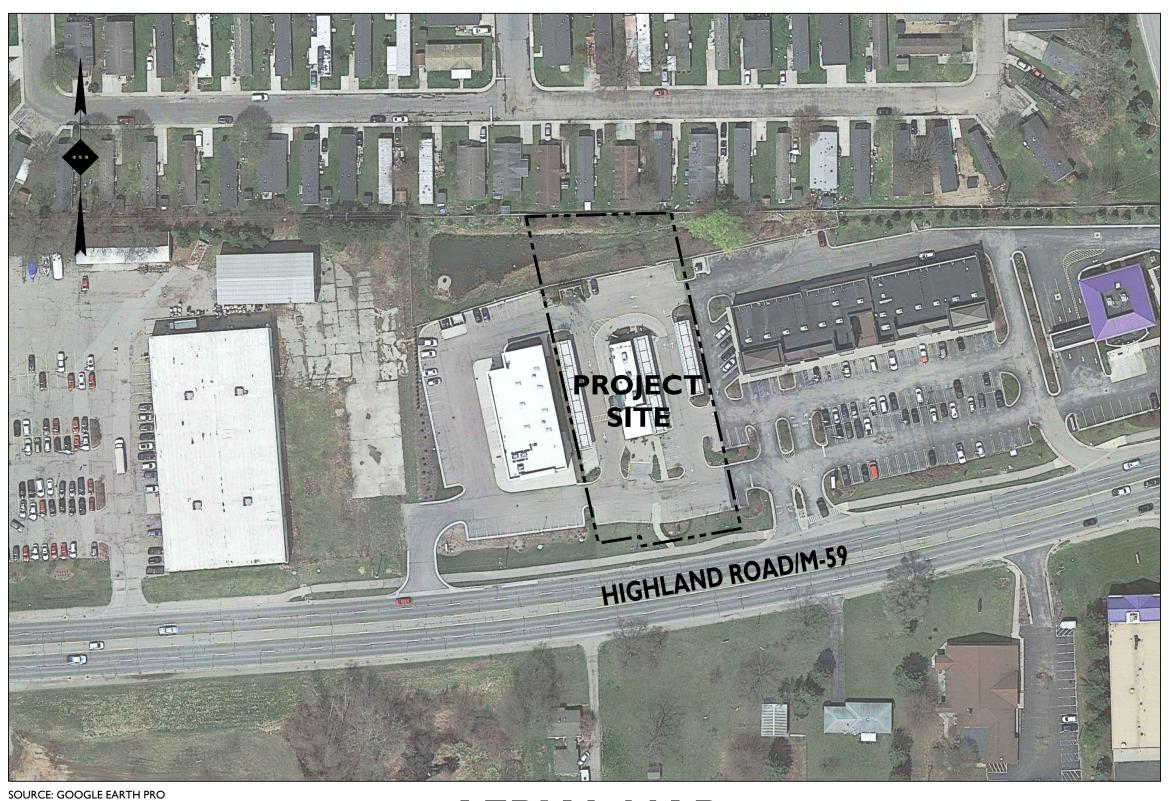
Michael Gold mgold@stonefieldeng.com Stonefield Engineering and Design, LLC

V:\M\2019\M-19334-Alrig-9328 Highland Road, White Lake, MI\Correspondence\Outgoing\City or Township\2021-08-27 Site Plan Review Response Letter.docx





LOCATION MAP SCALE: I" = 2000'±



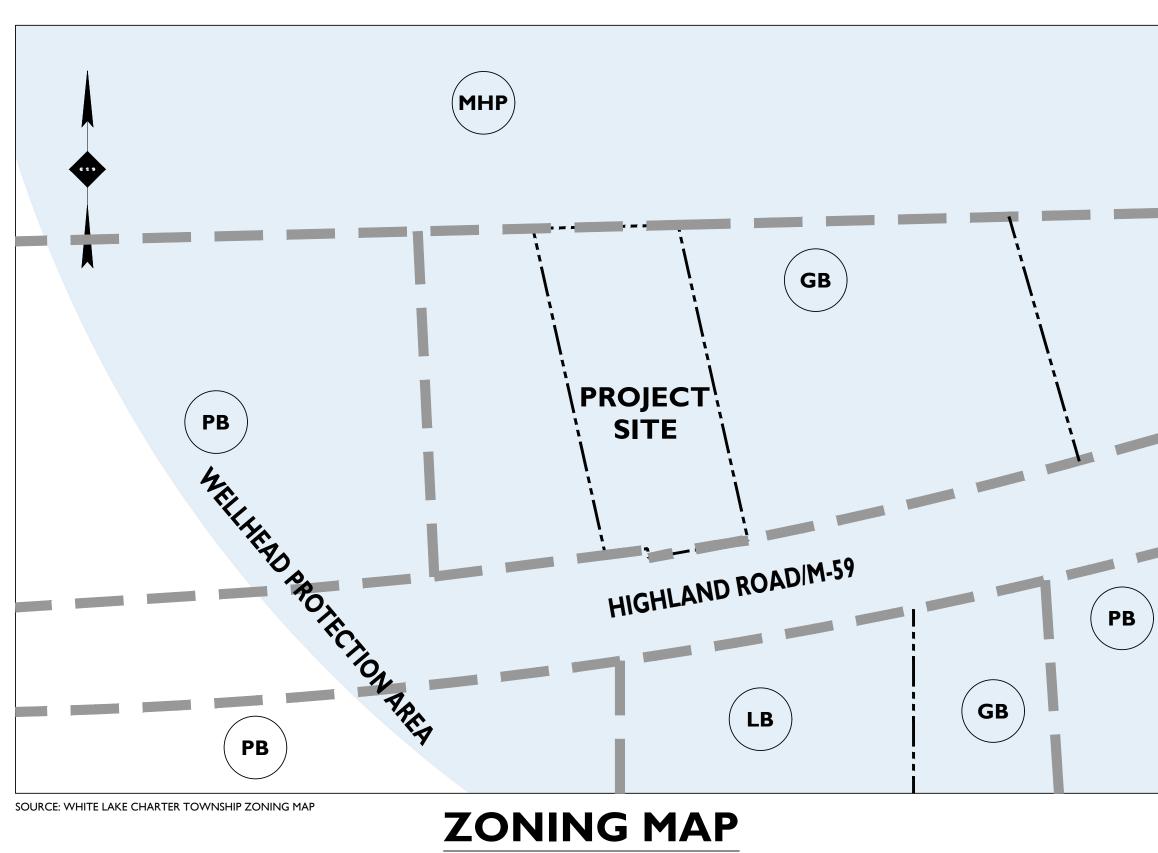
AERIAL MAP SCALE: |" = 100'±



SITE DEVELOPMENT PLANS FOR

9328 HIGHLAND ROAD **PROPOSED COMMERCIAL BUILDING WITH DRIVE-THROUGH**

PARCEL ID: 12-23-20-010 9328 HIGHLAND ROAD WHITE LAKE CHARTER TOWNSHIP, OAKLAND COUNTY, MICHIGAN



PLANS PREPARED BY:



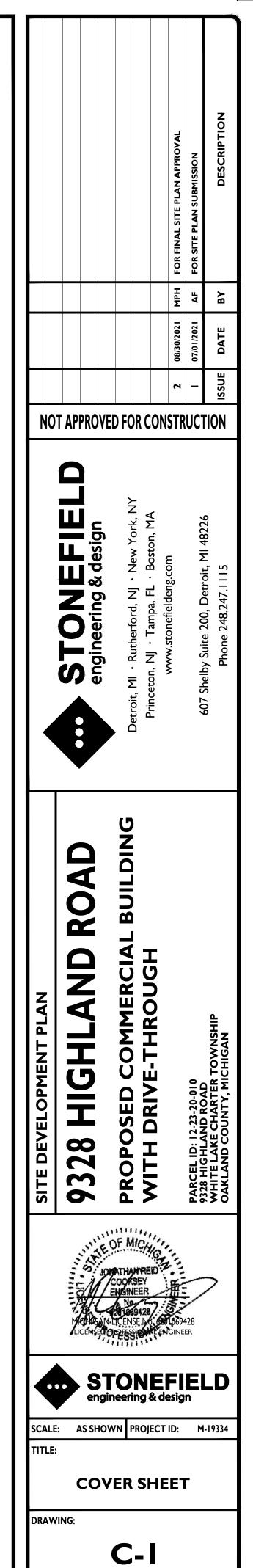
Detroit, MI · Rutherford, NJ · New York, NY Princeton, NJ \cdot Tampa, FL \cdot Boston, MA www.stonefieldeng.com

607 Shelby Suite 200, Detroit, MI 48226 Phone 248.247.1115

PLAN REFERENCE MATERIALS:

SCALE: |" = 100'±

- I. THIS PLAN SET REFERENCES THE FOLLOWING DOCUMENTS INCLUDING, BUT NOT LIMITED TO: SURVEY PREPARED BY KEM-TEC A GROUP OF COMPANIES, DATED: 08/25/2021
 - ARCHITECTURAL PLANS PREPARED BY DETROIT ARCHITECTURAL GROUP DATED: 08/11/2021
 - PREPARED BY KIEFT ENGINEERING, DATED: 04/09/2009
 - AERIAL MAP OBTAINED FROM GOOGLE EARTH PRO DATED: 03/14/2020 LOCATION MAP OBTAINED FROM USGS ONLINE MAPS
- 2. ALL REFERENCE MATERIAL LISTED ABOVE SHALL BE CONSIDERED A PART OF THIS PLAN SET AND ALL INFORMATION CONTAINED WITHIN THESE MATERIALS SHALL BE UTILIZED IN CONJUNCTION WITH THIS PLAN SET. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN A COPY OF EACH REFERENCE AND REVIEW IT THOROUGHLY PRIOR TO THE START OF CONSTRUCTION.



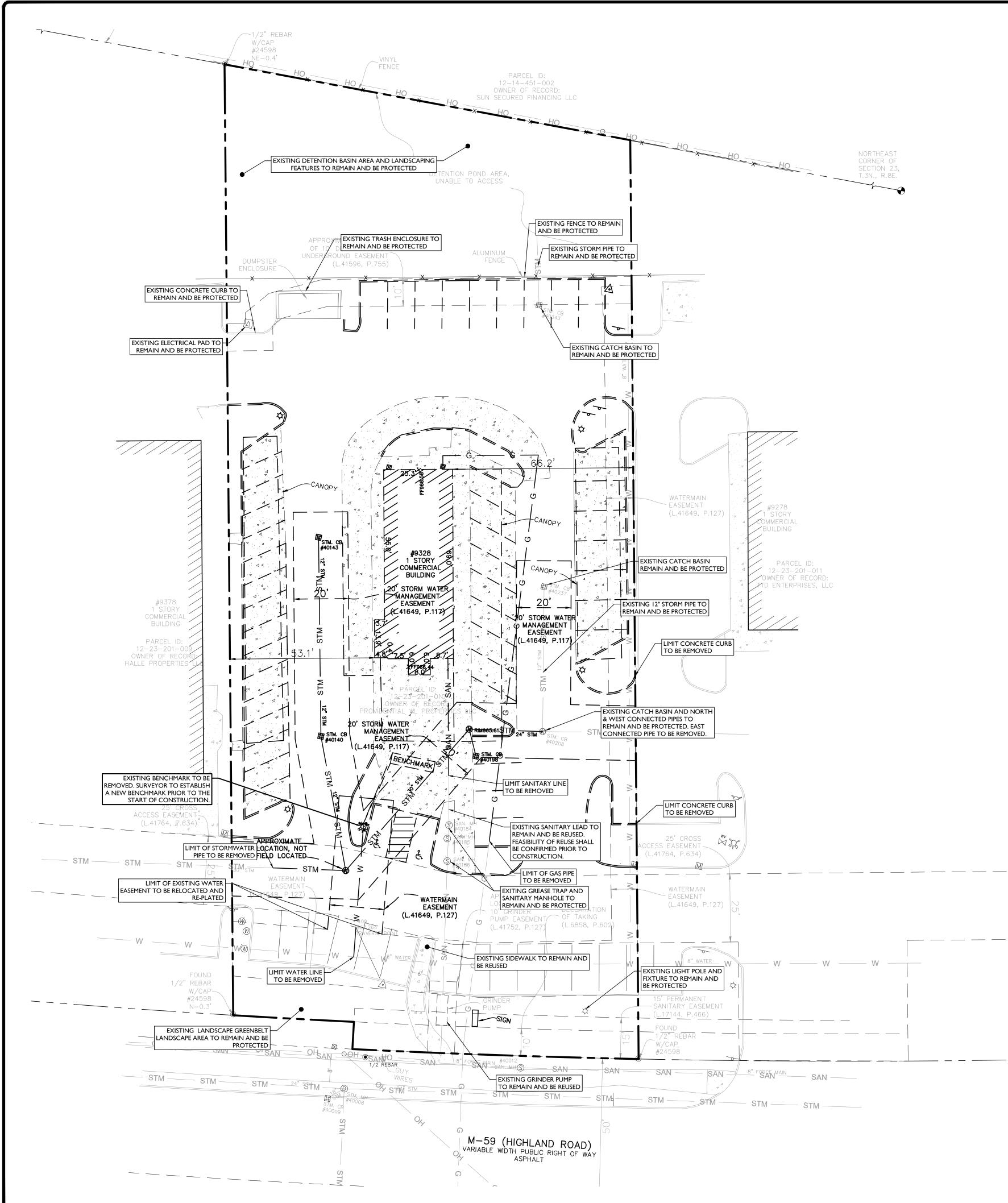
APPLICANT

LAKE RETAIL MANAGEMENT LLC 30200 TELEGRAPH ROAD BINGHAM FARMS, MI 48025 248-646-9999

SONIC DRIVE-IN RESTAURANT CONSTRUCTION PLANS

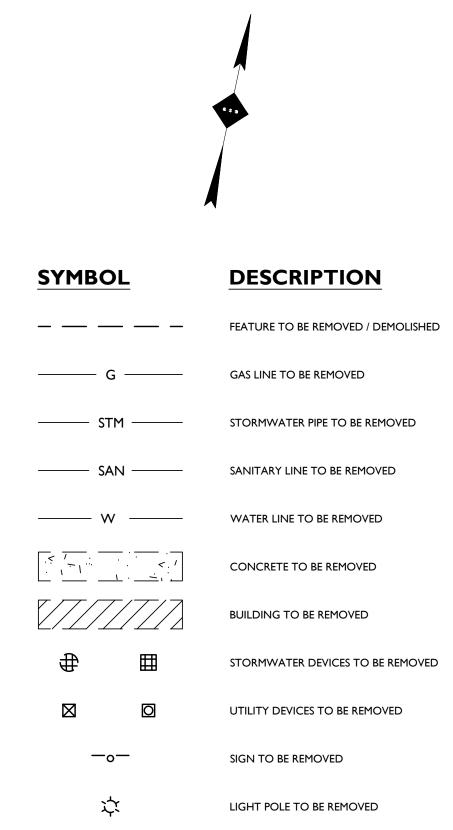
SHEET INDEX	
DRAWING TITLE	SHEET #
COVER SHEET	C-I
DEMOLITION PLAN	C-2
SITE PLAN	C-3
GRADING & DRAINAGE PLAN	C-4
UTILITY PLAN	C-5
LIGHTING PLAN	C-6
LANDSCAPING PLAN	C-7
CONSTRUCTION DETAILS	C-8 & C-9

ADDITIONAL SHEETS		
DRAWING TITLE SHEET #		
ALTA/NSPS LAND TITLE SURVEY	I OF I	
PRE VS POST DEVELOPMENT EXHIBIT	EX-I	
FIRE TRUCK CIRCULATION EXHIBIT	EX-2	





Item A.

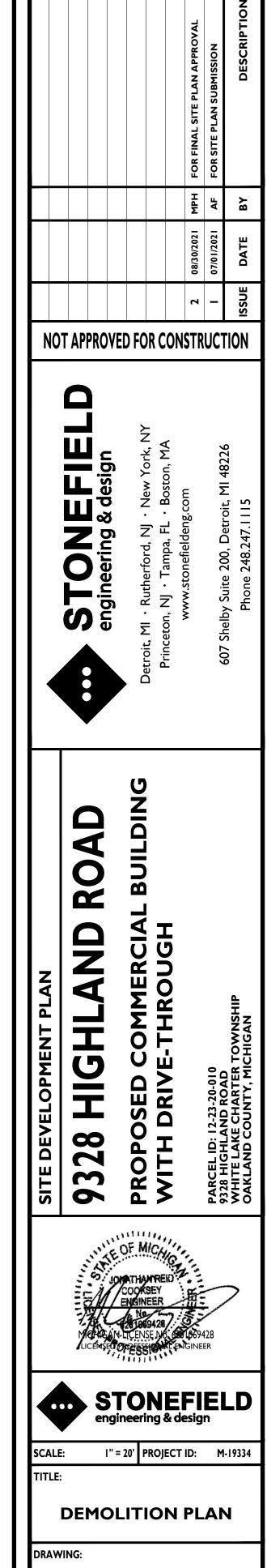


ALL SITE FEATURES WITHIN PROPERTY LINE INDICATED ON THIS PLAN ARE TO BE REMOVED DEMOLISHED UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY STONEFIELD **ENGINEERING & DESIGN, LLC. IF SIGNIFICANT** DISCREPANCIES ARE DISCERNED BETWEEN THIS PLAN AND FIELD CONDITIONS

ALL SITE FEATURES OUTSIDE OF THE PROPERTY LINE INDICATED ON THIS PLAN ARE TO REMAIN AND BE PROTECTED UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY STONEFIELD **ENGINEERING & DESIGN, LLC. IF SIGNIFICANT** DISCREPANCIES ARE DISCERNED BETWEEN THIS PLAN AND FIELD CONDITIONS

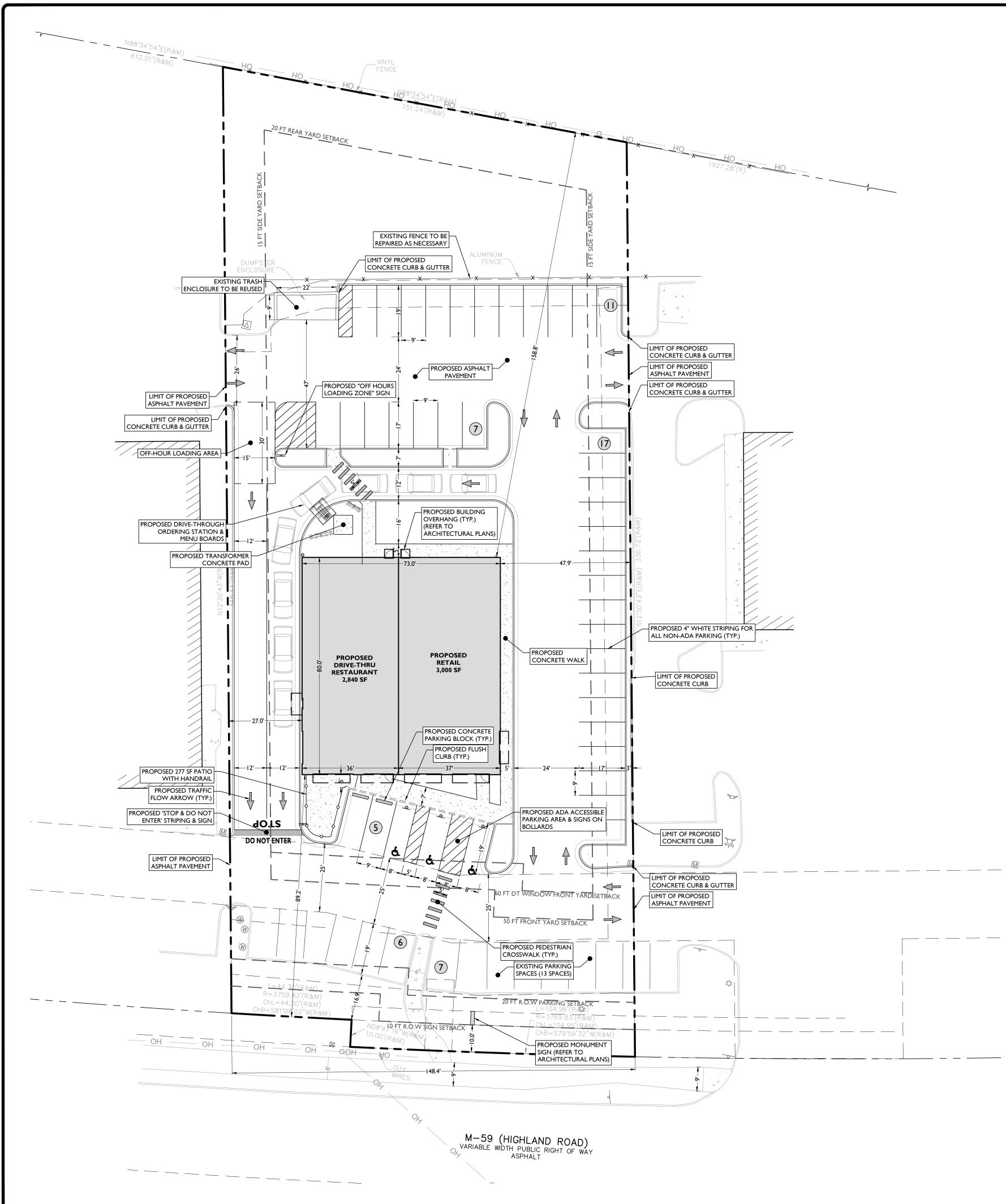
DEMOLITION NOTES

- I. THE WORK REFLECTED ON THE DEMOLITION PLAN IS TO PROVIDE GENERAL INFORMATION TOWARDS THE EXISTING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE ENTIRE PLAN SET AND ASSOCIATED REPORTS/REFERENCE DOCUMENTS INCLUDING ALL DEMOLITION ACTIVITIES AND INCIDENTAL TASKS NECESSARY TO COMPLETE THE SITE IMPROVEMENTS.
- 2. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND METHODS OF DEMOLITION ACTIVITIES. 3. EXPLOSIVES SHALL NOT BE USED UNLESS WRITTEN CONSENT FROM BOTH THE OWNER AND ANY APPLICABLE GOVERNING AGENCY IS OBTAINED. BEFORE THE START OF ANY EXPLOSIVE PROGRAM, THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL LOCAL, STATE, AND FEDERAL PERMITS. ADDITIONALLY, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL SEISMIC TESTING AS REQUIRED AND ANY
- DAMAGES AS THE RESULT OF SAID DEMOLITION PRACTICES. 4. ALL DEMOLITION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL CODES. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL UTILITIES ARE DISCONNECTED IN ACCORDANCE WITH THE UTILITY AUTHORITY'S REQUIREMENTS PRIOR TO STARTING THE DEMOLITION OF ANY STRUCTURE. ALL EXCAVATIONS ASSOCIATED WITH DEMOLISHED STRUCTURES OR REMOVED TANKS SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO SUPPORT SITE AND BUILDING IMPROVEMENTS. A GEOTECHNICAL ENGINEER SHOULD BE PRESENT DURING BACKFILLING ACTIVITIES TO OBSERVE AND CERTIFY THAT BACKFILL
- MATERIAL WAS COMPACTED TO A SUITABLE CONDITION. 5. DEMOLISHED DEBRIS SHALL NOT BE BURIED ON SITE. ALL WASTE/DEBRIS GENERATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL RECORDS OF THE DISPOSAL TO DEMONSTRATE COMPLIANCE WITH THE ABOVE REGULATIONS.



20'	0'	20'	40'
		CALE IN FEET = 20'	

C-2



01 9\M-1 9334-ALRIG-9328 HIGHLAND ROAD, WHITE LAKE, MI\CADD\PLOT\SDP-03-SITE.DW

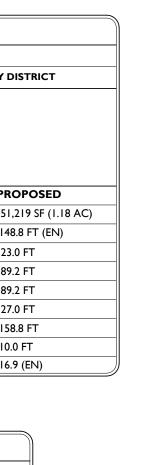
LAND USE A	AND ZONING	
PARCEL ID:	: 12-23-201-010	
GENERAL BUSINESS DISTRICT (GB) & WE	ELLHEAD PROTECTION OVERL	AY C
PROPOSED USE		
FAST FOOD RESTAURANT	PERMITTED USE	
DRIVE-THRU WINDOW SERVICE	SPECIAL LAND USE (*)	
OUTDOOR DINING	PERMITTED USE	
RETAIL STORE	PERMITTED USE	
ZONING REQUIREMENT	REQUIRED	PR
MINIMUM LOT AREA	43,560 SF (1.00 AC)	51
MINIMUM LOT WIDTH	200 FT	14
MAXIMUM BUILDING HEIGHT	35 FT (2 STORIES)	23
MINIMUM FRONT YARD SETBACK	50 FT	89
MINIMUM DT WINDOW FRONT YARD SETBACK	60 FT	89
	15 FT	27
MINIMUM SIDE YARD SETBACK		
MINIMUM SIDE YARD SETBACK MINIMUM REAR YARD SETBACK	20 FT	15
	20 FT 10 FT	15 10

(*) SPECIAL LAND USE APPROVED WITH PREVIOUS SONIC DEVELOPMENT

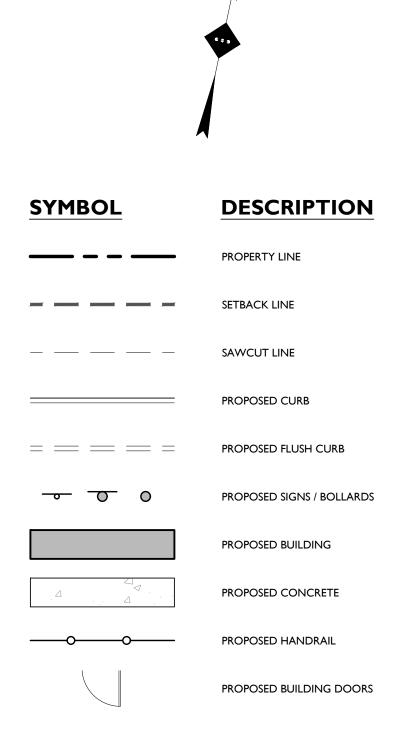
CODE SECTION	REQUIRED	PROPOSED
§ 5.11.M	RETAIL STORE:	53 SPACES
	I SPACE PER 200 SF	
	(3,000 SF)(1/200 SF) = 15 SPACES	
	RESTAURANT WITH DRIVE-THRU:(1)	
	I SPACE PER 75 SF	
	(2,840 SF)(1/75 SF) = 38 SPACES	
	<u>TOTAL:</u> 15 + 38 = 53 SPACES	
§ 5.11.M.I.F	STACKING SPACES:	8 SPACES
	8 STACKING SPACES REQUIRED	
§ 5.11.M.I.E	STACKING SPACE DIMENSIONS:	12 FT X 20 FT
	9 FT X 20 FT	
§ 5.11.P	LOADING SPACE REQUIRED:	TO OCCUR
	2,000 SF - 20,000 SF REQUIRES I SPACE	OFF HOURS
§ 5.11.Q	90° PARKING SPACES: ⁽²⁾	9 FT X 17 FT
	9 FT X 19 FT WITH 24 FT AISLE	WITH 24 FT AISLE

INDOOR SEATING THE RESTAURANT MAY BE REQUIRED TO PROVIDE UP TO 125% OF THE PARKING REQUIRED FOR THE INDOOR SPACE

(2) § 5.11.Q - PARKING SPACE LENGTH CAN BE REDUCED TO 17 FT WHEN ABUTTING A LANDSCAPED AREA OR SIDEWALK 8 FT WIDE Item A.

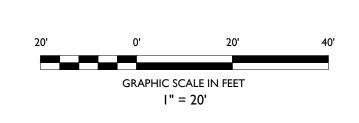


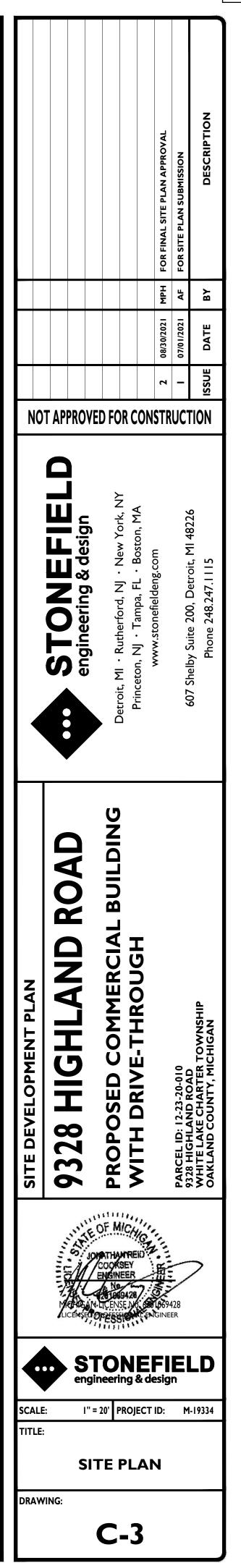


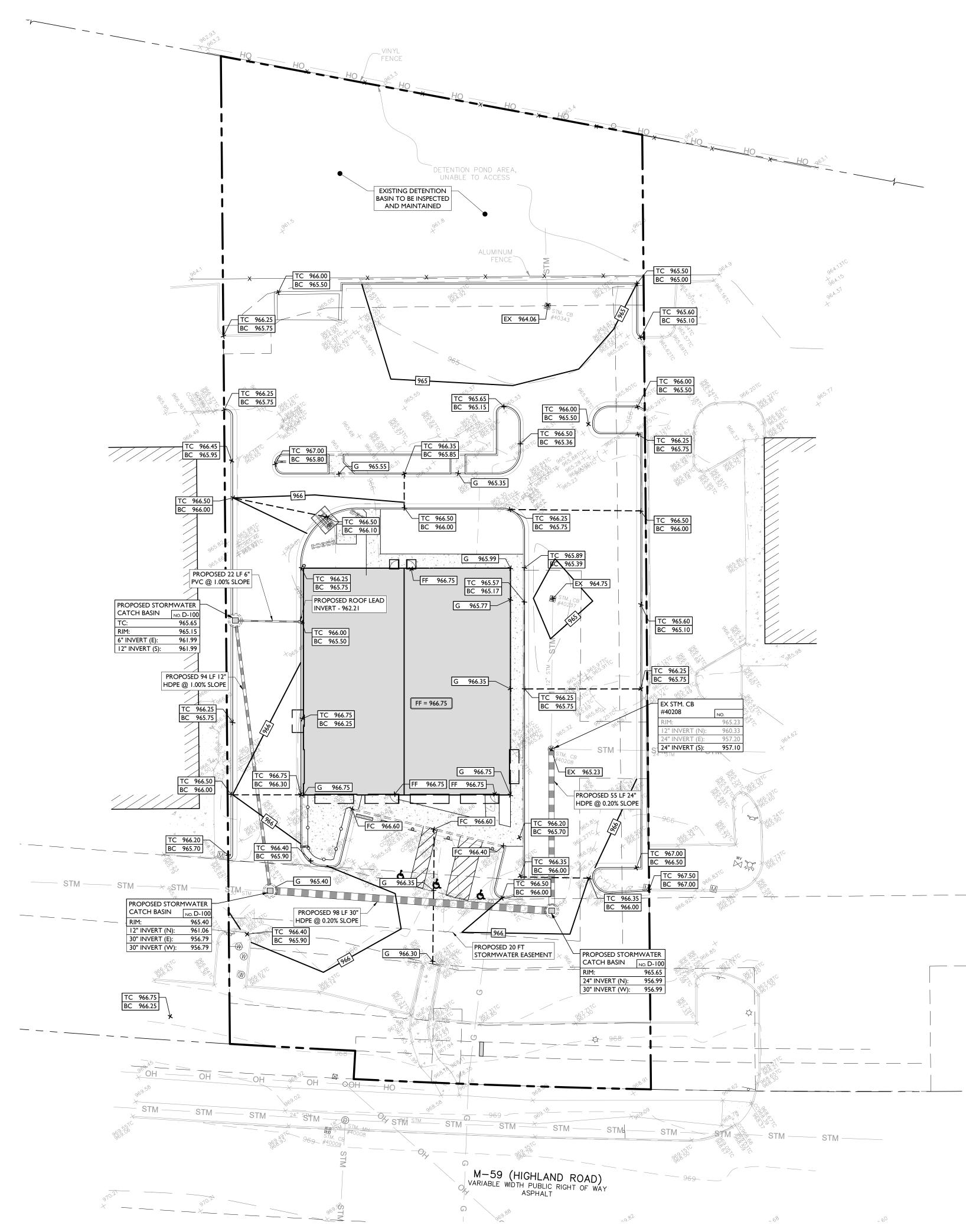


GENERAL NOTES

- I. THE CONTRACTOR SHALL VERIFY AND FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS AND THE PROPOSED SCOPE OF WORK (INCLUDING DIMENSIONS, LAYOUT, ETC.) PRIOR TO INITIATING THE IMPROVEMENTS IDENTIFIED WITHIN THESE DOCUMENTS. SHOULD ANY DISCREPANCY BE FOUND BETWEEN THE EXISTING SITE CONDITIONS AND THE PROPOSED WORK THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN,
- LLC. PRIOR TO THE START OF CONSTRUCTION.
 THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND ENSURE THAT ALL REQUIRED APPROVALS HAVE BEEN OBTAINED PRIOR TO THE START OF CONSTRUCTION. COPIES OF ALL REQUIRED PERMITS AND APPROVALS SHALL BE KEPT ON SITE AT ALL TIMES DURING CONSTRUCTION.
- 3. ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS STONEFIELD ENGINEERING & DESIGN, LLC. AND IT'S SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES AND LIABILITIES INCLUDING ATTORNEY'S FEES ARISING OUT OF CLAIMS BY EMPLOYEES OF THE CONTRACTOR IN ADDITION TO CLAIMS CONNECTED TO THE PROJECT AS A RESULT OF NOT CARRYING THE PROPER INSURANCE FOR WORKERS COMPENSATION, LIABILITY INSURANCE, AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE.
- 4. THE CONTRACTOR SHALL NOT DEVIATE FROM THE PROPOSED IMPROVEMENTS IDENTIFIED WITHIN THIS PLAN SET UNLESS APPROVAL IS PROVIDED IN WRITING BY STONEFIELD ENGINEERING & DESIGN, LLC.
- THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND METHODS OF CONSTRUCTION.
 THE CONTRACTOR SHALL NOT PERFORM ANY WORK OR CAUSE DISTURBANCE ON A PRIVATE PROPERTY NOT CONTROLLED BY THE PERSON OR ENTITY WHO HAS AUTHORIZED THE WORK WITHOUT PRIOR WRITTEN CONSENT FROM THE OWNER OF THE PRIVATE PROPERTY.
- THE CONTRACTOR IS RESPONSIBLE TO RESTORE ANY DAMAGED OR UNDERMINED STRUCTURE OR SITE FEATURE THAT IS IDENTIFIED TO REMAIN ON THE PLAN SET. ALL REPAIRS SHALL USE NEW MATERIALS TO RESTORE THE FEATURE TO ITS EXISTING CONDITION AT THE CONTRACTORS EXPENSE.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE SHOP DRAWINGS, PRODUCT DATA, AND OTHER REQUIRED SUBMITTALS FOR REVIEW. STONEFIELD ENGINEERING & DESIGN, LLC. WILL REVIEW THE SUBMITTALS IN ACCORDANCE WITH THE DESIGN INTENT AS REFLECTED WITHIN THE PLAN SET.
 THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL IN
- ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. 10. THE CONTRACTOR IS REQUIRED TO PERFORM ALL WORK IN THE
- PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AUTHORITY AND SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF STREET OPENING PERMITS. 11. THE CONTRACTOR IS REQUIRED TO RETAIN AN OSHA CERTIFIED
- SAFETY INSPECTOR TO BE PRESENT ON SITE AT ALL TIMES DURING CONSTRUCTION & DEMOLITION ACTIVITIES.
 12. SHOULD AN EMPLOYEE OF STONEFIELD ENGINEERING & DESIGN, LLC. BE PRESENT ON SITE AT ANY TIME DURING CONSTRUCTION, IT DOES
- NOT RELIEVE THE CONTRACTOR OF ANY OF THE RESPONSIBILITIES AND REQUIREMENTS LISTED IN THE NOTES WITHIN THIS PLAN SET. 13. CONTRACTOR TO PROVIDE A SMOOTH TRANSITION BETWEEN ANY PROPOSED AND EXISTING CONCRETE CURB, ASPHALT, & CONCRETE PAVEMENT

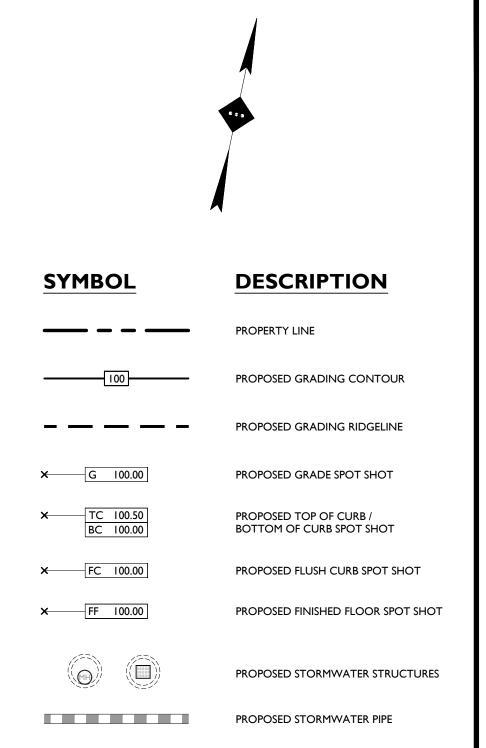






EXISTING OFFSITE WATER QUALITY DEVICE TO BE INSPECTED PRIOR TO CONSTRUCTION. CONTRACTOR TO **REPAIR AS NECESSARY TO CONFIRM THE DEVICE IS IN GOOD WORKING ORDER.**

Item A.

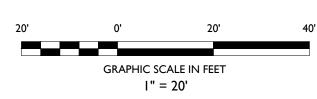


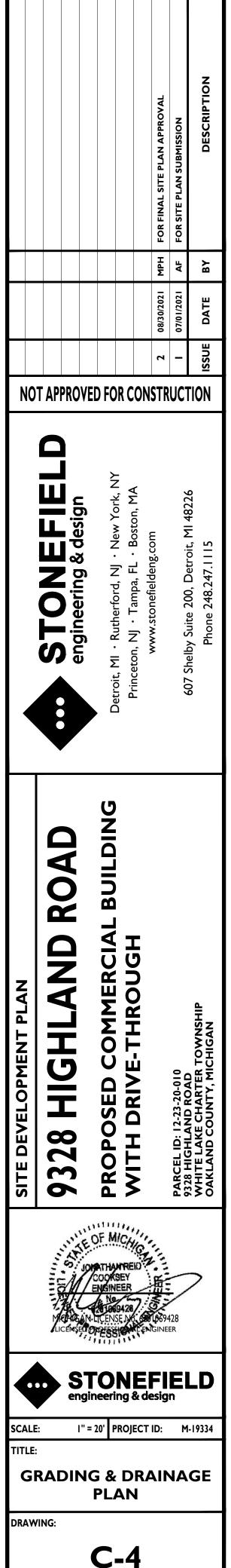
GRADING NOTES

- I. ALL SOIL AND MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. ANY GROUNDWATER DE-WATERING PRACTICES SHALL BE PERFORMED UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS FOR THE DISCHARGE OF DE-WATERED GROUNDWATER. ALL SOIL IMPORTED TO THE SITE SHALL BE CERTIFIED CLEAN FILL. CONTRACTOR SHALL MAINTAIN RECORDS OF ALL FILL MATERIALS BROUGHT TO THE SITE. 2. THE CONTRACTOR IS REQUIRED TO PROVIDE TEMPORARY AND/OR
- PERMANENT SHORING WHERE REQUIRED DURING EXCAVATION ACTIVITIES, INCLUDING BUT NOT LIMITED TO UTILITY TRENCHES, TO ENSURE THE STRUCTURAL INTEGRITY OF NEARBY STRUCTURES AND STABILITY OF THE SURROUNDING SOILS.
- 3. PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 4 INCHES TO 7 INCHES ABOVE EXISTING GRADES UNLESS OTHERWISE NOTED. THE CONTRACTOR WILL SUPPLY ALL STAKEOUT CURB GRADE SHEETS TO STONEFIELD ENGINEERING & DESIGN, LLC. FOR REVIEW AND APPROVAL PRIOR TO POURING CURBS.
- 4. THE CONTRACTOR IS RESPONSIBLE TO SET ALL PROPOSED UTILITY COVERS AND RESET ALL EXISTING UTILITY COVERS WITHIN THE PROJECT LIMITS TO PROPOSED GRADE IN ACCORDANCE WITH ANY APPLICABLE MUNICIPAL, COUNTY, STATE AND/OR UTILITY AUTHORITY REGULATIONS 5. MINIMUM SLOPE REQUIREMENTS TO PREVENT PONDING SHALL BE AS FOLLOWS:
- CURB GUTTER: 0.50% CONCRETE SURFACES: 1.00%
- ASPHALT SURFACES: 1.00% 6. A MINIMUM SLOPE OF 1.00% SHALL BE PROVIDED AWAY FROM ALL BUILDINGS. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FROM THE BUILDING IS ACHIEVED AND SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IF THIS CONDITION CANNOT BE MET. 7. FOR PROJECTS WHERE BASEMENTS ARE PROPOSED, THE DEVELOPER IS RESPONSIBLE TO DETERMINE THE DEPTH TO GROUNDWATER AT THE LOCATION OF THE PROPOSED STRUCTURE. IF GROUNDWATER IS
- ENCOUNTERED WITHIN THE BASEMENT AREA, SPECIAL CONSTRUCTION METHODS SHALL BE UTILIZED AND REVIEWED/APPROVED BY THE CONSTRUCTION CODE OFFICIAL. IF SUMP PUMPS ARE UTILIZED, ALL DISCHARGES SHALL BE CONNECTED DIRECTLY TO THE PUBLIC STORM SEWER SYSTEM WITH APPROVAL FROM THE GOVERNING STORM SEWER SYSTEM AUTHORITY.

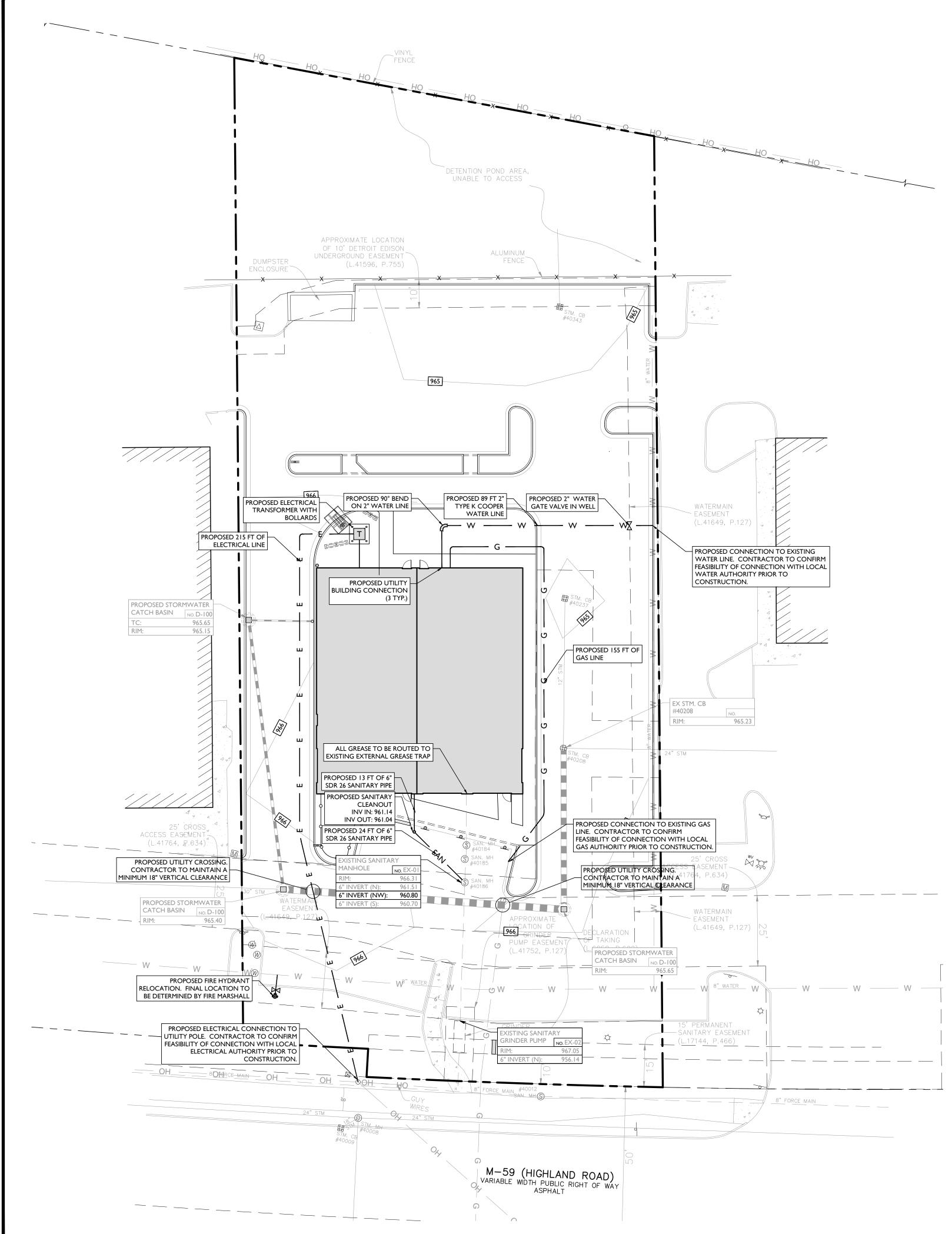
ADA NOTES

- I. THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 2.00% SLOPE IN ANY DIRECTION WITHIN THE ADA PARKING SPACES AND ACCESS AISLES.
- 2. THE CONTRACTOR SHALL PROVIDE COMPLIANT SIGNAGE AT ALL ADA PARKING AREAS IN ACCORDANCE WITH STATE GUIDELINES. 3. THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 5.00% RUNNING SLOPE AND A MAXIMUM OF 2.00% CROSS SLOPE ALONG WALKWAYS WITHIN THE ACCESSIBLE PATH OF TRAVEL (SEE THE SITE PLAN FOR THE LOCATION OF THE ACCESSIBLE PATH). THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE ACCESSIBLE PATH OF TRAVEL IS 36 INCHES WIDE OR GREATER UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.
- 4. THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 2.00% SLOPE IN ANY DIRECTION AT ALL LANDINGS. LANDINGS INCLUDE, BUT ARE NOT LIMITED TO, THE TOP AND BOTTOM OF AN ACCESSIBLE RAMP, AT ACCESSIBLE BUILDING ENTRANCES, AT AN AREA IN FRONT OF A WALK-UP ATM, AND AT TURNING SPACES ALONG THE ACCESSIBLE PATH OF TRAVEL. THE LANDING AREA SHALL HAVE A MINIMUM CLEAR AREA OF 60 INCHES BY 60 INCHES UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.
- 5. THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 8.33% RUNNING SLOPE AND A MAXIMUM 2.00% CROSS SLOPE ON ANY CURB RAMPS ALONG THE ACCESSIBLE PATH OF TRAVEL. WHERE PROVIDED, CURB RAMP FLARES SHALL NOT HAVE A SLOPE GREATER THAN 10.00% IF A LANDING AREA IS PROVIDED AT THE TOP OF THE RAMP. FOR ALTERATIONS, A CURB RAMP FLARES SHALL NOT HAVE A SLOPE GREATER THAN 8.33% IF A LANDING AREA IS NOT PROVIDED AT THE TOP OF THE RAMP. CURBS RAMPS SHALL NOT RISE MORE THAN 6 INCHES IN ELEVATION WITHOUT A HANDRAIL. THE CLEAR WIDTH OF A CURB RAMP SHALL BE NO LESS THAN 36 INCHES WIDE.
- 6. ACCESSIBLE RAMPS WITH A RISE GREATER THAN 6 INCHES SHALL CONTAIN COMPLIANT HANDRAILS ON BOTH SIDES OF THE RAMP AND SHALL NOT RISE MORE THAN 30" IN ELEVATION WITHOUT A LANDING AREA IN BETWEEN RAMP RUNS. LANDING AREAS SHALL ALSO BE PROVIDED AT THE TOP AND BOTTOM OF THE RAMP. 7. A SLIP RESISTANT SURFACE SHALL BE CONSTRUCTED ALONG THE
- ACCESSIBLE PATH AND WITHIN ADA PARKING AREAS. 8. THE CONTRACTOR SHALL ENSURE A MAXIMUM OF 1/4 INCHES VERTICAL CHANGE IN LEVEL ALONG THE ACCESSIBLE PATH. WHERE A CHANGE IN LEVEL BETWEEN 1/4 INCHES AND 1/2 INCHES EXISTS, CONTRACTOR SHALL ENSURE THAT THE TOP 1/4 INCH CHANGE IN LEVEL IS BEVELED WITH A SLOPE NOT STEEPER THAN I UNIT VERTICAL AND 2 UNITS HORIZONTAL (2:1 SLOPE).
- 9. THE CONTRACTOR SHALL ENSURE THAT ANY OPENINGS (GAPS OR HORIZONTAL SEPARATION) ALONG THE ACCESSIBLE PATH SHALL NOT ALLOW PASSAGE OF A SPHERE GREATER THAN 1/2 INCH.



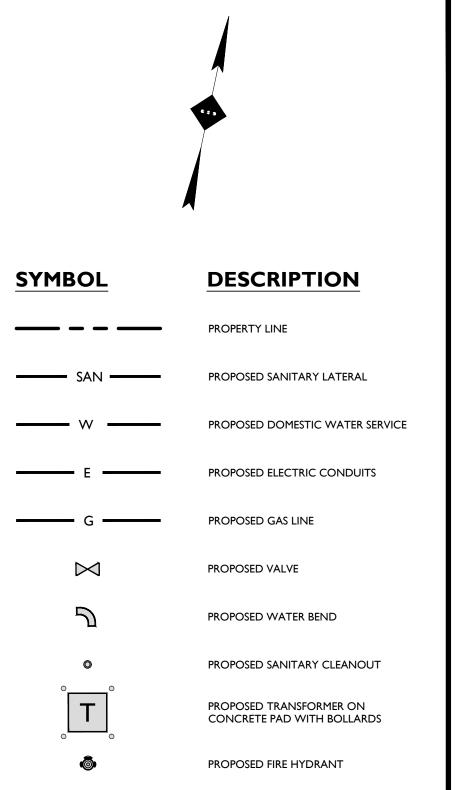






191M-19334.ALRIG-9328 HIGHLAND ROAD, WHITE LAKE, MICADDIPLOTSDP-05-UTILDW

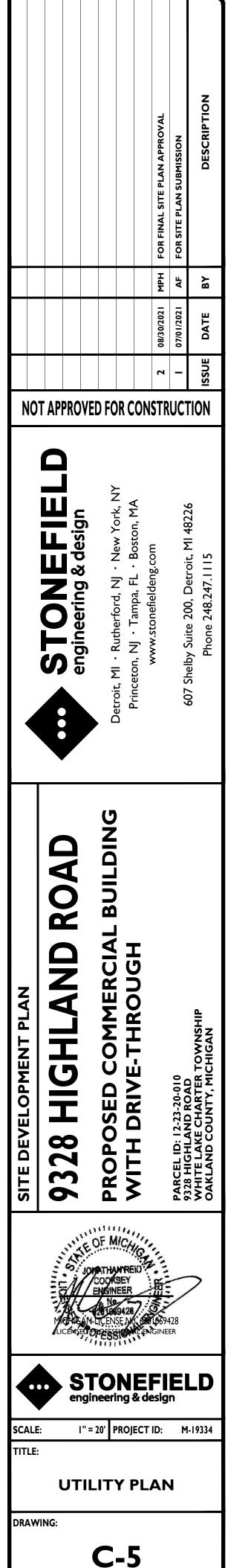
Item A.



DRAINAGE AND UTILITY NOTES

- I. THE CONTRACTOR IS REQUIRED TO CALL THE APPROPRIATE AUTHORITY FOR NOTICE OF CONSTRUCTION/EXCAVATION AND UTILITY MARK OUT PRIOR TO THE START OF CONSTRUCTION IN ACCORDANCE WITH STATE LAW. CONTRACTOR IS REQUIRED TO CONFIRM THE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES IN THE FIELD. SHOULD A DISCREPANCY EXIST BETWEEN THE FIELD LOCATION OF A UTILITY AND THE LOCATION SHOWN ON THE PLAN SET OR SURVEY, THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IMMEDIATELY IN WRITING.
- THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN IN OPERATION ALL UTILITIES NOT DESIGNATED TO BE REMOVED.
 THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO ANY EXISTING UTILITY IDENTIFIED TO REMAIN WITHIN THE LIMITS OF
- THE PROPOSED WORK DURING CONSTRUCTION.
 A MINIMUM HORIZONTAL SEPARATION OF 10 FEET IS REQUIRED BETWEEN ANY SANITARY SEWER SERVICE AND ANY WATER LINES. IF THIS SEPARATION CANNOT BE PROVIDED, A CONCRETE ENCASEMENT SHALL BE UTILIZED FOR THE SANITARY SEWER SERVICE
- AS APPROVED BY STONEFIELD ENGINEERING & DESIGN, LLC.
 5. ALL WATER LINES SHALL BE VERTICALLY SEPARATED ABOVE SANITARY SEWER LINES BY A MINIMUM DISTANCE OF 18 INCHES. IF THIS SEPARATION CANNOT BE PROVIDED, A CONCRETE ENCASEMENT SHALL BE UTILIZED FOR THE SANITARY SEWER SERVICE AS APPROVED BY STONEFIELD ENGINEERING & DESIGN, LLC.
 6. THE CONTRACTOR TO PERFORM A TEST PIT PRIOR TO
- CONSTRUCTION (RECOMMEND 30 DAYS PRIOR) AT LOCATIONS OF EXISTING UTILITY CROSSINGS FOR WATER AND SANITARY SEWER CONNECTION IMPROVEMENTS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IN WRITING.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING GAS, ELECTRIC AND TELECOMMUNICATION CONNECTIONS WITH THE APPROPRIATE GOVERNING AUTHORITY.
 CONTRACTOR SHALL START CONSTRUCTION OF ANY GRAVITY
- SEWER AT THE LOWEST INVERT AND WORK UP-GRADIENT. 9. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A RECORD SET OF PLANS REFLECTING THE LOCATION OF EXISTING UTILITIES THAT HAVE BEEN CAPPED, ABANDONED, OR RELOCATED BASED ON THE DEMOLITION/REMOVAL ACTIVITIES REQUIRED IN THIS PLAN SET. THIS DOCUMENT SHALL BE PROVIDED TO THE OWNER FOLLOWING
- COMPLETION OF WORK. 10. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A RECORD OF THE AS-BUILT LOCATIONS OF ALL PROPOSED UNDERGROUND INFRASTRUCTURE. THE CONTRACTOR SHALL NOTE ANY DISCREPANCIES BETWEEN THE AS-BUILT LOCATIONS AND THE LOCATIONS DEPICTED WITHIN THE PLAN SET. THIS RECORD SHALL BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF WORK.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND EXISTING CONDITION OF THE STORM WATER QUALITY STRUCTURE AT THE INLET OF THE DETENTION BASIN.

GRAPHIC SCALE IN FEET I" = 20'



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			PROPOSED LUMINAIRE	SCHEDULE			
SYMBOL	LABEL	QUANTITY	LIGHTING	DISTRIBUTION	LLF	MANUFACTURER	IES FILE
	A	I	EATON PREVAIL LED AREA LIGHT - C25 TYPE IV - 4000 K - 87 W (WITH HOUSE SIDE SHIELD)	TYPE IV	0.9	EATON	PRV-C25-D-UNV-T4-BZ-7030-HS
	В	I	EATON PREVAIL LED AREA LIGHT - C25 TYPE III - 4000 K - 87 W (WITH HOUSE SIDE SHIELD)	TYPE III	0.9	EATON	PRV-C25-D-UNV-T3-BZ-7030-HS
	с	I	EATON PREVAIL LED AREA LIGHT - C40 TYPE III - 4000 K - 143 W (WITH HOUSE SIDE SHIELD)	TYPE III	0.9	EATON	PRV-C40-D-UNV-T3-BZ-7030-HS
	D	4	EATON CROSSTOUR MAXX LED FULL CUTOFF WALL PACK - 4000 K - 58 W	DOWN	0.9	EATON	XTOR6B-W
0	E	9	OXYGEN OUTDOOR LED SCONCE - 4000 K - 13 W - DOWN-LIGHT ONLY	DOWN	0.9	OXYGEN	3-712-222 Leda

Item A.

SYMBOL	DESCRIPTION
A (XX')	PROPOSED LIGHTING FIXTURE (MOUNTING HEIGHT)
A (EX)	EXISTING LIGHTING FIXTURE
+X.X	PROPOSED LIGHTING INTENSITY (FOOTCANDLES)

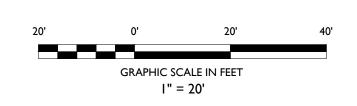
	LIGHTING REQUIREMENTS	
CODE SECTION	REQUIRED	PROPOSED
§ 5.18.G.iii.	LIGHT FIXTURE PROPERTY LINE SETBACK:	PROVIDED
	5 FT	
§ 5.18.G.iii.	GLARE AT PROPERTY LINE:	PROVIDED
	NO GLARE 5 FT ABOVE GROUND	
§ 5.18.G.iii.	MAXIMUM PROPERTY LINE LEVELS:	4.2 FC (EN)
	MAXIMUM I FC	
§ 5.18.G.vii.a.	MAXIMUM PARKING LOT FIXTURE HEIGHT:	
	≤ 25 FT FROM PROPERTY LINE - 16 FT	18 FT
	26 - 60 FT FT FROM PROPERTY LINE - 20 FT	18 FT
	61 - 100 FT FT FROM PROPERTY LINE - 25 FT	18 FT
§ 5.18.G.viii	MAXIMUM FOOT CANDLE AVERAGE:	
	GENERAL - 0.5 FC	I.4 FC (W)
	DRIVEWAY - 2.0 FC	1.9 FC
	PARKING - 2.0 FC	1.9 FC
	WALKS - 1.0 FC	0.9 FC

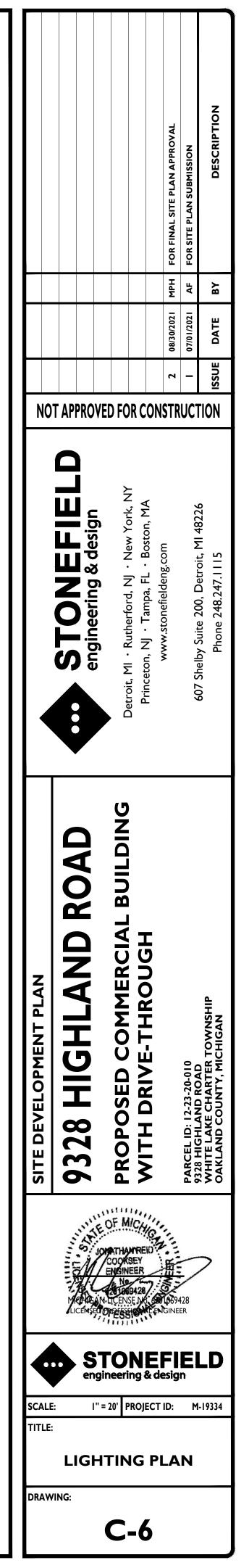
(W) WAIVER

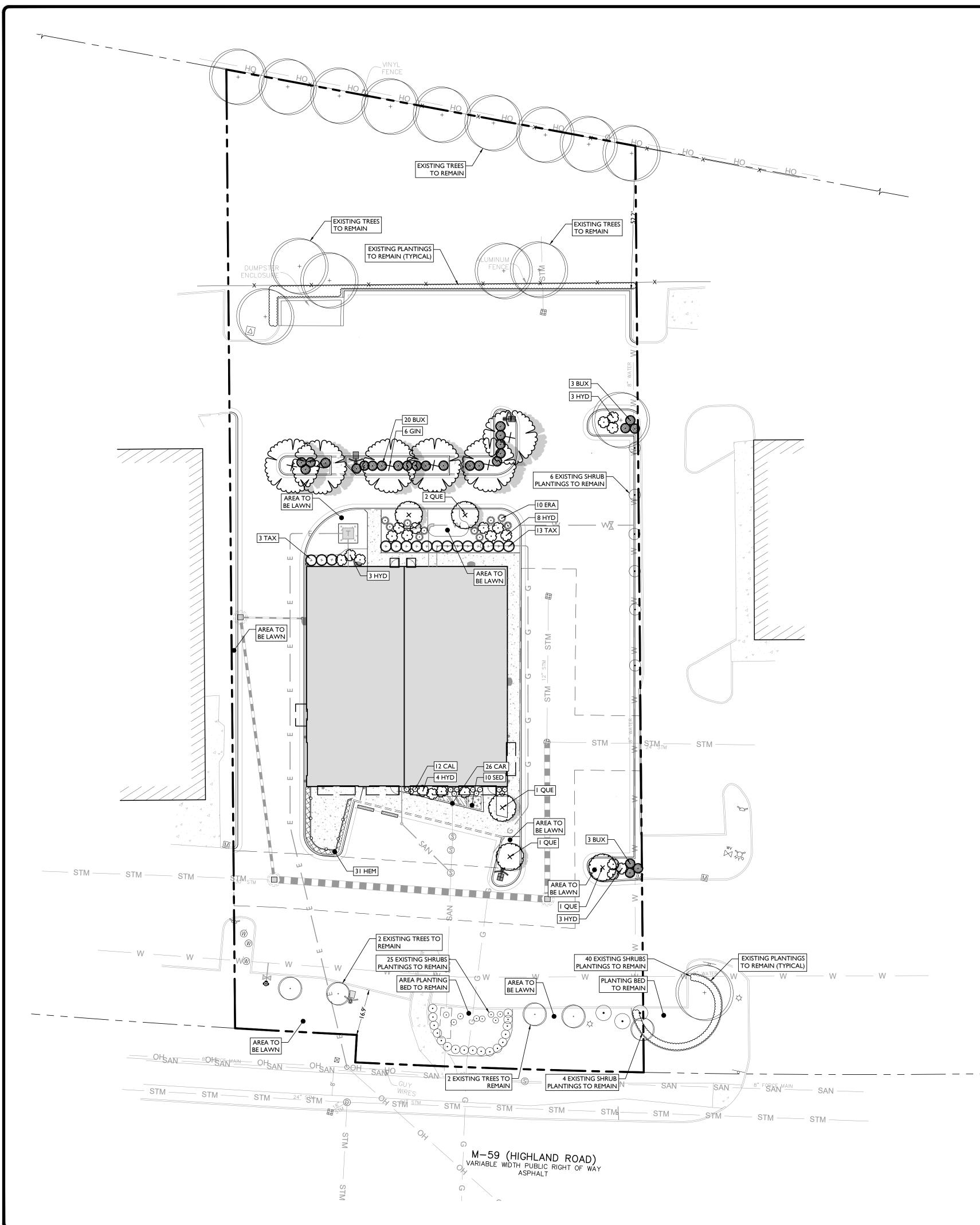
(EN) EXISTING NON-CONFORMITY

GENERAL LIGHTING NOTES

- I. THE LIGHTING LEVELS DEPICTED WITHIN THE PLAN SET ARE CALCULATED UTILIZING DATA OBTAINED FROM THE LISTED MANUFACTURER. ACTUAL ILLUMINATION LEVELS AND PERFORMANCE OF ANY PROPOSED LIGHTING FIXTURE MAY VARY DUE TO UNCONTROLLABLE VARIABLES SUCH ARE WEATHER, VOLTAGE SUPPLY, LAMP TOLERANCE, EQUIPMENT SERVICE LIFE AND OTHER VARIABLE FIELD CONDITIONS.
- WHERE APPLICABLE, THE EXISTING LIGHT LEVELS DEPICTED WITHIN THE PLAN SET SHALL BE CONSIDERED APPROXIMATE. THE EXISTING LIGHT LEVELS ARE BASED ON FIELD OBSERVATIONS AND THE MANUFACTURER'S DATA OF THE ASSUMED OR MOST SIMILAR LIGHTING FIXTURE MODEL.
- 3. UNLESS NOTED ELSEWHERE WITHIN THIS PLAN SET, THE LIGHT LOSS FACTORS USED IN THE LIGHTING ANALYSIS ARE AS FOLLOWS:
 LIGHT EMITTING DIODES (LED): 0.90 HIGH PRESSURE SODIUM: 0.72
- METAL HALIDE: 0.72 THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IN WRITING, PRIOR TO THE START OF CONSTRUCTION,
- OF ANY PROPOSED LIGHTING LOCATIONS THAT CONFLICT WITH EXISTING/ PROPOSED DRAINAGE, UTILITY, OR OTHER IMPROVEMENTS. 5. THE CONTRACTOR IS RESPONSIBLE TO PREPARE A WIRING PLAN AND PROVIDE ELECTRIC SERVICE TO ALL PROPOSED LIGHTING FIXTURES. THE CONTRACTOR IS REQUIRED TO PREPARE AN AS-BUILT PLAN OF WIRING AND PROVIDE COPIES TO THE OWNER AND STONEFIELD ENGINEERING & DESIGN, LLC.





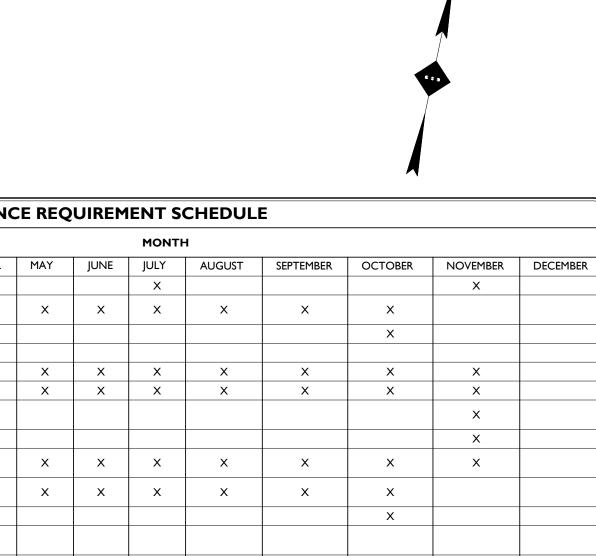


			MAINT	ENANC
MAINTENANCE TASK	JANUARY	FEBRUARY	MARCH	APRIL
SITE INSPECTION			X	
DEBRIS AND WEED CONTROL - AS NEEDED			×	х
IRRIGATION MAINTAINCE				Х
MULCHING				Х
seasonal plantings				
MOWING OF TURF			X	х
MOWING OF WILDFLOWERS				
PRUNING			X	Х
FERTILIZER AND AMENDMENTS			x	х
INSECT AND DISEASE CONTROL				
PLANTING RENOVATION			X	
LANDSCAPE STRUCTURES				х
LIGHTING MAINTENANCE			Х	
PAVED SURFACE MAINTAINCE				х

			PLANT S
DECIDUOUS TREES	CODE	QTY	BOTANICAL NAME
	GIN	6	GINKGO BILOBA `AUTUMN GOLD`
$\overline{\mathbf{x}}$	QUE	5	QUERCUS X WAREI `NADLER`
SHRUBS	CODE	QTY	BOTANICAL NAME
\odot	HYD	21	HYDRANGEA MACROPHYLLA `ENDLESS SUMM
EVERGREEN SHRUBS	CODE	QTY	BOTANICAL NAME
۲	BUX	26	BUXUS MICROPHYLLA JAPONICA `WINTER GI
÷	TAX	16	TAXUS X MEDIA 'DENSIFORMIS'
GRASS SYMBOLS	CODE	QTY	BOTANICAL NAME
and a second secon	CAL	12	CALAMAGROSTIS X ACUTIFLORA
JULIC WILL	ERA	10	ERAGROSTIS SPECTABILIS
GRASS AREAS	CODE	QTY	BOTANICAL NAME
	CAR	26	CAREX MORROWII 'ICE DANCE'
PERENNIALS	CODE	QTY	BOTANICAL NAME
	HEM	31	HEMEROCALLIS X 'STELLA DE ORO'
	SED	10	sedum x 'autumn joy'

NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN ON THE LANDSCAPE PLAN AND WITHIN THE PLANT LIST, THE PLAN SHALL DICTATE.

CODE SECTION	REQUIRED	PROPOSED
§ 5.19.C.I	SCREENING REQUIREMENTS	
	BUFFER STRIP (B): 20 FT WIDTH	51 FT (*)
	5 FT VISUAL BARRIER	PROVIDED (*)
	I DECIDUOUS OR EVERGREEN TREE PER 15 FT	
	(151 LF)(1 TREE / 15 LF) = 10 TREES	10 TREES (*)
	4 SHRUBS PER 15 FT	
	(151 LF)(4 SHRUBS / 15 LF) = 40 SHRUBS	PROVIDED (*)
§ 5.19.C.I	OBSCURING FENCE: 6 FT TO 8 FT	PROVIDED (*)
§ 5.19.C.I	GREENBELT: 20 FT	16.90 FT ^(EN)
	I DECIDUOUS OR EVERGREEN TREE PER 30 FT	
	(149 LF)(1 TREE / 30 LF) = 5 TREES	5 TREES (**)
	4 SHRUBS PER 15 FT	
	(149 LF)(8 SHRUBS / 30 LF) = 40 SHRUBS	68 SHRUBS (**)
§ 5.19.E	INTERIOR LANDSCAPE REQUIRMENTS	
	MINIMUM 15% OF THE TOTAL LOT AREA	
	(51,219 TOTAL LOT)(0.15) = 7,683 SF	16,449 SF
	I TREE PER REQUIRED INTERIOR LANDSCAPE AREA PER 300 SF	
	(7,683 LF)(1 TREE / 300 SF) = 26 TREES	30 TOTAL TREE
	5 SHRUBS PER REQUIRED INTERIOR LANDSCAPE AREA PER 300 SF	
	(7,683 LF)(5 SHRUBS / 300 SF) = 128 SHRUBS	134 SHRUBS
§ 5.19.G	PARKING LOT LANDSCAPING	
	PARKING LOT LANDSCAPING PER SPACE: 20 SF	
	(53 SPACES)(20 SF) = 1,060 SF PARKING LOT LANDSCAPING	2,194 SF
	I TREE PER REQUIRED PARKING LOT LANDSCAPING PER 100 SF	
	(1,060 LF)(1 TREE / 100 SF) = 11 TREES	II TREES
	3 SHRUBS PER REQUIRED INTERIOR LANDSCAPE AREA PER 100 SF	
	(1,060 LF)(3 SHRUBS / 100 SF) = 32 SHRUBS	51 SHRUBS
	NO ISLANDS LESS THAN 50 SF	COMPLIES



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SCHEDULE COMMON NAME SIZE CONTAINER SPACING AUTUMN GOLD MAIDENHAIR TREE 2.5" - 3" CAL B&B AS SHOWN KINDRED SPIRIT OAK 2.5" - 3" CAL B&B AS SHOWN COMMON NAME SIZE CONTAINER SPACING BAILMER HYDRANGEA 18" - 24" POT AS SHOWN IMER COMMON NAME SIZE CONTAINER SPACING WINTER GEM JAPANESE BOXWOOD AS SHOWN 18" - 24" B&B DENSE ANGLO-JAPANESE YEW 30" - 36" B&B AS SHOWN CONTAINER SPACING SIZE COMMON NAME FEATHER REED GRASS I GAL. POT AS SHOWN PURPLE LOVE GRASS 2 GAL. POT AS SHOWN COMMON NAME SIZE CONTAINER SPACING ICE DANCE JAPANESE SEDGE I GAL. POT 12" o.c. SIZE CONTAINER SPACING COMMON NAME STELLA DE ORO DAYLILY I GAL. POT 18" o.c. AUTUMN JOY SEDUM I GAL. POT 18" o.c.

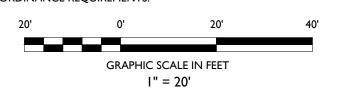
NOTE: ALL NEW PLIANT MATERIALS SHALL BE GUARANTEED FOR A PERIOD OF 2-YEARS.

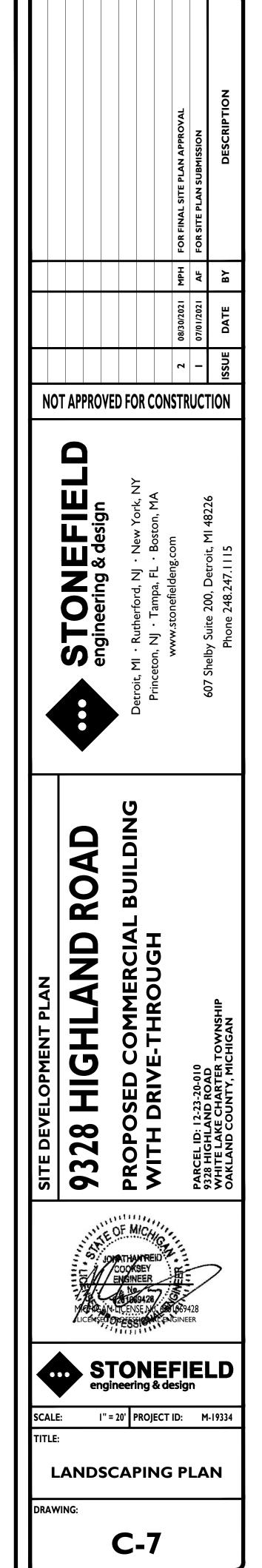
IRRIGATION NOTE:

IRRIGATION CONTRACTOR TO PROVIDE A DESIGN FOR AN IRRIGATION SYSTEM SEPARATING PLANTING BEDS FROM LAWN AREA. PRIOR TO CONSTRUCTION, DESIGN IS TO BE SUBMITTED TO THE PROJECT LANDSCAPE DESIGNER FOR REVIEW AND APPROVAL. WHERE POSSIBLE, DRIP IRRIGATION AND OTHER WATER CONSERVATION TECHNIQUES SUCH AS RAIN SENSORS SHALL BE IMPLEMENTED. CONTRACTOR TO VERIFY MAXIMUM ON SITE DYNAMIC WATER PRESSURE AVAILABLE MEASURED IN PSI. PRESSURE REDUCING DEVICES OR BOOSTER PUMPS SHALL BE PROVIDED TO MEET SYSTEM PRESSURE REQUIREMENTS. DESIGN TO SHOW ALL VALVES, PIPING, HEADS, BACKFLOW PREVENTION, METERS, CONTROLLERS, AND SLEEVES WITHIN HARDSCAPE AREAS.

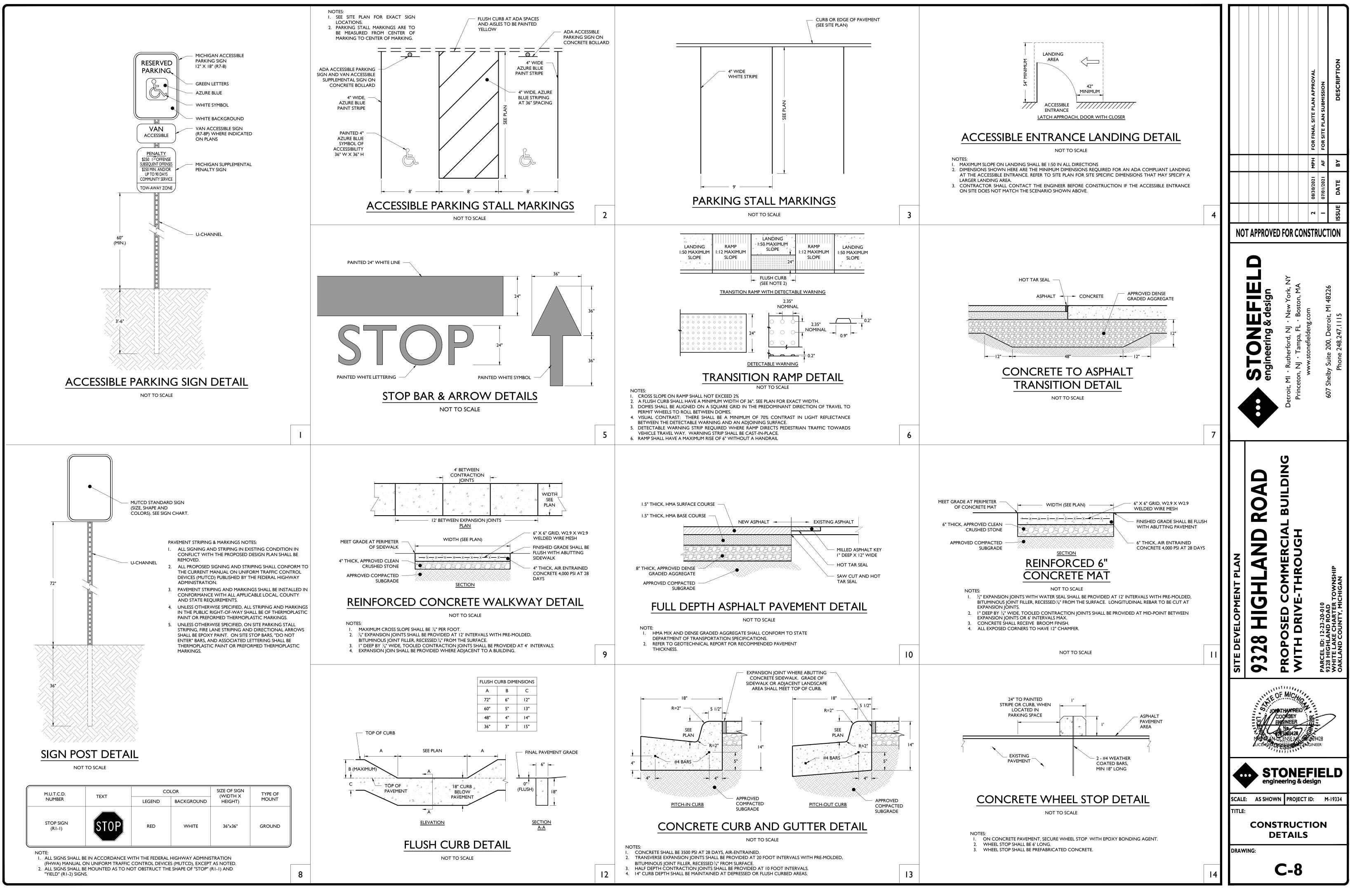
LANDSCAPING NOTES

- I. THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AND LANDSCAPED AREAS TO MATCH EXISTING CONDITIONS UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.
- 2. THE CONTRACTOR SHALL RESTORE ALL DISTURBED LAWN AREAS WITH A MINIMUM 4 INCH LAYER OF TOPSOIL AND SEED. 3. THE CONTRACTOR SHALL RESTORE MULCH AREAS WITH A MINIMUM
- 3 INCH LAYER OF MULCH . 4. THE MAXIMUM SLOPE ALLOWABLE IN LANDSCAPE RESTORATION AREAS SHALL BE 3 FEET HORIZONTAL TO I FOOT VERTICAL (3:1
- SLOPE) UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. 5. THE CONTRACTOR IS REQUIRED TO LOCATE ALL SPRINKLER HEADS IN AREA OF LANDSCAPING DISTURBANCE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL RELOCATE SPRINKLER HEADS AND LINES IN ACCORDANCE WITH OWNER'S DIRECTION WITHIN AREAS OF DISTURBANCE.
- 6. THE CONTRACTOR SHALL ENSURE THAT ALL DISTURBED LANDSCAPED AREAS ARE GRADED TO MEET FLUSH AT THE ELEVATION OF WALKWAYS AND TOP OF CURB ELEVATIONS EXCEPT UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. NO ABRUPT CHANGES IN GRADE ARE PERMITTED IN DISTURBED LANDSCAPING AREAS
- 7. ALL LANDSCAPED AREAS THAT ABUT PARKING AREAS WILL BE SEPARATED BY A 6" CURB. 8. LANDSCAPING MATERIALS THAT ARE IN POOR CONDITION WILL BE REMOVED AND REPLACED WITH MATERIALS THAT MEET THE ZONING ORDINANCE REQUIREMENTS.



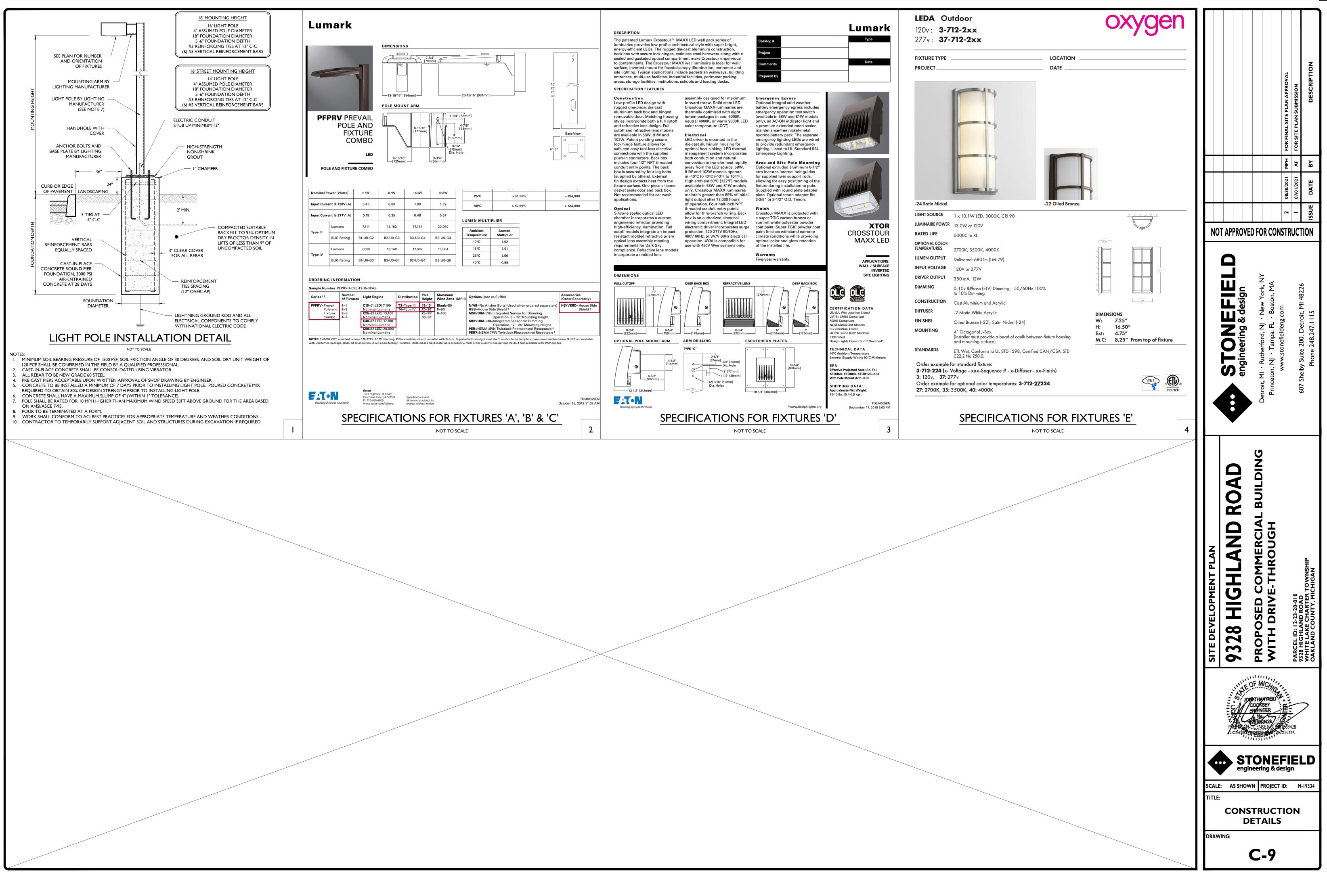


PAUL DEVITTO, L.L.A. MICHIGAN LICENSE No. 3901001797 LICENSED LANDSCAPE ARCHITECT

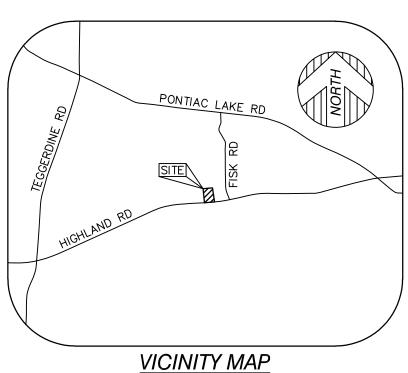


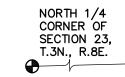
019\m-19334-ALRIG-9328 HIGHLAND ROAD, WHITE LAKE, MI\CADD\PLOT\SDP-08-09-DETL.DW(

Item A.



Item A.





NORTH LINE OF N88'34'54"E(R&M) 612.01'(R&M)

(NOT TO SCALE)

PARKING	MANI	HOLE SCHE	EDULE			
HANDICAP PARKING = 2 STALLS	40012	SANITARY MH	968.79		FULL OF WATER	
STANDARD PARKING = 60 STALLS			968.79		VALVE/PUMP INSIDE	
	40008	STORM MH	969.40	24	E	960.95
PARCEL AREA			969.40	24	W	961.00
$51,219\pm$ SQUARE FEET = $1.176\pm$ ACRES			969.40	18	SW	961.90
	40009	STORM CB	968.80		T/WATER	962.50
			968.80		B/STRUCTURE	961.90
BASIS OF BEARING	40184	SANITARY MH	966.01		BOLTED SHUT	
NORTH 88'34'54" EAST, BEING THE NORTH LINE	40185	SANITARY MH	966.04		BOLTED SHUT	
OF SECTION 23, AS DESCRIBED.	40186	SANITARY MH	966.31	6	Ν	960.97
			966.31	6	S	961.02
	40198	STORM CB	964.74		T/DEBRIS	963.39
BENCHMARK	40208	STORM CB	965.23	12	Ν	960.33
TURN ARROW ON HYDRANT, 61'± SOUTH OF THE			965.23	24	E	957.01
SOUTHWEST CORNER OF BUILDING #9328.			965.23	24	W	958.93
ELEVATION = 968.05' (NAVD 88)	40237	STORM CB	964.75		T/WATER	961.45
			964.75		B/STRUCTURE	959.55
	40343	STORM CB	964.06		T/WATER	961.66
SURVEYOR'S NOTES			964.06		B/STRUCTURE	958.46
1. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN	40143	STORM CB	964.59		T/WATER	961.39
LOCATED FROM FIELD SURVEY INFORMATION AND			964.59		B/STRUCTURE	959.39
EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES	40140	STORM CB	964.50		T/WATER	961.50
SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR			964.50		B/STRUCTURE	958.50
FURTHER DOES NOT WARRANT THAT THE	85000	STORM CB	964.92	30	W	954.72
UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY			964.92	12	NW	954.66
THAT THEY ARE LOCATED AS ACCURATELY AS			964.92	30	NE	955.41
POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE	85001	STORM CB	965.05	30	E	954.41
UNDERGROUND UTILITIES OTHER THAN THE STRUCTURE INVENTORY SHOWN HEREON.			965.05	30	NW	951.85

2. SUBJECT PROPERTY HAS INDIRECT ACCESS TO M-59/HIGHLAND ROAD VIA EASEMENT.

3. THERE IS NO OBSERVED EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS.

LEGEND

LEGEND	
	FOUND MONUMENT (AS NOTED)
\bullet	FOUND SECTION CORNER (AS NOTED)
(R&M)	RECORD AND MEASURED DIMENSION
(R)	RECORD DIMENSION
(M)	MEASURED DIMENSION
× ^{0.00}	GROUND ELEVATION
	ELECTRIC METER
\bigtriangleup	TRANSFORMER
0	UTILITY POLE
Ø	GAS METER
S	SANITARY MANHOLE
\oplus	ROUND CATCH BASIN
⊞	SQUARE CATCH BASIN
D	STORM DRAIN MANHOLE
с С	FIRE HYDRANT
** **	FIRE DEPARTMENT CONNECTION
\otimes	WATER GATE MANHOLE
e	BOLLARD
\$	LIGHTPOST/LAMP POST
М	MAIL BOX
- o -	SINGLE POST SIGN
رگر .	HANDICAP PARKING
	PARCEL BOUNDARY LINE
	ADJOINER PARCEL LINE
	SECTION LINE
	EASEMENT (AS NOTED)
	BUILDING
	BUILDING OVERHANG
	CONCRETE CURB
	RAISED CONCRETE
	PARKING
	EDGE OF CONCRETE (CONC.)
X	EDGE OF ASPHALT (ASPH.) FENCE (AS NOTED)
^	WALL (AS NOTED)
	OVERHEAD UTILITY LINE
G	GAS LINE
S	
D	STORM LINE
w	WATER LINE
	MINOR CONTOUR LINE
	MAJOR CONTOUR LINE
	BUILDING AREA
	ASPHALT
	CONCRETE

ZONING REGULATIONS

GB – GENERAL BUSINESS
*REQUIRED SETBACK L FRONT – 50 FEET LEAST ONE SIDE – 1 TOTAL TWO SIDES – REAR – 20 FEET

BACK LINE MINIMUM DIMENSIONS IN FEET -FF E – 15 FEET DES – 30 FEET

*MAXIMUM HEIGHT IN FEET - 35 FEET

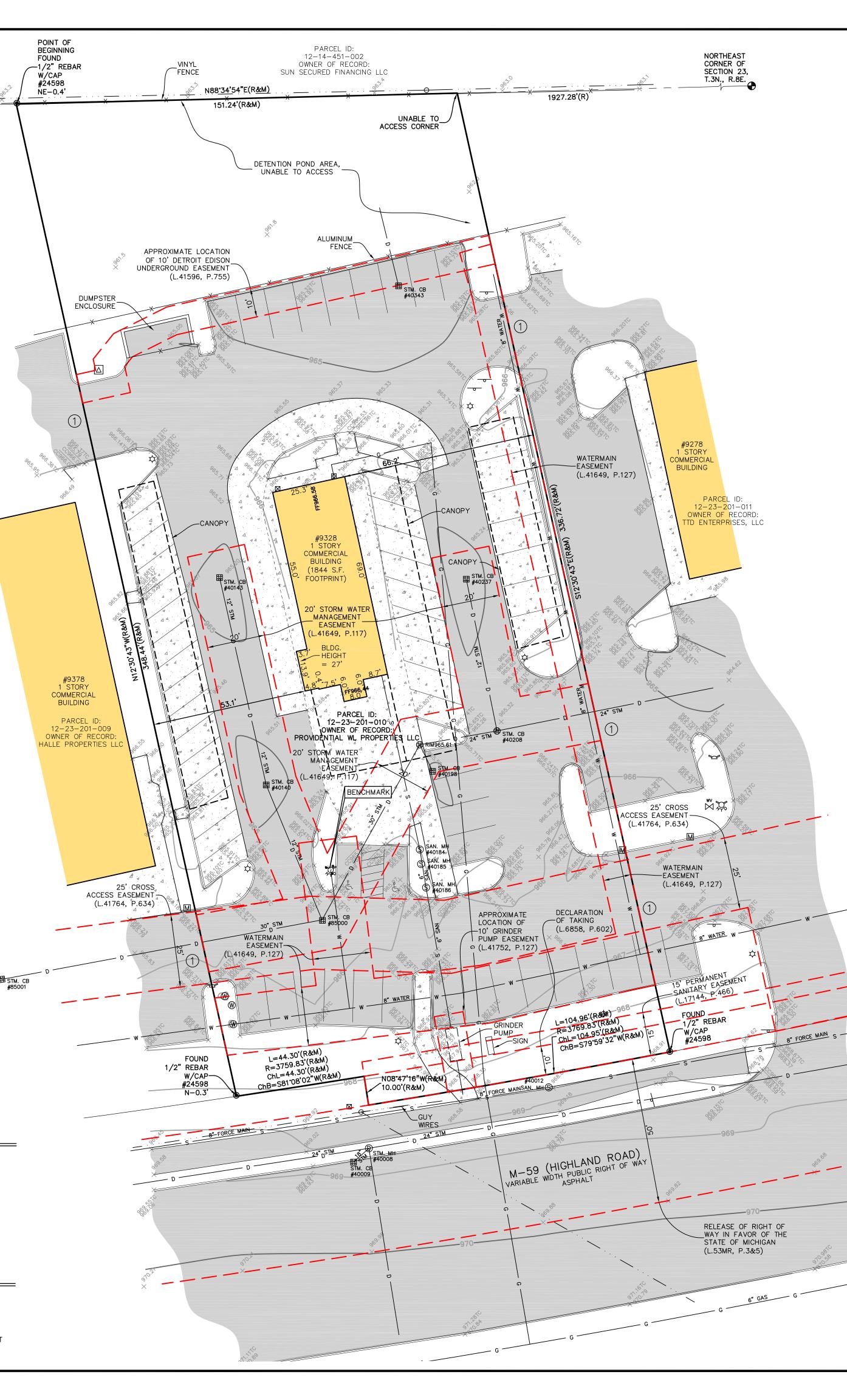
NOTE: ALL ZONING INFORMATION IS TAKEN FROM THE WHITE LAKE TWP. WEBSITE. ALL ZONING INFORMATION MUST BE VERIFIED FOR COMPLETENESS WITH CURRENT ZONING REGULATIONS.

FLOOD NOTE

SUBJECT PARCEL LIES WITHIN:

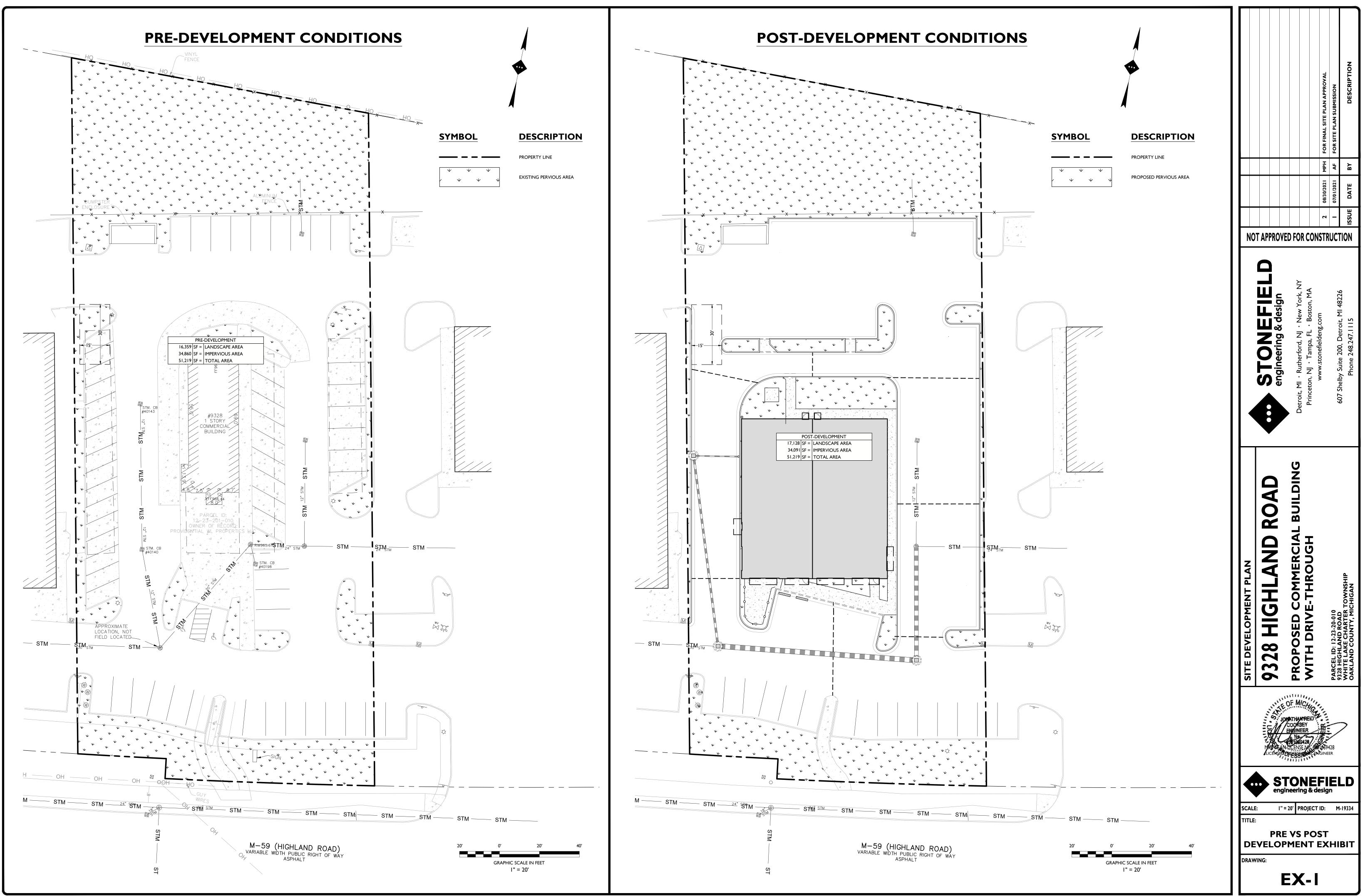
OTHER AREA (ZONE X): AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

AS SHOWN ON FLOOD INSURANCE RATE MAP: MAP NUMBER 26125C0336F, DATED 09/29/2006, PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.



	<u> </u>	Item
GRAPHIC SCALE	Main Main Professional Engineering, SURVEYING & ENVIRONMENTAL A GROUP OF COMPANIES SERVICES Eastpointe Detroit Ann Arbor (800) 295.722 (313) 758.0677 (734) 994.0888	emtecagroupofcompani
PROPERTY DESCRIPTION LAND SITUATED IN THE TOWNSHIP OF WHITE LAKE, COUNTY OF OAKLAND, STATE OF MICHIGAN, DESCRIBED AS FOLLOWS: PART OF THE NORTHEAST 1/4 OF SECTION 23, TOWN 3 NORTH, RANGE 8 EAST, WHITE LAKE TOWNSHIP, OAKLAND COUNTY, MICHIGAN, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT A POINT ON THE NORTH LINE OF SECTION 23 NORTH 80 DEGREES 34 MINUTES 54 SECONDS EAST 151.24 FEET; THENCE SOUTH 12 DEGREES 34 MINUTES 54 SECONDS EAST 151.24 FEET; THENCE SOUTH 12 DEGREES 34 MINUTES 54 SECONDS EAST 151.24 FEET; THENCE SOUTH 12 DEGREES 34 MINUTES 54 SECONDS EAST 151.24 FEET; THENCE SOUTH 12 DEGREES 34 MINUTES 54 SECONDS EAST 151.24 FEET; THENCE SOUTH 12 DEGREES 35 MINUTES 54 SECONDS EAST 151.24 FEET; THENCE SOUTH 12 DEGREES 35 MINUTES 54 SECONDS EAST 101.09 FEET TO A POINT ON A CURVE, SAD CURVE HAVING A RADIUS OF 3769.83 FEET, CENTRAL ANGLE OF 01 DEGREE 35 MINUTES 54 SECONDS, A CHORD BEARING AND DISTANCE OF SOUTH 79 DEGREES 59 MINUTES 18 SECONDS WEST 10.495 FEET; THENCE NORTH UNE OLAVE, SAD CURVE HAVING A RADIUS OF 3769.83 FEET, CENTRAL ANGLE OF ONTON A CURVE; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT 44.30 FEET AND ON THE NORTH LINE OF M-59 SOUTH 81 DEGREES 08 MINUTES 02 SECONDS WEST 348.44 FEET TO THE POINT OF BEGINNING. PILLE DEGREES 30 MINUTES 43 SECONDS WEST 348.44 FEET TO THE POINT OF BEGINNING. IDEGREES 40 MINUTES 02 SECONDS WEST 348.44 FEET TO THE POINT OF BEGINNING. IDEGREES 08 MINUTES 03 SECONDS WEST 348.44 FEET TO THE POINT OF BEGINNING. IDEGREES 08 MINUTES 03 SECONDS WEST 348.44 FEET TO THE POINT OF BEGINNING. IDEGREES 08 MINUTES 03 SECONDS WEST 348.44 FEET TO THE POINT OF BEGINNING. IDEGREES 08 MINUTES 04 SECONDS WEST 348.44 FEET TO THE POINT OF BEGINNING. IDEGREES 04 MINUTES 53 MR, PAGE 5. (AS SHOWN) IDEGREES 04 MINUTES AND THE CERTIFYING SURVEYOR. IDER SEARCH WAS PERFORMED BY THE CERTIFYING SURVEYOR. IDER SEARCH WAS PERFORMED BY THE CERTIFYING SURVEYOR. IDER SEARCH WAS PERFORMED BY THE CERTIFYING SURVEYOR. ID. RELEASE OF RIGHT OF WAY IN FAVOR OF THE S	CONFFIELD E ROAD, WHI	3 NORTH
 DETROIT EDISON UNDERGROUND EASEMENT (RIGHT OF WAY) IN FAVOR OF THE DETROIT EDISON COMPANY, AND THE TERMS, CONDITIONS AND PROVISIONS CONTAINED THEREIN, RECORDED IN LIBER 41596, PAGE 755. (APPROXIMATE LOCATION AS SHOWN) RECIPROCAL EASEMENT AGREEMENT, AND THE TERMS, CONDITIONS AND PROVISIONS CONTAINED THEREIN, RECORDED IN LIBER 41764, PAGE 634. (AS SHOWN) GRINDER PUMP AND EASEMENT AGREEMENT, AND THE TERMS, CONDITIONS AND PROVISIONS CONTAINED THEREIN, RECORDED IN LIBER 41752, PAGE 127. (APPROXIMATE LOCATION AS SHOWN) EASEMENT FOR UTILITIES IN FAVOR OF THE CHARTER TOWNSHIP OF WHITE LAKE, AND THE TERMS, CONDITIONS AND PROVISIONS CONTAINED THEREIN, RECORDED IN LIBER 41649, PAGE 127. (AS SHOWN) TERMS, CONDITIONS AND PROVISIONS CONTAINED THEREIN, RECORDED IN LIBER 41649, PAGE 127. (AS SHOWN) INTENTIONALLY DELETED INTENTIONALLY DELETED RESTRICTIVE COVENANT, AND THE TERMS, CONDITIONS AND PROVISIONS CONTAINED THEREIN, RECORDED IN LIBER 41260, PAGE 72. (SUBJECT PARCEL IS PARCEL C AS REFERENCED IN DOCUMENT, SEE DOCUMENT FOR TERMS AND CONDITIONS) RECIPROCAL EASEMENT AGREEMENT AND THE TERMS, CONDITIONS AND PROVISIONS RECIPROCAL EASEMENT AGREEMENT AND THE TERMS, CONDITIONS AND PROVISIONS 	REVISED THE TITLE WORK REVISED PER REVIEW COMMENTS	UPDATED MANHOLE SCHEDULE
29. INTENTIONALLY DELETED POSSIBLE ENCROACHEMENTS (1) ASPHALT, CURB AND PARKING AREAS CROSS EAST AND WEST PROPERTY LINES. SURVEYOR'S CERTIFICATION TO KEYBANK NATIONAL ASSOCIATION, ITS SUCCESSOR AND ASSIGNS; WHITE LAKE RETAIL MANAGEMENT LLC, A MICHIGAN LIMITED LIABILITY COMPANY; ALRIG USA ACQUISITIONS LLC; TITLE CONNECT LLC; AND FIRST AMERICAN TITLE INSURANCE COMPANY: THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD	05/11/2021 05/11/2021 05/11/2021 3 08/25/21 NPH 2 08/16/21 ATS	07/06/21

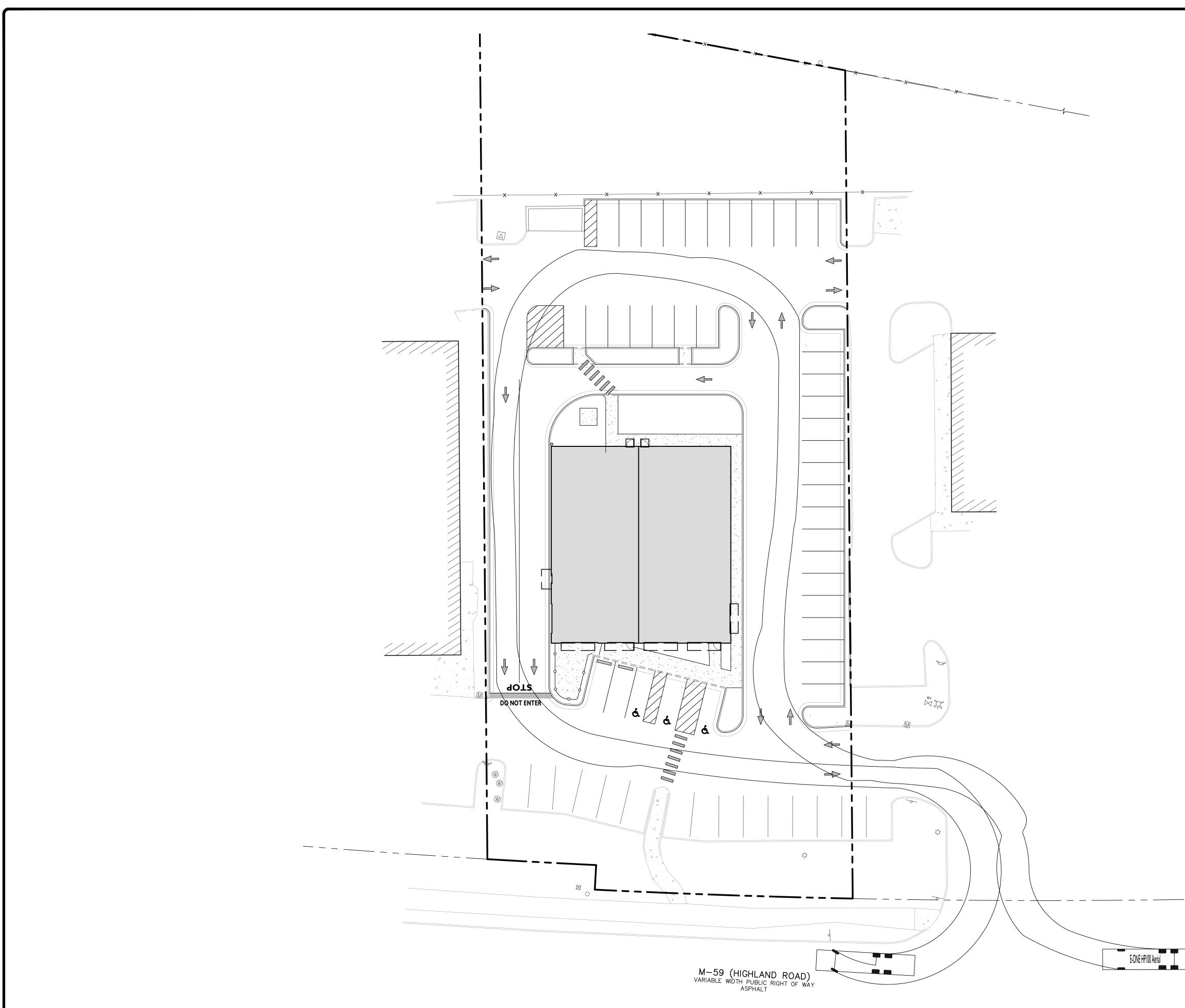
1 OF 1 SHEETS



120191M-19334-ALRIG-9328 HIGHLAND ROAD, WHITE LAKE, MICADDIPLOTIPRE VS POST - EXHIBIT.DW

Item A.





Item A.

FOR FINAL

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by Suite 200, Detroit, M Phone 248.247.1115

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PARCEL ID 9328 HIGHI WHITE LAI OAKLAND

